

MSH/ASAC



UNIVERSITY OF MINNESOTA

Spring 1994

Graduate School

Commencement



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Board of Regents

The Honorable Wendell R. Anderson, Minneapolis
The Honorable Julie A. Bleyhl, Madison
The Honorable William E. Hogan II
The Honorable Jean B. Keffeler, Minneapolis
The Honorable Hyon T. Kim, St. Anthony
The Honorable H. Bryan Neel III, Rochester
The Honorable Mary J. Page, Olivia
The Honorable Lawrence Perlman, Minneapolis
The Honorable William R. Peterson, Eagan
The Honorable Thomas R. Reagan, Gilbert
The Honorable Darrin M. Rosh, Owatonna
The Honorable Stanley D. Sahlstrom, St. Cloud

Administrative Officers

Nils Hasselmo, President
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
Anne H. Hopkins, Vice President for Arts, Sciences, and Engineering
Richard P. Elzay, Deputy Vice President for Health Sciences
Shelley N. Chou, Deputy Vice President for the Medical School
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.

Order of Events

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| Prelude Concert | From noon to 1 p.m., music is provided by Dean Billmeyer, D.M.A., Associate Professor of Music and University Organist. Prelude and Fugue in E-flat MajorJohann Sebastian Bach Entr' acteFranz Schubert Air (from Suite No. 3).Johann Sebastian Bach Three Festive Trumpet TunesFranklin D. Ashdown |
| Processional | At 1 p.m., the macebearer and the United States flag marshal march onto the stage, heralding the arrival of the academic procession of candidates. In the procession are administrators, faculty, distinguished guests, and regents. The order of march of candidates is as follows: Doctor of Philosophy Specialist Certificate in Education Doctor of Education Master's Degrees Doctor of Musical Arts Choral SongSamuel Sebastian Wesley Andante alla MarciaFelix Mendelssohn Prelude and Fugue in G MajorJohann Sebastian Bach March from <i>The Birds of Aristophanes</i> . .Charles Hubert Hastings Parry |
| The National Anthem | As soloist Kathleen Hardy steps to the microphone, the entire audience will stand and join in singing the national anthem: O, say! can you see, by the dawn's early light, What so proudly we hail'd at the twilight's last gleaming, Whose broad stripes and bright stars, thro' the perilous fight O'er the ramparts we watch'd were so gallantly streaming? And the rockets' red glare, the bombs bursting in air, Gave proof thro' the night that our flag was still there. O, say, does that star-spangled banner yet wave O'er the land of the free and the home of the brave? |
| Speaking for the University | Anne C. Petersen, Ph.D., Vice President for Research and Dean of the Graduate School |
| Introduction of Outstanding Achievement Award Recipient | Ronald L. Phillips, Ph.D., Regents' Professor, Department of Agronomy and Plant Genetics |
| Presentation of the Outstanding Achievement Award | Dean Petersen and Professor Phillips will present the Outstanding Achievement Award to Oscar L. Miller, Jr., Ph.D., Lewis and Clark Professor of Biology, University of Virginia, whose innovative research techniques have profoundly advanced the understanding of gene structure and mechanisms. Dr. Miller earned his doctoral degree from the University of Minnesota in 1960. |
| Conferring of the Award | Regent Stanley D. Sahlstrom |

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| Commencement Address | “Memory Traces” Oscar L. Miller, Jr., Ph.D. |
| Presentation of Candidates for Master’s Degrees and Specialist Certificates | Associate Vice President for Research and Associate Dean of the Graduate School Mark L. Brenner, Ph.D., will present the candidates for professional master’s, master of science, and master of arts degrees, and specialist certificate in education to Dean Petersen and the audience. All the candidates will proceed across the stage as they are presented. |
| Presentation of Candidates for Doctoral Degrees | Associate Dean of the Graduate School Theodore P. Labuza, Ph.D., will present the candidates for the degrees of Doctor of Musical Arts, Doctor of Education, and Doctor of Philosophy to Dean Petersen and the audience. Each new doctoral candidate will be hooded. |
| Conferring of Degrees | Regent Stanley D. Sahlstrom will confer certificates and degrees upon the candidates. |
| Closing Remarks | Dean Anne C. Petersen |
| Hail! Minnesota | The audience will rise and join in singing the University’s alma mater: Minnesota, hail to thee! Hail to thee, our college dear! Thy light shall ever be A beacon bright and clear; Thy sons and daughters true Will proclaim thee near and far; They will guard thy fame And adore thy name; Thou shalt be their Northern Star. |
| Recessional | The graduates will leave their seats. The audience is requested to remain seated until those in the academic procession have marched out. Toccata, from Symphony No. 5, Opus 42Charles-Marie Widor |
| Commencement Reception | The commencement reception on the plaza of Northrop Memorial Auditorium immediately follows the ceremony. All candidates and their guests are invited. |

Smoking is not permitted in any University buildings. We appreciate your cooperation with this policy.

Academic Costume and the University Mace

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

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

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

A new University of Minnesota Ph.D. gown and matching tam made their appearance in 1988 to celebrate the centenary of the first Minnesota doctor of philosophy degree. The new Minnesota gown is maroon-trimmed with black velvet chevrons and gold metallic braid. The traditional gown may still be worn.

The Minnesota hood, which may be worn by anyone with a doctoral degree from the University of Minnesota, is black with a maroon chevron on gold. Each institution has its own pattern of colors on the hood, worn around the neck and down the back of the gown. The length and shape of the hood identify the most advanced degree the wearer has earned, and the velvet edging shows the field: blue for doctor of philosophy, light blue for doctor of education, and pink for doctor of musical arts.

At commencement ceremonies hoods are worn by those who already have the doctoral degree. Degree candidates wear gowns appropriate for the degrees they are about to receive, and new doctorates are hooded on stage.

The Mace

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

The University of Minnesota

The University of Minnesota, ranked among the nation's top public universities, reflects the commitment to education of a state that is only 18th 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. Crookston offers associate and baccalaureate degrees in technical, career-oriented programs. 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.

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 472,857 degrees. Students earn undergraduate and graduate degrees in more than 250 fields of study. During the 1992-1993 academic year, the University of Minnesota conferred a total of 10,815 degrees on all its campuses.

The Duluth campus joined the University in 1947, the Morris campus opened in 1960, and the Crookston campus in 1966. Enrollment in fall 1993 was 48,524 on all four campuses. Enrollment was 37,548 on the Twin Cities campus, 7,586 at Duluth, 1,933 at Morris, and 1,457 at Crookston.

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

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

The Graduate School

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

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

Today the Graduate School has more than 3,300 faculty members and more than 10,000 students and offers degrees in approximately 175 fields.

Degrees Awarded

The following individuals had completed all the requirements for their degrees as of March 31, 1994. 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.

Professional Master's Degrees

Anthony Craig Abena

B.S. '86, Lewis and Clark College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Paul R. Ackerman

B.A. '83, Bethel College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Kirk Frederick Allbutt, St. Paul

B.S.B. '81, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Kurt Raymond Ament, Burnsville

B.S.B. '76, B.A. '82, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Julie Ann Anderson, Minneapolis

B.S.B. with high distinction '88, University of Minnesota. Degree: Master of Business Taxation, January '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

William Sanford Anderson

B.A. '76, St. Olaf College. Degree: Master of Landscape Architecture, October '93. Major: Landscape Architecture, Minor: Planning. Thesis: The Development of an Open System Transactional Model of the Natural Resource Public Policy Process. Major Adviser: Lance M. Neckar

Mark Joseph Andreini

B.M. '88, University of Minnesota. Degree: Master of Music, November '93. Major: Music. Major Adviser: Alexander Braginsky

Elizabeth Lee Bakke, Minneapolis

B.A. '88, St. Olaf College. Degree: Master of Social Work, January '94. Major: Social Work. Major Adviser: Nancy Johnston

John Farrell Ball III, Duluth

B.S. '89, St. Cloud State University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Janice Shima Barstad, Maple Grove

B.S. with distinction '82, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

John Benedict Berg, Grand Rapids

B.A. '86, Macalester College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Carol Ann Bezdicek, Dickinson, N.D.

B.S. cum laude '90, Moorhead State University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Paul Philip Bjerke, Fargo, N.D.

B.S. '90, North Dakota State University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Alison Lynne Blackowiak

B.A. '82, Lawrence University. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Leslie Helen Bodell, Plymouth

B.S.B.A. summa cum laude '87, Drake University. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Patricia Sand Borchert, Golden Valley

B.A. cum laude '75, Carleton College. Degree: Master of Science in Management of Technology, October '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

Lawrence Vincent Bot, Maple Grove

B.Phys. with distinction '81, University of Minnesota. Degree: Master of Science in Management of Technology, October '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

Robert Frank Boyce, St. Paul

B.A. cum Laude '77, Augustana College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Elizabeth Anne Boyle

B.A. '89, Smith College. Degree: Master of Social Work, October '93. Major: Social Work. Major Adviser: Nancy Johnston

Carolyn L. Braun

B.A. summa cum laude '90, St. Cloud State University. Degree: Master of Planning, October '93. Major: Planning. Major Adviser: Barbara L. Lukermann

John Joseph Bridge, Shorewood

B.S.B. with distinction '90, University of Minnesota. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Debbie M. Brown-Zellner, Shorewood

B.B.A. '77, Southern Methodist University. Degree: Master of Business Taxation, February '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Andrea Lynn Bungum, Minneapolis

B.A. magna cum laude '83, Luther College; M.A. '85, Western Illinois University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Robert Edward Burgmeier, Plymouth

B.S. '81, St. John's University. Degree: Master of Chemical Engineering, December '93. Major: Chemical Engineering. Minor: Related Fields. Thesis: A Statistical Analysis of the Effect of Processing Parameters on the Molecular Weight Polyurethane Blends in a Twin Screw Extruder. Major Adviser: Christopher W. Macosko

Jayne Enthoven Busche, Rochester

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science in Management of Technology, December '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

Daniel Thomas Butterbrodt

B.S. '87, University of Wisconsin. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Camille Calderaro, Minneapolis

B.S. '74, University of Minnesota. Degree: Master of Landscape Architecture, January '94. Major: Landscape Architecture. Minor: Related Fields. Thesis: The Wabasha Collaborative: A Citizen Participatory Approach to Public Art as Community Economic Development. Major Adviser: Lance M. Neckar

Lawrence Paul Carlson

B.A. '83, Northwestern College. Degree: Master of Music, December '93. Major: Music. Major Adviser: Thomas J. Ashworth

Shirley K. Carlson, Trimont

B.A. '69, Concordia College. Degree: Master of Social Work, December '93. Major: Social Work. Minor: Gerontology. Major Adviser: Helen Q. Kivnick

Denise Colleen Chaffee, St. Francis

B.A. magna cum laude '87, Augsburg College. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Woocheong Cheong

B.S. '88, Yonsei University. Degree: Master of Architecture, October '93. Major: Architecture. Thesis: A Design Proposal for the Urban Retreat Center. Major Adviser: Julia Robinson

Janette Childs, Vadnais Heights

B.A. '91, University of St. Thomas. Degree: Master of Business Taxation, March '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

David Lee Clarke

B.A. '76, Augsburg College. Degree: Master of Music, March '94. Major: Music. Major Adviser: Thomas S. Lancaster

John Patrick Cody

B.S. '87, Southern Illinois University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

David Michael Davis, Oshkosh, Wis.

B.A.E.M. '88, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Cheryl Lynn Dees-Earney, Baldwin, Wis.

B.B.A. cum laude '88, University of Wisconsin. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Daniel Marvin Donkers, Kenyon

B.A. '87, University of Denver. Degree: Master of Planning, March '94. Major: Planning. Major Adviser: Robert C. Einsweiler

John Michael Donovan, Minneapolis

B.S.E.E. '82, University of Notre Dame. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Sunil Dutta, Muzaffarnagar, U.P., India

B.E. '85, University of Roorkee. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

David Harold Dvorak, Minnetonka

B.A. '83, Gustavus Adolphus College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Kurt James Dyrhaug, St. Paul

B.F.A. '89, Minneapolis College of Art and Design. Degree: Master of Fine Arts, December '93. Major: Art. Minor: Related Fields. Major Adviser: Wayne E. Potratz

Tamara Lynn Eagle Bull, Aberdeen, S.D.

B.S. '87, Arizona State University. Degree: Master of Architecture, November '93. Major: Architecture. Thesis: Native American Housing on the Pine Ridge Reservation. Major Adviser: Julia Robinson

Scott Blaise Erickson

B.S.C.E. '86, Michigan Technological University. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Veronia Ann Erickson, Tucson, Ariz.

B.S.B.A. '89, University of Arizona. Degree: Master of Business Taxation, March '94. Major: Business Taxation. Minor: Related Fields. Major Adviser: Frederick R. Jacobs

Michelle Renee Fant

B.A. '90, University of Minnesota. Degree: Master of Architecture, December '93. Major: Architecture. Thesis: Hog Heaven: A Harley-Davidson Outfitter. Major Adviser: Garth C. Rockcastle

Julie Ann Fautsch, Spring Lake Park

Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Steven Mitchel Felber, Eagan

B.S. '72, Mankato State University; M.Ed. '75, Colorado State University. Degree: Master of Science in Management of Technology, February '94. Major: Management of Technology. Major Adviser: Yehiel Shulman

Colleen Rae Ferguson, Minnetonka

B.S. '90, University of Wisconsin. Degree: Master of Business Administration, March '94. Major: Business Administration – MBA Program. Major Adviser: Donald R. Bell

Colleen Rae Ferguson, Minnetonka

B.S. '90, University of Wisconsin. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Elizabeth Fitzsimons, Mount Carmel, Conn.

B.S. '80, St. Mary's College. Degree: Master of Landscape Architecture, January '94. Major: Landscape Architecture. Minor: Related Fields. Thesis: Outdoor Architecture for the Midwest: The Modern Residential Landscapes of Gertrude Eisendrath Kuh, 1935-1977. Major Adviser: Roger B. Martin

Barry Jack Fowler, Fairbanks, Alaska

B.A.E.M. '88, University of Minnesota. Degree: Master of Aerospace Engineering, October '93. Major: Aerospace Engineering. Minor: Related Fields. Thesis: A Conceptual Design and Simulation of a Direct Sequence Spread Spectrum Code Tracking Loop. Major Adviser: Yiyuan Zhao

Tony Genesis Fox, Foxboro, Mass.

B.S. '90, Southeastern Massachusetts University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Milind Arvind Gadre, Maple Grove

B.Eng. '84, University of Bombay; M.Eng. '86, University of Florida. Degree: Master of Business Administration, January '94. Major: Business Administration. Major Adviser: Donald R. Bell

Richard William Gannon

A.B. '73, University of Illinois. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Michael N. Gerhardt

B.S. '80, Arizona State University. Degree: Master of Business Taxation, January '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Randall Girard Geyen, Minneapolis

B.A. cum laude '87, St. Olaf College. Degree: Master of Business Administration, October '93. Major: Business Administration. Major Adviser: Donald R. Bell

Timothy Wallace Gotham, Minneapolis

B.B.A. '86, University of Wisconsin. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

John Joseph Grabowski, Plymouth

B.M.E. '86, University of Minnesota. Degree: Master of Mechanical Engineering, January '94. Major: Mechanical Engineering. Minor: Related Fields. Project: Development of an Elastic-Plastic Small Strain Finite Element Program for Educational Purposes. Major Adviser: Subbiah Ramalingam

Betty Ann GreenCrow, Winnebago, Neb.

B.A. '89, College of St. Catherine. Degree: Master of Social Work, March '94. Major: Social Work. Major Adviser: Oliver J. Williams

John Sidney Grondahl, Bloomington

B.S.B. '66, University of Minnesota; M.B.A. '72, Mankato State College. Degree: Master of Business Taxation, January '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Janice Marie Guimond, St. Peter

B.S. magna cum laude '86, St. Cloud State University. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Robert Gustavson, St. Paul

B.S. summa cum laude '82, Moorhead State University. Degree: Master of Business Taxation, December '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Peter Joseph Hammond, Kenosha, Wis.

A.B. '86, Princeton University. Degree: Master of Business Administration, January '94. Major: Business Administration. Major Adviser: Donald R. Bell

Brian James Harrington, Minot, N.D.

B.B.A. '83, University of North Dakota. Degree: Master of Business Administration, January '94. Major: Business Administration. Major Adviser: Donald R. Bell

Nancy Ann Hertaus, New Prague

B.A. '89, University of Minnesota. Degree: Master of Architecture, December '93. Major: Architecture. Thesis: The Notion of Nature. Major Adviser: Lance A. LaVine

Karen Hoising Highness, Long Lake

B.A. magna cum laude '78, Concordia College; B.S.B. '84, University of Minnesota. Degree: Master of Business Taxation, November '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

David Ralph Hinkemeyer, Anoka

B.S. '90, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Shannon Lee Hofstrand, Eden Prairie

B.A. cum laude '85, Carleton College. Degree: Master of Planning, November '93. Major: Planning. Major Adviser: Barbara L. Lukermann

Roderick John Hood

B.B.A. '86, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Mark Benjamin Hoornbeek, Glen Ellyn, Ill.

B.A. '86, Macalester College. Degree: Master of Social Work, October '93. Major: Social Work. Major Adviser: Jerome Beker

Deseria McGraw Hopkins, Minneapolis

B.S. '81, Central State University. Degree: Master of Social Work, January '94. Major: Social Work. Major Adviser: Maura Sullivan

Randall James Horning, Stillwater

B.A. summa cum laude '76, B.S.B. '79, University of Minnesota. Degree: Master of Business Taxation, October '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Thomas Duane Hoverman, Richfield

B.B.A. cum laude '87, University of Wisconsin. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Juei-Yen Hsieh, Taiwan

B.A. '84, National Chung-Hsing University; M.A. '90, Arizona State University. Degree: Master of Business Taxation, January '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Timothy James Hughes, St. Cloud

B.S. '88, St. John's University. Degree: Master of Business Administration, February '94. Major: Business Administration. Major Adviser: Donald R. Bell

Mark David Jacobson, Woodbury

B.Ch.E. '84, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Kyungwook Jeon

B.S. '89, Hanyang University. Degree: Master of Architecture, March '94. Major: Architecture. Thesis: The Investigation of New Formal and Spatial Implications of "Outcome Based Education" 'A Proposal for a New Harrison Elementary School in Minneapolis'. Major Adviser: Julia Robinson

Timothy Ernest Johnson, Green Bay, Wis.

B.M. with distinction '91, University of Wisconsin. Degree: Master of Music, October '93. Major: Music. Major Adviser: David A. Grayson

Laura Kingsbury Jones, Crystal

B.A. '88, Carleton College. Degree: Master of Business Administration, February '94. Major: Business Administration. Major Adviser: Donald R. Bell

Scott Douglas Jost, St. Paul

B.A. summa cum laude '85, Bethel College. Degree: Master of Fine Arts, December '93. Major: Art. Minor: Related Fields. Major Adviser: Lynn A. Gray

Edward Ian Joyce, Minneapolis

B.A. '85, Middlebury College. Degree: Master of Architecture, February '94. Major: Architecture. Thesis: Design of Artists' Housing and Studios in Frogtown, St. Paul. Major Adviser: Julia Robinson

Barbara Norman Kahl, Brookfield Center, Conn.

B.A. '88, St. Mary's College. Degree: Master of Fine Arts, October '93. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Jean A. Montgomery

Suzanne Kalar, Buffalo, N.Y.

B.S. '90, GMI Engineering and Management Institute. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

James Lee Keelin, Burnsville

B.A. '88, College of S. Thomas. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Jeannine Marie Kellogg

B.A. cum laude '89, St. Olaf College. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Timothy R. Kennedy, St. Paul

B.A. '86, Yale College. Degree: Master of Business Administration, January '94. Major: Business Administration. Major Adviser: Donald R. Bell

Cheryl Ann Ketelhut, Medford, Wis.

B.S. with honors '92, University of Wisconsin. Degree: Master of Social Work, December '93. Major: Social Work. Minor: Gerontology. Major Adviser: Helen Q. Kivnick

Rubina Aliahmed Khan, Hyderabad, India

B.Arch. '90, Jawaharlal Nehru Technological University. Degree: Master of Planning, December '93. Major: Planning. Major Adviser: Richard S. Bolan

Mary Mooty Kileen, Minneapolis

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Jonghyug Kim

B.S. '86, Hanyang University. Degree: Master of Architecture, October '93. Major: Architecture. Thesis: An Urban House for an Extended Family. Major Adviser: James E. Stageberg

Terry Allen Koerner, Topeka, Kan.

B.S.I.E. '87, Kansas State University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Rajat Kumar, Minneapolis

B.S. '88, Muskingum College. Degree: Master of Business Administration, January '94. Major: Business Administration. Major Adviser: Donald R. Bell

Blake Evans Larson, New Brighton

B.E.E. '82, University of Minnesota. Degree: Master of Science in Management of Technology, October '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

Miriam A. Laube, Pittsburgh, Pa.

B.A. cum laude '90, Boston College. Degree: Master of Fine Arts, November '93. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Stephen C. Kane

Sonya R. Lawson

B.M. magna cum laude '91, Memphis State University. Degree: Master of Music, October '93. Major: Music. Major Adviser: David A. Grayson

Joseph William Layne, Morehead, Ky.

B.A. cum laude '90, Morehead State University. Degree: Master of Fine Arts, November '93. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Jean A. Montgomery

Eun Kyung Lee, Seoul, Korea

B.S. '86, Master '90, Yonsei University. Degree: Master of Business Taxation, October '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Annalisa M. Lent, Eagan

B.A. '89, College of St. Benedict. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Lynn August Linse, Minneapolis

Degree: Master of Industrial Engineering, February '94. Major: Industrial Engineering. Minor: Related Fields. Project: Design and Implementation of a Bay-Shipments Manager for Tank Truck Loading. Major Adviser: Kevin J. Dooley

Hengqian Liu, Nanjing, Jiansu, China

B.Eng. '85, M.Eng. '88, Tianjin University. Degree: Master of Architecture, November '93. Major: Architecture. Thesis: Movie Theater for Selby-Western Neighborhood Redevelopment. Major Adviser: Julia Robinson

Paul Robert Lyons, Savage

B.Acc. '82, University of Minnesota. Degree: Master of Business Administration, January '94. Major: Business Administration. Major Adviser: Donald R. Bell

Elaine Jean Madigan, Minneapolis

B.S. '72, Mansfield State College. Degree: Master of Social Work, December '93. Major: Social Work. Major Adviser: Lee W. Wattenberg

Rita Jo Petty Manninen, Minneapolis

B.S. '77, Southern Illinois University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Paul Karl Martin, Hudson, Wis.

B.S. '84, St. John's University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Ross Dana Martin

B.L.A. '90, University of Arizona. Degree: Master of Landscape Architecture, October '93. Major: Landscape Architecture. Minor: Ecology. Thesis: Suburban Residents' Perception of Wildlife Habitat Patches and Corridors in Their Neighborhoods. Major Adviser: Joan I. Nassauer

Michelle Clair McCreery, Higginsville, Md.

B.F.A. '80, Central Missouri State University. Degree: Master of Fine Arts, November '93. Major: Art. Minor: Related Fields. Major Adviser: Thomas R. Cowette

Adam John McCuskey, Excelsior

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Debra Ann McDonald, Hermantown

B.B.A. '85, University of Minnesota. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Kathleen Marie McGhee

B.M. cum laude '81, M.M. '86, University of Maryland. Degree: Master of Music, November '93. Major: Music. Major Adviser: Thomas S. Lancaster

Susan Briggs McLean, Woodbury

B.B.A. magna cum laude '86, University of Wisconsin. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Paul H. Mendelson, Chicago, Ill.

B.A. '81, Macalester College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Mary Margaret Merrill, Minneapolis

B.S.B. '85, University of Minnesota. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Camille M. Meyer, St. Paul

B.A. '82, College of St. Benedict. Degree: Master of Business Taxation, November '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Nancy Ann Miller, Minneapolis

B.A. '89, University of Minnesota. Degree: Master of Architecture, November '93. Major: Architecture. Thesis: A Bridge, A Tower, A Wall and Four Corners: A Civic Armature for the Suburban Landscape. Major Adviser: Julia Robinson

Scott D. Miller, Woodbury

B.S.E. '84, University of Michigan. Degree: Master of Business Administration, October '93. Major: Business Administration. Major Adviser: Donald R. Bell

Steve William Moris, Stillwater

B.S.B. '87, University of Minnesota. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Sandra Lynn Mumm, Hancock

B.S.B. '88, University of Minnesota. Degree: Master of Business Administration. June '93. Major: Business Administration. Major Adviser: Donald R. Bell

Chris Gerard Muntiferig, Buffalo

B.S. magna cum laude '84. St. Cloud State University. Degree: Master of Business Administration. December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Kenneth Jacob Muth, Vadnais Heights

B.A. '82. Gustavus Adolphus College. Degree: Master of Business Administration. November '93. Major: Business Administration. Major Adviser: Donald R. Bell

Linda S. Neuberger

B.M. with distinction '90. Eastman School of Music. Degree: Master of Music. March '94. Major: Music. Major Adviser: John E. Anderson

Michael John Newell, Minneapolis

B.S.B. '86. University of Minnesota. Degree: Master of Business Administration. March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Oanh Thi Hoang Nguyen, Minneapolis

B.S. '91. University of Minnesota. Degree: Master of Social Work. February '94. Major: Social Work. Major Adviser: Irl E. Carter

Peter Stanley Nussbaum

B.S. '72. Antioch College. Degree: Master of Science in Management of Technology. November '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

Kristen Elizabeth Olson

B.S. '82. Arizona State University. Degree: Master of Business Administration. January '94. Major: Business Administration. Major Adviser: Donald R. Bell

David Wellington Owen-Cruise, Minneapolis

B.S. cum laude '87. Michigan Technological University. Degree: Master of Business Administration. October '93. Major: Business Administration. Major Adviser: Donald R. Bell

Jan Mina Parker, Minneapolis

B.E.E. '86. University of Minnesota. Degree: Master of Business Administration. December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Eva Renate Paul, Rastatt, Germany

Diplom-Musik '91. Staatliche Hochschule für Musik Karlsruhe. Degree: Master of Music. January '94. Major: Music. Major Adviser: Alexander Braginsky

James Wendel Perrill, Waconia

B.S.B. '91. University of Minnesota. Degree: Master of Business Administration. November '93. Major: Business Administration. Major Adviser: Donald R. Bell

Renee Jeanette Peterson, Mahtomedi

B.S. magna cum laude '83. St. Cloud State University. Degree: Master of Business Administration. January '94. Major: Business Administration. Major Adviser: Donald R. Bell

William Bernard Peterson, Andover

B.A. '88. Carleton College. Degree: Master of Business Administration. December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Harry D. Pevos, West Bloomfield, Mich.

B.S. '81. Oakland University. Degree: Master of Business Taxation. October '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Bernard John Pieper

B.S. '85. University of Wisconsin. Degree: Master of Business Administration. February '94. Major: Business Administration. Major Adviser: Donald R. Bell

Christopher Roger Plessel, Fridley

B.C.E. '92. University of Minnesota. Degree: Master of Civil Engineering. February '94. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Theodore V. Galambos

Timothy Marc Plevell, Aurora

B.A. cum laude '87. College of St. Scholastica. Degree: Master of Business Administration. December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Christopher N. Plum, Buffalo

B.A. with distinction '75. Swarthmore College. Degree: Master of Business Administration. December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Donald Alan Powers

B.A. summa cum laude '84. College of St. Thomas. Degree: Master of Business Administration. December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Paul Emerson Price

B.A. '87. University of Minnesota. Degree: Master of Fine Arts. February '94. Major: Art. Minor: Art History. Major Adviser: William N. Roode

Darrin Mark Purcell, Green Bay, Wis.

B.A. '89. University of Minnesota. Degree: Master of Business Administration. March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Julie Ann Ramirez

B.A. '91. University of Minnesota. Degree: Master of Social Work. January '94. Major: Social Work. Major Adviser: Rama S. Pandey

Paul Johnson Rech, Inver Grove Heights

B.A. '88. University of Minnesota. Degree: Master of Business Taxation. October '93. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Bart Christopher Richardson

B.A. cum laude '85. University of Connecticut. Degree: Master of Landscape Architecture. January '94. Major: Landscape Architecture. Minor: Related Fields. Thesis: Picturesque Landscape Assessment: The Lower St. Croix Riverway. Major Adviser: Lance M. Neckar

Calvin Griffith Robertson

B.A. '79. B.S.B. '83. University of Minnesota. Degree: Master of Business Taxation. February '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

Heide Kaye Rose, Hettinger, N.D.

B.B.A. '88, University of North Dakota. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Michael George Rowekamp, Bloomington

B.A. cum laude '80, College of St. Thomas. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Thomas William Rusch, Hopkins

B.E.E. '68, University of Minnesota. Degree: Master of Science in Management of Technology, October '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

James Marti Rutherford, Minnetonka

B.E.E. '82, University of Minnesota. Degree: Master of Science in Management of Technology, October '93. Major: Management of Technology. Major Adviser: Yechiel Shulman

John Bowne Sayner

B.B.A. '86, University of Wisconsin. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Randal J. Schlichting, Sauk Centre

B.S.B. '87, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Cathy McCall Schmidt, New Hope

B.B.A. '88, Iowa State University of Science and Technology. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Mark Fredrick Schmidt

B.S. '88, Iowa State University of Science and Technology. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Ralph James Schnorr, Aberdeen, S.D.

B.S. '69, B.S. '73, South Dakota School of Mines and Technology. Degree: Master of Civil Engineering, December '93. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Andrew Drescher

Duane Gary Schulthess, Chugwater, Wyo.

B.M. '89, University of the Pacific. Degree: Master of Music, December '93. Major: Music. Major Adviser: David B. Baldwin

David John Schweer, Iowa City, Iowa

B.A. cum laude '89, Coe College. Degree: Master of Business Administration, October '93. Major: Business Administration. Major Adviser: Donald R. Bell

Mark Joseph Schwirtz, St. Paul

B.S. cum laude '87, Winona State University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Greta Alice Sebald, Askov

B.A. '88, College of St. Catherine. Degree: Master of Business Administration, October '93. Major: Business Administration. Major Adviser: Donald R. Bell

Scott Frederick Singer, Roseville

B.S. '87, University of Wisconsin. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Donna Gay Rose Sloan, Oakdale

B.S.W. cum laude '85, Moorhead State University. Degree: Master of Social Work, March '94. Major: Social Work. Major Adviser: Clifton D. Hollister

Paul David Springer

B.S.B. '85, University of Minnesota. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Rick Scott Stezenski, Shawano, Wis.

B.B.A. summa cum laude '91, University of Wisconsin. Degree: Master of Business Taxation, January '94. Major: Business Taxation. Major Adviser: Frederick R. Jacobs

David William Sullivan, Brooklyn Park

B.M.E. '82, University of Minnesota. Degree: Master of Science in Management of Technology, February '94. Major: Management of Technology. Major Adviser: Yechiel Shulman

Susan Dawn Vetter Sullivan, Circle Pines

B.S. '79, University of Minnesota. Degree: Master of Social Work, December '93. Major: Social Work. Major Adviser: Ronald H. Rooney

Lori Grace Swanson, Minneapolis

B.S.Ch.E. cum laude '86, West Virginia University. Degree: Master of Materials Science and Engineering, December '93. Major: Materials Science and Engineering. Minor: Related Fields. Project: The Use of Electron Channeling Patterns to Monitor Degree of Crystal Damage in Soft Magnetic Ferrite Used for Recording Heads. Major Adviser: William W. Gerberich

Kenneth Yutaka Tanji, Brooklyn Center

B.A. '88, Yale College. Degree: Master of Business Administration, March '94. Major: Business Administration. Major Adviser: Donald R. Bell

Gary Vincent Tenison, Cuyahoga Falls, Ohio

B.S.A.A.E. '85, Ohio State University. Degree: Master of Business Administration, December '93. Major: Business Administration. Major Adviser: Donald R. Bell

Kenneth Lewis Truitner

A.B. '64, M.A. '66, University of California. Degree: Master of Social Work, January '94. Major: Social Work. Major Adviser: Nancy Johnston

David Michael Tschida

B.C.E. '80, University of Minnesota. Degree: Master of Civil Engineering, December '93. Major: Civil Engineering. Minor: Related Fields. Project: Widening Bridges by Post-Tensioning Clinton Falls, Minnesota Bridge 9055. Major Adviser: Roberto Tomas Leon

Nancy Jane Van Maren, Casper, Wyo.

B.A. with honor '87, University of Wyoming. Degree: Master of Social Work, November '93. Major: Social Work. Major Adviser: Rama S. Pandey

Catherine Ann Vermeland

B.A. summa cum laude '85, University of Minnesota.
Degree: Master of Fine Arts, December '93. Major: Art.
Minor: Related Fields. Major Adviser: James V. Henkel

Karen Baker Vnuk, New Brighton

B.S. '80, Mankato State University. Degree: Master of
Business Administration, December '93. Major: Business
Administration. Major Adviser: Donald R. Bell

Lise Christine Mitchell Wall, St. Paul

B.A. cum laude '88, St. Olaf College. Degree: Master of
Business Administration, February '94. Major: Business
Administration. Major Adviser: Donald R. Bell

Violette Walter, Hudson, Wis.

B.S. '75, Northern Illinois University. Degree: Master of
Business Taxation, October '93. Major: Business
Taxation. Major Adviser: Frederick R. Jacobs

Steven Edward Warren, Milwaukee, Wis.

B.B.A. '89, University of Wisconsin. Degree: Master of
Business Taxation, February '94. Major: Business
Taxation. Major Adviser: Frederick R. Jacobs

Mark Alawn Webster, Seattle, Wash.

B.A. '88, Barat College. Degree: Master of Landscape
Architecture, March '94. Major: Landscape Architecture.
Major Adviser: Robert D. Sykes

James Frederic Weygand, Rochester

B.S. '67, Polytechnic Institute of Brooklyn. Degree:
Master of Science in Management of Technology, March
'94. Major: Management of Technology. Major Adviser:
Yechiel Shulman

Keith Allen Whitaker, Cedar Falls, Iowa

B.S. with distinction '87, Iowa State University of
Science and Technology. Degree: Master of Business
Administration, December '93. Major: Business
Administration. Major Adviser: Donald R. Bell

Elaine Frieda White, Rochester

B.A. '62, University of Minnesota. Degree: Master of
Social Work, March '94. Major: Social Work. Major
Adviser: Maura Sullivan

Thomas G. Wilhelm, Huntington Beach, Calif.

B.G.S. '79, University of Michigan. Degree: Master of
Business Administration, March '94. Major: Business
Administration. Major Adviser: Donald R. Bell

Warren Stan Winkelman

B.A.B.A. '82, University of Minnesota. Degree: Master
of Business Administration, December '93. Major:
Business Administration. Major Adviser: Donald R. Bell

David Ekin Woodland, St. Paul

B.S.W. cum laude '77, West Virginia University. Degree:
Master of Social Work, January '94. Major: Social Work.
Major Adviser: Ronald H. Rooney

Marc Zapchenk

B.F.A. magna cum laude '86, University of Wisconsin.
Degree: Master of Fine Arts, January '94. Major: Art.
Minor: Related Fields. Major Adviser: Lynn A. Gray

*Professional Master's Degrees***University of Minnesota, Duluth****Robert Gene Aebli**

B.A. summa cum laude '89, College of St. Scholastica.
Degree: Master of Social Work, November '93. Major:
Social Work. Major Adviser: Melanie F. Shepard

Debora Sue Bradt, Grand Rapids

B.A. '81, University of Minnesota. Degree: Master of
Business Administration, February '94. Major: Business
Administration. Major Adviser: Thomas B. Duff

Jeff Michael Hall, Grand Rapids

B.S. '87, Bemidji State University. Degree: Master of
Social Work, December '93. Major: Social Work. Major
Adviser: Donald E. Maypole

Laurie E. Halverson, Superior, Wis.

B.S. '79, University of Wisconsin. Degree: Master of
Business Administration, March '94. Major: Business
Administration. Major Adviser: Linda E. Parry

Matthew David Johnson, Albert Lea

B.S. cum laude '89, Viterbo College. Degree: Master of
Business Administration, December '93. Major: Business
Administration. Major Adviser: Linda E. Parry

Allen Isaac Makynen, Duluth

B.A. summa cum laude '76, Concordia College. Degree:
Master of Business Administration, March '94. Major:
Business Administration. Major Adviser: Rodger L.
Brannan

Jeffrey Dean Osmonson, Lanesboro

B.A. magna cum laude '90, Southwest State University.
Degree: Master of Social Work, November '93. Major:
Social Work. Major Adviser: Dennis R. Falk

Maria Pendaraki

B.A. honours '90, York University. Degree: Master of
Social Work, December '93. Major: Social Work. Major
Adviser: Joyce M. Kramer

Master of Science

Manu Agarwal

B.Tech. '92, I.I.T. Kanpur. Degree: Master of Science in Electrical Engineering, March '94. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Block Size and Coherence Policy Choice in Cache-Only Memory Multiprocessors. Major Advisers: Gyungho Lee and David J. Lilja

Jameel Ahmed, Secunderabad, A.P. India

B.Eng. '89, Osmania University. Degree: Master of Science in Civil Engineering, October '93. Major: Civil Engineering. Minor: Related Fields. Major Adviser: Roberto Tomas Leon

Rao Venkateswara Akella, Visakhapatnam, Indja

Degree: Master of Science in Aerospace Engineering, January '94. Major: Aerospace Engineering. Minor: Computer and Information Sciences. Major Adviser: William L. Garrard

Abbas Alahyari

B.A.E.M. '91, University of Minnesota. Degree: Master of Science in Aerospace Engineering, November '93. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Ellen K. Longmire

Elicio Oliveira Amado, Salvador, Bahia, Brazil

Bacharel '90, Universidade Federal da Bahia. Degree: Master of Science, December '93. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: G. Edward Schuh

Jason R. Andrews, Blaine

B.S. magna cum laude '91, The Citadel. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering. Minor: Related Fields. Thesis: Mist: A Test Generator for Sequential Circuits. Major Adviser: Bapiraju Vinnakota

Houssam Atassi

B.S. '87, University of Minnesota. Degree: Master of Science, February '94. Major: Environmental Health. Minor: Related Fields. Major Adviser: Lisa M. Brosseau

Margaret Beisser Bahnson, St. Paul

B.S.N. '84, St. Louis University. Degree: Master of Science, November '93. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

Jonathan Dyer Bailey, Duluth

B.Math. '87, University of Minnesota. Degree: Master of Science, October '93. Major: Biostatistics. Minor: Related Fields. Major Adviser: Marcus O. Kjelsberg

Deborah Donovan Baird

B.S. '86, D.D.S. '90, University of Iowa. Degree: Master of Science, February '94. Major: Dentistry. Minor: Related Fields. Thesis: An Evaluation of Transient Cytotoxicity of Cavity Liners on Human Fibroblasts. Major Adviser: Robert J. Feigal

Paul Frederic Baude, Arden Hills

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, January '94. Major: Electrical Engineering. Minor: Related Fields. Thesis: Sol-Gel Derived Ferroelectric PLZT Optical Waveguide Fabrication. Major Adviser: Dennis L. Polla

Elizabeth A. Becker

B.A. '83, Cornell College; M.S. '87, University of Wisconsin. Degree: Master of Science, December '93. Major: Physiology. Minor: Related Fields. Major Adviser: John W. Osborn

Sanford Alan Beitsch, Minneapolis

B.S. '69, The City College of the City University of New York. Degree: Master of Science, December '93. Major: Geology. Minor: Related Fields. Major Adviser: Paul W. Weiblen

Izhar Bentov

B.Sc. '82, Tel-Aviv University. Degree: Master of Science in Electrical Engineering, November '93. Major: Electrical Engineering. Minor: Related Fields. Thesis: Outliers Detection in Multivariate Non-Parametric Regression with the CTM. Major Adviser: Vladimir Cherkassky

Gary Lee Berg

B.A. magna cum laude '71, Moorhead State College; B.S. '76, University of Minnesota. Degree: Master of Science in Industrial Engineering, December '93. Major: Industrial Engineering. Minor: Computer and Information Sciences. Major Adviser: Tarald O. Kvalseth

Peter Edward Bergner, Minneapolis

B.E.E. with distinction '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Matthew T. O'Keefe

Darren H. Berns, Hastings, Neb.

B.S.M.E. '91, University of Nebraska. Degree: Master of Science in Mechanical Engineering, March '94. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Investigation of Arc Instabilities in and Performance of Subsonic-Anode-Attachment Arcjet Thrusters. Major Adviser: Joachim V. R. Heberlein

Jennifer Lea Bishop, Clear Lake

B.S. '78, College of St. Benedict. Degree: Master of Science, February '94. Major: Nursing. Minor: Related Fields. Major Adviser: Mariah Snyder

Jodie Lynn Boone-Orke, Rochester

B.S.N. '81, Morningside College. Degree: Master of Science, March '94. Major: Nursing. Minor: Related Fields. Thesis: Perioperative Nurse Satisfaction: A Measurement of Perioperative Nurses' Job Satisfaction. Major Adviser: Sandra R. Edwardson

Scott Alan Brandt

B.Math. '87, University of Minnesota. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Nikolaos P. Papanikolopoulos

Mark Edmund Burgert, Rochester

B.S. with distinction '73, Stanford University; M.A. '74, Columbia University. Degree: Master of Science, March '94. Major: Statistics. Minor: Related Fields. Major Adviser: Douglas M. Hawkins

Gordon Stephen Oliver Burt, London, England

B.D.S. '84, M.Sc. '89, University of London. Degree: Master of Science, January '94. Major: Dentistry. Minor: Related Fields. Thesis: Clinical Evaluation of an Experimental Body and Incisal Shade Guide Based on In-vivo Tooth Color Measurements. Major Adviser: Richard J. Goodkind

Michael P. Campbell, West Caldwell, N.J.

B.S. summa cum laude '91, New Jersey Institute of Technology. Degree: Master of Science in Mechanical Engineering, March '94. Major: Mechanical Engineering. Minor: Biomedical Engineering. Thesis: A Design Study of an Implantable Limb Lengthening Device Driven by a Shape Memory Alloy. Major Adviser: Arthur G. Erdman

Michele Mary Canar, Park Ridge, Ill.

B.S. with honors '91, University of Illinois. Degree: Master of Science, December '93. Major: Food Science. Minor: Nutrition. Thesis: Development of a Frozen Yogurt for People Who are Lactose Intolerant. Major Adviser: Dennis A. Savaiano

Amy Marie Card

B.A. '83, College of St. Catherine. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Sandra R. Edwardson

Sandra Lee Carney, White Bear Lake

B.Math '83, University of Minnesota. Degree: Master of Science, January '94. Major: Computer and Information Sciences. Minor: Mathematics. Major Adviser: Youcef Saad

Fernanda Christiano Carvalho, Rio de Janeiro, Brazil

Engenharia '92, Universidade Federal do Rio de Janeiro. Degree: Master of Science, February '94. Major: Geoen지니어ing. Minor: Related Fields. Major Adviser: Joseph F. Labuz

Tze Fai Chan, Singapore

B.S. '93, University of Minnesota. Degree: Master of Science, March '94. Major: Food Science. Minor: Related Fields. Thesis: Reaction Kinetics for the Formation of Strecker Degradation Products in Model Systems. Major Adviser: Gary A. Reineccius

Ya-Hui Chang, Taiwan

B.S. '90, Fu Jen Catholic University. Degree: Master of Science, March '94. Major: Nutrition. Minor: Related Fields. Thesis: N-Acetylcysteine Conjugates of Isothiocyanates in Human Urine after Ingestion of Cruciferous Vegetables. Major Advisers: Joanne L. Slavin and Daniel D. Gallaher

Mary Jean Charlebois

B.S. '77, College of St. Teresa. Degree: Master of Science, November '93. Major: Nursing. Minor: Related Fields. Major Adviser: Ruth D. Lindquist

Timothy John Chavie, Faribault

B.S.E.E. magna cum laude '92, Rose-Hulman Institute of Technology. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Related Fields. Thesis: Electric Power Transmission System Capability Analysis. Major Adviser: Bruce F. Wollenberg

Diana Ching Chen, Fushun, Liaoning, China

B.S. '84, University of Science & Technology of China. Degree: Master of Science in Electrical Engineering, January '94. Major: Electrical Engineering. Minor: Physics. Major Adviser: James R. Leger

Carolyn Sue Christenson, Madison, Wis.

B.S. '88, University of Hawaii. Degree: Master of Science, January '94. Major: Nursing. Minor: Related Fields. Major Adviser: Laura J. Duckett

David Paul Clements, Minneapolis

B.S. '84, Iowa State University of Science and Technology. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Jaideep Srivastava

Denis Cohen

Degree: Master of Science in Chemical Engineering, December '93. Major: Chemical Engineering. Minor: Related Fields. Thesis: Two-Layer Slot Coating: Flow Visualization and Modelling. Major Adviser: L. E. Scriven

Barbara Jean Coldagelli, Forest Lake

B.E.E. '86, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Industrial Engineering. Major Adviser: James E. Holte

Razvan Liviu Cornea, Bucharest, Romania

Licenta Diploma '88, University of Bucharest. Degree: Master of Science, March '94. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Related Fields. Thesis: Effects of Membrane Thickness on the Molecular Dynamics and Enzymatic Activity of Reconstituted CA-ATPase. Major Adviser: David D. Thomas

Bryan Francis Craig, Isanti

B.A.E.M. '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, February '94. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Ephraim M. Sparrow

Susan Mary Curoe, Eagan

B.A. '87, College of St. Catherine. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Carol Pederson

Lori Lyn Daane

B.S. with high distinction '85, Ferris State College. Degree: Master of Science, October '93. Major: Ecology. Minor: Microbiology. Major Adviser: Eville Gorham

Scott Davic Dahl

Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Mathematics. Thesis: Determination of the Moisture Storage and Transport Properties of Common Building Materials. Major Adviser: Thomas H. Kuehn

Lynne M. Davis, Minneapolis

B.S. '81, University of Minnesota. Degree: Master of Science, March '94. Major: Physical Therapy. Minor: Related Fields. Major Adviser: John D. Allison

Mark Alan Decker, Burnsville

B.S.Pharm. summa cum laude '88, Drake University. Degree: Master of Science, January '94. Major: Pharmaceutics. Minor: Related Fields. Thesis: The Pharmacokinetics and Metabolism of Eretinate and Acitretin in the In situ Perfused Rat Liver. Major Adviser: Cheryl L. Zimmerman

Ying Ding, Shanghai, China

B.S. '84, M.S. '87, Shanghai Jiao Tang University. Degree: Master of Science, February '94. Major: Microbial Engineering. Minor: Related Fields. Thesis: Molecular Genetics Study of Methymycin Synthesis in *Streptomyces venezuelae*. Major Adviser: David H. Sherman

Kathryn Neoma Dole, Minneapolis

B.S. '72, University of Wisconsin. Degree: Master of Science, December '93. Major: Public Health. Minor: Related Fields. Major Adviser: Debra G. Froberg

Cheryl Kay Senechal Dubois, Waconia

B.S. '84, Texas Christian University; M.A. '87, University of Texas. Degree: Master of Science, February '94. Major: Environmental Health. Minor: Related Fields. Major Adviser: James H. Vincent

John G. DuPlissis

B.S. with distinction '85, University of Minnesota. Degree: Master of Science, February '94. Major: Forestry. Minor: Education. Thesis: Artificial Regeneration of Northern Red Oak (*Quercus rubra* L.) in the Drifless Area of Southeastern Minnesota. Major Adviser: Melvin J. Baughman

John Mark Eads, North Manchester, Ind.

B.S.N. '82, University of Texas. Degree: Master of Science, March '94. Major: Nursing. Minor: Related Fields. Major Adviser: LaVohn Josten

Janet Dawn Eckhoff, Minneapolis

B.S. '79, University of Minnesota. Degree: Master of Science, March '94. Major: Forestry. Minor: Double Minor. Major Adviser: Peter B. Reich

David Robert Engebretsen, Denmark, Wis.

B.E.E. summa cum laude '92, University of Minnesota. Degree: Master of Science in Electrical Engineering, March '94. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Matthew T. O'Keefe

Christine M. Etzell, Fargo, N.D.

B.A. '91, University of St. Thomas. Degree: Master of Science, November '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Anand R. Tripathi

Martin A. Fabrizius

B.S.Ag. cum laude '89, Kansas State University. Degree: Master of Science, November '93. Major: Plant Breeding. Minor: Related Fields. Thesis: Methods to Evaluate Populations for Alleles to Improve an Elite Hybrid. Major Advisers: Robert E. Stucker and Stephen J. Openshaw

Rob Ridgway Fagerson, St. Paul

B.M.E. cum laude '91, University of Minnesota. Degree: Master of Science in Mechanical Engineering, October '93. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Experimental Study of Rotary Draw Tube Bending: Influence of Tooling Adjustments on Springback. Major Adviser: Kim A. Stelson

Jeffrey S. Falk, Fountain City, Wis.

B.S. '66, University of Chicago. Degree: Master of Science, January '94. Major: Statistics. Minor: Related Fields. Major Adviser: Birgit Grund

Christopher Michael Feulner

B.S. '87, Purdue University. Degree: Master of Science, October '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: John T. Riedl

Kellie Maloney Fischer, Coon Rapids

B.S. '90, University of Minnesota. Degree: Master of Science, February '94. Major: Food Science. Minor: Related Fields. Major Adviser: Gary A. Reineccius

Daniel John Fitzpatrick

B.S. '78, University of Minnesota. Degree: Master of Science, November '93. Major: Forestry. Minor: Education. Thesis: Modeling the Insect-Borne Transmission of Oak Wilt in Minnesota. Major Adviser: Steven B. Laursen

Elizabeth Ann Floyd, Winona

B.M.E. '84, University of Minnesota. Degree: Master of Science, March '94. Major: Biomedical Engineering. Minor: Mechanical Engineering. Major Adviser: Arthur G. Erdman

Choumei Fu

B.S. '87, Georgia Southwestern College. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

Peggy Ann Garner-Hamrick

Degree: Master of Science, November '93. Major: Genetics. Minor: Related Fields. Major Adviser: John Curtis Winkelmann

Joseph Paul Gathman

Degree: Master of Science, January '94. Major: Forestry. Minor: Anthropology. Major Adviser: James A. Perry

Vadim Gektin

Diploma '88, Leningrad Polytechnic Institute. Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Ephraim M. Sparrow

Wendy Diane Gerhardt, Minneapolis

B.S.N. '83, Coe College. Degree: Master of Science, February '94. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

Karin Janet Gessner, Edina

B.C.E. '92, University of Minnesota. Degree: Master of Science in Industrial Engineering, December '93. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Kevin J. Dooley

Vafa Ghazi-Moghadam, Tehran, Iran

Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Mostafa Kaveh

Alexander Ekola Gohar

B.Math. '89. University of Minnesota. Degree: Master of Science in Electrical Engineering, March '94. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Gerald E. Sobelman

Cuiling Gong

Degree: Master of Science, December '93. Major: Civil Engineering. Minor: Mechanical Engineering. Thesis: Aerodynamic Simulation of High Speed Trains Passing a Tunnel. Major Adviser: Charles C. S. Song

Yimin Guo

B.S. '86. Peking University. Degree: Master of Science in Electrical Engineering, March '94. Major: Electrical Engineering. Minor: Related Fields. Thesis: Domain Walls in Permalloy Thin Films and Performance of Magnetoresistive Heads. Major Adviser: Jian-Gang Zhu

Zhengyu Guo

Degree: Master of Science, December '93. Major: Biostatistics. Minor: Related Fields. Major Adviser: James D. Neaton

Charu Gupta, Delhi, India

Degree: Master of Science, December '93. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Related Fields. Thesis: Topographic Images of Metal Mercaptide Derivatives of alpha-Bungarotoxin, a Nicotinic Acetylcholine Receptor Antagonist, Using Scanning Tunneling Microscopy. Major Adviser: Michael A. Raftery

Kerstin Maria Haberer, Starnberg, Germany

Diplom '90. Justus Liebig Universitat. Degree: Master of Science, March '94. Major: Food Science. Minor: Related Fields. Thesis: Evaluation of Starch Quality in Relation to Mixing Characteristics of Minnesota Wheat Varieties. Major Advisers: R. Gary Fulcher and Elaine H. Asp

Ann Denise Haines, Minneapolis

B.S. '87. University of Minnesota. Degree: Master of Science, November '93. Major: Conservation Biology. Minor: Related Fields. Major Adviser: Francesca J. Cuthbert

Khurram Jamal Hashmi

B.Eng. '91, N.E.D. University of Engineering and Technology. Degree: Master of Science in Mechanical Engineering, October '93. Major: Mechanical Engineering. Minor: Industrial Engineering. Major Adviser: Edward A. Fletcher

John A. Hauck, Shoreview

B.A. cum laude '77, Macalester College; B.S. '81, South Dakota State University. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Related Fields. Thesis: A Minute Ventilation Sensor Derived from Intra-Thoracic Electric Impedance as a Cardiac Pacemaker Rate Modulator. Major Adviser: James E. Holte

Mary R. Hayes, Roseville

B.S.N. summa cum laude '88, University of Michigan. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

Kale Paul Hadstrom, Hinckley

B.A. '84, Hamline University; B.E.E. with high distinction '91, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Physics. Thesis: The Design of Acoustic Emission Sensors for the Detection of Wood Destroying Insects. Major Adviser: William P. Robbins

Robert Longman Hills

B.S. '88, Virginia Polytechnic Institute and State University. Degree: Master of Science, March '94. Major: Plant Physiology. Minor: Related Fields. Thesis: Time Sequencing of Paraquat Application on Soybean: Effects and Possible Mechanisms. Major Adviser: Willard L. Koukkari

Chengta Ho, Taiwan

B.S. magna cum laude '89, Arizona State University. Degree: Master of Science in Mechanical Engineering, March '94. Major: Mechanical Engineering. Minor: Computer and Information Sciences. Major Adviser: Arthur G. Erdman

Bruce J. Holdhusen, St. Paul

B.M.E. '85, University of Minnesota. Degree: Master of Science in Civil Engineering, January '94. Major: Civil Engineering. Minor: Related Fields. Thesis: Long-Term Chemical Monitoring of Acid-Sensitive Lakes. Major Adviser: Patrick L. Brezonik

Cynthia J. Hollerbach

B.S. '80, University of Minnesota. Degree: Master of Science, December '93. Major: Environmental Health. Minor: Related Fields. Major Adviser: Deborah L. Swackhamer

Kathleen Ann Holm

B.A. '87, University of Minnesota. Degree: Master of Science, January '94. Major: Forestry. Minor: Related Fields. Major Advisers: Hans M. Gregersen and Dietmar W. Rose

Michael William Holmes, Rochester

B.S. '80, Southern Methodist University. Degree: Master of Science, March '94. Major: Environmental Health. Minor: Related Fields. Thesis: The Development of a Method to Extract Organochlorine Compounds from Human Milk. Major Adviser: Deborah L. Swackhamer

Ling-Jun Hou, Shanghai, China

B.E. '84, Shanghai Institute of Railway Technology. Degree: Master of Science, January '94. Major: Civil Engineering. Minor: Related Fields. Thesis: An Investigation of a Lumped Parameter Frost Heave Model. Major Advisers: Vaughan R. Voller and Raymond L. Sterling

Diane Lynn Hovey, St. Paul

B.A. cum laude '80, College of St. Benedict; B.S. '83, University of Minnesota. Degree: Master of Science, December '93. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Factors Influencing Home Modifications in Families Who have a Child with a Physical Disability. Major Adviser: Edward G. Goetz

Greg A. Howell

B.A. '84, Bethel College. Degree: Master of Science, November '93. Major: Chemistry. Minor: Related Fields. Major Adviser: John F. Evans

Yucheng Huang, China

B.Eng. '87, Tsinghua University; M.Eng. '90, Automation Institute. Degree: Master of Science in Electrical Engineering, November '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Ahmed H. Tewfik

Cynthia Jarzembinski, Franklin, Wis.

D.D.S. '88, Marquette University. Degree: Master of Science, January '94. Major: Dentistry. Minor: Related Fields. Thesis: A Longitudinal Comparison of Clinical Periodontal Parameters with Intrasulcular Laser Doppler Readings. Major Adviser: James E. Hinrichs

Taehyun Jeon, Seoul, Korea

B.S. '89, Yonsei University. Degree: Master of Science in Electrical Engineering, November '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Jay Moon

Yan Jiang, Lushan, Sichuan, China

B.Sc. '86, Peking University; M.Sc. '89, Institute of Geophysics. Degree: Master of Science, February '94. Major: Civil Engineering. Minor: Related Fields. Major Adviser: David E. Newcomb

Jon Eric Johnson, Lincoln, Neb.

B.S. with highest scholastic honors '87, Colorado School of Mines. Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Hydrocarbon Oxidation in a Diesel Catalytic Converter. Major Adviser: David B. Kittelson

Natalee Jo Johnson, Minneapolis

B.A. '81, College of St. Catherine. Degree: Master of Science, January '94. Major: Nursing. Minor: Related Fields. Major Adviser: LaVohn Josten

Rebecca Rose Johnson, Waconia

B.A. '89, University of Minnesota. Degree: Master of Science, October '93. Major: Scientific & Technical Communication. Minor: Related Fields. Major Adviser: Earl E. McDowell

Bruce Roy Jones, Hopkins

A.B. '79, Grinnell College. Degree: Master of Science in Electrical Engineering, November '93. Major: Electrical Engineering. Minor: Physics. Major Adviser: James E. Holte

Michele Ann Josephs, Minneapolis

B.S. '87, University of Minnesota. Degree: Master of Science, February '94. Major: Scientific & Technical Communication. Minor: Related Fields. Major Adviser: Ann H. Duin

Mahendra Lal Joshi

Diploma '75, Indian Forest College. Degree: Master of Science, October '93. Major: Forestry. Minor: Related Fields. Major Adviser: Hans M. Gregersen

Michael James Kannel, Rochester

B.C.E. with high distinction '91, University of Minnesota. Degree: Master of Science, October '93. Major: Civil Engineering. Minor: Related Fields. Thesis: Finite Element Analysis of Riveted Connections. Major Adviser: Roberto Tomas Leon

Janis D. Keil Day, Bellevue, Iowa

B.S.N. cum laude '82, University of Dubuque. Degree: Master of Science, February '94. Major: Nursing. Minor: Related Fields. Major Adviser: Ellen C. Egan

Deborah Lee King

B.A. cum laude '91, Carleton College. Degree: Master of Science, October '93. Major: Physics. Minor: Related Fields. Major Adviser: Russell K. Hobbie

Keith Thomas King, Fremont, Ohio

B.S. with high distinction '91, Ohio Northern University. Degree: Master of Science, February '94. Major: Physics. Minor: Related Fields. Major Adviser: Robert L. Lysak

Susan Kay Knutson, Rochester

B.S. '81, University of Wisconsin. Degree: Master of Science, March '94. Major: Health Informatics. Minor: Related Fields. Major Adviser: Donald P. Connelly

Henry A. Kobulnicky, Aurora, Ill.

B.S. with distinction '91, University of Iowa. Degree: Master of Science, November '93. Major: Astrophysics. Minor: Related Fields. Thesis: R-Band Polarimetry of Cygnus OB2: Implications for the Magnetic Field Geometry and Polarization Models. Major Adviser: Terry J. Jones

Michael Scott Kopecky, South Milwaukee, Wis.

D.D.S. '89, Marquette University. Degree: Master of Science, October '93. Major: Dentistry. Minor: Related Fields. Thesis: Metal-Ceramic Bond Characterization of One Nickel-Chromium-Beryllium and Three Cobalt-Chromium Base Metal Alloys. Major Adviser: Richard J. Goodkind

Russell Jerome Kuenzi, Beaver Dam, Wis.

B.S. with distinction '87, University of Wisconsin. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Related Fields. Thesis: Deadbeat Control in Power Electronics. Major Adviser: Ned Mohan

Jilly Huang-Lin Lai, Burnsville

B.A. '91, University of Minnesota. Degree: Master of Science, December '93. Major: Environmental Health. Minor: Scientific & Technical Communication. Major Adviser: James H. Vincent

Wen-Lin Lai, Taipei, Taiwan

B.A. '89, National Taiwan University. Degree: Master of Science, December '93. Major: Statistics. Minor: Related Fields. Major Adviser: David Lane

Matthew Kent Landon, St. Paul

B.S.Geol. '87, University of Kansas. Degree: Master of Science, December '93. Major: Geology. Minor: Related Fields. Thesis: Investigation of Mass Loss Based on Evolution of Composition and Physical Properties of Spilled Crude Oil Contaminating a Shallow Outwash Aquifer. Major Adviser: Hans-Olaf Pfannkuch

Patrick Lau

B.S. '86, Purdue University. Degree: Master of Science, February '94. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Nikolaos P. Papanikolopoulos

Mark Wayne Ledbetter, Minnetonka

B.S. '91, University of Wisconsin. Degree: Master of Science, March '94. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Related Fields. Thesis: Ryanodine Receptor Isoforms in the Pig. Major Adviser: Charles F. Louis

Chi Fung Lee

B.Comp.Sc. '89, University of Minnesota. Degree: Master of Science in Civil Engineering, February '94. Major: Civil Engineering. Minor: Related Fields. Thesis: Integration of Traffic Simulation and Database Management for Freeway Design and Operation. Major Adviser: Panos Michalopoulos

Heeyoung Lee, Seoul, Korea

B.S. '83, Yonsei University. Degree: Master of Science, March '94. Major: Nursing. Minor: Related Fields. Major Adviser: Muriel B. Ryden

Effendi Leobandung, Jakarta, Indonesia

B.S. with distinction '91, Iowa State University of Science and Technology. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Stephen Y. Chou

Christina Ping Leung

B.C.E. '92, University of Minnesota. Degree: Master of Science in Industrial Engineering, December '93. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Kevin J. Dooley

Mathew Todd Lewis, Kirk, Colo.

B.S. '90, Colorado State University. Degree: Master of Science, December '93. Major: Animal Science. Minor: Related Fields. Thesis: Growth Patterns for Pelvic Dimensions and Other Body Measurements of Beef Heifers and Bulls from 8 to 26 Months of Age. Major Advisers: Peter T. Anderson and Brent W. Woodward

Michael Lewis, Bend, Ore.

B.S. with high scholarship '89, Oregon State University. Degree: Master of Science, December '93. Major: Forestry. Minor: Related Fields. Thesis: An Exploration of Backcountry Encounter Norms in the Boundary Waters Canoe Area Wilderness Semiprimitive Nonmotorized Management Zone. Major Adviser: David W. Lime

Huaping Li, Beijing, China

B.S. '82, Beijing Institute of the Posts and Telecommunications. Degree: Master of Science, October '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Shashi Shekhar

Yayun Lin, Beijing, China

M.E. '83, Institute of Post and Telecommunications of Beijing. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering. Minor: Related Fields. Thesis: Current Fluctuations in Resonant Tunneling Diodes. Major Adviser: Arthur D. Van Rheenen

Valerie Kaye Lindeman, Albert Lea

B.A. '92, Purdue University. Degree: Master of Science, March '94. Major: Scientific & Technical Communication. Minor: Related Fields. Major Adviser: Mary M. Lay

John Leroy Lindquist

B.S. with honors '88, Montana State University. Degree: Master of Science, March '94. Major: Agronomy. Minor: Related Fields. Thesis: Population Dynamics and Economics of Velvetleaf (*Abutilon Theophrasti* Medic.) in a Corn-Soybean Rotation. Major Advisers: Bruce D. Maxwell and Douglas D. Buhier

Elizabeth Jane Linstrom, Greenbelt, Md.

B.S. '89, University of Wisconsin. Degree: Master of Science in Mechanical Engineering, January '94. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Susan C. Mantell

Steve Bruce Lonnes, Roseville

B.A.E.M. magna cum laude '91, University of Minnesota. Degree: Master of Science in Aerospace Engineering, December '93. Major: Aerospace Engineering. Minor: Related Fields. Major Advisers: Scott D. Abrahamson and Graham V. Candler

Shannon M. Lotthammer, Champlin

B.S. with high distinction '89, University of Nevada. Degree: Master of Science, March '94. Major: Ecology. Minor: Related Fields. Thesis: Effects of Sodium on Growth and Photosynthesis of Natural Algal Communities and Cultures of *Anabaena Flos-Aquae* and *Scenedesmus Quadricauda*. Major Adviser: Robert O. Megard

Jinhua Ma

B.S. '89, University of Science and Technology of China. Degree: Master of Science, January '94. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Zhiyuan Li

Dianne D. Mallison

B.S. magna cum laude '87, Augsburg College. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

Timothy Mark Maly, Minneapolis

B.M. '90, University of Minnesota. Degree: Master of Science, March '94. Major: Mathematics. Minor: Computer and Information Sciences. Major Advisers: John S. Lowengrub and Linda R. Petzold

James Patrick Martinez, Kingwood, Tex.

B.S. '88, Texas A&M University. Degree: Master of Science, October '93. Major: Plant Pathology. Minor: Related Fields. Thesis: Genetic Inheritance and Phylogenetic Relationships Using DNA Markers in the Bean Rust Fungus, *Uromyces appendiculatus*. Major Advisers: James V. Groth and Nevin D. Young

Karla Kay Martinez, Woodbury

Degree: Master of Science in Industrial Engineering, December '93. Major: Industrial Engineering. Minor: Statistics. Major Adviser: Kevin J. Dooley

Elizabeth Ann Matzke, Grand Rapids

B.A. '89, Gustavus Adolphus College. Degree: Master of Science, December '93. Major: Cell and Developmental Biology. Minor: Related Fields. Thesis: Functional Roles of Charged Residues in the Lactose Permease of *Escherichia coli*. Major Adviser: Robert J. Brooker

Rita Ellen McCabe, St. Paul

B.S. '68, University of Miami. Degree: Master of Science, March '94. Major: Nursing. Minor: Public Health. Major Adviser: Sharon K. Ostwald

Younging Mei

B.E. '84, Zhejiang University. Degree: Master of Science in Mechanical Engineering, January '94. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Evaluation/Applicability of a New VIP Methodology for Thermal Problems. Major Adviser: Kumar K. Tamma

Olivier David Meirhaeghe, Lyon, France

Degree: Master of Science, March '94. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Matthew T. O'Keefe

Elizabeth Ann Mensing, Pewaukee, Wis.

B.A. with distinction '83, University of Wisconsin. Degree: Master of Science, November '93. Major: Nutrition. Minor: Related Fields. Thesis: The Effects of Long Chain Saturated Fatty Acids on Cholesterol and Bile Acid Metabolism in Hamsters. Major Adviser: Daniel D. Gallaher

James William Meyer, Shoreview

B.S. with distinction '85, University of Wisconsin. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Richard Y. Kain

Kristin Noel Michaelson, LeSueur

B.S.N. '90, University of Minnesota. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Patricia Crisham

Charles D. Mick, Roseville

B.A. '80, Bethel College. Degree: Master of Science, December '93. Major: Scientific & Technical Communication. Minor: Related Fields. Major Adviser: Earl E. McDowell

Kent Douglas Miller

B.S. '86, Colorado State University. Degree: Master of Science, March '94. Major: Forestry. Minor: Related Fields. Major Adviser: Alvin A. Alm

Kristina Renee Miller

Degree: Master of Science, December '93. Major: Ecology. Minor: Quaternary Paleocology. Thesis: Does the Modern Pollen Rain in Lowland Tropical Areas Represent the Surrounding Vegetation? A Study from Lake Sediments in East Java, Indonesia. Major Advisers: Kerry R. Kelts and Edward J. Cushing

Zohreh Mirfakhraie

B.A.E.M. with high distinction '88, B.M. with high distinction '88, University of Minnesota. Degree: Master of Science in Aerospace Engineering, February '94. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: William L. Garrard

Devin Eugene Mix, Roseville

B.M.E. with distinction '89, University of Minnesota. Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Avram Bar-Cohen

Doris Elaine Mold, Lauderdale

B.S. '85, University of Minnesota. Degree: Master of Science, January '94. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Dale C. Dahl

Linda M. Monsen

B.Comp.Sc. '86, University of Minnesota. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Gini

Robert E. Murzyn, Minneapolis

B.S. with high distinction '89, University of Minnesota. Degree: Master of Science, January '94. Major: Plant Breeding. Minor: Related Fields. Thesis: Mass Selection for Early Maturity and Yield in Maize. Major Adviser: Robert E. Stucker

Michael Thomas Naus, West Bend, Wis.

B.S. '91, University of Wisconsin. Degree: Master of Science, October '93. Major: Physics. Minor: Related Fields. Major Adviser: Allen M. Goldman

Mamadou N'Diaye

Degree: Master of Science, December '93. Major: Animal Science. Minor: Related Fields. Major Adviser: Bo G. Crabo

Bryan Patrick Nelson, Helena, Mont.

B.A. '87, Carroll College. Degree: Master of Science, October '93. Major: Dentistry. Minor: Related Fields. Thesis: Use of a Dentinal Bonding Agent as an Intermediary to Enhance Bonding of Orthodontic Brackets in a Contaminated Field. Major Adviser: Richard R. Bevis

David Bruce Nelson, Hopkins

B.Math. with high distinction '89, University of Minnesota. Degree: Master of Science, March '94. Major: Statistics. Minor: Related Fields. Major Adviser: Glen D. Meeden

Jenifer E. Nelson

B.S. '79, Mount Mercy College. Degree: Master of Science, October '93. Major: Nursing. Minor: Related Fields. Major Adviser: Helen E. Hansen

Lori Ann Nelson, Burnsville

B.M.E. with distinction '87, University of Minnesota. Degree: Master of Science in Mechanical Engineering. January '94. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Arthur G. Erdman

David A. Nemetz, Brookfield, Conn.

B.S. summa cum laude '89, Beloit College. Degree: Master of Science, October '93. Major: Geology. Minor: Civil Engineering. Thesis: The Geochemical Evolution of Ground Water Along Flowpaths in the Prairie du Chien-Jordan Aquifer of Southeastern Minnesota. Major Adviser: Hans-Olaf Pfannkuch

Shing-Chung Ngan

B.S. with high honor '90, University of California. Degree: Master of Science, January '94. Major: Mechanics. Minor: Related Fields. Major Adviser: Lev Truskinovsky

Gail Suzanne Novacheck, Minneapolis

B.S. '84, University of Wisconsin. Degree: Master of Science, February '94. Major: Nursing. Minor: Related Fields. Major Adviser: Ruth D. Lindquist

David Hanley Olwell, Jr., Seattle, Wash.

B.S. '80, U.S. Military Academy. Degree: Master of Science, March '94. Major: Statistics. Minor: Related Fields. Major Adviser: Douglas M. Hawkins

Grant Gene Ovsak, Crookston

Degree: Master of Science in Electrical Engineering. March '94. Major: Electrical Engineering. Minor: Physics. Thesis: High Efficiency Alternating Current to Direct Current Power Conditioner with Sinusoidal Current Draw. Major Adviser: Ned Mohan

Mahesh Padmanabhan, Madras, India.

B.Tech. '85, I.I.T. Kharagpur; M.S.Ag.E. '89, University of Minnesota. Degree: Master of Science in Chemical Engineering, December '93. Major: Chemical Engineering. Minor: Related Fields. Thesis: Evaluation of the Entrance Pressure Drop Method to Estimate Extensional Viscosity. Major Adviser: Christopher W. Macosko

John Michael Page, Albuquerque, N.M.

B.S. '91, University of New Mexico. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering-Rochester. Minor: Computer and Information Sciences. Major Adviser: Matthew T. O'Keefe

Kenneth Earl Palmquist, White Bear Lake

B.A. magna cum laude '83, Bethel College. Degree: Master of Science in Chemical Engineering, November '93. Major: Chemical Engineering. Minor: Related Fields. Thesis: Studies of Slide Coating Start-Up Flow. Major Adviser: L. E. Scriven

Chih-Chung Pan, Taiwan

B.S.Eng. '80, M.S.Eng. '85, National Taiwan University. Degree: Master of Science, January '94. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Jaideep Srivastava

Eric J. Panken

A.B. '78, Duke University; M.S. '84, M.S.E.E. '86, University of Minnesota. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Maria Gini

George Dennis Papandonatos, Corfu, Greece

B.Sc.hons. '87, University of Essex. Degree: Master of Science, March '94. Major: Statistics. Minor: Related Fields. Major Adviser: Seymour Geisser

Kenneth L. Parkhill, Austin, Tex.

B.S.C.E. '90, University of Texas. Degree: Master of Science, February '94. Major: Civil Engineering. Minor: Related Fields. Thesis: Measurement of Air-Water Mass Transfer at Hydraulic Structures. Major Adviser: John S. Gulliver

Timothy E. Parshall, Wheeling, W.Va.

B.S. '91, Purdue University. Degree: Master of Science, December '93. Major: Ecology. Minor: Quaternary Paleocology. Thesis: Canopy Disturbances Mediate Species Composition Changes in a Northern Hemlock-Hardwood Forest Mosaic. Major Adviser: Margaret B. Davis

Rita Josefina Pasini, Tucuman, Argentina

Ing.Agron. '83, Universidad Nacional de Tucuman. Degree: Master of Science, March '94. Major: Plant Breeding. Minor: Related Fields. Thesis: Component Traits in Common Bean for Improved Nitrogen Fixation: Germplasm Screening, and Early Generation Selection. Major Adviser: David W. Davis

Timothy Mark Paulus, St. Paul

B.S. '86, North Dakota State University. Degree: Master of Science in Mechanical Engineering, March '94. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: James W. Ramsey

Roger Frank Pearson

B.S. with highest honors '77, Montana State University. Degree: Master of Science, February '94. Major: Environmental Health. Minor: Related Fields. Thesis: PCBs in Lake Michigan Water: Comparison to 1980 and Mass Budget for 1991. Major Adviser: Deborah L. Swackhamer

Richard Kwame Peasah

B.Sc. '88, University of Ghana. Degree: Master of Science, March '94. Major: Horticulture. Minor: Related Fields. Thesis: The Influence of Cultivar, Temperature, and Ethylene on Blackspot Development in Tubers of Solanum Tuberosum. Major Adviser: Cindy B. Tong

Michael Jay Pischke

B.Ext.Met.E. '91, University of Minnesota. Degree: Master of Science, March '94. Major: Materials Science and Engineering. Minor: Related Fields. Thesis: The Role of Manganese Evaporation in the High Temperature Oxidation of an Austenitic Stainless Steel. Major Adviser: David A. Shores

Gilbert Richard Pitts

B.S. '91, University of Minnesota. Degree: Master of Science, February '94. Major: Animal Physiology. Minor: Related Fields. Thesis: The Regulation of Incubation Behavior by Vasoactive Intestinal Peptide. Major Adviser: Mohamed E. El-Halawani

Zhaojui Qu

Degree: Master of Science in Electrical Engineering. November '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Jay Moon

Mahfuzur Rahman

M.S. '74. Ph.D. '78. Carleton University. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Parallel Implementation of the C.G. Method with Efficient Use of Local Memory Storage. Major Adviser: Anthony T. Chronopoulos

David Michael Rathke, East Lansing, Mich.

B.S. '89, Michigan State University. Degree: Master of Science, October '93. Major: Forestry. Minor: Related Fields. Thesis: An Evaluation of Minnesota's Timberland Property Tax Laws. Major Adviser: Melvin J. Baughman

Alice Marie Reilly-Myklebust, Janesville, Wis.

B.S.N. '83. University of Wisconsin. Degree: Master of Science, October '93. Major: Nursing. Minor: Public Health. Major Advisers: LaVohn Josten and Mila A. Aroskar

Choong-Youl Rhee, Seoul, Korea

B.S. '83, M.S. '85, Korea University: B.Comp.Sc. summa cum laude '91, University of Minnesota. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Civil Engineering. Major Adviser: Anthony T. Chronopoulos

Kent Steven Roessler, Fridley

B.Geo.E. '85, B.Comp.Sc. '89, University of Minnesota. Degree: Master of Science in Geo-Engineering, October '93. Major: Geo-Engineering. Minor: Computer and Information Sciences. Major Adviser: Karl A. Smith

Daniel James Rogers, White Bear Lake

B.E.E. '81, University of Minnesota. Degree: Master of Science in Electrical Engineering, February '94. Major: Electrical Engineering. Minor: Related Fields. Thesis: Nd:Yag Laser Induced Phase Gratings in Cadmium Sulfide. Major Adviser: Robert J. Collins

Bisser Vladimirov Roussanov

Diploma '89, Sofia University. Degree: Master of Science, March '94. Major: Statistics. Minor: Mathematics. Major Adviser: William D. Sudderth

Mazhar Sajjad, Lahore, Pakistan

B.Sc.Mech.Eng. '89, University of Engineering and Technology, Lahore. Degree: Master of Science in Industrial Engineering, November '93. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Sant Ram Arora

Michael Salvati, New Ulm

B.S. '88, University of Wisconsin. Degree: Master of Science, December '93. Major: Biochemistry. Minor: Related Fields. Thesis: Effect of Salt and pH on Stability of Two Site-Directed Mutants of Bovine Pancreatic Trypsin Inhibitor. Major Adviser: Clare K. Woodward

Barbara Marie Satnik, Minneapolis

B.S. '83, College of St. Benedict. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen G. Dineen

Shawn M. Schaffer

B.S. '90, University of Wisconsin. Degree: Master of Science, March '94. Major: Food Science. Minor: Related Fields. Thesis: Microbiological Safety of Blue and Cheddar Cheese Containing Naturally Modified Milk Fat. Major Adviser: Sita R. Tatini

Susan Kersten Schenkenberg, Arlington, Tex.

B.S. '90, Trinity University. Degree: Master of Science, October '93. Major: Chemistry. Minor: Related Fields. Thesis: Studies Directed Toward the Synthesis of Bullatacin and Related Annonaceous Acetogenin Analogues. Major Adviser: Thomas R. Hoye

Jean-Paul Xavier Schirle-Keller, Montrage, France

Maitrise '87, University Paris VI, D.E.A. '88, University Paris VII. Degree: Master of Science, January '94. Major: Food Science. Minor: Related Fields. Major Adviser: Gary A. Reineccius

Sally Walker Schuette, Prescott, Wis.

D.D.S. '84, University of Minnesota. Degree: Master of Science, February '94. Major: Dentistry. Minor: Related Fields. Thesis: The Prevalence of Dental Disease in Children Being Considered for Bone Marrow Transplantation. Major Adviser: John P. Conry

Philip M. Schwab, Standish, Mich.

B.S. with high honor '90, Michigan State University. Degree: Master of Science, November '93. Major: Plant Breeding. Minor: Related Fields. Thesis: Field and Laboratory Methodologies for Measuring Winter Survival and Cold Tolerance in Alfalfa. Major Adviser: Donald K. Barnes

Scott Edward Schwartz, St. Paul

B.S.M.E. '89, Massachusetts Institute of Technology. Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Statistics. Major Adviser: Kim A. Stelson

Sean Thomas Scully

B.Phys. '90, B.S.Astrop. '90, University of Minnesota. Degree: Master of Science, December '93. Major: Astrophysics. Minor: Physics. Thesis: Radio Synchrotron Emission from Adiabatic Phase Supernova Remnants. Major Adviser: Thomas W. Jones

Kasyap Venkata Seethamraju, Hyderabad, India

B.Tech. '88, Andhra Pradesh Agricultural University; M.Tech. '90, Indian Institute of Technology. Degree: Master of Science in Agricultural Engineering, January '94. Major: Agricultural Engineering. Minor: Related Fields. Thesis: Rheological Measurements During the Extrusion of Biopolymers. Major Adviser: Mrinal Bhattacharya

Sarfراز Hussain Selani

B.E. '91, N.E.D. University of Engineering and Technology. Degree: Master of Science, March '94. Major: Mechanics. Minor: Related Fields. Major Adviser: Theodore A. Wilson

Michael Herman Sexton, Apple Valley

B.A. '64, College of St. Thomas; Spec.Ed. '81, University of Minnesota. Degree: Master of Science, December '93. Major: Technical Communication. Minor: Related Fields. Thesis: Computer-Based and Paper-and-Pencil Practice of Elementary Math Skills. Major Adviser: Earl E. McDowell

Robert J. Shepherd, Eagan

B.S. '80, Stockton State College. Degree: Master of Science, March '94. Major: Computer and Information Sciences. Minor: Electrical Engineering. Major Adviser: Maria Gini

Karen Sue Shimon, St. Paul

B.A. '87, Hamline University. Degree: Master of Science, November '93. Major: Civil Engineering. Minor: Related Fields. Thesis: A Gas Transfer Measurement Technique for Lakes. Major Adviser: John S. Gulliver

Teresa Lucy Sierzant, Minneapolis

B.S.N. with distinction '75, University of Minnesota. Degree: Master of Science, November '93. Major: Nursing. Minor: Related Fields. Thesis: Psychometric Assessment of an Instrument to Determine Nurses' Knowledge and Attitudes Regarding Patients with Epileptic and Psychogenic Seizures. Major Adviser: Mariah Snyder

David John Smith, Silver Spring, Md.

B.S. summa cum laude '91, Case Western Reserve University. Degree: Master of Science in Mechanical Engineering, October '93. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Fluid Mechanics Measurements in a Cascade Simulator which Models the Gas Turbine Environment. Major Advisers: Terrence W. Simon and Ernst R. G. Eckert

Wei-Hwa Song

B.S. '85, M.S. '87, National Taiwan University. Degree: Master of Science, November '93. Major: Biostatistics. Minor: Related Fields. Major Adviser: John E. Connert

Stanten Charles Spear, Edina

B.Met.E. '84, B.Mat.Sc.E. '84, University of Minnesota. Degree: Master of Science, December '93. Major: Biomedical Engineering. Minor: Materials Science and Engineering. Thesis: Susceptibility of Polyurethanes to Biological Oxidants. Major Advisers: John R. Mahoney, Jr. and Arthur J. Coury

John Ed Stiffin, Indianola, Miss.

B.S. '78, Mississippi State University. Degree: Master of Science, March '94. Major: Horticulture. Minor: Related Fields. Major Adviser: C. Gustav Hard

Ting Sun, Beijing, China

B.E. '89, Tsinghua University. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering. Minor: Mechanical Engineering. Thesis: Measurement and Interpretation of Dental Occlusal Stress in the Intercuspal Position. Major Adviser: James E. Holte

Tetsuji Takeuchi

B.Eng. '88, Musashi Institute of Technology. Degree: Master of Science, October '93. Major: Agricultural and Applied Economics. Minor: Related Fields. Major Adviser: Glenn D. Pederson

Hui-Chao Tang, Taipei, Taiwan

B.S. '90, Chung-Yuan Christian University. Degree: Master of Science in Industrial Engineering, January '94. Major: Industrial Engineering. Minor: Related Fields. Major Adviser: Kevin J. Dooley

Jun Tang

B.S. '87, Nanjing University; M.S. '91, Texas A&M University. Degree: Master of Science in Electrical Engineering, October '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Larry L. Kinney

Penny Marie Teder, Rochester

B.S.N. cum laude '87, St. Olaf College. Degree: Master of Science, January '94. Major: Nursing. Minor: Related Fields. Thesis: Definitions, Expectations, and Sources of Information Regarding the Toilet Training Process as Described by Caucasian and African-American Caregivers Using an Inner-City Pediatric Clinic. Major Adviser: Barbara J. Leonard

Beatriz E. Terry, Miami, Fla.

D.D.S. '91, Marquette University. Degree: Master of Science, March '94. Major: Dentistry. Minor: Related Fields. Thesis: Association between Cigarette Smoking and Peripheral T Cell Proliferation in Subjects with Periodontal Disease. Major Adviser: James E. Hinrichs

Eric John Thompson, Owatonna

B.C.E. '91, University of Minnesota. Degree: Master of Science, November '93. Major: Civil Engineering. Minor: Related Fields. Thesis: Oxygen Transfer Similitude for a Vented Hydroturbine. Major Adviser: John S. Gulliver

Gene Allyn Thompson, Lewiston

B.M.E. '85, University of Minnesota. Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Industrial Engineering. Major Adviser: Max Donath

Paul Mikael Torniaainen, St. Paul

B.S. '91, Clarkson University. Degree: Master of Science in Chemical Engineering, March '94. Major: Chemical Engineering. Minor: Related Fields. Thesis: Partial Oxidation of Methane Over Noble Metal Catalysts. Major Adviser: Lanny D. Schmidt

John Stephen Tracy, South Haven

B.S. '83, University of Minnesota. Degree: Master of Science, November '93. Major: Environmental Health. Minor: Related Fields. Major Advisers: Rexford D. Singer and Fay M. Thompson

Ronald James Tuch, Plymouth

B.S.Ch.E. with high distinction '87, University of Nebraska. Degree: Master of Science, January '94. Major: Biomedical Engineering. Minor: Related Fields. Major Adviser: Perry L. Blackshear

Anita Marie Burns Twaroski, St. Paul

B.S. '81, University of Minnesota. Degree: Master of Science, March '94. Major: Forestry. Minor: Statistics. Major Adviser: Alan R. Ek

Jane A. Ullmann, Luxemburg, Wis.

B.S. magna cum laude '80, Edgewood College. Degree: Master of Science, February '94. Major: Clinical Laboratory Science. Minor: Related Fields. Thesis: Evaluation of Erythrocyte Removal Techniques of Umbilical Cord Blood for Stem Cell Transplantation. Major Adviser: J. Jeffrey McCullough

Kevin L. Van Dee, North English, Iowa

B.S. with distinction '90, Iowa State University of Science and Technology. Degree: Master of Science, February '94. Major: Agronomy. Minor: Related Fields. Thesis: RFLP Mapping of AccI in Zea mays L. Major Adviser: Donald L. Wyse

Jo Ann Voss, Zimmerman

B.S. summa cum laude '80, Winona State University. Degree: Master of Science, October '93. Major: Nursing. Minor: Educational Psychology. Major Adviser: Ruth D. Lindquist

Kathy A. Wagle

B.S. summa cum laude '87, Augsburg College. Degree: Master of Science, December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Verona C. Gordon

Mary Louise Wagner, Santa Ana, Calif.

Pharm.D. '86, University of California. Degree: Master of Science, November '93. Major: Hospital Pharmacy. Minor: Related Fields. Thesis: The Effect of Felbamate on Valproic Acid Disposition. Major Adviser: Nina M. Graves

Mark Richard Walmsley

B.E.E. '86, University of Minnesota. Degree: Master of Science in Electrical Engineering, December '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Larry L. Kinney

Haiyun Wang, Xian, Shannxi, China

B.Eng. '85, Huazhong University of Science and Technology; M.S. '88, Northwest University. Degree: Master of Science in Electrical Engineering, March '94. Major: Electrical Engineering. Minor: Related Fields. Thesis: Noise Characteristics of Interactive Transitions in Oriented Longitudinal Thin Film Recording Media. Major Adviser: Jian-Gang Zhu

Donald Edward Wehling, Eagan

B.S. '79, University of Wisconsin. Degree: Master of Science, December '93. Major: Soil Science. Minor: Plant Biological Sciences. Thesis: Parameterization of the Time Scale of Unsteady Diffusion Above a Soil Surface. Major Adviser: John M. Baker

James R. Welch, St. Cloud

B.E.E. '84, University of Minnesota. Degree: Master of Science in Electrical Engineering, January '94. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Gerald E. Sobelman

Ronald Dean Wiese, Paynesville

B.E.E. '90, University of Minnesota. Degree: Master of Science in Electrical Engineering, February '94. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Kevin M. Buckley

Jeffrey Paul Uschold Winker, St. Paul

B.Phys. with distinction '79, University of Minnesota. Degree: Master of Science in Mechanical Engineering, December '93. Major: Mechanical Engineering. Minor: Related Fields. Major Adviser: Donald R. Riley

Andrew Mahlon Wissink, Rochester

B.A.E.M. summa cum laude '91, University of Minnesota. Degree: Master of Science in Aerospace Engineering, December '93. Major: Aerospace Engineering. Minor: Scientific Computation. Thesis: Efficient Iterative Methods Applied to the Solution of Transonic Flows. Major Advisers: Anastasios S. Lyrintzis and Anthony T. Chronopoulos

Dale R. Wytttenbach, New Brighton

B.Comp.Sc. with distinction '91, University of Minnesota. Degree: Master of Science, December '93. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Phillip J. Barry

Weiwen Xie, Shayuan, Guangzhou, China

B.S. '89, Zhongshan University. Degree: Master of Science, February '94. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Wei-Tek Tsai

Jianqing Xu, Shanghai, China

Degree: Master of Science in Mechanical Engineering, November '93. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Numerical Studies of Ventilation in Rooms with Ceiling Air Supply and Return. Major Adviser: Thomas H. Kuehn

Lingou Yang, Shangrao, Jiangxi, China

B.S. '85, M.S. '88, Beijing Normal University. Degree: Master of Science in Mechanical Engineering, October '93. Major: Mechanical Engineering. Minor: Related Fields. Thesis: Thermal Plasma Synthesis of Ultrafine Particles. Major Adviser: Steven L. Girshick

Yongyi Yu, Wuzhou, Guang Xi, China

B.Eng. '88, Beijing University of Aeronautics and Astronautics. Degree: Master of Science in Aerospace Engineering, October '93. Major: Aerospace Engineering. Minor: Related Fields. Major Adviser: Theodore A. Wilson

Mu Yuan, Hangzhou, China

B.S. '90, Zhejiang University. Degree: Master of Science, October '93. Major: Mathematics. Minor: Statistics. Major Adviser: Stephen B. Agard

Judy Ann Zamzow, Mankato

B.S. magna cum laude '90. Mankato State University. Degree: Master of Science. December '93. Major: Nursing. Minor: Related Fields. Major Adviser: Kathleen Sodergren

Sijian Zhang, Shanghai, China

B.S. '89. Shanghai Jiao Tong University. Degree: Master of Science. March '94. Major: Biomedical Engineering. Minor: Electrical Engineering. Major Adviser: Robert P. Patterson

Xiali Zheng, China

B.S. '87. M.Eng. '90. Tongji University. Degree: Master of Science. January '94. Major: Computer and Information Sciences. Minor: Related Fields. Major Adviser: Zhiyuan Li

Yuming Zhou, Shanghai, China

B.S. '82. Fudan University; M.S. '89. University of Nebraska. Degree: Master of Science in Electrical Engineering. January '94. Major: Electrical Engineering. Minor: Computer and Information Sciences. Major Adviser: Ned Mohan

Yvonne Y. Zhou, Shanghai, China

B.A. '91. Macalester College. Degree: Master of Science. December '93. Major: Computer and Information Sciences. Minor: Related Fields. Thesis: Using Disk Allocation Methods for Parallelizing Grid Files. Major Adviser: Shashi Shekhar

Bin Zhu

B.S. '81. University of Science and Technology of China. Degree: Master of Science in Electrical Engineering. November '93. Major: Electrical Engineering. Minor: Related Fields. Major Adviser: Ahmed H. Tewfik

Catherine D. Zimmer-Lokken

B.S. with distinction '81. University of Minnesota. Degree: Master of Science. November '93. Major: Environmental Health. Minor: Related Fields. Major Adviser: Donald Vesley

Shayne Matthew Zurn, Blaine

B.E.E. '83. M.S.E.E. '90. Ph.D. '93. University of Minnesota. Degree: Master of Science. January '94. Major: Physics. Minor: Related Fields. Major Adviser: William Zimmermann, Jr.

*Master of Science***University of Minnesota, Duluth****Henry Joseph Henk, Hayward, Wis.**

B.S. '91. University of Wisconsin. Degree: Master of Science. October '93. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Richard F. Green

Sangho Jie, Korea

B.Econ. '91. Korea University. Degree: Master of Science. October '93. Major: Applied and Computational Mathematics. Minor: Related Fields. Major Adviser: Barry R. James

Joane Marie Lineburg

B.S. '89. North Dakota State University. Degree: Master of Science. November '93. Major: Geology. Minor: Related Fields. Thesis: Sedimentology and Stratigraphy of Pre-Wisconsin Drifts Coteau des Prairies, Eastern South Dakota. Major Adviser: Charles L. Matsch

Eric Andrew Nielsen, Virginia

B.S. cum laude '92. University of Minnesota. Degree: Master of Science. December '93. Major: Applied and Computational Mathematics. Minor: Related Fields. Thesis: Stability Regions for Multi-Parameter Delay Differential Equations. Major Advisers: Harlan W. Stech and Bruce B. Peckham

Ann Elaine Sigford

B.S. with high distinction '73. B.S. '81. University of Minnesota. Degree: Master of Science. November '93. Major: Biology. Minor: Education. Major Adviser: Melbourne C. Whiteside

Jamieson Scott Walker, Sudbury, Ontario, Canada

B.S. '85. Lake Superior State College. Degree: Master of Science. November '93. Major: Geology. Minor: Related Fields. Thesis: Physical Volcanology and Hydrothermal Alteration of the Footwall Rocks to the Archean Mattabi Massive Sulfide Deposit, Northwestern Ontario. Major Adviser: Ronald L. Morton

Daniel Todd Weaver, Duluth

B.S. '90. University of Minnesota. Degree: Master of Science. February '94. Major: Biology. Minor: Geology. Thesis: Degradation of Organic Matter by Lake Superior Microbial Assemblages. Major Adviser: Randall E. Hicks

Xiaoqin Zhou, Suizhou City, China

B.S. '89. Wuhan University. Degree: Master of Science. February '94. Major: Chemistry. Minor: Related Fields. Thesis: Shark Liver Mitochondrial NADP-Dependent Malic Enzyme and Properties. Major Adviser: Paul M. Anderson

Craig Andrew Zwicky

B.S. '87. Northern Illinois University. Degree: Master of Science. February '94. Major: Computer Science. Minor: Art. Major Adviser: Mark A. Luker

Master of Arts

David L. Agesen

Degree: Master of Arts, December '93. Major: Geography. Minor: Related Fields. Thesis: The Natural and Social Geography of Araucaria Araucana. Major Adviser: Connie H. Weil

Sara Katherine Adams

B.A. cum laude '85, Augsburg College. Degree: Master of Arts, November '93. Major: Hispanic Literature. Minor: Related Fields. Thesis: Color, Gender, and National Identity: The Body as Metaphor in Nicolas Guillen. Major Adviser: Joanna O'Connell

Theresa Mary Ahles

B.S. '78, College of St. Benedict. Degree: Master of Arts, January '94. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Edgar A. Persons

Martha Mary Anderson

B.S. '84, University of Utah. Degree: Master of Arts, December '93. Major: Educational Administration. Minor: Feminist Studies. Major Adviser: R. Michael Paige

Julie Ann Arnott, St. Louis Park

B.S. '67, University of Minnesota. Degree: Master of Arts, March '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Cheri L. Ostroff

Jack D. Avery, Minneapolis

B.A. '85, University of Minnesota. Degree: Master of Arts, October '93. Major: Communication Disorders. Minor: Related Fields. Thesis: A Perceptual and Acoustic Analysis of Less-Masculine-Sounding Male Speech. Major Adviser: Julie M. Liss

Barbara Ann Babbitt, Minneapolis

B.S.N. '80, University of Minnesota. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Bioethics. Major Adviser: James G. Scoville

Heather Leigh Bailey, Minneapolis

A.B. with distinction '90, University of Illinois. Degree: Master of Arts, December '93. Major: History. Minor: Related Fields. Major Adviser: Theofanis G. Stavrou

William Bernard Baldus

B.A. '87, St. John's University. Degree: Master of Arts, February '94. Major: Geography. Minor: Related Fields. Major Adviser: Connie H. Weil

Cheryl Kay Baldwin

B.S. '85, University of Wisconsin. Degree: Master of Arts, January '94. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Leo H. McAvoy, Jr.

Karyn Marie Ball, Los Angeles, Calif.

B.A. '87, Pomona College; M.A. '90, Syracuse University. Degree: Master of Arts, November '93. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: W. John Archer

Kevin Lewis Batchelder, Fort Collins, Colo.

B.A. with highest distinction '85, Colorado State University. Degree: Master of Arts, December '93. Major: Public Affairs. Major Adviser: Richard S. Bolan

Karin Baumgartner, Egnach, Switzerland

B.A. '91, University of Minnesota. Degree: Master of Arts, October '93. Major: German. Minor: English. Thesis: Ausgewählte Texte von Federica de Cesco im Spannungsfeld der Sozialisation von Deutschschweizer Mädchen zwischen Konvention und Emanzipation. Major Adviser: Ruth-Ellen B. Joeres

Carolyn Ann Bordeaux

B.S. '87, University of Minnesota. Degree: Master of Arts, January '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Patricia R.M. Veach

Charles Veltin Boudreaux, Minneapolis

B.A. with high honors '86, University of Notre Dame. Degree: Master of Arts, March '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Patricia R.M. Veach

Alexander Talbot Boyer

B.A. magna cum laude '89, Carleton College. Degree: Master of Arts, December '93. Major: Educational Psychology. Minor: Related Fields. Thesis: The Influence of Object Size on Non-Identify Matching-to-Sample Transfer. Major Advisers: Susan C. Hupp and Mary A. McEvoy

Steven M. Bradley

B.S. '91, University of Iowa. Degree: Master of Arts, February '94. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Mary Jo Kane

Dennis Vincent Brinkman

B.S. '68, Mankato State College. Degree: Master of Arts, December '93. Major: Education. Minor: Related Fields. Major Adviser: Gregory C. Sales

Ann Frances Brooke, Seattle, Wash.

B.A. magna cum laude '85, Macalester College. Degree: Master of Arts, December '93. Major: Art History. Minor: Related Fields. Major Adviser: Michael W. Stoughton

Catherine Marie Bryan, St. Paul

B.A. '83, Hamline University. Degree: Master of Arts, October '93. Major: Hispanic Literature. Minor: Related Fields. Thesis: Sor Juana Ines de la Cruz or The Construction of a Space for Women's Intellectual Freedom. Major Adviser: Anthony N. Zahareas

Amanda Carol Bryant, Shreveport, La.

B.A. summa cum laude '89, Dillard University. Degree: Master of Arts, November '93. Major: Public Affairs. Major Adviser: James E. Jernberg

Jeffrey M. Brzozowski, Littleton, Colo.

B.A. '91, St. John's University. Degree: Master of Arts, December '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Raymond A. Noe

Thomas William Burstein, Golden Valley

B.A. summa cum laude '91, University of Minnesota. Degree: Master of Arts, January '94. Major: Art History. Minor: Museum Studies. Major Adviser: Norman W. Canedy

Peter Keough Butler

B.A. cum laude '90, Carleton College. Degree: Master of Arts. December '93. Major: Public Affairs. Major Adviser: John E. Brandl

Anne L. Byer, Minneapolis

A.B. with honors '90, University of Missouri. Degree: Master of Arts. December '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Patricia R.M. Veach

Charles L. Campbell, Northfield

Degree: Master of Arts. December '93. Major: Theatre Arts. Minor: Related Fields. Major Adviser: M. Kent Neely

Julie Jo Campbell, Miller, S.D.

B.S. magna cum laude '91, University of South Dakota. Degree: Master of Arts. October '93. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Robert S. Schlauch

Catherine Ann Carter, St. Paul

B.S. '87, University of Minnesota. Degree: Master of Arts. November '93. Major: Educational Administration. Minor: Related Fields. Major Adviser: William M. Ammentorp

Mary Katherine Cassell, Minneapolis

B.S. '71, St. Cloud State College. Degree: Master of Arts. November '93. Major: Mass Communication. Minor: Related Fields. Major Adviser: Daniel B. Wackman

Patrick Yenwei Chen, Madison, Wis.

B.A. '91, St. Olaf College. Degree: Master of Arts. October '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Deborah Jo Churchill, Glenwood

B.A. magna cum laude '83, University of Minnesota. Degree: Master of Arts. January '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Marie Knowlton

Lori D. Coble, Rapid City, S.D.

B.S.Ed. summa cum laude '80, Dakota State College. Degree: Master of Arts. November '93. Major: Kinesiology. Minor: Related Fields. Major Adviser: March L. Krotee

Caroline Carter Cochran, Edina

B.A. '88, Northwestern University. Degree: Master of Arts. December '93. Major: Psychology. Minor: Related Fields. Thesis: Procedural and Distributive Justice and Perceptions of Instructor Performance: Students' Reactions to Injustice in the Classroom. Major Adviser: Ruth Kanfer

John M. Collins, Minneapolis

B.A. '90, Wesleyan University. Degree: Master of Arts. January '94. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: Bruce K. Lincoln

Tamilyn A. Colombo, Bruce, Wis.

B.S. magna cum laude '90, B.S. '90, Northwestern College. Degree: Master of Arts. February '94. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Clark D. Starr

Andrea Ronneal Coons, Indianapolis, Ind.

B.A. cum laude '89, DePauw University. Degree: Master of Arts. January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Yijiang Wang

Edward Octave Corazalla

Degree: Master of Arts. December '93. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Leo H. McAvoy, Jr.

Cynthia L. Cramsie, Pierre, S.D.

B.A. '87, Macalester College. Degree: Master of Arts. December '93. Major: Chinese. Minor: Related Fields. Major Adviser: Stephen S. Wang

Kris Ann Cropsey

B.A. '80, Gustavus Adolphus College. Degree: Master of Arts. February '94. Major: Hispanic Linguistics. Minor: Related Fields. Major Adviser: Carol A. Klee

Maria del Carmen Cuba

Bachiller '86, University Nacional Mayor de San Marcos. Degree: Master of Arts. January '94. Major: Hispanic Linguistics. Minor: Related Fields. Major Adviser: Carol A. Klee

Beth R. Damgaard-Frankenstein

B.A. summa cum laude '91, Augustana College. Degree: Master of Arts. December '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra L. Christenson

Peter Herman Danford, St. Paul

B.A. '85, Macalester College. Degree: Master of Arts. October '93. Major: East Asian Studies. Minor: Related Fields. Major Adviser: Edward L. Farmer

Judith McIntyre Daniel

B.A. '85, University of Minnesota. Degree: Master of Arts. December '93. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

Gail Rosenblum Davis

B.A. '80, University of New Mexico. Degree: Master of Arts. November '93. Major: Mass Communication. Minor: Related Fields. Thesis: When Breast was Best and When It Wasn't: A Study of the Agenda-Setting Role of Six Women's Magazines in the Promotion of Infant-Feeding Practices among American Women over Two Comparative Decades. Major Adviser: Jean W. Ward

Jaclyn D. Davis, Spring Valley

B.A. cum laude '91, Hamline University. Degree: Master of Arts. March '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Michael P. Keane

Valerie Johnson Dean

A.B. '90, Washington University. Degree: Master of Arts. November '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Thomas M. Skovholt

Thomas Joseph Delaney III, St. Paul

B.A. '90, Macalester College. Degree: Master of Arts. February '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: James E. Ysseldyke

Nora C. Erickson Derefi, Minneapolis

B.A. '69, B.S. '80, University of Minnesota. Degree: Master of Arts, December '93. Major: English as a Second Language. Major Adviser: Elaine E. Tarone

Stephen L. DesJardins, Marquette, Mich.

B.S. '83, Northern Michigan University. Degree: Master of Arts, January '94. Major: Public Affairs. Major Adviser: Stephen A. Hoenack

Patricia Louis Dooley

B.A. '75, University of Minnesota. Degree: Master of Arts, December '93. Major: Mass Communication. Minor: Related Fields. Thesis: Minnesota Journalists as Elected Officials, 1923-1938: An Historical Study of an Ethical/Conflict of Interest Question. Major Adviser: Hazel Dicken-Garcia

John Anthony Dorff, Minneapolis

B.A. cum laude '82, Hamline University. Degree: Master of Arts, October '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

Thomas Allen Duenow, San Luis Obispo, Calif.

B.A. '88, St. John's University. Degree: Master of Arts, February '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mario F. Bognanno

Julie Ann Edwards

B.A. '80, Arizona State University. Degree: Master of Arts, December '93. Major: Education. Minor: Related Fields. Major Adviser: Barbara M. Taylor

William Everett Egginton, Arlington, Va.

A.B. summa cum laude '91, Dartmouth College. Degree: Master of Arts, December '93. Major: Hispanic Literature. Minor: Related Fields. Thesis: Doctor Francia's Monster: Revealing the Real in a Political Discourse. Major Adviser: Rene Jara

Kenneth Kurt Faffler, Roseville

B.S. '84, Northwestern College. Degree: Master of Arts, March '94. Major: Education. Minor: Related Fields. Major Adviser: Caroline Turner

Jeffrey Bjorn Falla, St. Paul

B.A. summa cum laude '89, M.A. '92, University of North Dakota. Degree: Master of Arts, January '94. Major: Comparative Literature. Minor: Related Fields. Major Adviser: Jochen Schulte-Sasse

Brian Robert Felland, Colfax, Wis.

B.A. '84, University of Minnesota. Degree: Master of Arts, January '94. Major: English. Minor: Related Fields. Major Adviser: Michael D. Browne

Trudy Louise Fischer

B.A. cum laude '90, Concordia College. Degree: Master of Arts, October '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Dennis A. Ahlburg

Edmond Y. Fong

B.A. '88, B.B.A. '88, University of Texas. Degree: Master of Arts, October '93. Major: Mass Communication. Minor: Related Fields. Thesis: Mother of the Avant-Garde? Maya Deren and the Alternative Film Practice. Major Adviser: Michael S. Griffin

Kendra Lee Gale

B.A. cum laude '81, St. Olaf College. Degree: Master of Arts, March '94. Major: Mass Communication. Minor: Related Fields. Thesis: Soap Talk: Soap Operas and Sorority Socialization. Major Adviser: Dona B. Schwartz

Johannes H. Gerz

B.A. '89, University of Miami. Degree: Master of Arts, December '93. Major: East Asian Studies. Minor: Related Fields. Major Adviser: Edward L. Farmer

David Vincent Greeman, St. Paul

B.S. '90, University of Minnesota. Degree: Master of Arts, March '94. Major: Public Affairs. Major Adviser: Morris M. Kleiner

Amanda Suzanne Green, Yorktown, Va.

A.B. cum laude '89, Mount Holyoke College. Degree: Master of Arts, February '94. Major: Ancient Studies. Minor: Museum Studies. Thesis: Seventeenth Century Perceptions of Italian Antiquity as Shown in the Journals of William Bromley, an English Grand Tourist. Major Adviser: Peter S. Wells

Richard Philip Guillery, Minneapolis

B.S. '85, University of Wisconsin; M.S. '92, University of Minnesota. Degree: Master of Arts, October '93. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Edgar A. Persons

Christine Farley Gustafson

B.A. '84, Hamline University. Degree: Master of Arts, December '93. Major: Music Education. Minor: Related Fields. Major Adviser: Stephen Schultz

Annelies K. Hagemeister, St. Paul

B.A. magna cum laude '87, Macalester College. Degree: Master of Arts, February '94. Major: Family Social Science. Minor: Related Fields. Thesis: Gender in Hmong Families: Voices from Two Generations. Major Adviser: Paul C. Rosenblatt

Margaret Ann Hamilton, Jefferson, Iowa

A.B. '81, Grinnell College. Degree: Master of Arts, March '94. Major: Public Affairs. Major Adviser: Barbara J. Nelson

Heather Mary Hanger, Anchorage, Alaska

B.A. '88, Santa Clara University. Degree: Master of Arts, December '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Robert D. Tennyson

Jill Carrie Hanson, Brainerd

B.A. with high distinction '91, University of Minnesota. Degree: Master of Arts, November '93. Major: French. Minor: Related Fields. Major Adviser: Judith E. Preckshot

Marian Elizabeth Hartman, St. Croix Falls, Wis.

B.A. '72, University of Minnesota. Degree: Master of Arts. January '94. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Elaine E. Tarone

Karen Ann Hartung, Atwater

B.A. magna cum laude '83, College of St. Benedict. Degree: Master of Arts, December '93. Major: Music Education. Minor: Related Fields. Major Adviser: Charles E. Furman

Brent A. Hartzell, Sioux Falls, S.D.

B.A. '89, Gustavus Adolphus College. Degree: Master of Arts, January '94. Major: Public Affairs. Major Adviser: Robert T. Kudrle

Thomas L. Hawkins, Northfield

B.A. '86, College of St. Thomas. Degree: Master of Arts, December '93. Major: Educational Administration. Minor: Related Fields. Major Adviser: Tim L. Mazzoni

Aida June Hayes, Crystal

B.A. '89, University of Minnesota. Degree: Master of Arts, December '93. Major: French. Minor: Linguistics. Major Adviser: Judith E. Preckshot

David Mark Hayes, Farmington

B.A. cum laude '89, Northland College. Degree: Master of Arts, November '93. Major: Ancient Studies. Thesis: Mallard, Minnesota, 1902-1915: A Boom/Ghost Town Revisited. Major Adviser: Guy E. Gibbon

Diane René Hoff

B.S. with high distinction '76, University of Minnesota. Degree: Master of Arts, March '94. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Charles E. Speaks

Debra Marie Hole, St. Louis Park

B.A. '83, St. Olaf College. Degree: Master of Arts, November '93. Major: Educational Psychology. Minor: Public Affairs. Major Advisers: Wayne W. Welch and Paul C. Light

Joyce Kay Holoubek, St. Paul

B.A. '71, University of Iowa. Degree: Master of Arts, March '94. Major: Kinesiology. Minor: Related Fields. Major Adviser: Allen W. Burton

Denise Ranee Homme, Minneapolis

B.A. '71, North Dakota State University. Degree: Master of Arts, November '93. Major: Design, Housing, and Apparel. Minor: Related Fields. Thesis: Symbolic Patterns: An Analysis of Maya Domestic Space to Determine Evidence of Territorial Behavior. Major Adviser: Ann M. Erickson

Stanley Paul Hustad, Minneapolis

B.A. '66, Bethel College. Degree: Master of Arts, October '93. Major: Speech-Communication. Minor: Related Fields. Major Adviser: George L. Shapiro

Asmah Ismail, Penang, Malaysia

B.A. '91, University of Minnesota. Degree: Master of Arts, December '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: John L. Romano

Kanti Ann Jocelyn, Tatura, Victoria, Australia

B.E.S. '73, University of Minnesota. Degree: Master of Arts, May '91. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Eugene D. Larkin

Edgar James Johnson

B.S. '90, Le Moyne College. Degree: Master of Arts, November '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Katherine M. Johnson, Lincoln, Neb.

B.A. '89, Evergreen State College. Degree: Master of Arts, October '93. Major: Speech-Communication. Minor: Related Fields. Thesis: All the World as It's Fit to Think: An Ideological Analysis of the Contextualization of CNN's "World Report." Major Adviser: Donald R. Browne

Sarah McGrath Johnson

B.A. with honors '83, University of Notre Dame. Degree: Master of Arts, December '93. Major: Public Affairs. Major Adviser: Donald P. Geesaman

Thomas Lee Johnson, Edina

B.S.B. '84, University of Minnesota. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Dennis Jon

B.S. '78, B.S. '84, University of Wisconsin. Degree: Master of Arts, November '93. Major: Museology. Minor: Related Fields. Major Adviser: Charles M. Haxthausen

Carol Lindell Jones, Minneapolis

B.S. '84, University of Minnesota. Degree: Master of Arts, February '94. Major: Design, Housing, and Apparel. Minor: Related Fields. Major Adviser: Marilyn R. DeLong

Barbara Jean Kappler, Ameni, Wis.

B.A. summa cum laude '87, College of St. Thomas. Degree: Master of Arts, December '93. Major: Speech-Communication. Minor: Related Fields. Thesis: Developing Cognitive Complexity and Person-Centered Communication Through an Intercultural Simulation. Major Adviser: Dean E. Hewes

Cindy Jo Karp

B.A. '75, San Francisco State University. Degree: Master of Arts, November '93. Major: Mass Communication. Minor: Related Fields. Major Adviser: James I. Brown

Anna Maria Siti Kawuryan, Jakarta, Indonesia

Degree: Master of Arts, January '94. Major: Economics. Minor: Related Fields. Major Adviser: Vernon W. Ruttan

Karen Rae Ketcham, St. Louis Park

B.A. '91, College of St. Benedict. Degree: Master of Arts, March '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Paul R. Sackett

Deborah Mieko King, St. Paul

B.A. cum laude '91, Carleton College. Degree: Master of Arts, March '94. Major: History. Minor: Related Fields. Major Adviser: Sara M. Evans

David Jacob Klessens

B.S. '90, California Polytechnic State University. Degree: Master of Arts, October '93. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Edgar A. Persons

Michelle Marie Koker, Libertyville, Ill.

B.A. magna cum laude '90, Carleton College. Degree: Master of Arts, February '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Thomas J. Hummel

Nancy Lynn Krawetz

B.A. '84, University of Minnesota. Degree: Master of Arts, November '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Frank Henderson Wood

Richard Raymond Kreyer, St. Paul

B.A. '86, University of Minnesota. Degree: Master of Arts, March '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: James G. Scoville

Jennifer Lynn Kujala, Mountain Iron

B.S. '91, University of Minnesota. Degree: Master of Arts, December '93. Major: Communication Disorders. Minor: Related Fields. Thesis: Intensity Discrimination in Electrical Hearing. Major Adviser: David A. Nelson

Patricia Mary S. Kunkel, Oak Grove

B.A. '66, St. Cloud State College. Degree: Master of Arts, February '94. Major: Business Education. Minor: Related Fields. Major Adviser: Judith J. Lambrecht

Elizabeth L. Lee, Roanoke, Va.

B.A. cum laude '90, Wake Forest University. Degree: Master of Arts, December '93. Major: Art History. Minor: Related Fields. Major Adviser: Charles M. Haxthausen

Laura Catherine Lehnen, Indianapolis

B.A. '90, Indiana University. Degree: Master of Arts, March '94. Major: Art History. Minor: Related Fields. Major Adviser: Robert B. Silberman

Scott David Leitz, St. Paul

B.S. magna cum laude '88, University of Wisconsin. Degree: Master of Arts, February '94. Major: Public Affairs. Major Adviser: Morris M. Kleiner

John Lloyd LeMoine, Minneapolis

B.A. '79, University of Minnesota. Degree: Master of Arts, November '93. Major: History. Minor: Related Fields. Major Adviser: Carla R. Phillips

Sonja Louise Lengnick, Adrian, Mich.

B.A. '88, Williams College. Degree: Master of Arts, February '94. Major: Psychology. Minor: Related Fields. Major Adviser: Eugene Borgida

Ellen Roberta Leventhal, St. Louis, Mo.

B.A. '88, Lawrence University. Degree: Master of Arts, December '93. Major: Public Affairs. Major Adviser: Sandra O. Archibald

Ann M. Lewandowski, Beaver, Wis.

B.S. with distinction '89, University of Wisconsin. Degree: Master of Arts, January '94. Major: Geography. Minor: Related Fields. Thesis: Disasters in Context: Relationships Between Disaster Responses and Social Processes of Change in Low-Income Countries. Major Adviser: Connie H. Weil

Shu-Fen Ling, Malaysia

B.S. '89, National Taiwan University. Degree: Master of Arts, January '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Kay A. Thomas

Karen E. Lybeck, Minneapolis

B.A. '80, Concordia College. Degree: Master of Arts, November '93. Major: Scandinavian Studies. Minor: Related Fields. Major Adviser: William E. Mishler

Stephen Harold Macek

B.A. with distinction '87, University of Wisconsin. Degree: Master of Arts, December '93. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: Roger P. Miller

Marguerite E. Madden

B.S. '91, University of Illinois. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

Kimberly Ann Makey, Minneapolis

B.A. summa cum laude '82, University of Wisconsin. Degree: Master of Arts, November '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Mahmood A. Zaidi

Martina Mala

B.A. '91, University of California. Degree: Master of Arts, October '93. Major: German. Minor: Related Fields. Major Advisers: James A. Parente, Jr. and Gerhard H. Weiss

Linette Marie Manier

B.S. with highest honors '79, University of Wisconsin. Degree: Master of Arts, October '93. Major: Educational Administration. Minor: Related Fields. Major Adviser: Van D. Mueller

Lauren Sue Marder, Minneapolis

B.S. with honors '85, University of Illinois. Degree: Master of Arts, December '93. Major: Education. Minor: Related Fields. Major Adviser: Gary N. McLean

Sister Dianne M. Mares, Crookston

B.S.Ed. cum laude '72, Viterbo College. Degree: Master of Arts, March '94. Major: Elementary Education. Minor: Related Fields. Major Adviser: John C. Manning

Thomas Patrick Martin, Westchester, N.Y.

B.A. '89, Purdue University. Degree: Master of Arts, October '93. Major: History. Minor: Related Fields. Major Adviser: Stanford E. Lehmborg

Michael Duran McCarthy, Minneapolis

B.A. '88, Pennsylvania State University. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Dennis A. Ahlburg

Daniel Mark Medenblik, Fulton, Ill.

B.A. '86, Calvin College. Degree: Master of Arts, March '94. Major: Public Affairs. Major Adviser: Sandra O. Archibald

David Lee Meissner, Rush City

B.M. '87, University of Minnesota. Degree: Master of Arts, November '93. Major: Music. Minor: Related Fields. Major Adviser: Alex J. Lubet

Ellen C. Meyer

B.A. magna cum laude '90, Carleton College. Degree: Master of Arts, October '93. Major: Public Affairs. Major Adviser: Ragui Assaad

Danny Toshio Molden, Minneapolis

B.S. '91, Kansas State University. Degree: Master of Arts, February '94. Major: Speech-Communication. Minor: Related Fields. Thesis: The Making of a Model: Epideictic Rhetoric and the Asian American Community. Major Adviser: Robert L. Scott

Miriam Arlyn Monasch

A.B. '74, Grinnel College. Degree: Master of Arts, October '93. Major: Theatre Arts. Minor: Related Fields. Major Adviser: Glen W. Gadberry

Melissa Pederson Mussell, Minneapolis

B.A. summa cum laude '85, University of Minnesota. Degree: Master of Arts, October '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: John L. Romano

Andrea Kay Nord, Goodhue

B.S. with distinction '85, University of Minnesota. Degree: Master of Arts, January '94. Major: Agricultural Education. Minor: Related Fields. Major Adviser: Roland L. Peterson

Margaret R. O'Connor

B.A. '87, Wesleyan University. Degree: Master of Arts, December '93. Major: Philosophy. Minor: Related Fields. Major Adviser: Michael D. Root

Ann Ellen Ollila, St. Paul

B.A. summa cum laude '91, University of Oregon. Degree: Master of Arts, March '94. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Jennifer A. Windsor

Joan Elizabeth Orr, Edina

B.A. '90, Marquette University. Degree: Master of Arts, March '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Ross E. Azevedo

Paula H. Phillippe, New Ulm

B.A. '86, University of Minnesota. Degree: Master of Arts, December '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: John A. Fossum

Kevin Scott Phillips, Bel Air, Md.

B.A. cum laude '89, University of Maryland. Degree: Master of Arts, March '94. Major: Classical Studies. Minor: Related Fields. Major Adviser: Jackson P. Hershbell

Paul Fernando Phumpiu, Lima, Peru

Bachiller '87, Pontificia Universidad Catolica del Peru. Degree: Master of Arts, November '93. Major: Economics. Minor: Related Fields. Major Adviser: Marcel K. Richter

Magenta Pierrot, San Francisco, Calif.

B.A. summa cum laude '91, University of Minnesota. Degree: Master of Arts, October '93. Major: Art History. Minor: Feminist Studies. Major Adviser: Michael W. Stoughton

Paula J. Prah

A.B. '84, Smith College. Degree: Master of Arts, December '93. Major: Public Affairs. Major Adviser: Paul C. Light

Helene Racine, Quebec, Canada

B.A.A. '83, L. Sc. Compt. '85, Universite Laval. Degree: Master of Arts, March '94. Major: Business Education. Minor: Related Fields. Major Adviser: Gary N. McLean

Robert P. Rebelein, New Brighton

B.A.E.M. '84, B.S. '89, University of Minnesota. Degree: Master of Arts, December '93. Major: Economics. Minor: Related Fields. Major Adviser: Neil Wallace

Theresa Maureen Reed, Missoula, Mont.

B.A. with distinction '91, University of Virginia. Degree: Master of Arts, July '93. Major: Child Psychology. Minor: Related Fields. Major Adviser: Byron Egeland

Patti Lou Regan, St. Paul

B.S. with distinction '79, University of Minnesota. Degree: Master of Arts, March '94. Major: Music Education. Minor: Related Fields. Major Adviser: Robert L. Borg

Susan Louise McAninch Reuter, Minneapolis

B.S. '69, University of Minnesota. Degree: Master of Arts, November '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Martin L. Snoke

Joseph Richardson, St. Paul

B.A. '73, B.S. '81, University of Minnesota. Degree: Master of Arts, November '93. Major: Elementary Education. Minor: Related Fields. Major Adviser: Harlan S. Hansen

Joseph Patrick Rogers, Minneapolis

B.A. magna cum laude '89, St. John's University. Degree: Master of Arts, December '93. Major: East Asian Studies. Minor: Related Fields. Major Adviser: Edward L. Farmer

Lenn S. Rosenberg

B.A. '90, University of California. Degree: Master of Arts, February '94. Major: Education. Minor: Related Fields. Major Advisers: Melissa S. Anderson and Karen S. Louis

Darren Lee Foslansky, Oshkosh, Wis.

B.A. '89, Hamline University. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Richard D. Arvey

Kristen Ann Rukavina, Duluth

B.A. '90, University of Minnesota. Degree: Master of Arts, February '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: James G. Scoville

Fernando Alfredo Sanchez-Schwartz

Degree: Master of Arts, February '94. Major: Hispanic Literature. Minor: Related Fields. Thesis: "La Guerra Silenciosa" de Manuel Scorza: de la Conciencia Mitica a la Conciencia Historica. Major Adviser: Hernan Vidal

Mika Sato, Fujisawa, Kanagawa, Japan

B.A. '89, Waseda University. Degree: Master of Arts, February '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Dennis A. Ahlburg

Yuji Sato, Chikushino City, Japan

B.A. '79, Sophia University; M.A. '89, Fukuoka University. Degree: Master of Arts, March '94. Major: Speech-Communication. Minor: Related Fields. Major Adviser: Josef A. Mestenhauser

Lawrence James Schaaf, Columbia Heights

B.A.S. '80, University of Minnesota. Degree: Master of Arts, January '94. Major: Marketing Education. Minor: Related Fields. Major Adviser: James R. Stone III

Lori Rose Schack, Los Angeles, Calif.

B.A. '87, Brown University. Degree: Master of Arts, March '94. Major: Public Affairs. Major Adviser: Barbara J. Nelson

Laura E. Schere, White Plains, N.Y.

B.A. magna cum laude '89, Georgetown University. Degree: Master of Arts, January '94. Major: Comparative Studies in Discourse and Society. Minor: Related Fields. Major Adviser: Paula Rabinowitz

Rebecca Jayne Schmidt, Burnsville

B.S. '90, University of Minnesota. Degree: Master of Arts, March '94. Major: Communication Disorders. Minor: Related Fields. Thesis: Effects of Sampling Techniques on Quantitative Language Measures. Major Adviser: Jennifer A. Windsor

Peter George Schmiel, Edina

B.S.B. '82, University of Minnesota. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Raymond A. Noe

Michael Scotto, Englishtown, N.J.

B.S. '90, Tulane University. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Yijiang Wang

Linda K. Sherman, Minneapolis

B.A. cum laude '75, University of North Dakota. Degree: Master of Arts, December '93. Major: Education. Minor: Related Fields. Major Adviser: Gregory C. Sales

Weinon Shu

B.B. '84, M.A. '89, Chinese Culture University; M.B.A. '91, University of Dallas. Degree: Master of Arts, October '93. Major: Business Education. Minor: Related Fields. Major Adviser: Charles R. Hopkins

Scott David Slipy

B.A. magna cum laude '90, University of Minnesota. Degree: Master of Arts, October '93. Major: Education. Minor: Related Fields. Major Adviser: David J. Pucel

Mark Allan Sloniker, Medford, Wis.

B.M.E. '84, University of Wisconsin. Degree: Master of Arts, December '93. Major: Music Education. Minor: Related Fields. Major Adviser: Stephen Schultz

Eurydice Sabrina Stephens, Paso Robles, Calif.

B.S. cum laude '91, Florida A&M University. Degree: Master of Arts, January '94. Major: Industrial Relations. Minor: Speech-Communication. Major Adviser: John A. Fossum

Kenneth Andrew Steuer, Laconia, N.H.

B.A. magna cum laude '78, University of New Hampshire; M.S. '82, Georgetown University. Degree: Master of Arts, October '93. Major: Political Science. Minor: Related Fields. Major Adviser: Martin W. Sampson III

Becky Anne Streeter, Hopkins

B.A. '86, University of Minnesota. Degree: Master of Arts, December '93. Major: Communication Disorders. Minor: Related Fields. Major Adviser: Patricia A. Broen

Barbara Sumberg

Degree: Master of Arts, October '93. Major: Design, Housing, and Apparel. Minor: Anthropology. Thesis: Dress and Ethnic Differentiation in the Niger Delta. Major Adviser: Joanne B. Eicher

David Paul Swenson, New Hope

B.A. '90, Boston College. Degree: Master of Arts, October '93. Major: Public Affairs. Major Adviser: Dean E. Abrahamson

Jill K. Swenson, Edina

B.A. '89, St. Olaf College. Degree: Master of Arts, November '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Ross E. Azevedo

MaryAnn Taylor, Chicago, Ill.

B.A. cum laude '89, Blackburn College. Degree: Master of Arts, October '93. Major: Public Affairs. Major Adviser: Barbara L. Lukermann

Steven Jeffrey Taylor, Buffalo, N.Y.

B.S. '78, State University of New York. Degree: Master of Arts, December '93. Major: Political Science. Minor: Related Fields. Major Adviser: Virginia Gray

Martha Eileen Teefy, Minneapolis

B.A. magna cum laude '90, University of Minnesota. Degree: Master of Arts, March '94. Major: Chinese. Minor: Related Fields. Major Adviser: Chun-Jo Liu

Juanita Marie Tenorio, Barrigada Heights, Guam

B.A. cum laude '86, Marquette University. Degree: Master of Arts, November '93. Major: English. Minor: Related Fields. Major Adviser: Kent R. Bales

Susan Renee Thomas, St. Paul

B.A. cum laude '82, St. Olaf College. Degree: Master of Arts, February '94. Major: Education. Minor: Related Fields. Major Adviser: Simon R. Hooper

Dana Marie Thompson

B.A. '91, University of Minnesota. Degree: Master of Arts, February '94. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Paul R. Sackett

Yoko Umeda, Japan

B.A. '80, Kwansai Gakuin University. Degree: Master of Arts, December '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Avner Ben-Ner

Deborah Joanne Unruh, Grand Forks, N.D.

B.S. '91, North Dakota State University. Degree: Master of Arts, December '93. Major: Industrial Relations. Minor: Related Fields. Major Adviser: Morris M. Kleiner

Margaret Joan Urban

A.B. '80, Princeton University; M.A. '86, Northwestern University. Degree: Master of Arts, October '93. Major: Child Psychology. Minor: Psychology. Major Advisers: L. Alan Sroufe and Byron Egeland

James Edwin Urie, St. Paul

B.A. '89, St. Olaf College. Degree: Master of Arts, December '93. Major: Art History. Minor: Related Fields. Major Adviser: Marion John Nelson

Sheryl Rae Urie, St. Paul

B.A. cum laude '89, St. Olaf College. Degree: Master of Arts, February '94. Major: Public Affairs. Major Adviser: John E. Brandl

Nancy Jane Van Maren, Casper, Wyo.

B.A. with honor '87, University of Wyoming. Degree: Master of Arts, November '93. Major: Public Affairs. Major Adviser: Nancy N. Eustis

Douglas Donald Wahlstrom, Minneapolis

B.S. cum laude '83, University of Minnesota. Degree: Master of Arts, January '94. Major: Recreation, Park, and Leisure Studies. Minor: Related Fields. Major Adviser: Leo H. McAvoy, Jr.

Timothy Daniel Walker, Madison, Wis.

B.A. cum laude '82, Carleton College. Degree: Master of Arts, February '94. Major: Mass Communication. Minor: Related Fields. Major Adviser: Phillip J. Tichenor

Toru Watanabe, Japan

B.A. '88, Keio University. Degree: Master of Arts, December '93. Major: Public Affairs. Major Adviser: Robert T. Kudrle

Holly Jo Welch, Burnsville

B.A. cum laude '91, St. Olaf College. Degree: Master of Arts, December '93. Major: Mass Communication. Minor: Related Fields. Major Adviser: Nancy L. Roberts

Christina Elizabeth Whitfield, Crestwood, Ky.

B.A. with high distinction '91, University of Kentucky. Degree: Master of Arts, February '94. Major: History. Minor: Related Fields. Major Adviser: Sara M. Evans

Anne Regis Winkler-Morey, Minneapolis

B.A. '88, University of Minnesota. Degree: Master of Arts, February '94. Major: History. Minor: Related Fields. Thesis: The Anti-Imperialist Impulse: Public Opposition to U.S. Policy Toward Mexico and Nicaragua (Winter of 1926-27). Major Adviser: Dennis N. Valdes

Dina Rae Wolkoff

B.A. '89, Middlebury College. Degree: Master of Arts, February '94. Major: Chinese. Minor: Related Fields. Thesis: Who is Jia Baoyu? Identity Search in Honglou Meng. Major Adviser: Chun-Jo Liu

Huei-Ching Wu, Taiwan

B.S. '89, National Taiwan University. Degree: Master of Arts, November '93. Major: Kinesiology. Minor: Related Fields. Major Adviser: Arthur S. Leon

Junghye Yang, Korea

B.A. '85, Ewha Woman's University. Degree: Master of Arts, October '93. Major: Mass Communication. Minor: Related Fields. Thesis: News and National Interest: A Comparative Study of the Associated Press and Kyodo Wire Service Coverage on the Tiananmen Square Movement. Major Adviser: Chin-Chuan Lee

Mingsun Yu, Taiwan

B.A. '89, National Taiwan Normal University. Degree: Master of Arts, February '94. Major: English as a Second Language. Minor: Related Fields. Major Adviser: Nancy J. Stenson

*Master of Arts***University of Minnesota, Duluth****Gina E. Dixon**

B.S. summa cum laude '89, University of Wisconsin. Degree: Master of Arts, October '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

Dwayne Eugene Green, Duluth

B.A. '91, University of Minnesota. Degree: Master of Arts, October '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Randall A. Gordon

Gretchen Lynn Hammond, Lakeville

B.S. '87, North Dakota State University. Degree: Master of Arts, February '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

William John Harry, Superior, Wis.

B.A. '81, University of Minnesota. Degree: Master of Arts, March '94. Major: English. Minor: Related Fields. Major Adviser: Stephen J. Adams

Cory Grant Hrushka, Edmonton, Alberta, Canada

B.A. '90, University of Alberta. Degree: Master of Arts, October '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Jane C. Hovland

David Anderson Knox, Rochester

B.A. cum laude '89, St. Olaf College. Degree: Master of Arts, March '94. Major: English. Minor: Related Fields. Major Adviser: Stephen J. Adams

Timothy John McDonald, Grand Rapids

B.S. '78, Michigan State University. Degree: Master of Arts, December '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Moy F. Gum

Kevin Lee Nelson, Hermantown

B.A. '89, University of Minnesota. Degree: Master of Arts, October '93. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Sandra J. Woolum

Paula Jean Sweeney, Apple Valley

B.A.S. '91, University of Minnesota. Degree: Master of Arts, March '94. Major: Educational Psychology. Minor: Related Fields. Major Adviser: Mark W. Olson

Gordon Arthur Westendorf, Jr., Duluth

B.M. magna cum laude '86, University of Wisconsin. Degree: Master of Arts, January '94. Major: Education-Music. Minor: Related Fields. Major Adviser: Judith A. Kritzmire

Carolyn N. Zanko, Duluth

B.A. '70, University of Northern Iowa. Degree: Master of Arts, October '93. Major: Education. Minor: Related Fields. Major Adviser: William C. Gemeinhardt

*Specialist Certificate in Education***Lana Jeanne Bixby**

B.A. summa cum laude '88, Creighton University. Degree: Certificate of Specialist in Education, October '93. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Scott R. McConnell

Laura Webster Bolstad

B.A. magna cum laude '74, Macalester College. Degree: Certificate of Specialist in Education, March '94. Major: Educational Administration. Field: Special Education Administration. Major Adviser: Van D. Mueller

Beth R. Damgaard-Frankenstein

B.A. summa cum laude '91, Augustana College. Degree: Certificate of Specialist in Education, December '93. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

Elizabeth A. Heffernan, St. Paul

B.A. '75, University of Texas. Degree: Certificate of Specialist in Education, November '93. Major: Educational Administration. Field: Elementary School Administration. Major Adviser: Neal C. Nickerson

Lois Elizabeth Langholz

B.A. '69, Wisconsin State College. Degree: Certificate of Specialist in Education, December '93. Major: Education. Field: General Curriculum Supervision. Major Adviser: Richard D. Kimpston

Dorothy Judith Levin, Edina

B.A. '62, Roosevelt University; M.A. '92, University of Minnesota. Degree: Certificate of Specialist in Education, March '94. Major: Educational Administration. Field: Elementary School Administration. Major Adviser: Neal C. Nickerson

Rene Elizabeth Roloff, Green Bay, Wis.

B.S. '90, University of Wisconsin. Degree: Certificate of Specialist in Education, October '93. Major: Educational Psychology. Field: School Psychological Services. Major Adviser: Sandra L. Christenson

Barbara Jo Stahl, Minneapolis

B.S. '72, M.S. '76, St. Cloud State College. Degree: Certificate of Specialist in Education, October '93. Major: Educational Administration. Field: General Educational Administration. Major Adviser: William M. Ammentorp

Doctor of Education

Thomas H. Fiedler, Eau Claire, Wis.

B.S. '73, M.S.E. '77, University of Wisconsin; Spec.Ed. '84, University of Minnesota. Degree: Doctor of Education, February '94. Major: Educational Administration. Minor: Supporting Program. Project: Impact of School Board Member Involvement in Contract Negotiations with the Teachers' Unions in Wisconsin Public Schools. Major Adviser: Neal C. Nickerson

Ellen Galvin Murphy, Tacoma, Wash.

B.A. '69, University of Puget Sound; M.A. '75, Washington State University. Degree: Doctor of Education, November '93. Major: Vocational Education. Minor: Supporting Program. Project: Beyond Conceptualization: Youth/Organization Partnerships. Major Advisers: Mary A. Smith and George H. Copa

David Arthur Ramse, McIntosh

B.S. '68, M.S. '72, North Dakota State University; M.Ed. '77, University of Minnesota. Degree: Doctor of Education, October '93. Major: Vocational Education. Minor: Supporting Program. Project: A Follow-Up Evaluation Model for Technical Education in Nepal. Major Adviser: Gary W. Leske

Thomas Joel Tapper, Hutchinson

B.S. '71, Mankato State College; M.A. '74, University of Minnesota. Degree: Doctor of Education, March '94. Major: Educational Administration. Minor: Supporting Program. Project: The Application of the Disciplines of Strategic Planning and Total Quality Management to the Organization and Delivery of School Activity Programs. Major Adviser: Neal C. Nickerson

Doctor of Musical Arts

Shih-Yu Chuang, Taiwan

B.A. '84, Tunghai University; M.M. '91, University of Minnesota. Degree: Doctor of Musical Arts, December '93. Major: Music. Minor: Supporting Program. Major Adviser: Lydia Artymiw

Dan Fredrick Dressen, Pipestone

B.S. '74, Bemidji State College; M.F.A. '82, University of Minnesota. Degree: Doctor of Musical Arts, December '93. Major: Music. Minor: Supporting Program. Major Adviser: D. Clifton Ware, Jr.

Alison Jean Feldt

B.A. '81, Luther College; M.A. '83, University of Iowa. Degree: Doctor of Musical Arts, December '93. Major: Music. Minor: Supporting Program. Major Adviser: Glenda Maurice

Doctor of Philosophy

Abdelkarim Mohd Asad Abulaban, Irbid, Jordan

B.E. '84, M.C.E. '87, Yarmouk University. Degree: Doctor of Philosophy, January '94. Major: Civil Engineering. Minor: Supporting Program. Thesis: Modeling the Transport of Sorbing Solutes in Heterogeneous Porous Media. Major Adviser: John L. Nieber

V S Achutharaman, Madras, India

B.Tech. '88, Indian Institute of Technology. Degree: Doctor of Philosophy, December '93. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Growth and Structure of High Temperature Superconducting Thin Films. Major Adviser: Allen M. Goldman

Hossein Agahi, Bakhtaran, Iran

B.S. '76, Hamadan Agricultural University; M.S. '78, North Carolina A & T State University. Degree: Doctor of Philosophy, December '93. Major: Education. Minor: Supporting Program. Thesis: Farmer Assessment of the Dairy Initiative Demonstration Farm Program in Minnesota. Major Adviser: Edgar A. Persons

Sanghyun Ahn, Seoul, Korea

B.Sc.Eng. '86, M.Sc.Eng. '88, Seoul National University. Degree: Doctor of Philosophy, December '93. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Multicast Tree Approaches for Group-based Multimedia Applications Over ATM Networks. Major Adviser: David H. Du

Seokmin Ahn, Seoul, Korea

B.E. '79, Hanyang University; M.S.M.E. '86, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Optimization Enhanced Synthesis of Planar Four-bar Motion Generator Linkages. Major Adviser: Donald R. Riley

Muhammad Ramzan Akhtar, Kamalia, Punjab, Pakistan

B.Sc. '77, M.Sc. '82, University of Agriculture Faisalabad. Degree: Doctor of Philosophy, November '93. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: An Economic Analysis of the U.S. Retail Fertilizer Industry: Impacts and Policy Implications at the Regional Level. Major Adviser: Dale C. Dahl

Sami Salah Ali, Cairo, Egypt

B.A. '68, Cairo University; B.A. '76, Theatrical Arts Higher Institute. Degree: Doctor of Philosophy, March '94. Major: Theatre Arts. Minor: Supporting Program. Thesis: The Use of Islamic Heritage in Modern Egyptian Drama; with Emphasis on the Plays by Tawfiq al-Hakim. Major Advisers: Charles M. Nolte and Edward B. Savage

Saad Amrani, Rabat, Morocco

License '79, Universite Mohammed V; D.E.A. '80, Doctor of 3rd Cycle '83, Universite de Paris XI. Degree: Doctor of Philosophy, January '94. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Tractor Operator Information System. Major Adviser: Jonathan Chaplin

Martha Carol Anderson, Falcon Heights

B.A. '87, Carleton College. Degree: Doctor of Philosophy, October '93. Major: Astrophysics. Minor: Supporting Program. Thesis: The Evolution of Relativistic Electron Populations in Shell Supernova Remnants. Major Adviser: Lawrence Rudnick

Philip John Anderson, Arden Hills

B.A. '61, Bethel College; M.S.W. '69, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: Case-Mix Technology as an Aid in Educational Program Design and Management. Major Adviser: William M. Ammentorp

Mark Lewis Arneson, Minneapolis

B.A. '83, St. Olaf College. Degree: Doctor of Philosophy, December '93. Major: Biochemistry. Minor: Supporting Program. Thesis: The Organization of Mammalian Lens Fiber Cell Membrane Proteins. Major Adviser: Charles F. Louis

Melissa Dodds Avery, Minneapolis

B.S. '76, Northern Illinois University; M.S.N. '81, University of Kentucky. Degree: Doctor of Philosophy, December '93. Major: Nursing. Minor: Physiology. Thesis: Exercise as a Therapeutic Intervention in Gestational Diabetes. Major Advisers: Sue K. Donaldson and Ruth D. Lindquist

Gil Soo Bae, Korea

B.B.A. '82, Korea University; M.A.S. '85, University of Illinois. Degree: Doctor of Philosophy, January '94. Major: Business Administration. Minor: Supporting Program. Thesis: Further Investigation of Postannouncement Drifts Associated with Earnings, Cash Flows, and Accrual Adjustments. Major Adviser: John S. Hughes

Marilyn Margaret Baeker, Roseville

B.A. '72, M.S.W. '77, University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: An Examination of the Relationship Between Adding a Consistent Medication Regimen or Early Intervention and School Success for Children with Attention Deficit Hyperactivity Disorder (ADHD). Major Adviser: Van D. Mueller

Walter Alvin Barker

B.S. '80, M.S. '82, Tuskegee Institute; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Education. Minor: Supporting Program. Thesis: The Identification of Organization Values in the Minnesota Extension Service. Major Adviser: Gary W. Leske

Mary Leone Barnett, Woodbury

B.S. magna cum laude '77, Mankato State University; M.S. '85, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Extending Database Management Systems to Support Semantic Information in Geographic Information Systems. Major Adviser: John V. Carlis

Joseph William Bartges, Charleston, W.Va.

B.S. '83, Marshall University; D.V.M. '87, University of Georgia. Degree: Doctor of Philosophy, October '93. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Effects of Modified Diets and Allopurinol on Plasma and Urine Concentrations of Uric Acid and Xanthine in Healthy Dogs. Major Advisers: Carl A. Osborne and Lawrence J. Felice

Sanjeev Baskiyar, India

B.E. '84, Indian Institute of Science, Bangalore; M.S.E.E. '88, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Architectural and Scheduler Support for Object-Oriented Programs. Major Adviser: Richard Y. Kain

Bruce David Baum, Stamford, Conn.

B.A. '82, Vanderbilt University. Degree: Doctor of Philosophy, November '93. Major: Political Science. Minor: Supporting Program. Thesis: The Power of Freedom: John Stuart Mill and the Politics of Social Theory. Major Adviser: James Farr

Katherine Marie Beauchamp, Champaign, Ill.

B.A. magna cum laude '87, Carleton College. Degree: Doctor of Philosophy, January '94. Major: Physics. Minor: Supporting Program. Thesis: Magnetic Interactions and the Superconductor-Insulator Transition in Ultrathin DyBa₂Cu₃O_{7-x} Films. Major Adviser: Allen M. Goldman

Richard Martin Behmlander, Bay City, Mich.

B.S. '86, Central Michigan University; M.S. '88, Purdue University. Degree: Doctor of Philosophy, March '94. Major: Microbiology. Minor: Supporting Program. Thesis: The Extracellular Matrix Fibrils of Myxococcus Xanthus. Major Adviser: Martin Dworkin

Todd David Benson, St. Paul

B.S. '83, Rutgers University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Geography. Minor: Supporting Program. Thesis: Market Access and Household Livelihood Strategies in Central Chad. Major Adviser: Philip W. Porter

Sandra Jean Berkowitz, Chicago, Ill.

B.S. '82, Northwestern University; M.A. '89, Wake Forest University. Degree: Doctor of Philosophy, March '94. Major: Speech-Communication. Minor: Supporting Program. Thesis: Challenging Holocaust Ideology: "Jewish Women Call for Peace." Major Adviser: Karlyn K. Campbell

Charlene Ann Berquist, Springfield, Mo.

B.A. '77, Western Washington State College; M.A. '80, University of Montana. Degree: Doctor of Philosophy, October '93. Major: Speech-Communication. Minor: Supporting Program. Thesis: Family Orientations to Crisis: A Description and Analysis of Family Patterns During Farm Loss. Major Adviser: Ernest G. Bormann

Susan Lorraine Bickford, St. Paul

B.A. cum laude '85, Bryn Mawr College. Degree: Doctor of Philosophy, December '93. Major: Political Science. Minor: Supporting Program. Thesis: Listening, Conflict, and Citizenship. Major Adviser: Mary G. Dietz

Ayse Humeyra Bilge, Turkey

B.Sc. '78, M.Sc. '80, Ph.D. '85, Middle East Technical University; M.A. '86, State University of New York. Degree: Doctor of Philosophy, December '93. Major: Mathematics. Minor: Supporting Program. Thesis: Construction of Recursion Operators for Scalar Evolution Equations. Major Adviser: Peter J. Olver

John Philip Billig, Minneapolis

B.A. '88, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Psychology. Minor: Supporting Program. Thesis: Life Events, Personality, and Psychopathology in Late Adolescence: Genetic and Environmental Factors. Major Advisers: Auke Tellegen and Matthew K. McGue

Angela Katherine Birnbaum, Woodsfield, Ohio

B.S. Med. Tech. '85, B.S. with distinction '86, Ohio Northern University. Degree: Doctor of Philosophy, December '93. Major: Pharmacology. Minor: Neuroscience. Thesis: The *Xenopus Laevis* Oocyte as a Functional Expression System for Receptors Coupled to the CAMP Second Messenger System through G Proteins. Major Adviser: George L. Wilcox

Frank A. Blocki

B.A. cum laude '76, Carleton College. Degree: Doctor of Philosophy, December '93. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Supporting Program. Thesis: Enzymatic Glutathione Dependent Dehalogenation of Dichloromethane and Structural Modeling of a Glutathione S-Transferase Homolog, TRANSMIF. Major Adviser: Lawrence P. Wackett

Jane Emily Bloomquist, Minneapolis

B.A. '72, University of Minnesota; B.S. '79, M.S. '87, St. Cloud State University. Degree: Doctor of Philosophy, January '94. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Use of Mnemonics to Teach a Self-management Strategy to Emotional-behavioral Disordered Students. Major Adviser: Frank Henderson Wood

Stephen Edward Braun, Bloomington

B.S. magna cum laude '87, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Genetics. Minor: Supporting Program. Thesis: Retroviral-mediated Gene Transfer and Expression of Iduronate-2-Sulfatase in Human Lymphoid Cells from Patients with Hunter Syndrome (Mucopolysaccharidosis Type II): Analysis of Metabolic Correction and Metabolic Cross-correction. Major Advisers: Perry B. Hackett and Chester B. Whitley

Todd Clark Brelje, South St. Paul

B.Chem. '85, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Anatomy. Minor: Supporting Program. Thesis: Effect of Mammosomatotropic Hormones on Pancreatic Islets of Langerhans and the Development of a Multi-color Laser Scanning Confocal Microscope. Major Adviser: Robert L. Sorenson

Eric L. Brulotta, Montreal, Quebec, Canada

Degree: Doctor of Philosophy, March '94. Major: Ancient & Medieval Art and Archaeology. Minor: Supporting Program. Thesis: The Placement of Votive Offerings and Dedications in the Peloponnesian Sanctuaries of Artemis. Major Adviser: Frederick A. Cooper

Shelley Brown Brundage, Rice

B.S. Ed. with distinction '84, University of Wisconsin; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Communication Disorders. Minor: Gerontology. Thesis: Comparison of Proverb Interpretations Provided by Non-brain-damaged Adults, Aphasic Adults, Right-hemisphere-damaged Adults, and Adults with Probable Dementia. Major Adviser: Robert H. Brookshire

Steinar Bryn, Lillehammer, Norway

B.A. cum laude '76, M.A. '80, University of Wisconsin. Degree: Doctor of Philosophy, January '94. Major: American Studies. Thesis: The Americanization of Norwegian Culture. Major Adviser: David W. Noble

Douglas Jon Buege, Mountain, Wis.

B.S. with honors '88, University of Wisconsin; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Philosophy. Minor: Supporting Program. Thesis: Intrinsic Value, Organic Unity and Environmental Philosophy: Grounding our Values. Major Adviser: Arthur L. Caplan

Sally Ann Bushhouse, Roseville

B.S. '77, Calvin College; B.S. with high honors '79, D.V.M. '81, University of Illinois; M.P.H. '87, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Epidemiology. Minor: Supporting Program. Thesis: A Population-based Study of Insulin Reserve and Type II (Non-insulin-dependent) Diabetes Mellitus: The Wadena City Health Study. Major Advisers: Alan P. Bender and David R. Jacobs, Jr.

Brett Hayden Bussler, West Chicago, Ill.

B.S. with honors '80. Southern Illinois University; M.S. '82, Purdue University. Degree: Doctor of Philosophy, October '93. Major: Agronomy. Minor: Supporting Program. Thesis: Corn Interactions with Common Cocklebur and Velvetleaf. Major Adviser: Donald L. Wyse

Terri Larson Butler, Minneapolis

B.S. '80, Stanford University; B.S.Ch.E. with high distinction '88, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Langmuir-Blodgett Films of Polymers and Mixtures and Imaging Ellipsometry of Langmuir-Blodgett Dip Coating. Major Advisers: H. Ted Davis and L. E. Scriven

Eric Alan Butz, Minneapolis

B.A. '83, Carleton College. Degree: Doctor of Philosophy, January '94. Major: Microbiology. Minor: Supporting Program. Thesis: Cellular and Molecular Aspects of the Immunosuppression Induced by Acute Lymphocytic Choriomeningitis Virus Infection of Adult Mice. Major Adviser: Peter Southern

Paul Reid Cabe, Staunton, Va.

B.S. with highest honors '84, College of William and Mary. Degree: Doctor of Philosophy, March '94. Major: Ecology. Minor: Genetics. Thesis: The Population Genetics of Introduced Species: The European Starling (*Sturnus vulgaris*) in North America. Major Adviser: Kendall W. Corbin

David Hugo Camacho, Nogales, Sonora, Mexico

Degree: Doctor of Philosophy, November '93. Major: Civil Engineering. Minor: Supporting Program. Thesis: Trussed Frames. Major Adviser: Theodore V. Galambos

Debra Louise Carlson, Mendota Heights

B.A. summa cum laude '84, St. Olaf College. Degree: Doctor of Philosophy, October '93. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: The Lucke Renal Adenocarcinoma of *Rana pipiens*: Concerning Differentiation Competence and the Herpesvirus Etiological Agent. Major Adviser: Robert G. McKinnell

Sean Michael Casey, Succasunna, N.J.

B.S. '88, State University of New York. Degree: Doctor of Philosophy, December '93. Major: Chemistry. Minor: Supporting Program. Thesis: Laser Photoelectron Spectroscopy of Gas Phase Anions. Major Adviser: Doreen G. Leopold

Norberto Casillas, Guadalajara, Jalisco, Mexico

Ingeniero Quimico '87, Universidad de Guadalajara. Degree: Doctor of Philosophy, October '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Characterization of Precursor Sites for Pitting Corrosion on Titanium. Major Adviser: Henry S. White

Chin Chang, Changsha, China

B.S.Eng. '83, M.E. '86, Xi'An Jiaotong University. Degree: Doctor of Philosophy, December '93. Major: Control Science and Dynamical Systems. Minor: Supporting Program. Thesis: Spectral Factorization Using Interpolation Theory. Major Adviser: Tryphon T. Georgiou

Kuo-Chen Chang

B.S. '86, National Taiwan University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Geography. Minor: Supporting Program. Thesis: A Neural Network Approach to Geographical Analysis of Population Pattern Change. Major Adviser: Dwight A. Brown

Rongfeng Chang, Chaoyi, Taiwan

B.Sc. '78, National Taiwan Normal University; M.S. '82, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Mechanical Engineering. Minor: Physics. Thesis: Study of Erosion Rate, Erosion Products, and Arc Velocity Under Transverse Magnetic Field in Vacuum. Major Advisers: Joachim V. R. Heberlein and Richard J. Goldstein

Samuel Charles

B.V.Sc. '83, Tamil Nadu Agricultural University; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Prophylaxis and Control of Avian Salmonellosis. Major Adviser: Kakambi V. Nagaraja

Chunju Chen, Wuhan, China

B.A. '82, Wuhan Geological College; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Education. Minor: Supporting Program. Thesis: Minnesota Extension Service Employees' and Clientele's Perceptions and Expectations of Service Quality Measured by the SERVQUAL Assessment System. Major Adviser: Gary W. Leske

Zongyu Chen, Hangzhou, Zhejiang, China

M.B. '87, Shanghai Medical University. Degree: Doctor of Philosophy, November '93. Major: Microbiology. Minor: Supporting Program. Thesis: Genome Organization and Subgenomic mRNA Expression of Lactate Dehydrogenase-elevating Virus (LDV). Major Adviser: Peter G. W. Plagemann

Sudarat Chinsakchai

D.V.M. '83, Chulalongkorn University. Degree: Doctor of Philosophy, December '93. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Immunomodulation of Pseudorabies Virus. Major Adviser: Thomas W. Molitor

Mary Bynes Chorewycz, Eagan

B.A. '69, Macalester College; M.S.E. '74, Wisconsin State University. Degree: Doctor of Philosophy, February '94. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: A Study of Five School-based Management Projects Over a Four-year Period. Major Adviser: Neal C. Nickerson

Kim-Hung Chow, Shanghai, China

B.A. magna cum laude '87, Macalester College. Degree: Doctor of Philosophy, January '94. Major: Chemistry. Minor: Supporting Program. Thesis: (I) Interfacial Extraction of Fe(III) and Interfacial Degree of Ionization of Dialkylphosphate. (II) Effect of Counterion on Dynamics of Hydride Transfer in Solution Using Variational Transition State Theory. Major Adviser: Maurice M. Kreevoy

Christodoulos Christodoulou, Nicosia, Cyprus

B.S. with honor '85. M.S. '88. Michigan Technological University. Degree: Doctor of Philosophy, January '94. Major: Mechanics. Minor: Mathematics. Thesis: Studies in Drag Reduction. Major Adviser: Daniel D. Joseph

Xi Chu, Anhui, China

B.Sc. '83. University of Science and Technology of China; M.S.Ch.E. '93. University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Gasification and Deposition of Carbon on the Basal Plane of Graphite. Major Adviser: Lanny D. Schmidt

Ming-Yi Chung, Taipei, Taiwan

B.S. '87. National Taiwan University; M.S. '90. University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Pathobiology. Minor: Supporting Program. Thesis: Positional Cloning and Characterization of the Spinocerebellar Ataxia Type I Gene. Major Adviser: Harry T. Orr

Timothy Andrew Clark, Chico, Calif.

B.A. '84. California State University. Degree: Doctor of Philosophy, March '94. Major: Plant Pathology. Minor: Supporting Program. Thesis: Plant Response Gene Transcript Accumulation in Barley, *Hordeum vulgare*, Attacked by the Powdery Mildew Fungus, *Erysiphe graminis f.sp.hordei*. Major Adviser: Richard J. Zeyen

Eric Edward Cooper, Los Angeles, Calif.

B.S. with highest distinction '88. University of Kansas. Degree: Doctor of Philosophy, December '93. Major: Psychology. Minor: Supporting Program. Thesis: Evidence for the Use of Intermediate Components in Visual Object Recognition. Major Adviser: Irving Biederman

Thanis Damrongwatanapokin

D.V.M. '83. Chulalongkorn University; M.S.A. '85. Georgia College. Degree: Doctor of Philosophy, December '93. Major: Veterinary Medicine. Minor: Epidemiology. Thesis: Modeling the Spread of Infectious Agents Among and within Swine Herds: Minnesota Pseudorabies Epidemics. Major Advisers: Robert B. Morrison and William E. Marsh

John Brian Davenport, St. Paul

B.A. '73. Macalester; M.A. '74. University of Denver; M.A. '86. University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: History. Minor: Supporting Program. Thesis: "Yours Unfeignedly in the Lord:" The Theology of John Davenport (1597-1670), and its Context. Major Adviser: Stanford E. Lehmborg

Joseph Francis D'Costa, Bombay, Maharashtra, India

M.S. '89. North Carolina Agricultural & Technical State University. Degree: Doctor of Philosophy, March '94. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: A Mode Decomposition Based Finite Element Formulation for the Nonlinear Dynamics of Flexible Spatial Structures and Mechanisms. Major Advisers: Arthur G. Erdman and Henryk K. Stolarski

Sandeep Dhawan, New Delhi, India

Degree: Doctor of Philosophy, March '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Wettability Effects on Flow through Porous Media. Major Advisers: H. Ted Davis and L. E. Scriven

Richard John Dick, Stillwater

B.S. '71. M.S.E. '72. Wisconsin State University. Degree: Doctor of Philosophy, November '93. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: Relationships of Burnout Levels, Coping Preferences, and Selected Demographic Variables among Minnesota Elementary Principals. Major Adviser: Charles H. Sederberg

Michael David DuVall

B.S. '80. D.V.M. '88. Texas A & M University. Degree: Doctor of Philosophy, December '93. Major: Veterinary Biology. Minor: Supporting Program. Thesis: Regulation of Ion Transport Across the Porcine Gallbladder Epithelium. Major Advisers: David R. Brown and Scott M. O'Grady

Mary Beth Early, Santa Monica, Calif.

B.A. with high distinction '85. University of Nebraska. Degree: Doctor of Philosophy, October '93. Major: Psychology. Minor: Supporting Program. Thesis: Developmental and Gender Differences in the Relationships between Body Satisfaction, Self Esteem, and Depression: Implications for Eating Disorders. Major Adviser: Gloria R. Leon

Christine Elizabeth Eastman, Rochester

B.A. summa cum laude '86. Saint Mary's College; M.S. '90. University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Chemistry. Minor: Supporting Program. Thesis: Diffusion in Microstructured Block Copolymers. Major Adviser: Timothy P. Lodge

Rino Agung Effendi, Jakarta, Indonesia

Sarjana '86. University of Indonesia; M.A. '93. University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Economics. Minor: Supporting Program. Thesis: Uneven Economic Development in Indonesia: A Dynamic Endogenous Growth Model. Major Adviser: G. Edward Schuh

Marian Joan Ellison, Menomonie, Wis.

B.S. with highest honors '65. M.S.T. '80. University of Wisconsin. Degree: Doctor of Philosophy, November '93. Major: Education. Minor: Supporting Program. Thesis: The Effect of Computer and Calculator Graphics on Students' Ability to Mentally Construct Calculus Concepts. Major Adviser: James E. Stochl

Robert Lee Elmore, Edina

B.M. '77. Eastern Illinois University; M.S. '80. University of Illinois. Degree: Doctor of Philosophy, December '93. Major: Education. Minor: Supporting Program. Thesis: Effect of Content Organization and Problem-oriented Strategies in the Improvement of Cognitive Skills. Major Advisers: Robert D. Tennyson and S. Jay Samuels

Ronald Norman Erickson

B.A. '78, Gustavus Adolphus College; M.A. '84, University of South Florida. Degree: Doctor of Philosophy, December '93. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: Using Multiattribute Utility Analysis in an Evaluation of Secondary Educational Services for Students with Learning Disabilities. Major Advisers: Darrell R. Lewis and Richard F. Weatherman

Brian Paul Farm, White Bear Lake

B.Comp.Sc. with distinction '86, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Ecology. Minor: Supporting Program. Thesis: Territory Dynamics in the Bucktooth Parrotfish (*Sparisoma radians*). Major Adviser: Craig Packer

Eric S. Felth, Minneapolis

B.A. '87, Illinois State University. Degree: Doctor of Philosophy, January '94. Major: Philosophy. Minor: Supporting Program. Thesis: The Structure of Motivation: A Comparison of Frankfurt's and Reid's Conative Theories of Personhood. Major Adviser: Douglas E. Lewis

Rui Antonio Loja Fernandes, Coimbra, Portugal

Licenciado '88, Instituto Superior Tecnico de Lisbon. Degree: Doctor of Philosophy, January '94. Major: Mathematics. Minor: Supporting Program. Thesis: Completely Integrable Bi-Hamiltonian Systems. Major Adviser: Peter J. Olver

James Bennett Ferrari, Delmar, N.Y.

B.A. magna cum laude '86, Middlebury College. Degree: Doctor of Philosophy, November '93. Major: Ecology. Minor: Quaternary Paleocology. Thesis: Spatial Patterns of Litterfall, Nitrogen Cycling, and Understory Vegetation in a Hemlock-Hardwood Forest. Major Adviser: Margaret B. Davis

Paul Bernard Fischer

B.S.E. with high honors '89, Case Western Reserve University; M.S.E.E. '91, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Electrical Engineering. Minor: Physics. Thesis: Nanostructure Engineering Using Electron Beam Lithography. Major Adviser: Stephen Y. Chou

Peter John Franco, St. Paul

B.S. '86, St. John's University. Degree: Doctor of Philosophy, January '94. Major: Genetics. Minor: Supporting Program. Thesis: An Analysis of Sugar and Proton Transport in Mutants of the Lactose Permease of *Escherichia coli*. Major Adviser: Robert J. Brooker

Horatio Adesimi Freeman, Freetown, Sierra Leone

B.Sc. with honors '83, University of Sierra Leone; M.Sc. '88, University of East Anglia. Degree: Doctor of Philosophy, January '94. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: The Effects of Policies on the Environment: A Household Level Analysis in the West African Northern Guinea Savanna Zone. Major Adviser: Terry L. Roe

Katherine Louise French, Northborough, Md.

B.A. '84, Carleton College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: History. Minor: Supporting Program. Thesis: Local Identity and the Late Medieval Parish: The Communities of Bath and Wells. Major Adviser: Barbara A. Hanawalt

Elizabeth Mary Frenzel, New Brighton

B.S. '82, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: Lens Fiber Cell Gap Junctions: Formation Studies with Lentoids. Major Adviser: Ross G. Johnson

Alan Sandor Friedlob, Tucson, Ariz.

B.A. '71, University of Pennsylvania. Degree: Doctor of Philosophy, November '93. Major: Health Services Research, Policy, and Administration. Minor: Supporting Program. Thesis: The Use of Physical Restraints in Nursing Homes and the Allocation of Nursing Resources. Major Adviser: Rosalie A. Kane

Bin Fu, China

B.Eng. '83, Shanghai Marine Products College; M.Eng. '85, Tianji Light Industry College. Degree: Doctor of Philosophy, November '93. Major: Food Science. Minor: Supporting Program. Thesis: Modeling of Microbial Growth for Predicting Shelf Life of Foods with Time-temperature Integrators. Major Adviser: Theodore P. Labuza

Jennifer Ruth Galovich, St. Joseph

B.A. '69, Reed College; M.A. '72, Brown University. Degree: Doctor of Philosophy, November '93. Major: Mathematics. Minor: Supporting Program. Thesis: Generalizations of Denert's Statistic. Major Adviser: Dennis E. White

Mark David Gehlsen, Davenport, Iowa

B.S. with distinction '87, Iowa State University of Science and Technology. Degree: Doctor of Philosophy, December '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Catalytic Hydrogenation of Polymers: Synthesis and Characterization of Model Polyolefins. Major Adviser: Frank S. Bates

Jeffrey Morris Gillespie, Auburn, Ala.

B.S. '86, M.S. '88, Auburn University. Degree: Doctor of Philosophy, December '93. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: The Effect of Risk and Autonomy on Hog Farmers' Contracting Decisions. Major Adviser: Vernon R. Eidman

Keith Michael Glassford, Sterling Heights, Mich.

B.S. '87, M.S. '88, Michigan State University. Degree: Doctor of Philosophy, December '93. Major: Chemical Engineering. Minor: Physics. Thesis: Modeling the Electronic and Structural Properties of Transition-Metal Oxides. Major Adviser: James R. Chelikowsky

Jeffery Christopher Goelz, Milwaukee, Wis.

B.S. with distinction '82. University of Wisconsin; M.S. '84. Lakeland University. Degree: Doctor of Philosophy. December '93. Major: Forestry. Minor: Supporting Program. Thesis: Relationships Between Long-term Tree-growth Trends and Anthropogenic Factors. Major Adviser: Thomas E. Burk

James Itzhak Golden, Minneapolis

B.Stat. '86. University of Minnesota. Degree: Doctor of Philosophy. October '93. Major: Business Administration. Minor: Supporting Program. Thesis: Empirical Studies in the Application of Dempster-Shafer Belief Functions: An Alternative Calculus for Representing Degrees of Belief. Major Advisers: Shawn P. Curley and P. George Benson

Chris John Granias, Chicago, Ill.

B.Mus. '74. American Conservatory of Music; M.M. '76. Northwestern University; M.M. '82. Drake University. Degree: Doctor of Philosophy. November '93. Major: Music. Minor: Supporting Program. Thesis: The Divine Liturgy of Saint John Chrysostom. Major Adviser: Paul Fetler

April Wymbreth Gresham, Atlanta, Ga.

A.B. summa cum laude '85. University of Georgia. Degree: Doctor of Philosophy. February '94. Major: Psychology. Minor: Supporting Program. Thesis: Class Stereotyping and the Story Model: A Replication and Extension. Major Adviser: Eugene Borgida

John Clarence Grieger, Fort Wayne, Ind.

B.S. '80. Purdue University. Degree: Doctor of Philosophy. December '93. Major: Physics. Minor: Supporting Program. Thesis: Turbulent Coupling of the Magnetosphere-Ionosphere through Shear-mode Alfvén Waves. Major Adviser: Robert L. Lysak

Arnor Gudmundsson, Reykjavik, Iceland

B.A. '84. University of Iceland. Degree: Doctor of Philosophy. December '93. Major: Sociology. Minor: Supporting Program. Thesis: Unemployment in a Post-industrial Society: A Study of Select U.S. Metropolitan Areas, 1980-1990. Major Adviser: David Cooperman

Anshu Mali Gupta, Delhi, India

Degree: Doctor of Philosophy. December '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Selected Topics in Randomly Branched Polymers. Major Adviser: Christopher W. Macosko

Mark T. Gustafson, Minneapolis

B.A. magna cum laude '74. St. Olaf College; M.A. '87. University of Minnesota. Degree: Doctor of Philosophy. March '94. Major: Classics. Minor: Supporting Program. Thesis: Lucifer of Cagliari and Constantius II: A Study in Religious and Political Power in the Fourth Century. Major Advisers: Oliver P. Nicholson and Philip H. Sellew

Jan Joan Hacker, Essexville, Mich.

B.S. '81. M.S. '82. Michigan State University. Degree: Doctor of Philosophy. December '93. Major: Forestry. Minor: Supporting Program. Thesis: State Funding of Natural Resource Programs and Agencies: Evaluation of Fiscal Environments and Innovative Funding Responses. Major Adviser: Paul V. Ellefson

Ridha Hamza. Chihia, Sfax, Tunisia

B.E.E. with distinction '87. M.S.E.E. '89. University of Minnesota. Degree: Doctor of Philosophy. October '93. Major: Electrical Engineering. Minor: Supporting Program. Thesis: The Analysis and Enhancement of Finite Sampling and Sensitivity Performance of Methods of Direction Finding. Major Adviser: Kevin M. Buckley

John Wesley Hansen

B.A. magna cum laude '83. M.A. '84. California State University. Degree: Doctor of Philosophy. December '93. Major: Education. Minor: Supporting Program. Thesis: Differences in Student Cognitive Styles in Engineering, Industrial Technology, and Vocational Education. Major Adviser: David C. Bjorkquist

James Whitley Harris, Pacific Palisades, Calif.

B.A. '73. University of Oregon; M.A. '74. University of Chicago. Degree: Doctor of Philosophy. December '93. Major: Geography. Minor: Anthropology. Thesis: A Settlement Geography of the Anasazi. A.D. 1100 to 1300. Major Adviser: Fred E. Lukermann, Jr.

Susan Marie Harrison

B.S. '76. Taylor University; M.A.E. '78. Ball State University. Degree: Doctor of Philosophy. November '93. Major: Education. Minor: Supporting Program. Thesis: Still, Animated, or Nonillustrated On-line Help with Written or Spoken Instructions for Performance of Computer-based Procedures. Major Adviser: Gregory C. Sales

Robin Christine Hasslen, South Haven

A.B. '67. Wilson College; M.S. '87. St. Cloud State University. Degree: Doctor of Philosophy. December '93. Major: Education. Minor: Supporting Program. Thesis: The Effects of Teaching Strategies in Multicultural Education on Monocultural College Students' Perceptions. Major Adviser: Harlan S. Hansen

Dyan Lynn Haugen, Woodbury

B.S. magna cum laude '81. John Carroll University. Degree: Doctor of Philosophy. January '94. Major: Business Administration. Minor: Supporting Program. Thesis: A Study of Scheduling and Quality in Field Service Support Systems. Major Adviser: Arthur V. Hill

Sara E. Hayden, Minneapolis

B.A. with distinction '87. University of Wisconsin; M.A. '91. University of Minnesota. Degree: Doctor of Philosophy. January '94. Major: Speech-Communication. Minor: Supporting Program. Thesis: Twenty-three Years of Our Bodies. Ourselves: Individualism, Community and Social Change in the Work of the Boston Women's Health Book Collective. Major Adviser: Karlyn K. Campbell

Meng Tao He, Tianjin, China

B.S. '86. Peking University; M.S. '89. University of Minnesota. Degree: Doctor of Philosophy. October '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Organized Solutions of Siloxane Surfactants. Major Advisers: H. Ted Davis and L. E. Scriven

Brian Erik Henry, Wheaton, Ill.

B.S. magna cum laude '87, University of Illinois. Degree: Doctor of Philosophy, November '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Multiple Steady States and Rate Oscillations in Heterogeneous Catalysis: Bimolecular Reactions on Pt(100). Major Adviser: Lanny D. Schmidt

Sandra Jean Henry, Madison, Wis.

B.S. '88, University of Wisconsin. Degree: Doctor of Philosophy, November '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Kinetics of Monoclonal Antibody and Protein Accumulation in Mouse Hybridoma Cells: A Flow Cytometric Study. Major Adviser: Friedrich Srien

María Elena Hernandez-Hernandez, Guadalajara, Mexico

Ing. '87, Universidad de Guadalajara. Degree: Doctor of Philosophy, February '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Thermal Stability of Polyurethanes: Applications to Polymer Processing and Recycling. Major Adviser: Christopher W. Macosko

Laura Gardner Heyrman

B.A. '80, Oberlin College; M.A. '81, Johns Hopkins University. Degree: Doctor of Philosophy, March '94. Major: Art History. Minor: Supporting Program. Thesis: The Meeting of Vimalakirti and Manjusri: Chinese Innovation in Buddhist Iconography. Major Adviser: Robert J. Poor

Elizabeth Blanks Hindman, St. Paul

B.A. cum laude '84, St. Olaf College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Mass Communication. Minor: Supporting Program. Thesis: Supreme Court Conceptions of Press Responsibility, 1931-1991. Major Adviser: Hazel Dickon-Garcia

Kathryn A. Hochstetler, Goshen, Ind.

B.A. with honors '84, Earlham College. Degree: Doctor of Philosophy, January '94. Major: Political Science. Minor: Supporting Program. Thesis: Social Movements in Institutional Politics: Organizing about the Environment in Brazil and Venezuela. Major Advisers: Raymond D. Duvall and Kathryn A. Sikkink

John Raymond Hoffman, Long Lake

B.S. magna cum laude '87, Rose-Hulman Institute of Technology; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Mathematics. Minor: Supporting Program. Thesis: Invariance Principles, Return Times and Reconstruction Theorems for Random Walks in Random Environments. Major Adviser: Bert E. Fristedt

Christopher Edward Holm, Winchester, N.H.

B.S. cum laude '83, Fitchburg State College; M.S. '86, University of New Haven. Degree: Doctor of Philosophy, December '93. Major: Forestry. Minor: Supporting Program. Thesis: Evaluation of Fungal Survival and Organic Matter Degradation Abilities when Submersed in Northern Minnesota and Wisconsin Lake Basins. Major Adviser: James A. Perry

Claudia Agnes Honeywell

B.A. '86, University of Chicago; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Classics. Minor: Supporting Program. Thesis: Plutarch's Dialogues: An Analysis of Structure and Content. Major Adviser: Jackson P. Hershbell

Po-Chuan Huang, Feng-Yuan, Taiwan

B.S. '84, National Taiwan University; M.S.M.E. '89, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Mechanical Engineering. Minor: Aerospace Engineering. Thesis: A Turbulent Swirling Arc Model and a Two-fluid Turbulence Model for Thermal Plasma Sprays. Major Advisers: Emil Pfender and Joachim V. R. Heberlein

David Michael Hudson, Minneapolis

B.A. '79, M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: English. Minor: Supporting Program. Thesis: "Out of the Impact": Soldier Narrative and the Formation of the Great War Prose Canon. Major Adviser: Philip G. Furla

Brian Joseph Huffman, New Hampton, Iowa

B.S. '76, Iowa State University of Science & Technology; M.B.A. '85, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Business Administration. Minor: Supporting Program. Thesis: An Evaluation of Optimal and Heuristic Procedures for Finite Scheduling in Computer Integrated Manufacturing. Major Adviser: Thomas R. Hoffmann

Jennifer Jo Hugstad-Vaa, Apple Valley

B.A. '77, Gustavus Adolphus college; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Education. Minor: Supporting Program. Thesis: The Effect of Instruction about HIV in the Affective Domain on Knowledge, Anxiety towards Self-protecting Behavior and Anxiety towards Showing Compassion towards People with AIDS. Major Advisers: Fred N. Finley and Eugene D. Gennaro

Lisa Leigh Hunter, Minneapolis

B.A. with honors '83, University of Montana; M.A. '86, University of Cincinnati. Degree: Doctor of Philosophy, October '93. Major: Communication Disorders. Minor: Supporting Program. Thesis: Auditory Sequelae of Recurrent and Persistent Otitis Media with Effusion in Children. Major Adviser: Robert H. Margolis

Yoon-Mi Hur, Korea

B.A. '83, Pusan National University. Degree: Doctor of Philosophy, December '93. Major: Psychology. Minor: Supporting Program. Thesis: Personality Correlates of Mental Abilities: Roles for Genes and Environment. Major Adviser: Thomas J. Bouchard, Jr.

San-Yih Hwang, Taiwan

B.S. Eng. '84, M.S. Eng. '88, National Taiwan University. Degree: Doctor of Philosophy, March '94. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Transaction Management in Federated Database Systems. Major Adviser: Jaideep Srivastava

Kristin Kari Janke, Crystal Lake, Ill.

B.A. cum laude '90. St. Olaf College. Degree: Doctor of Philosophy, November '93. Major: Social and Administrative Pharmacy. Minor: Educational Psychology. Thesis: Contract Learning: An Instructional Method for Educational Care in a Pharmacy Communications Course. Major Adviser: Linda M. Strand

Rebecca Anne Johnson, Circle Pines

B.A. '85. M.P.H. '87. University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Epidemiology. Minor: Supporting Program. Thesis: The Reliability and Validity of Pesticide Use Data Obtained from Interviews. Major Advisers: Alan P. Bender and John D. Potter

Robin Kay Jurgens-Lutovsky, Hopkinton, Iowa

B.S. magna cum laude '88. Loras College. Degree: Doctor of Philosophy, November '93. Major: Chemical Physics. Thesis: Development and Applications of Direct Methods for Electron Correlation Calculations. Major Adviser: Jan Almlöf

Joanna Katsanis, Athens, Greece

B.A. '86. Carleton University. Degree: Doctor of Philosophy, November '93. Major: Psychology. Minor: Supporting Program. Thesis: Visual Evoked Potentials in First-episode Psychotic Patients and their Relatives. Major Adviser: William G. Iacono

James Thomas Katter, Minneapolis

B.A. cum laude '85. Williams College. Degree: Doctor of Philosophy, December '93. Major: Neuroscience. Minor: Supporting Program. Thesis: Anatomical and Electrophysiological Studies of Spinal Neurons that Project to the Diencephalon. Major Adviser: Glenn J. Giesler, Jr.

Frank Marion Kelso, LeSueur

B.M.E. '78. M.S.M.E. '87. University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: An Engineering Model for Knowledge-based Material Property Representation. Major Adviser: Donald R. Riley

Julie Ann Kenfield

B.A. with high honors '80. University of Montana; M.A. '83. College of St. Thomas. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: Clinical Supervision of Licensed Psychologists: Nature of and Satisfaction with the Supervisory Relationship. Major Adviser: Patricia R.M. Veach

Robert Harley Kennedy, Wheaton

B.A. cum laude '76. Macalester College; M.D. '82. Mayo Medical School; M.P.H. '83. University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Epidemiology. Minor: Supporting Program. Thesis: Influence of Topical Ocular Atropine on Long-term Progression of Myopia. Major Adviser: Russell V. Luepker

Rajendra Kashinath Khankari

B.Pharm. '83. University of Mysore; M.Pharm. '84. Mangalore University. Degree: Doctor of Philosophy, December '93. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Physicochemical Characterization and Thermodynamic Properties of Nedocromil Salt Hydrates. Major Adviser: David J. W. Grant

Byung Duck Kim, Seoul, Korea

B.A. with highest honors '84. University of Texas; M.A. '86. University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Economics. Minor: Supporting Program. Thesis: General Equilibrium Analysis of Social Security. Major Adviser: Timothy Kehoe

Jeongin Kim, Seoul, Korea

B.Econ. '85. Chung-Ang University; M.S. '86. University of Wisconsin. Degree: Doctor of Philosophy, December '93. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Environmental Accounting in a Social Accounting Matrix Framework: The Case of Mexico. Major Adviser: Terry L. Roe

Jin Choon Kim, Kangwon-do, Korea

B.S. '81. Hanyang University. Degree: Doctor of Philosophy, December '93. Major: Physics. Minor: Supporting Program. Thesis: Two-Photon Annihilation of Neutral Particles in the Standard and Supersymmetric Standard Models. Major Adviser: Serge Rudaz

Mark Stephen Kirschbaum, Eagan

B.A. summa cum laude '78. College of St. Thomas; M.S. '83. University of Illinois. Degree: Doctor of Philosophy, January '94. Major: Nursing. Minor: Family Social Science. Thesis: Deciding to Authorize, Forego, or Withdraw Life Support: The Meaning for Parents. Major Adviser: Patricia S. Tomlinson

Shanthamma Kodihalli, Chickballapur, India

B.V.Sc. '84. University of Agricultural Sciences, Bangalore. Degree: Doctor of Philosophy, October '93. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Diagnosis and Control of Avian Influenza Virus Infection in Turkeys. Major Adviser: Vaithianathan Sivanandan

Jerome Robert Kolbo, Kenmare, N.D.

B.A. '84. Mary College; M.S.W. '87. University of Denver. Degree: Doctor of Philosophy, December '93. Major: Social Work. Minor: Supporting Program. Thesis: Risk and Protective Factors among Children Exposed to Family Violence. Major Adviser: Irl E. Carter

Theano Terkanli Koop, Thessaloniki, Greece

B.S. '83. Aristotelian University. Degree: Doctor of Philosophy, November '93. Major: Geography. Minor: Supporting Program. Thesis: The Idea of Home: A Cross-cultural Comparison. Major Advisers: Fred E. Lukermann, Jr. and Eric S. Sheppard

Kurt Alexander Koppi

B.S. summa cum laude '88, University of Illinois. Degree: Doctor of Philosophy, November '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Shear Orientation of Diblock Copolymer Melts. Major Advisers: Matthew V. Tirrell and Frank S. Bates

Jon Erik Korfmacher, Redlands, Calif.

A.B. with distinction '88, Stanford University. Degree: Doctor of Philosophy, March '94. Major: Psychology. Minor: Supporting Program. Thesis: The Relationship Between Participant and Treatment Characteristics and Outcome in an Early Intervention Program. Major Advisers: Auke Tellegen and Byron Egeland

Yuli Kornblum

B.M.E. with distinction '78, M.S.M.E. '81, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Heat Transfer to a Single Jet and an Array of Jets Impinging on Semicircular Concave and Convex Surfaces. Major Adviser: Richard J. Goldstein

Catherine M. Kotz, Woodbury

B.S. '84, M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Nutrition. Minor: Supporting Program. Thesis: The Effect of Opioid Antagonists on NPY-induced Alterations in Energy Intake and Brown Fat Thermogenesis. Major Adviser: Allen S. Levine

Sandra Mae Kraskin, New York City, N.Y.

B.S. with high distinction '66, M.F.A. '69, M.A. '76, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Art History. Minor: Supporting Program. Thesis: Ilya Bolotowsky: A Study of his Painting and an Examination of his Relationship to the Development of Abstract Art in the United States. Major Adviser: Sidney Simon

Annamarie Thuri Kristensen

Cand. Med. Vet. '86, The Royal Veterinary & Agricultural University, Denmark. Degree: Doctor of Philosophy, January '94. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Clinical and Experimental Studies of Canine Immune-mediated Thrombocytopenia. Major Advisers: Jeffrey S. Klausner and Douglas J. Weiss

Amitava Kumar

M.A. '86, University of Delhi; M.A. '88, Syracuse University. Degree: Doctor of Philosophy, December '93. Major: Comparative Studies in Discourse and Society. Minor: Supporting Program. Thesis: The Politics of Culture and Protest Postcolonial Readings. Major Adviser: John W. Mowitz

Catherine Therese Lally

B.A. cum laude '77, College of St. Benedict; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Family Social Science. Minor: Supporting Program. Thesis: Dyadic Sexual Meaning Systems: An Analysis of Change in Couples' Sexual Meaning Systems from Engagement to Marriage. Major Adviser: James W. Maddock

Anne Francoise Lamblin, Vesoul, France

Maitrise '88, Universite De Franche-Comte-Besancon; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Supporting Program. Thesis: Transcriptional Regulation of the Escherichia coli K-12 cyn Operon. Major Adviser: James A. Fuchs

Grace Daria Lamsam, Monona, Wis

B.S. '85, University of Wisconsin; Pharm.D. '89, University of Utah. Degree: Doctor of Philosophy, October '93. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: Factors Affecting Immunization Rates of Inner City Preschool Children. Major Adviser: Linda M. Strand

Cynthia Marie Lane, Brea, Calif.

B.S. '88, University of California. Degree: Doctor of Philosophy, January '94. Major: Pharmacology. Minor: Supporting Program. Thesis: Studies of an Obcam-like Protein in NG108-15 Cells. Major Adviser: Nancy M. Lee

Elizabeth Ann Laudert, Moorhead

B.S. '82, University of Alaska; D.V.M. '85, Colorado State University. Degree: Doctor of Philosophy, December '93. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Pathogenesis of Avian Influenza Virus Infection in Mallard Ducks. Major Advisers: Vaithianathan Sivanandan and David A. Halvorson

Susan Ellen Lewis, Excelsior

B.A. with honors '87, Earlham College; M.A. '93, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Ecology. Minor: Supporting Program. Thesis: Roosting and Social Ecology of Pallid Bats (*Antrozous pallidus*) in Central Oregon. Major Adviser: Anne E. Pusey

Farong Li, Yuncheng, ShanDong, China

B.Ag.Sci. '84, Shandong Agricultural University; M.Ag.Sci. '87, Northwestern Agricultural University. Degree: Doctor of Philosophy, October '93. Major: Agricultural and Applied Economics. Minor: Economics. Thesis: Political Competition, Institutional Arrangements and Long-run Economic Growth. Major Adviser: Terry L. Roe

Haizhang Li

M.S.E.E. '89, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Deformation and Springback Analysis in Rotary-draw Tube Bending Using Finite Ring Element Method. Major Adviser: Kim A. Stelson

Sally Taylor Lieberman, Minneapolis

B.A. '78, University of Wisconsin; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Chinese. Minor: Feminist Studies. Thesis: The Mother and the Politics of Representation in Modern Chinese Fiction. Major Adviser: Chun-Jo Liu

EePeng Lim, Singapore

B.S. with honors '89, National University of Singapore. Degree: Doctor of Philosophy, February '94. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Instance-level Integration, Query Processing and Optimization in Federated Database Systems. Major Adviser: Jaideep Srivastava

Chun Pin Lin, Taipei, Taiwan

B.D.S. '80, National Taiwan University. Degree: Doctor of Philosophy, December '93. Major: Oral Biology. Minor: Anatomy. Thesis: Structure-Function-Property Relationships in the Dentin-enamel Complex and Tooth-restoration Interface. Major Adviser: William H. Douglas

Janet Moore Lindman, Minneapolis

B.A. cum laude '80, M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: History. Minor: Supporting Program. Thesis: A World of Baptists: Gender, Race, and Religious Community in Pennsylvania and Virginia, 1689-1825. Major Advisers: Sara M. Evans and Russell R. Menard

John Albert Lory, St. Paul

B.S. with distinction '86, Cornell University; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Soil Science. Minor: Supporting Program. Thesis: Management of Manure-Nitrogen and Fertilizer-Nitrogen in Alfalfa-Corn Rotations. Major Advisers: Gyles W. Randall and Michael P. Russelle

Miaogen Lu, Wenling, Zhejiang, China

B.S. '82, Peking University; M.S.E.E. '92, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Electrical Engineering. Minor: Supporting Program. Thesis: Intergranular Magnetic Interactions in Cobalt-Chromium-Tantalum on Chromium Longitudinal Thin Film Media. Major Advisers: Jack H. Judy and Jian-Gang Zhu

Jing Ma, Yichang, Hubei, China

B.Med. '83, Wuhan Medical School; M.Med. '86, Tongji Medical University. Degree: Doctor of Philosophy, December '93. Major: Epidemiology. Minor: Supporting Program. Thesis: Implications of Fatty Acid Composition of Plasma Phospholipids and Cholesterol Esters for Cardiovascular Disease. Major Adviser: Aaron R. Folsom

Donald Gordon MacKay, White Bear Lake

B.A. '86, College of William and Mary; M.B.A. '90, Duke University. Degree: Doctor of Philosophy, February '94. Major: Forestry. Minor: Supporting Program. Thesis: Alternative Timber Pricing Mechanisms for Minnesota's State Forests. Major Adviser: Melvin J. Baughman

James Warren Maertens, Minneapolis

B.A. summa cum laude '85, Augsburg College; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: English. Minor: Supporting Program. Thesis: Promethean Desires: The Technician-Hero and Myths of Masculinity in Nineteenth-Century Literature. Major Adviser: Robert L. Brown, Jr.

William Thomas Mangan, Minneapolis

B.S.Ed. with honors '87, University of South Dakota; M.A. '92, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Education. Minor: Supporting Program. Thesis: Searching for an Educational Case Mix: Exploring Student Demography and Program Costs in Higher Education. Major Adviser: William M. Ammentorp

Carolyn Elizabeth Mangelsdorf

B.S. '82, Davidson College; M.A. '84, Wake Forest University. Degree: Doctor of Philosophy, February '94. Major: Psychology. Minor: Supporting Program. Thesis: A Longitudinal Study of Eating Disturbance in an Adolescent Population. Major Adviser: Gloria R. Leon

Debra Jane Manning, Minneapolis

B.A. magna cum laude '88, St. Olaf College. Degree: Doctor of Philosophy, December '93. Major: Psychology. Minor: Supporting Program. Thesis: Attitudes Toward Persons with AIDS in the Workplace: Using the Functional Approach to Effect Attitude and Behavior Change. Major Adviser: Mark Snyder

Howard Roy Mansfield

B.S. '84, M.S. '87, University of Illinois. Degree: Doctor of Philosophy, December '93. Major: Animal Science. Minor: Supporting Program. Thesis: Influence of By-product Carbohydrate and Protein Sources on Ruminant Microbial Fermentation. Major Adviser: Marshall D. Stern

Patricia Marie McGovern, Minneapolis

B.S.N. '76, M.P.H. '85, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Health Services Research, Policy, and Administration. Minor: Supporting Program. Thesis: An Analysis of the Use of Parental Leave Policy: Implications for Time off Work, and Maternal and Infant Health. Major Adviser: Bryan E. Dowd

Christopher Russell McLean, Ithaca, N.Y.

B.A. cum laude '83, Lawrence University; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: Differences in Self-disclosure Intimacy and Flexibility as a Function of Self-esteem, Gender, Age, Identity, and Learning Style. Major Adviser: Patricia R.M. Veach

John Ramon Mendiola, Waconia

B.A. magna cum laude '86, St. Olaf College. Degree: Doctor of Philosophy, December '93. Major: Pathobiology. Minor: Supporting Program. Thesis: Regulation of Class I MHC Transcription in Choriocarcinoma Cells. Major Adviser: Harry T. Orr

Glen Wesley Menzies, Minneapolis

B.A. magna cum laude '77, Evangel College; M.Div. '81, Fuller Theological Seminary. Degree: Doctor of Philosophy, March '94. Major: Ancient Studies. Minor: Supporting Program. Thesis: Interpretative Traditions in the Hypomnestikon Biblion Ioseppou. Major Adviser: Philip H. Sellw

Ann Catherine Mertens, St. Louis, Mo.

B.S. cum laude '74, St. Louis University; M.S. '87, University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Epidemiology. Minor: Supporting Program. Thesis: Childhood Cancer Survivor Study. Major Adviser: John D. Potter

Connie Anne Miller, Eagan

B.A. '74, College of St. Catherine; M.Ed. '79, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Educational Administration. Minor: Supporting Program. Thesis: Career Socialization for Female Administrators. Major Adviser: Gary F. Alkire

Thomas James Miller, Minneapolis

B.E.E. with distinction '88, M.S.E.E. '93, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Electrical Engineering. Minor: Supporting Program. Thesis: III-V Semiconductor Schottky Barrier Modification with Silicon Interfacial Layers. Major Adviser: Marshall I. Nathan

Kathryn Ann Milun, Minneapolis

B.A. '80, M.A. '88, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Comparative Literature. Minor: Supporting Program. Thesis: Pathologies of Modern Space. Major Adviser: Wladyslaw Godzich

Derek Vincent Moe, Elk River

B.A. cum laude '89, St. Olaf College. Degree: Doctor of Philosophy, March '94. Major: Pharmaceutics. Minor: Supporting Program. Thesis: Nondestructive Viscoelastic Analysis of Anisotropy in Compressed Tablets. Major Adviser: Edward G. Rippie

Ma Grace Rojas Montepiedra, Quezon City, Philippines

B.S. '85, University of the Philippines. Degree: Doctor of Philosophy, February '94. Major: Statistics. Minor: Supporting Program. Thesis: Optimal Design with Finite Model Validity Range. Major Adviser: F. Kinley Larntz

Joseph Kent Moses, Minneapolis

B.F.A. magna cum laude '83, Emerson College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: English. Minor: Supporting Program. Thesis: Rhetoric and Relationships: Collaborative Writing at a Social Service Agency. Major Adviser: Robert L. Brown, Jr.

Gary John Muehlbauer, Pullman, Wash.

B.S. '85, Washington State University; M.S. '89, University of Nebraska. Degree: Doctor of Philosophy, February '94. Major: Plant Breeding. Minor: Supporting Program. Thesis: Characterization of Aspartate Kinase-Homoserine Dehydrogenase and Two Mutant Aspartate Kinases in Maize. Major Adviser: David A. Somers

Museong Mun, Korea

B.Sc.Eng. '79, M.Sc.Eng. '82, Seoul National University. Degree: Doctor of Philosophy, November '93. Major: Biomedical Engineering. Minor: Mechanics. Thesis: Time-dependent Fracture of Articular Cartilage. Major Adviser: Jack L. Lewis

Mark Christopher Munson, Roseville

B.A. cum laude '88, Macalester College. Degree: Doctor of Philosophy, November '93. Major: Chemistry. Minor: Supporting Program. Thesis: Synthesis of Disulfide-containing Peptides: New Strategies and Tactics. Major Adviser: George Barany

Karen Joy Musolf, Breckenridge, Colo.

B.A. magna cum laude '59, University of South Dakota; M.A. '86, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Speech-Communication. Minor: Supporting Program. Thesis: The Angel Sings: The Rhetorical Quest of Lady Nancy Astor, November 1919. Major Advisers: Robert L. Scott and J. Vernon Jensen

Carmel Nadav, Rehovot, Israel

Degree: Doctor of Philosophy, October '93. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Incentives and Equity Capital in Cooperatives. Major Adviser: Jerome W. Hammond

Janice Marie Winchester Nadeau, Stillwater

B.S. '78, Castleton State College; M.S. '81, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Family Social Science. Minor: Supporting Program. Thesis: Meaning-making in Family Bereavement. Major Adviser: Paul C. Rosenblatt

Darcia F. Narvaez, Minneapolis

A.B. cum laude '76, University of Northern Colorado. Degree: Doctor of Philosophy, November '93. Major: Educational Psychology. Minor: Cognitive Science. Thesis: Moral Reasoning and Memory for General Content and Moral Arguments in Narratives. Major Adviser: Paulus W. van den Broek

Jennifer Dawn Neemann, Collinsville, Ill.

B.A. summa cum laude '86, University of Denver. Degree: Doctor of Philosophy, October '93. Major: Child Psychology. Minor: Supporting Program. Thesis: The Importance of Physical Attractiveness for Adaptive Functioning in Late Adolescence: A Confirmatory Factor Analysis Approach. Major Adviser: Ann S. Masten

David Michael Nelson, St. Paul

B.S. '87, St. John's University. Degree: Doctor of Philosophy, November '93. Major: Genetics. Minor: Supporting Program. Thesis: Cloning and Retroviral-mediated Expression of a Murine Purine Nucleoside Phosphorylase (PNP) cDNA Sequence in Human Hematopoietic Tissue. Major Advisers: Perry B. Hackett and R. Scott McIvor

Derek Ward Nelson, Dayton, Ohio

B.S. cum laude '88, Miami University. Degree: Doctor of Philosophy, November '93. Major: Chemistry. Minor: Supporting Program. Thesis: The Synthesis and Solvolysis of 7-Perfluoroalkyl-7-bicyclo(2.2)heptyl Derivatives. Major Adviser: Steven R. Kass

Mark Riley Neuzil, Solon, Iowa

B.A. '80, Iowa State University of Science and Technology; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Mass Communication. Minor: Supporting Program. Thesis: Muckraking and the Progressive Movement: The Interaction of Journalism and Society, 1902-1911. Major Adviser: Hazel Dicken-Garcia

Sister Esther Nickel, Ida, Mich.

B.S. '86, M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Agronomy. Minor: Supporting Program. Thesis: Corn and Soybean Cropping Sequence Affects Root Health and Development. Major Adviser: R. Kent Crookston

Edmund Richard Nowak, Cicero, Ill.

B.S. with high honors '86, Illinois Institute of Technology. Degree: Doctor of Philosophy, February '94. Major: Physics. Minor: Supporting Program. Thesis: Voltage Noise as a Probe of Vortex Kinetics in High Temperature Superconductors. Major Adviser: Allen M. Goldman

Janet Elaine Nuckles, Maplewood

B.S. '69, M.Ed. '72, Wayne State University. Degree: Doctor of Philosophy, October '93. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: From Behaviorism to Constructivism: An Exploration of Teacher Paradigm Shifts. Major Adviser: William M. Ammentorp

Aluizio Borem de Oliveira

Engenheiro Agronomo '81, Magister Sci. '85, Federal University of Vicosa. Degree: Doctor of Philosophy, October '93. Major: Plant Breeding. Minor: Supporting Program. Thesis: Barley Starch Granule Traits: Genetic and Molecular Aspects. Major Adviser: Donald C. Rasmusson

Amy Lynn Ollendorf, Minneapolis

B.S. '83, Beloit College; M.S. '86, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Ancient Studies. Minor: Supporting Program. Thesis: Changing Landscapes in the American Bottom (USA): An Interdisciplinary Investigation with an Emphasis on the Late-Prehistoric and Early-Historic Periods. Major Advisers: Herbert E. Wright, Jr. and Guy E. Gibbon

Scott Gregory Olsen, White Bear Lake

B.A. magna cum laude '86, College of St. Thomas. Degree: Doctor of Philosophy, October '93. Major: Cell and Developmental Biology. Minor: Supporting Program. Thesis: The Lactose Permease of *Escherichia coli*: Sugar Binding within a Channel Structure. Major Adviser: Robert J. Brooker

Marilyn Christine Olson, Alden

B.S. '88, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Pharmacology. Minor: Supporting Program. Thesis: The Effects of Ribosome Inactivating Proteins on HIV-1 Replication. Major Adviser: Sundaram Ramakrishnan

Kirk LeRoi Oseid, Roseau

B.M.E. with distinction '85, Rensselaer Polytechnic Institute. Degree: Doctor of Philosophy, October '93. Major: Mechanical Engineering. Minor: Supporting Program. Thesis: Numerical Prediction of Turbulent Oscillating Flow and Heat Transfer in Pipes with Various End Geometries. Major Adviser: Suhas V. Patankar

Thomas Michael O'Shea, Waukegan, Ill.

B.S. '77, Edgewood College. Degree: Doctor of Philosophy, February '94. Major: English. Minor: Supporting Program. Thesis: Symmetry and Self: James Joyce and Boustrophedonic Writing. Major Adviser: Chester G. Anderson

Susan Marie Overhauser, Oakland, Calif.

B.A. with highest distinction '84, University of California. Degree: Doctor of Philosophy, November '93. Major: Child Psychology. Minor: Supporting Program. Thesis: The Significance of Friendship Intimacy and Family Warmth for Adolescent Identity Development and Individuation: A Developmental Study. Major Adviser: W. Andrew Collins

In-Uck Park, Taegu, Korea

B.Econ. '84, Seoul National University. Degree: Doctor of Philosophy, December '93. Major: Economics. Minor: Supporting Program. Thesis: Three Essays in Game Theory. Major Adviser: Andrew McLennan

Young-Keun Park, Seoul, Korea

B.E. '86, Yonsei University; M.S.E.E. '90, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Electrical Engineering. Minor: Computer and Information Sciences. Thesis: Neural Networks for Congestion Control in Communication Networks. Major Advisers: Vladimir Cherkassky and Gyungho Lee

Mark Hunter Parsons, Minneapolis

B.A. '72, University of Minnesota; M.Div. '76, United Theological Seminary. Degree: Doctor of Philosophy, November '93. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: Negotiating the Planned Gift for Higher Education: A Learning Organization Paradigm. Major Adviser: William M. Ammentorp

Adam Albert Paszek

M.S. '90, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Animal Science. Minor: Supporting Program. Thesis: Comparison of Breeding Values For Sheep Predicted with Single- and Multiple-Trait Animal Models. Major Adviser: William J. Boylan

Kim Elayne Paulsen, Minneapolis

B.A. '86, College of St. Catherine; M.S. '92, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Chemistry. Minor: Supporting Program. Thesis: EPR-Spectroelectrochemical Studies of the Methane Monooxygenase from *Methylosinus Trichosporium* OB3b. Major Adviser: Marian Stankovich

Madhusudan Viswanath Peshwa, Pune, India
B.Tech. '88, Indian Institute of Technology, Kanpur.
Degree: Doctor of Philosophy, December '93. Major:
Chemical Engineering. Minor: Supporting Program.
Thesis: Engineering a Xenogeneic Bioartificial Liver
(BAL) for Application in Acute Human Fulminant
Hepatitis. Major Adviser: Wei-Shou Hu

**Louis Emanuel Petersen, St. Thomas, Virgin
Islands**

B.S. '81, Tuskegee Institute; M.S. '83, Oklahoma State
University. Degree: Doctor of Philosophy, January '94.
Major: Horticulture. Minor: Plant Pathology. Thesis:
Effect of Congruity Backcrossing on Expression of
Drought Tolerance Traits in *Phaseolus vulgaris* L.—P.
Acutifolius Gray Hybrids. Major Advisers: Peter D.
Ascher and Albert H. Markhart III

Sandra Jean C. Peterson, Minnetonka

B.S. '66, Cornell University; M.S. '77, University of
Minnesota. Degree: Doctor of Philosophy, November '93.
Major: Education. Minor: Supporting Program. Thesis:
The Relationship of the College Experience with Patterns
of Lifelong Learning. Major Adviser: Howard Y. Williams

Kathleen Marie Pfaffinger

B.S.N. with high distinction '75, M.S. '78, University of
Minnesota. Degree: Doctor of Philosophy, December '93.
Major: Educational Psychology. Minor: Supporting
Program. Thesis: Parent Perceptions of Children with and
without a Chronic Illness or Disability: Attributions
Regarding Competencies and Needs. Major Adviser:
Robert H. Bruininks

Lai Q. Pham, Minneapolis

B.E.E. with distinction '88, M.S.E.E. '89, University of
Minnesota. Degree: Doctor of Philosophy, October '93.
Major: Electrical Engineering. Minor: Supporting
Program. Thesis: Integrated Pyroelectric Detectors for
Infrared Detection. Major Adviser: Dennis L. Polla

James Brian Planeaux, Centerville, Ohio

B.S.Ch.E. with highest honors '82, University of Notre
Dame. Degree: Doctor of Philosophy, December '93.
Major: Chemical Engineering. Minor: Supporting
Program. Thesis: Bifurcation Phenomena in CSTR
Dynamics. Major Adviser: Klavs F. Jensen

**Francisco J. Plasencia de la Parra, Mexico City,
Mexico**

Químico Farmaceutico Biologo '86, Universidad Nacional
Autonoma de Mexico; M.S. '90, University of
Minnesota. Degree: Doctor of Philosophy, February '94.
Major: Plant Pathology. Minor: Supporting Program.
Thesis: Development of a Monoclonal Antibody-based
Immunoassay to Evaluate Potato Resistance to
Verticillium Wilt. Major Adviser: Ernest E. Bantari

Paul Spencer Plummer, Madison, Wis.

B.A. with honors '85, Portsmouth Polytechnic; M.A.
'89, University of Minnesota. Degree: Doctor of
Philosophy, October '93. Major: Geography. Minor:
Sociology. Thesis: The Competitive Strategies of Multi-
Locational Corporations: Spatial Prices and Market Share.
Major Adviser: Eric S. Sheppard

Janet Elaine Porter, Columbus, Ohio

B.S. '75, M.S. '77, Ohio State University; M.B.A. '85,
University of Minnesota. Degree: Doctor of Philosophy,
January '94. Major: Health Services Research, Policy,
and Administration. Minor: Supporting Program. Thesis:
An Experimental Design to Study the Utilization of
Pediatric Health Care Services by Medicaid Mothers.
Major Adviser: Vernon E. Weckwerth

Jill Ellen Preminger, Metuchen, N.J.

B.S. magna cum laude '80, Boston University; M.S. '82,
University of Wisconsin. Degree: Doctor of Philosophy,
December '93. Major: Communication Disorders. Minor:
Supporting Program. Thesis: Quantifying the Dimensions
that Compose Speech Quality. Major Adviser: Dianne J.
Van Tasell

Francis J. Pucci, Minneapolis

B.A. '85, M.A. '87, University of Minnesota. Degree:
Doctor of Philosophy, October '93. Major: Geography.
Minor: Supporting Program. Thesis: An Historical
Geography of the North Mexican Frontier: The Presidio
Line from 1766-1786. Major Adviser: Ward J. Barrett

Ge Qu, Xian, Shaanxi, China

B.S. '82, Northwestern Polytechnical University;
M.S.M.E. '90, University of Minnesota. Degree: Doctor
of Philosophy, November '93. Major: Mechanical
Engineering. Minor: Computer and Information Sciences.
Thesis: Automatic Tolerance Allocation with Process
Selection Based on a Hierarchical Assembly Model.
Major Advisers: Donald R. Riley and Kim A. Stelson

Conor Anthony Quinn, Waterford, Ireland

B.Eng. '88, National University of Ireland, University
College Cork; M.S.E.E. '90, University of Minnesota.
Degree: Doctor of Philosophy, February '94. Major:
Electrical Engineering. Minor: Supporting Program.
Thesis: Active Filtering of Harmonic Currents in Three-
Phase, Four-Wire Systems with Three-Phase and Single-
Phase Non-Linear Loads. Major Adviser: Ned Mohan

Susan Elaine Ranney, Madison, Wis.

B.A. '72, University of Wisconsin; M.A. '75, New York
University; M.A. '78, M.Ed. '80, Columbia University.
Degree: Doctor of Philosophy, February '94. Major:
Education. Minor: Supporting Program. Thesis: Learning
the Role of International Teaching Assistant:
Sociolinguistic Competence in an Unequal Power Setting.
Major Adviser: Constance L. Walker

Ernest Scott Reeh, Calgary, Alberta, Canada

B.S. '82, D.D.S. '84, University of Alberta; M.S. '88,
University of Minnesota. Degree: Doctor of Philosophy,
October '93. Major: Biophysical Sciences. Minor:
Supporting Program. Thesis: Salivary Defense Against
Friction and Wear of Dental Enamel. Major Adviser:
William H. Douglas

Zhanglin Ren, Hebei, China

B.S. '82, Beijing Agricultural University. Degree: Doctor
of Philosophy, November '93. Major: Plant Physiology.
Minor: Supporting Program. Thesis: Hydraulic
Architecture, Root Hydraulic Conductivity and Leaf Water
Status During Recurrent Flushing in *Quercus rubra* L.
Seedlings. Major Adviser: Edward I. Sucoff

Ernesto Ruben Resnik, Buenos Aires, Argentina

Licenciado '88. Universidad de Buenos Aires. Degree: Doctor of Philosophy, January '94. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Supporting Program. Thesis: Expression of the Genes of the aceBAK Operon of Escherichia coli. Major Adviser: David C. LaPorte

Jack Magnus Risdahl

B.S. '84. University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Morphine Mediated Immune Alterations and Infectious Disease Pathogenesis in Swine. Major Adviser: Thomas W. Molitor

David Michael Rizzo, Madison, Wis.

B.S. cum laude '83. James Madison University; M.S. '86. University of New Hampshire. Degree: Doctor of Philosophy, October '93. Major: Plant Pathology. Minor: Supporting Program. Thesis: Genetics and Ecology of Armillaria ostoyae. Major Adviser: Robert A. Blanchette

Jerry Wayne Robicheau, Faribault

B.S. '70. Moorhead State College; M.S. '77. St. Cloud State College. Degree: Doctor of Philosophy, January '94. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: A Case Study of Written Contracts and Stakeholders' Attitudes Toward Collective Bargaining During Four Contract Periods. Major Adviser: Van D. Mueller

David Lowell Robinson, Tucson, Ariz.

B.S. with distinction '78. M.S. '86. University of Arizona. Degree: Doctor of Philosophy, October '93. Major: Plant Physiology. Minor: Supporting Program. Thesis: Compartmentation of Nitrogen and Carbon Metabolism in Alfalfa Root Nodules. Major Adviser: Carroll P. Vance

Elisabeth Ann Lodge Rogers, Geneseo, N.Y.

B.S. '82. M.S. '84. Kansas State University. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Efficacy of Direct Observation and Rating Scales in Assessing Moral and Prosocial Behavior in Children Identified with Emotional and Behavioral Disorders. Major Adviser: Frank Henderson Wood

Osha Roopnarine, Couva, Trinidad, West Indies

B.S. '82. University of the West Indies; M.S. '87. Southern Illinois University; M.S. '92. University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Supporting Program. Thesis: The Orientation and Rotational Dynamics of Spin-labeled Myosin Heads during Muscle Contraction. Major Adviser: David D. Thomas

Charlotte Anne Ryan, Minneapolis

B.A. '68. University of Minnesota; M.A. '71. University of Northern Colorado. Degree: Doctor of Philosophy, October '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Relationships among Gender, Age, Achievement, Perceived Social Support, Problem Solving, and Adolescent Depression. Major Adviser: Patricia R.M. Veach

Marjorie Ann Schaffer, Eden Prairie

B.A. '71. Gustavus Adolphus College; M.S. '73. Boston College. Degree: Doctor of Philosophy, October '93. Major: Family Social Science. Minor: Supporting Program. Thesis: The Influence of Partner Relationship and Social Supports on the Prenatal Health Behaviors of Low Income Women. Major Advisers: Shirley L. Zimmerman and Pauline G. Boss

Matthew Freerick Schmidt, Minneapolis

B.A. magna cum laude '84. Gustavus Adolphus College; M.S. '90. University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Physics. Minor: Supporting Program. Thesis: Applicability of Paradigms for High Transition Temperature Superconductivity to Magnetic Relaxation and Irreversibility in Superconducting Niobium. Major Adviser: Allen M. Goldman

David Gerard Schrot

B.S. magna cum laude '78. Northeastern Michigan University; M.Ed. '80. Harvard University. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: A Comparative Analysis of Regular and Special Education Elementary Students on Functional Academic and Classroom/Personal Responsibility Skills. Major Adviser: James E. Ysseldyke

Joseph Michael Schwartz, West Seneca, N.Y.

B.S. '89. State University of New York. Degree: Doctor of Philosophy, March '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Microstructural Evolution of Catalyst and Ceramic Particles. Major Adviser: Lanny D. Schmidt

Barbara G. Scott, Ripon, Wis.

A.B. summa cum laude '82. Ripon College; M.A. '86. University of Wisconsin. Degree: Doctor of Philosophy, December '93. Major: Interdisciplinary Archaeological Studies. Thesis: Viking Colonialism: Contact and Interaction Between Viking/Medieval Norway and the Northern Isles. Major Advisers: Peter S. Wells and Christine A. Hastorf

Roberto Anibal Scottto

Licenciado '81. Universidad Nacional del Litoral. Degree: Doctor of Philosophy, October '93. Major: Mathematics. Minor: Supporting Program. Thesis: Weak Type Estimates for Singular Integral Operators Associated with the Ornstein-Uhlenbeck Process. Major Adviser: Eugene B. Fabes

Hsiu-ming Shih, Taipei, Taiwan

B.S. '86. National Taiwan University. Degree: Doctor of Philosophy, December '93. Major: Biochemistry, Molecular Biology & Biophysics. Minor: Supporting Program. Thesis: Regulation of Hepatic S14 Gene Expression by Carbohydrate Metabolism. Major Adviser: Howard C. Towle

Mohan Sikka, New Delhi, India

B.Tech. '89. Indian Institute of Technology, Delhi. Degree: Doctor of Philosophy, March '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: The Microstructure of Block Copolymer Amphiphiles Near Material Surfaces. Major Advisers: Matthew V. Tirrell and Frank S. Bates

Jacquelyn Jeri Silver, Rochester

B.S. cum laude '74, Ohio State University; M.A. '80, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: Parent Influence on Educational Decision Making: Minnesota's Early Childhood Family Education Advisory Councils. Major Adviser: Tim L. Mazzoni

Michael Gerard Simmonds, Coventry, England

B.Sc. with honors '88, University of Surrey. Degree: Doctor of Philosophy, November '93. Major: Chemistry. Minor: Supporting Program. Thesis: Chemical Vapor Deposition of Aluminum for Electronic Materials: Identification of Gas Phase and Surface Mechanistic Phenomena. Major Adviser: Wayne L. Gladfelter

Dawn Hoveland Simone

B.S. '66, M.Ed. '67, M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Educational Psychology. Minor: Supporting Program. Thesis: Therapist Use of Self-Disclosure: An Investigation of Client and Therapist Variables Influencing Disclosure Behavior. Major Adviser: Patricia R.M. Veach

Navjot Singh, New Delhi, India

B.Tech. '89, Indian Institute of Technology Delhi. Degree: Doctor of Philosophy, March '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Confined Polymeric Amphiphiles; Block Copolymers and End-Functionalized Polymers. Major Advisers: Matthew V. Tirrell and Frank S. Bates

Deepen Sinha, Gonda, India

B.Tech. '89, Indian Institute of Technology, Kharagpur; M.S. '89, Iowa State University. Degree: Doctor of Philosophy, December '93. Major: Electrical Engineering. Minor: Mathematics. Thesis: Low Bit Rate Transparent Audio Compression Using Adapted Wavelets. Major Adviser: Ahmed H. Tewfik

Wendy Sue Slutske, Milwaukee, Wis.

B.S. with distinction '86, University of Wisconsin. Degree: Doctor of Philosophy, October '93. Major: Psychology. Minor: Supporting Program. Thesis: A Twin and Family Study of Personality and the Genetics of Alcoholism. Major Advisers: Auke Tellegen and Matthew K. McGue

Kathleen A. Sodergren, St. Paul

B.A. '66, College of St. Catherine; M.S.N. '73, Saint Louis University. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: The Effect of Absorption and Social Closeness on Responses to Educational and Relaxation Therapies in Patients with Anticipatory Nausea and Vomiting During Cancer Chemotherapy. Major Adviser: Geoffrey M. Maruyama

Susan Ann Somers, Nissequogue, N.Y.

B.S. cum laude '87, Rensselaer Polytechnic Institute. Degree: Doctor of Philosophy, November '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Structural, Thermodynamic and Transport Properties of Fluids in Nanopores. Major Adviser: H. Ted Davis

Richard Joseph Spicuzza, Barrington, Ill.

B.A. '85, Creighton University; M.A. '91, Spec.Ed. '91, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Supporting Program. Thesis: Generalization Tactics for Increased Social Behavior of Preschool Children with Disabilities. Major Adviser: Scott R. McConnell

Scott Ronald Sponheim, Roseville

B.A. cum laude '85, Concordia College. Degree: Doctor of Philosophy, December '93. Major: Psychology. Minor: Supporting Program. Thesis: The Electroencephalogram in Schizophrenia: Frequency Abnormalities and the Clinical, Biological, and Longitudinal Contexts of Disorder. Major Adviser: William G. Iacono

Kim Yoonok Stenberg, Seoul, Korea

B.A. '81, Yonsei University; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy, December '93. Major: History. Minor: Supporting Program. Thesis: Gender, Class, and London Local Politics, 1870-1914. Major Adviser: Josef L. Altholz

Peter Grant Stock, Chicago, Ill.

B.S. '78, M.D. '82, University of Illinois. Degree: Doctor of Philosophy in Surgery, February '94. Major: Surgery. Minor: Supporting Program. Thesis: The Role of Major Histocompatibility Antigens on Pancreatic Islet Immunogenicity. Major Adviser: David E. R. Sutherland

Steven M. Stone

B.S. '86, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Genetics. Minor: Supporting Program. Thesis: Characterization of act-4, osm-1 and daf-10, Genes Required for Assembly of the C. elegans Cytoskeleton. Major Advisers: Robert K. Herman and Jocelyn E. Shaw

Angela Airolđi Strantz, St. Paul

B.S. '82, University of Wisconsin; M.S. '88, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Food Science. Minor: Supporting Program. Thesis: The Microbiological Aspects of Using Cornstarch Containing Plastic Film as a Food Packaging Material. Major Adviser: Edmund A. Zottola

Elizabeth A. Strickland, Indianapolis, Ind.

B.A. '80, Brown University; M.S. '84, Purdue University. Degree: Doctor of Philosophy, February '94. Major: Psychology. Minor: Neuroscience. Thesis: Resolution of Temporal Envelopes by the Auditory System. Major Adviser: Neal F. Viemeister

Dong-Churl Suh, Seoul, Korea

B.Pharm. '79, M.Pharm. '84, Chung-Ang University; M.B.A. '82, Yonsei University; M.B.A. '88, State University of New York. Degree: Doctor of Philosophy, December '93. Major: Social and Administrative Pharmacy. Minor: Supporting Program. Thesis: Effect of Multiple Source Entry on Price Competition After Patent Expiration in the Pharmaceutical Industry. Major Advisers: Stephen W. Schondelmeyer and Willard G. Manning

Lei Sun, Beijing, China

B.S. '85, Nankai University; M.S. '88, Institute of Basic Medical Sciences. Degree: Doctor of Philosophy, October '93. Major: Biochemistry. Minor: Supporting Program. Thesis: Regulation of E. coli *trp* Operon Encoding Ribonucleotide Reductase. Major Adviser: James A. Fuchs

Nong Sun

B.S. '83, East China Institute of Chemical Technology; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Food Science. Minor: Supporting Program. Thesis: Biological Approaches for Reducing Cholesterol in Dairy Products. Major Adviser: Susan K. Harlander

Uttandaraman Sundararaj, Edmonton, Alberta, Canada

B.S. '89, University of Alberta. Degree: Doctor of Philosophy, January '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Morphology Development During Polymer Blending. Major Adviser: Christopher W. Macosko

Joseph A. Suriano, Sidney, N.Y.

B.S. '86, Ithaca College; M.S. '89, Bucknell University. Degree: Doctor of Philosophy, February '94. Major: Chemistry. Minor: Supporting Program. Thesis: I. Mechanistic and Synthetic Investigations of Group VI and Group VIII Transition Metal-mediated Cyclization Reactions. II. Studies Directed Toward the Total Synthesis of Michellamine A and B. Major Adviser: Thomas R. Hoye

Pamela Joan Sweeney, White Bear Lake

B.S. with honors '86, Carnegie-Mellon University. Degree: Doctor of Philosophy, March '94. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Experimental and Modeling Studies of the Cell Cycle and Growth of the Ciliate *Tetrahymena pyriformis*. Major Advisers: Arnold G. Fredrickson and Friedrich Sienec

Chanchai Temiyakarn-McDonald, Thailand

B.Ed. '77, Chulalongkorn University; M.Ed. '79, Worcester State College. Degree: Doctor of Philosophy, January '94. Major: Education. Minor: Supporting Program. Thesis: Learner-Controlled Lessons in Cooperative Learning Groups during Computer-based Instruction. Major Advisers: Roger T. Johnson and Simon R. Hooper

Alex Thevaranjan, Jaffna, Sri Lanka

B.Sc.Eng. '84, University of Peradeniya; M.B.A. '88, University of Ottawa. Degree: Doctor of Philosophy, October '93. Major: Business Administration. Minor: Supporting Program. Thesis: Effort Allocation and Executive Compensation. Major Adviser: Rajiv D. Banker

Ben F. Tholkes, Vasa

B.S. '72, M.S. '88, Mankato State College. Degree: Doctor of Philosophy, March '94. Major: Education. Minor: Supporting Program. Thesis: Anxiety and Outdoor Adventure: A Study of State Anxiety and Activity Performance. Major Adviser: Leo H. McAvoy, Jr.

Mark David Toner

B.S.F. with high honors '81, University of Montana; M.S. '86, Montana State University. Degree: Doctor of Philosophy, March '94. Major: Soil Science. Minor: Water Resources. Thesis: Describing Soil and Crop Variability on a Sand-plain Landscape with Surface-collected Data. Major Advisers: James L. Anderson and David F. Grigal

SheauRu Tong, Taiwan

B.S. '84, National Chiaio Tung University. Degree: Doctor of Philosophy, February '94. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: Efficient Design for High-speed Network and Multiprocessor Architectures. Major Adviser: David H. Du

Jody Lee Toquam, Claremont

B.A. '75, University of Minnesota. Degree: Doctor of Philosophy, January '94. Major: Psychology. Minor: Supporting Program. Thesis: Chronometric Variables Versus Traditional Psychometric Tests: The Same Latent Ability-Perceptual Speed? Major Adviser: John P. Campbell

Emilio Trigo-Tavera, Mexico City, Mexico

D.V.M. '80, Universidad Nacional Autonoma de Mexico; M.S. '84, University of Washington. Degree: Doctor of Philosophy, February '94. Major: Veterinary Medicine. Minor: Supporting Program. Thesis: Virulence Factors of *Pasteurella multocida* Strains Associated to Atrophic Rhinitis in Swine. Major Adviser: Carlos Pijoan

Patricia Ndifreke Udoh, West St. Paul

B.A. '83, Southwestern College; M.Ed. '84, University of Arizona. Degree: Doctor of Philosophy, December '93. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: An Investigation of the Health Knowledge Possessed by Students and Teachers in Teacher Preparatory Colleges in Akwa Ibom State, Nigeria. Major Adviser: William M. Ammentorp

Leonardus Theodorus Van Beuningen, Bergen Op Zoom, Netherlands

Drs. '84, Agricultural University Wageningen. Degree: Doctor of Philosophy, November '93. Major: Plant Breeding. Minor: Supporting Program. Thesis: Genetic Diversity Among North American Spring Wheat Cultivars as Determined from Genealogy and Morphology. Major Adviser: Robert Henry Busch

Everhardus Van der Sluis, Poppingawier, Netherlands

M.S. '88, Iowa State University of Science and Technology. Degree: Doctor of Philosophy, December '93. Major: Agricultural and Applied Economics. Minor: Supporting Program. Thesis: Cropland Diversion Programs and Rural Out-migration. Major Adviser: Willis L. Peterson

Philippe Vandeweghe, France

Dipl. d'Agron. Gen. '85, Institut National Agronomique Paris-Grignon; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy, February '94. Major: Food Science. Minor: Supporting Program. Thesis: Proteolytic System of *Lactococcus lactis* ssp. *cremoris*. Major Adviser: Joseph J. Warthesen

Paul Robert Van Tassel, Minnetonka

B.A. magna cum laude '87, St. Olaf College. Degree: Doctor of Philosophy, October '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Structure, Dynamics, and Thermodynamics of Small Molecules Adsorbed in Zeolite Micropores: Simulation and Statistical Mechanics. Major Advisers: Alon V. McCormick and H. Ted Davis

Peter William Villalta, International Falls

B.S. '87, St. John's University. Degree: Doctor of Philosophy, December '93. Major: Chemistry. Minor: Supporting Program. Thesis: Anion Photoelectron Spectroscopy of Metallic Species: First Row Transition Metal Monocarbonyls and Aluminum Trimer. Major Adviser: Doreen G. Leopold

Kevin Gregory Waddick, Minneapolis

B.A. '76, M.S. '83, University of Minnesota. Degree: Doctor of Philosophy, October '93. Major: Biophysical Sciences. Minor: Supporting Program. Thesis: The Role of Protein Tyrosine Kinases in Radiation-induced Apoptosis of Human Lymphoid Cells. Major Adviser: Fatih M. Uckun

Nancy C. Wagner, St. Paul

A.B. with honors '79, Grinnell College. Degree: Doctor of Philosophy, December '93. Major: Educational Psychology. Minor: Child Psychology. Thesis: Elementary Age Learning Disabled Students in Early Childhood. Major Adviser: Byron Egeland

Lila D. Waldman, Westfield, Wis.

B.S. '69, Wisconsin State University; M.S. '75, University of Wisconsin. Degree: Doctor of Philosophy, November '93. Major: Education. Minor: Supporting Program. Thesis: Employment and Training of Bilingual Administrative Support Personnel in United States Multicultural Corporations. Major Adviser: Judith J. Lambrecht

Mianmian Wang, Shanghai, China

M.S.E.E. '88, University of Minnesota. Degree: Doctor of Philosophy, March '94. Major: Control Science and Dynamical Systems. Thesis: Matrix Measure and Matrix Pencil Methods for Distributed Parameter System Stability Analysis and Stabilization. Major Advisers: E. Bruce Lee and Daniel L. Boley

Wu Wang, China

B.S. '82, Changchun College of Geology; M.S. '85, Chinese Academy of Geological Science. Degree: Doctor of Philosophy, March '94. Major: Geo-Engineering. Minor: Supporting Program. Thesis: Moist Soil Thermal Conductivity Measurement. Major Advisers: Raymond L. Sterling and Louis F. Goldberg

Randall Alan Wanke, Medford, Wis.

B.S. '83, University of Wisconsin. Degree: Doctor of Philosophy, December '93. Major: Chemistry. Minor: Supporting Program. Thesis: Investigations into the Hydrogen Bonding and Hydrogen-bond Aggregation Leading to Hydrogen-bonded Crystal Formation. Major Adviser: Peter W. Carr

O. Duane Weeks, Buckley, Wash.

B.A. '61, College of Puget Sound; M.A. '86, Pacific Lutheran University. Degree: Doctor of Philosophy, January '94. Major: Sociology. Minor: Supporting Program. Thesis: AIDS in the 1990s: The Risk for University Students. Major Adviser: Robert L. Fulton

Marie Welborn, New York, N.Y.

B.S. '75, Cornell University; M.S. '76, University of Wisconsin. Degree: Doctor of Philosophy, March '94. Major: Psychology. Minor: Supporting Program. Thesis: Black-white Couples: Social and Psychological Factors that Influence the Initiation, Development, and Continuance of their Relationship. Major Adviser: James N. Butcher

Hugh Whalen

B.Sc. with honors '74, B.B.A. '77, University of New Brunswick. Degree: Doctor of Philosophy, December '93. Major: Business Administration. Minor: Supporting Program. Thesis: Information Technology and Productivity of White Collar Knowledge Workers. Major Advisers: Gordon B. Davis and Gerald F. Smith

L. Neville Wilson, Bokchito, Okla.

B.A. '73, M.S. '75, Oklahoma State University. Degree: Doctor of Philosophy, November '93. Major: Plant Breeding. Minor: Supporting Program. Thesis: Nitrate Reductase Activity in Alfalfa (*Medicago sativa* L.): Response to Bidirectional Selection and Evaluation of Nitrate Reductase Activity and Forage Yield. Major Adviser: Robert E. Stucker

Rosemarie Duntemann Wippler, Des Plaines, Ill.

B.A. '76, College of St. Catherine; M.S. '80, Winona State University. Degree: Doctor of Philosophy, March '94. Major: Educational Policy and Administration. Minor: Supporting Program. Thesis: A Study of Career Patterns of Men and Women in Educational Administration. Major Adviser: Neal C. Nickerson

Catherine Lila Wisner, Huntsville, Ala.

B.S.N. with honor '77, University of Alabama; M.S.N. '81, Vanderbilt University. Degree: Doctor of Philosophy, November '93. Major: Health Services Research, Policy, and Administration. Minor: Statistics. Thesis: Health Plan Effects on the Health Status of Medicare Beneficiaries in the Twin Cities. Major Adviser: Bryan E. Dowd

Jongok Won, Korea

B.S. '86, Yonsei University; M.S. '88, Inha University; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy, November '93. Major: Chemistry. Minor: Supporting Program. Thesis: Tracer Diffusion of Stars and Spheres in Polymer Matrices. Major Adviser: Timothy P. Lodge

Li-Wha Wu, Taipei, Taiwan

B.S. '85, National Chung-Hsing University. Degree: Doctor of Philosophy, November '93. Major: Genetics. Minor: Supporting Program. Thesis: Cytotoxicity of V-SRC Gene Expression in Rodent Cells. Major Adviser: Pery B. Hackett

Mary Ellen Wurzbach, Oshkosh, Wis.

B.S.N. '70, M.S.N. '77, University of Wisconsin. Degree: Doctor of Philosophy. October '93. Major: Nursing. Minor: Philosophy. Thesis: The Moral Certainty or Uncertainty of Nurses Regarding End-of-Life Treatment Decisions. Major Advisers: Mariah Snyder and Patricia Crisham

Liang Xiu, Tianjin, China

B.S. '82, Tianjin University. Degree: Doctor of Philosophy. October '93. Major: Statistics. Minor: Supporting Program. Thesis: Goodness-of-fit Tests for Survival Models. Major Adviser: Ronald C. Pruitt

Wenyuan Xu, Shanghai, China

Degree: Doctor of Philosophy. December '93. Major: Control Science and Dynamical Systems. Minor: Electrical Engineering. Thesis: Design of Cost Functionals for Parameter Estimation and Robust Detection. Major Adviser: Mostafa Kaveh

Jianhua Yan, Nanning, Guangxi, China

B.S. '82, Guangxi Agricultural College. Degree: Doctor of Philosophy. November '93. Major: Agricultural Engineering. Minor: Supporting Program. Thesis: Development of a Methodology for the Dynamic Stability and Sensitivity Analysis of Damped Mechanical Systems: A Case Study of Tractor Front and Rear Mounted Implement Systems. Major Adviser: Jonathan Chaplin

James HsuKuang Yang, Munster, Ind.

B.S. with highest distinction '86, Purdue University. Degree: Doctor of Philosophy. December '93. Major: Chemical Engineering. Minor: Supporting Program. Thesis: Selective Ion-Exchange in a Microemulsion-based Resin. Major Adviser: Edward L. Cussler

Jie Yao, Beijing, China

M.E. '82, Beijing Institute of Aeronautics and Astronautics. Degree: Doctor of Philosophy. February '94. Major: Aerospace Engineering. Minor: Supporting Program. Thesis: Experiments on Microbursts. Major Adviser: Thomas S. Lundgren

Tse-An Yeh, Kaohsiung, Taiwan

B.S. '86, Tamkang University; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy. October '93. Major: Materials Science and Engineering. Minor: Supporting Program. Thesis: Deposition, Characterization and Tribological Studies on Carbon Overcoats for Magnetic Storage Disks. Major Adviser: John M. Sivertsen

Michael Ernest Yoes, San Diego, Calif.

A.B. '82, San Diego State University. Degree: Doctor of Philosophy. December '93. Major: Psychology. Minor: Educational Psychology. Thesis: A Comparison of the Effectiveness of Item Parameter Estimation Techniques Used with the 3-Parameter Logistic Item Response Theory Model. Major Adviser: David J. Weiss

Ilkyu Yoon, Seoul, Korea

B.Ag. '85, M.Ag. '87, Korea University. Degree: Doctor of Philosophy. December '93. Major: Animal Science. Minor: Supporting Program. Thesis: Influence of Direct-fed Microbials on Ruminant Microbial Fermentation. Major Adviser: Marshall D. Stern

Jang-Horng Yu, Kaohsiung, Taiwan

B.S.E. '85, National Taiwan University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. January '94. Major: Mechanics. Minor: Supporting Program. Thesis: Nonlinear Oscillations of Viscoelastic Cylindrical and Spherical Shells. Major Adviser: Roger Fosdick

Ronald Allen Zacharski, Balsam Lake, Wis.

B.F.A. '73, University of Wisconsin. Degree: Doctor of Philosophy. November '93. Major: Computer and Information Sciences. Minor: Supporting Program. Thesis: A Discourse Pragmatics Model of Pitch Accent in English. Major Advisers: Maria Gini and Jeanette K. Gundel

Michelle Ann Zambinski, Mendota Heights

B.S. '80, M.S. '83, University of Minnesota. Degree: Doctor of Philosophy. January '94. Major: Environmental Health. Minor: Supporting Program. Thesis: The Prevalence of Autoantibodies in Laboratory Workers Handling Blood from Systemic Lupus Erythematosus Patients. Major Adviser: Jack S. Mandel

Richard Thomas Zera, Minnetonka

B.A. '75, M.S. '80, M.D. '80, University of Minnesota. Degree: Doctor of Philosophy in Surgery. January '94. Major: Surgery. Minor: Medicinal Chemistry. Thesis: The Use of Gamma-Glutamyl Transpeptidase for Labeling of Radiolabelled Agents. Major Adviser: Claude R. Hitchcock

Tinqing Zhang, Xian City, Shaanxi, China

M.A. '82, Northwestern College of Agriculture. Degree: Doctor of Philosophy. November '93. Major: Theriogenology. Minor: Supporting Program. Thesis: Reproduction-related Chromosomal Aberrations in Domestic Animals in the USA. Major Advisers: Bradley E. Seguin II and George R. Ruth

Yaling Zhou, Chengdu, Sichuan, China

B.S. '82, Sichuan Agricultural College; M.S. '84, Nanjing Agricultural University. Degree: Doctor of Philosophy. February '94. Major: Veterinary Microbiology. Minor: Supporting Program. Thesis: Cytokine Mediated Suppression of Macrophage Inflammatory Activity in Swine. Major Adviser: Michael P. Murtaugh

Baolong Zhu

B.S. '85, Shandong Agricultural University; M.S. '89, University of Arkansas. Degree: Doctor of Philosophy. December '93. Major: Plant Physiology. Minor: Supporting Program. Thesis: Isolation and Characterization of Abscisic Acid-responsive Genes During the Induction of Freezing Tolerance in Potato. Major Adviser: Pen Hsiang Li

Degrees Pending

The following individuals had not completed all the requirements for their degrees as of March 31, 1994. 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.

Professional Master's Degrees

Ibrahim Mume Adam

B.A. '90, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Michael Kenneth Anderson, Rochester

B.C.E. '82, University of Minnesota. Degree: Master of Civil Engineering. Major: Civil Engineering.

Veronica Ann Anderson

B.A. '90, University of Minnesota. Degree: Master of Landscape Architecture. Major: Landscape Architecture.

Ruben Aponte

B.A. '86, Hunter College. Degree: Master of Social Work. Major: Social Work.

Craig Richard Aune, Woodbury

B.B.A. '93, University of Texas. Degree: Master of Business Administration. Major: Business Administration.

Sarah Baker, Bemidji

B.S. '79, Bemidji State University. Degree: Master of Social Work. Major: Social Work.

Wendy Ann Bassett, Rochester

B.A. cum laude '90, Washington State University. Degree: Master of Social Work. Major: Social Work.

Michelle Elaine Bauerly, Sauke Rapids

B.A. '90, College of St. Benedict. Degree: Master of Business Administration. Major: Business Administration.

Joel Dean Becker, Marshall

B.A. '90, Augustana College. Degree: Master of Business Administration. Major: Business Administration.

Simon Arnold Charles Beeson, Great Britain

B.A. '83, University of Manchester. Degree: Master of Architecture. Major: Architecture.

Keri Lynn Bennerotte, Eden Prairie

B.B.A. summa cum laude '90, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Susan Patricia Blackwell, Tipp City, Ohio

B.F.A. '91, Wright State University. Degree: Master of Fine Arts. Major: Theatre Arts.

Lois Evelyn Thelen Buerman, Rogers

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Margaret Rosen Burton, Minneapolis

B.A. cum laude '88, University of Minnesota. Degree: Master of Music. Major: Music.

Leann Renee Byrnes, St. Paul

B.S.B. '86, University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

Carole Ann Carlson, Roseville

B.S.B. '89, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Kathleen Ann Caron, St. Paul

B.A. '87, College of St. Catherine. Degree: Master of Social Work. Major: Social Work.

Kelly Marie Carroll, Beaver Dam, Wis.

B.A. cum laude '89, Lawrence University. Degree: Master of Business Administration. Major: Business Administration.

John Joseph Christenson

B.S. '83, Marquette University. Degree: Master of Business Administration. Major: Business Administration.

Pamela Cleary Schwen, Minneapolis

B.A. '85, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Stephanie Sturdivant Cocci, Baltimore, Md.

B.A. '78, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Michelle Marie Conyers, Minneapolis

B.S. '84, University of Iowa. Degree: Master of Business Administration. Major: Business Administration.

Mary Elizabeth De Laitre, Minneapolis

B.A. '86, Brown University. Degree: Master of Architecture. Major: Architecture.

Mary Kathleen DeVore, Denver, Colo.

B.A. magna cum laude '82, University of Northern Colorado. Degree: Master of Social Work. Major: Social Work.

Wilford R. Deweese, Bemidji

B.S. cum laude '79. St. Cloud State University. Degree: Master of Business Taxation. Major: Business Taxation.

Bonnie Jean Drietz, Coon Rapids

B.A. with high distinction '92. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Steven Robert Egge, Minnetonka

B.S. '92. North Dakota State University. Degree: Master of Business Administration. Major: Business Administration.

Douglas Michael Eischens, Minneapolis

B.A. summa cum laude '88. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Todd Stephen Emerson, Burnsville

B.B.A. magna cum laude '91. University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Timothy G. Farley, St. Paul

B.A. '85. University of St. Thomas. Degree: Master of Business Taxation. Major: Business Taxation.

William A. Favnesi, Florence, Ala.

B.S.M.E. '86. Michigan Technological University. Degree: Master of Business Administration. Major: Business Administration.

Kristine Marie Fevig, Richfield

B.A. cum laude '90. St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Urs Markus Gassmann

Attorney '90. University of Bern. Degree: Master of Business Administration. Major: Business Administration.

Joanna Patricia Genovese-Cairns, St. Paul

B.A. '92. College of St. Catherine. Degree: Master of Social Work. Major: Social Work.

Dayton Darrel Gilbert

B.A. '74. Southwest Minnesota State College; M.A. '75. Columbia University. Degree: Master of Business Administration. Major: Business Administration.

Mary Susan Gillham

B.A. '83. College of St. Catherine. Degree: Master of Social Work. Major: Social Work.

Diane B. Glawe, Rockford, Ill.

B.A. '89. Macalester College. Degree: Master of Social Work. Major: Social Work.

Debra Jean Gondeck-Becker, Minneapolis

B.E.D. '91. University of Minnesota. Degree: Master of Architecture. Major: Architecture.

Jared Gordon, Evanston, Ill.

A.B. '84. University of Michigan; M.A. '86. New York University. Degree: Master of Business Administration. Major: Business Administration.

Terryl Ann Gordon, Galesburg, Ill.

B.A. '92. Metropolitan State University. Degree: Master of Social Work. Major: Social Work.

Harold William Gray, Sioux Falls, S.D.

B.F.A. '68. University of South Dakota. Degree: Master of Music. Major: Music.

Joan Byer Gudorf, Columbia, Mo.

B.A. cum laude '90. Trinity University. Degree: Master of Social Work. Major: Social Work.

Shawn David Gustafson

B.C.E. '87. University of Minnesota. Degree: Master of Civil Engineering. Major: Civil Engineering.

Matthew John Haertzen, Bemidji

B.A. with distinction '93. University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Jone Marie-Sterner Hafermann, Winsted

B.S.B. with high distinction '86. University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Gayle Francis Smith Hasledalen

B.S. with distinction '92. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Charvayia Fontelle Hawkins, New Orleans, La.

B.A. '90. Georgetown University. Degree: Master of Social Work. Major: Social Work.

Iris M. Heavy Runner, Browning, Mont.

B.S.W. '91. University of Kansas. Degree: Master of Social Work. Major: Social Work.

Mark Alan Hesse

B.A. '92. Carleton College. Degree: Master of Business Administration. Major: Business Administration.

Felicia J. Hicks, Wichita, Kan.

B.A. '91. Wichita State University. Degree: Master of Social Work. Major: Social Work.

Clifton Langreder Highman, Boulder, Colo.

B.A. '90. University of Colorado. Degree: Master of Business Administration. Major: Business Administration.

Karen Hoising Highness, Long Lake

B.A. magna cum laude '78. Concordia College; B.S.B. '84. University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

Janell E. Holter, Grand Forks, N.D.

B.S.S.W. '87. University of North Dakota. Degree: Master of Social Work. Major: Social Work.

Angela Doreen HoSang, Alexandria, Va.

B.A. '91. College of William & Mary. Degree: Master of Business Administration. Major: Business Administration.

Jennifer Ann Hudoba, New Brighton

B.M.E. '89. University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Deborah Lynn Ince, Lakeville

B.A. '85. Macalester College. Degree: Master of Business Administration. Major: Business Administration.

Marie Christine Jacobson, Baraga, Mich.

B.A. '92. University of Michigan. Degree: Master of Business Administration. Major: Business Administration.

Jay Paul Jasnoch

B.A. '87, St. Olaf College. Degree: Master of Architecture. Major: Architecture.

Ann Margaret Johnson, Wausau, Wis.

B.S. '86, University of Wisconsin. Degree: Master of Civil Engineering. Major: Civil Engineering.

Elizabeth Meriwether Johnson, Minneapolis

B.S.B. with distinction '88, University of Minnesota; B.A. '90, University of Colorado. Degree: Master of Business Taxation. Major: Business Taxation.

Sharon Toll Johnson

Degree: Master of Social Work. Major: Social Work.

Sherry Lynn Johnson

B.A. magna cum laude '84, Macalester College. Degree: Master of Business Administration. Major: Business Administration.

Christina Lynn Jordan, Apple Valley

B.S. '92, Cornell University. Degree: Master of Business Administration. Major: Business Administration.

Kumar Kannakutty

B.S. '92, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Janice Kay Kaspersen, Washburn, Wis.

B.A. '72, University of North Dakota. Degree: Master of Social Work. Major: Social Work.

Morarasmy Ke

B.G.S. '91, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Douglas Edward Keskey

B.Comp.Sc. '80, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

James Edward King, Madison, Wis.

B.S. '89, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Amy Lynn Klein

B.S. '92, University of Wisconsin. Degree: Master of Social Work. Major: Social Work.

Richard McDonald Knox, St. Paul

B.S. '86, Lewis and Clark College. Degree: Master of Business Administration. Major: Business Administration.

Craig Thomas Kornwolf, St. Paul

B.S.B.A. cum laude '93, Central Michigan University. Degree: Master of Business Administration. Major: Business Administration.

Mary Elaine Lamkin, Indianapolis, Ind.

B.S.W. '92, Indiana University. Degree: Master of Social Work. Major: Social Work.

Patricia Ann Lee, Edina

B.A. summa cum laude '87, Augsburg College. Degree: Master of Social Work. Major: Social Work.

Richard Lichieh Lee, San Francisco, Calif.

B.A. '91, University of California. Degree: Master of Business Administration. Major: Business Administration.

John Maurer Leuthold, Denver, Colo.

B.A. '90, Tufts University. Degree: Master of Business Administration. Major: Business Administration.

Rachel Sue Lipkin, Minneapolis

B.A. magna cum laude '80, Macalester College. Degree: Master of Social Work. Major: Social Work.

Shawn Marie Lofstrom, Simi Valley, Calif.

B.A. '82, Gustavus Adolphus College. Degree: Master of Business Administration. Major: Business Administration.

Melissa Lane Logan, Minneapolis

B.S.B. '85, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Todd Alan Loncorich, St. Cloud

B.A. '90, Gustavus Adolphus College. Degree: Master of Business Administration. Major: Business Administration.

Sarah Kristin Lund, Prior Lake

B.A. '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Enrique A. MacGregor, Mexico City, Mexico

B.S. '87, Texas A & M University. Degree: Master of Business Administration. Major: Business Administration.

Louis Michael Markert, Levittown, Pa.

B.A. '91, West Chester University. Degree: Master of Fine Arts. Major: Theatre Arts.

Lynn M. Marrs, Minneapolis

B.S. with high distinction '92, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Christine Mary Martin, Rochester

B.S.B. '93, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Sandra Geiser Martin, Wadena

B.A. '88, College of St. Benedict. Degree: Master of Business Administration. Major: Business Administration.

Rachelle Ann Mazumdar, Minneapolis

B.A. '87, Macalester College. Degree: Master of Business Administration. Major: Business Administration.

Carmita Jo McGlory, Minneapolis

B.S. '81, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Sarah A. Mealey, Bloomington

B.S.B.A. '87, Kansas State University. Degree: Master of Business Administration. Major: Business Administration.

Lisa Louise Medina, St. Paul

B.A. cum laude '90, University of St. Thomas. Degree: Master of Social Work. Major: Social Work.

David Lee Meissner, Rush City

B.M. '87, University of Minnesota. Degree: Master of Music. Major: Music.

Matthew Joseph Meyer Jr., Blaine

B.S.B. with high distinction '93, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Kurt Alan Miling

B.S.E.E. '86. Michigan Technological University. Degree: Master of Business Administration. Major: Business Administration.

Richard Joseph Miller

B.C.E. '87. University of Minnesota. Degree: Master of Civil Engineering. Major: Civil Engineering.

Reine Garland Moffett, Lapwai, Idaho

B.S. magna cum laude '92. Lewis Clark State College. Degree: Master of Business Administration. Major: Business Administration.

Megan L. Monahan

B.M. '91. Eastman School of Music. Degree: Master of Music. Major: Music.

Suzanne M. Moore, Duluth

B.M. '90. St. Olaf College. Degree: Master of Music. Major: Music.

Nadine Marie Morbete, Los Angeles, Calif.

B.A. '90. University of California. Degree: Master of Business Administration. Major: Business Administration.

Jeffrey Arnold Mudge, Colleyville, Tex.

B.B.A. '90. University of Texas. Degree: Master of Business Administration. Major: Business Administration.

Bryan David Nelson, Minnetonka

B.A. '87. Carroll College. Degree: Master of Business Administration. Major: Business Administration.

Bachyen Thi Nguyen

B.A. '92. College of St. Catherine. Degree: Master of Social Work. Major: Social Work.

Kirsten C. Odman, Minneapolis

B.A. '89. St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Kim Dwight Olson, Lake Mills, Iowa

B.A. '89. Buena Vista College. Degree: Master of Business Taxation. Major: Business Taxation.

Angela Onayiga, Chicago, Ill.

B.A. '81. St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Gwendolyn Onumah-Onikora

B.S. '82. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Martha Jean Osterberg

B.A. magna cum laude '78. Gustavus Adolphus College. Degree: Master of Social Work. Major: Social Work.

Jill Marie Ostrom, Freedom, Wis.

Degree: Master of Business Administration. Major: Business Administration.

Agnes Auko Otieno, Kisumu, Kenya

B.S. '79. M.Ed. '85. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Louise Marie Ouradnik, Minneapolis

B.A. '89. College of St. Catherine. Degree: Master of Social Work. Major: Social Work.

Mary Martha Overton

B.S. '88. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Dawn Mai Padmore, Wilmington, Del.

B.A. '88. University of Delaware; B.M. '90. University of Minnesota. Degree: Master of Music. Major: Music.

James David Palmer, Prior Lake

B.S. with honors '87. University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Ruth Marie Parriott, Shoreview

Degree: Master of Social Work. Major: Social Work.

Cynthia Noel Parson, Minneapolis

B.S. '91. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Matthew Alan Pawlowski, Watson Corners, Mich.

B.A. magna cum laude '88. Macalester College. Degree: Master of Fine Arts. Major: Art.

Eve L. Peckenpaugh

B.S. with high honor '78. Michigan State University. Degree: Master of Business Administration. Major: Business Administration.

John S. Peshorn, Lakeland

B.B.A. summa cum laude '86. University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Andrea A. Peterson, Chicago, Ill.

B.F.A. '89. The School of the Art Institute of Chicago. Degree: Master of Fine Arts. Major: Art.

Nancy Ellen Peterson

B.S.B. '81. University of Minnesota. Degree: Master of Business Taxation. Major: Business Taxation.

George Constantine Petros

B.A. '80. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Robert Charles Pieper, Milwaukee, Wis.

B.B.A. with distinction '89. University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Scott Allen Pierson, Mason City, Iowa

B.C.E. '88. University of Minnesota. Degree: Master of Civil Engineering. Major: Civil Engineering.

David Albert Prondzinski, Kenosha, Wis.

B.S. '90. University of Wisconsin. Degree: Master of Business Taxation. Major: Business Taxation.

Soo-Khoon Quek, Singapore

B.S. cum laude '92. University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Kent Rudeen, Minneapolis

B.A. '82. St. Olaf College. Degree: Master of Business Administration. Major: Business Administration.

Michael Allan Schneider, Milwaukee, Wis.

B.B.A. '91. University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Robbie Lane Schryver, Sioux Falls, S.D.

B.A. '92, University of Minnesota. Degree: Master of Planning. Major: Planning.

Robin Ann Share, San Jose, Calif.

B.A. '83, Yale College. Degree: Master of Business Administration. Major: Business Administration.

Peter F. Sheridan, Jersey City, N.J.

B.A. '88, Northwestern University. Degree: Master of Business Administration. Major: Business Administration.

Jouko Kari Sipila, Helsinki, Finland

B.S. summa cum laude '93, St. Cloud State. Degree: Master of Business Administration. Major: Business Administration.

John Arthur Sneesby, Menomonie, Wis.

B.A. '90, St. Paul Bible College. Degree: Master of Business Administration. Major: Business Administration.

John Bradley Sorenson, Plymouth

B.A. '89, Gustavus Adolphus College. Degree: Master of Business Administration. Major: Business Administration.

Elizabeth Jane Steeber, Minneapolis

B.A. '91, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Gabrielle Winona Strong, St. Paul

B.A. '86, Macalester College. Degree: Master of Social Work. Major: Social Work.

Craig B. Swanson, Minneapolis

B.A. '88, University of Vermont. Degree: Master of Business Administration. Major: Business Administration.

Susan Kay Swenson

B.S.B. with distinction '82, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Brian Anthony Theine, Oconomowoc, Wis.

B.A. with distinction '86, University of Wisconsin; B.A. '87, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Margaret Jean Thunder, Red Lake

B.A. '88, College of St. Scholastica. Degree: Master of Social Work. Major: Social Work.

Brenda Lee Todd-Bense, St. Peter

B.S. '83, Mankato State University. Degree: Master of Social Work. Major: Social Work.

Mark Steven Toogood, Roseville

B.A. '84, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Adriana Luisa Trevino, Monterrey, Mexico

Ingeniera Industrial '86, Monterrey Institute of Technology. Degree: Master of Business Administration. Major: Business Administration.

Richard Alan Tully, Montreal, Quebec, Canada

B.A. '81, McGill University. Degree: Master of Business Administration. Major: Business Administration.

Alphonse Anthony Veerkamp, Jr.

B.E.E. '90, University of Minnesota. Degree: Master of Electrical Engineering. Major: Electrical Engineering.

Kathleen Leigh Voge, Brooklyn Center

B.S.B. '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Anthony James Wallace, Lakeville

B.S. '84, Oklahoma State University. Degree: Master of Business Administration. Major: Business Administration.

Helen Tunson Washington

B.B.A. '77, University of Wisconsin. Degree: Master of Social Work. Major: Social Work.

Shelley Sue Wester, South Bend, Ind.

B.A. with distinction '91, Purdue University. Degree: Master of Social Work. Major: Social Work.

Amy Marie Wicklund, Duluth

A.B. cum laude '92, Harvard College. Degree: Master of Planning. Major: Planning.

Daniel J. Widdis, Spring Lake, Mich.

B.A. '87, Dickenson College. Degree: Master of Business Administration. Major: Business Administration.

Paul N. Wilmesmeier, Minneapolis

Degree: Master of Business Administration. Major: Business Administration.

Jennifer Jane Wilson

B.A. '89, University of Minnesota. Degree: Master of Social Work. Major: Social Work.

Mimi Wong-Shimizu

A.B. with distinction '88, Stanford University. Degree: Master of Business Administration. Major: Business Administration.

Hyong Suk Yeom

Degree: Master of Social Work. Major: Social Work.

Kam-Wah Herbert Yeung, Hong Kong

B.S. with highest distinction '85, M.S. '86, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Kenneth Lee Youngquist, New Hope

B.S. '73, Brigham Young University. Degree: Master of Business Administration. Major: Business Administration.

Frederick R. Zarembka, Neenah, Wis.

B.S. '84, University of Wisconsin. Degree: Master of Business Administration. Major: Business Administration.

Steven C. Zent, Roseville

B.A. '91, Hamline University. Degree: Master of Social Work. Major: Social Work.

Song Xin Zhang

B.A. '86, Sichuan Institute of Foreign Languages. Degree: Master of Social Work. Major: Social Work.

Professional Master's Degrees

University of Minnesota, Duluth

Brian D. Asmus, Duluth

B.S. '79, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Nancy K. Cecil, DeSmet, S.D.

B.S. '92, University of South Dakota. Degree: Master of Social Work. Major: Social Work.

Penny Jane Dieryck, Duluth

B.A. '84, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Ann Woods Doucette, Duluth

B.Acct. '80, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Heidi J. Edison, Brookings, S.D.

B.S.W. '87, Moorhead State University. Degree: Master of Social Work. Major: Social Work.

Janice Kay Kasperon, Washburn, Wis.

B.A. '72, University of North Dakota. Degree: Master of Social Work. Major: Social Work.

Mark Kniefel, Eveleth

B.F.A. magna cum laude '91, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Dana LeRoy Lofgren, St. Cloud

B.S. cum laude '91, St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Alyson Christine McGee, Minneapolis

B.S. magna cum laude '92, St. Cloud State University. Degree: Master of Social Work. Major: Social Work.

Monica Leigh Roth, Iowa City, Iowa

B.A. '90, University of Iowa. Degree: Master of Social Work. Major: Social Work.

Timothy Richard Vienneau, Duluth

B.A. '86, University of Minnesota. Degree: Master of Business Administration. Major: Business Administration.

Master of Science

Imad Said Abdul-Khalek, Majdelbaana, Lebanon

B.A.E.M. '92, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Adeiran Babatunde Ajao, Lagos, Nigeria

B.A. '85, Cornell College; B.S. '92, University of Minnesota. Degree: Master of Science. Major: Food Science.

Naser A.O. Al-Saleh, Saudi Arabia

B.Eng. '88, King Saud University. Degree: Master of Science in Industrial Engineering. Major: Industrial Engineering.

Irshad Ul Haq Ansar, Gujrat, Punjab, Pakistan

Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Steven Lee Baker

B.S. cum laude '92, Mankato State University. Degree: Master of Science. Major: Nursing.

Jana Kaye Mrkonich Balfany, Hopkins

B.S.N. '85, St. Olaf College. Degree: Master of Science. Major: Nursing.

Brian Joseph Barth, Stillwater

B.S. with distinction '80, University of Minnesota. Degree: Master of Science. Major: Food Science.

Paul Melvin Bergson, Duluth

Degree: Master of Science. Major: Civil Engineering.

Todd A. Blomstrom, Oregon, Wis.

B.A.E.M. '92, University of Minnesota. Degree: Master of Science. Major: Civil Engineering.

Julia L. Bohnen, Colfax, Wis.

B.S. '87, University of Wisconsin. Degree: Master of Science. Major: Horticulture.

Suheil M. Boutros, Aleppo, Syria

Degree: Master of Science. Major: Dentistry.

Jan Utz Burnes

B.A. '79, College of St. Catherine. Degree: Master of Science. Major: Nursing.

Charles A. Butler, Stanley, N.Y.

B.S. '90, Michigan State University. Degree: Master of Science. Major: Forestry.

Mark E. Case, Huntington, Ind.

B.S.M.E. magna cum laude '88, Rose-Hulman Institute of Technology. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Melissa Gene Christie, Brookings, S.D.

B.S.E.E. with honor '92, South Dakota State University. Degree: Master of Science. Major: Biomedical Engineering.

Sarah A. Ccchrane, Eugene, Ore.

B.A. '80, College of St. Scholastica. Degree: Master of Science. Major: Nursing.

Paul Eric Dahlen, Detroit Lakes

B.S.E.E. '92, B.S.E.P. '92, summa cum laude '92, University of North Dakota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Katrien David, Tielt, Belgium

Ingenier '92, Katholieke Universiteit te Leuven. Degree: Master of Science. Major: Food Science.

Todd E. DeFor, Bloomington

B.A. cum laude '91, St. Olaf College. Degree: Master of Science. Major: Biostatistics.

Satvir S. Deol, Taylor, Mich.

B.S.E.E. magna cum laude '90, Michigan Technological University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.

Cynthia Schroeder Drake, West St. Paul

B.A. '81, University of Minnesota. Degree: Master of Science. Major: Civil Engineering.

Jathan Darius Edwards, Staples

B.A. cum laude '85, Hamline University. Degree: Master of Science. Major: Physics.

Sarah Louise Emery, St. Joseph, Mich.

B.S. with honor '85, Michigan State University. Degree: Master of Science. Major: Forestry.

Jei-Yin Fang, Taitung, Taiwan

B.S. '90, National Taiwan University. Degree: Master of Science. Major: Biostatistics.

Kianoosh Farbakhsh

B.S. '79, University of Tehran Polytechnic. Degree: Master of Science. Major: Health Informatics.

Gary Charles Ferguson

B.S. '79, St. Joseph's University. Degree: Master of Science. Major: Dentistry.

Todd M. Gabe, Newark, Ohio

B.A. '92, Furman University. Degree: Master of Science. Major: Agricultural and Applied Economics.

Barbara Gacek, Minneapolis

B.M.E. '92, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Joseph Paul Gathman

Degree: Master of Science. Major: Forestry.

Katherine Anne Golden

B.S.Eng. '91, University of Iowa. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Karen Marie Gutierrez, Maple Grove

B.A. '85, Gustavus Adolphus College. Degree: Master of Science. Major: Nursing.

Donald E. Habel, Kenosha, Wis.

B.S. '88, University of Wisconsin. Degree: Master of Science. Major: Cell and Developmental Biology.

Christopher Joeseph Hammerstrand, Williams Bay, Wis.

B.A.E.M. cum laude '92, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Sharon Rose Hasslen, Edina

B.S. '82, University of Minnesota. Degree: Master of Science. Major: Clinical Laboratory Science.

Kendell B. Hellewell, Heyburn, Idaho

B.S. '91, Brigham Young University. Degree: Master of Science. Major: Plant Breeding.

Ranae Kaylyn Hendrickson, Rochester

B.S.N. '88, Moorhead State University. Degree: Master of Science. Major: Nursing.

Douglas Stephen Hine, Grand Ledge, Mich.

B.S. '92, Michigan State University. Degree: Master of Science. Major: Biomedical Engineering.

Brent P. Hoiness, Rushford

B.A. summa cum laude '92, St. Olaf College. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.

Milan Hruby, Czech Republic

Engineer '90, University of Agriculture in Prague. Degree: Master of Science. Major: Animal Science.

Shouyan Hua, Shanghai, China

B.S. '83, Shanghai Jiao Tong University. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Shouyan Hua, Shanghai, China

B.S. '83, Shanghai Jiao Tong University. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.

Anne Marie Ingvoldstad

B.A. '85, University of St. Thomas. Degree: Master of Science. Major: Design, Housing, and Apparel.

Mary Elizabeth Jackson, White Bear Lake

B.S. '85, University of Minnesota. Degree: Master of Science. Major: Forestry.

Bradley Joseph Johnson

B.S.Ag. with honor '90, South Dakota State University. Degree: Master of Science. Major: Animal Science.

Kenton Mark Johnson, Minneapolis

B.A. '85, University of Mississippi; D.D.S. '90, University of Tennessee. Degree: Master of Science. Major: Dentistry.

Maureen R.P. Johnson

B.S. '86, University of Iowa. Degree: Master of Science. Major: Scientific & Technical Communication.

Marcella Diana Forest Jones

B.M. magna cum laude '92, University of Minnesota. Degree: Master of Science. Major: Mathematics.

Christopher G. Kasic, Ann Arbor, Mich.

A.B. '89, University of Michigan. Degree: Master of Science. Major: Scientific & Technical Communication.

- Jill A. Kerber, Emmetsburg, Iowa**
B.S. with honors '91, Cornell University. Degree: Master of Science. Major: Animal Science.
- Jeffrey Andrew Kielb, Brooklyn Center**
B.C.E. with high distinction '93, University of Minnesota. Degree: Master of Science. Major: Civil Engineering.
- Patricia Anne Kingston, New Richland**
B.S. '71, College of St. Catherine; D.D.S. '78, University of Minnesota. Degree: Master of Science. Major: Dentistry.
- Allen N. Kramer, Eau Claire, Wis.**
B.E.E. '87, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- John Anthony Krueger, Brookfield, Wis.**
B.S.Eng. '92, University of Wisconsin. Degree: Master of Science. Major: Biomedical Engineering.
- Laurie Ann Latimer, Plymouth**
Degree: Master of Science. Major: Health Informatics.
- Ronald Bruce Leaf, White Bear Lake**
B.Ag.E. '92, University of Minnesota. Degree: Master of Science in Agricultural Engineering. Major: Agricultural Engineering.
- Siew-Teh Lee**
B.S. '91, National Taiwan University. Degree: Master of Science. Major: Clinical Laboratory Science.
- Tor Ove Leiknes, Stavanger, Norway**
Cand. Mag. '82, University of Bergen. Degree: Master of Science. Major: Civil Engineering.
- Chun Pin Lin, Taipei, Taiwan**
B.D.S. '80, National Taiwan University. Degree: Master of Science. Major: Biophysical Sciences.
- Tsang-Puu Lin**
B.S. '87, Chung-Yuan Christian University; M.S. '89, National Tsing Hua University. Degree: Master of Science. Major: Computer and Information Sciences.
- Pocheng Liu, Taiwan**
Degree: Master of Science. Major: Clinical Laboratory Science.
- Jean Ellen Lufburrow**
B.S. magna cum laude '81, University of Connecticut; M.S. '83, University of Illinois. Degree: Master of Science. Major: Conservation Biology.
- Kien Ly, Minneapolis**
B.E.E. '85, University of Minnesota. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- Dong Ma, Jinan, Shandong, China**
B.Eng. '89, Tianjin University. Degree: Master of Science in Civil Engineering. Major: Civil Engineering.
- Mary Diane Mackenbun, Minneapolis**
B.A.N. '80, College of St. Catherine. Degree: Master of Science. Major: Nursing.
- Bogdan Madzar, Sarajevo, Yugoslavia**
B.S. '91, University of Sarajevo. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- Kathleen Ar n Mallery, Minneapolis**
B.S.C.E.E. '87, Purdue University. Degree: Master of Science. Major: Computer and Information Sciences.
- Anne Sylvie Maumary Gremaud, Neuchatep, Switzerland**
Licence '87, Universite de Neuchatel. Degree: Master of Science. Major: Statistics.
- Bradley B. Nosbush, Fairfax**
B.S. with distinction '91, University of Minnesota. Degree: Master of Science. Major: Animal Science.
- Gavin Bruce Patterson, Livingston, Scotland**
B.Sc. '89, University of Stirling. Degree: Master of Science. Major: Soil Science.
- Thomas Michael Paulson**
B.A. '88, University of Wisconsin. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.
- Terese A. Petersen, Maplewood**
B.A. magna cum laude '92, University of St. Thomas. Degree: Master of Science. Major: Biostatistics.
- Wai-Sing Poon, Hong Kong**
B.M.E. summa cum laude '90, University of Minnesota. Degree: Master of Science in Mechanical Engineering. Major: Mechanical Engineering.
- Gordon Walter Priebe, Maple Grove**
B.S. with honor '81, Michigan State University. Degree: Master of Science in Electrical Engineering. Major: Electrical Engineering.
- Yuan Qin, Chengdu, Sichuann, China**
B.S. '85, Northwestern Polytechnical University. Degree: Master of Science. Major: Biostatistics.
- Jan Raven, St. Paul**
B.A magna cum laude '87, Carleton College. Degree: Master of Science. Major: Wildlife Conservation.
- Jose A. Rivera, Salvatierra, Mexico**
Ing.Ind.Alim. '90, ITESM. Degree: Master of Science. Major: Food Science.
- Karen Lee Savona, Parlin, N.J.**
B.S. with honors '92, Rutgers. Degree: Master of Science. Major: Genetics.
- Jeffrey Ronald Schaefer, Menomonee Falls, Wis.**
B.S. '89, Massachusetts Institute of Technology. Degree: Master of Science. Major: Mathematics.
- Liesl Renee Schindler, Minneapolis**
B.S. cum laude '89, University of Wisconsin. Degree: Master of Science. Major: Chemistry.
- Timothy Donald Schleicher, Shakopee**
B.S. '92, University of Minnesota. Degree: Master of Science. Major: Forestry.

Jianfeng Shao

B.S. '89, University of Science & Technology of China.
Degree: Master of Science. Major: Computer and
Information Sciences.

Jianfeng Shao

B.S. '89, University of Science & Technology of China.
Degree: Master of Science in Electrical Engineering.
Major: Electrical Engineering.

Gary Richard Simons, New Brighton

B.M.E. with distinction '86, University of Minnesota.
Degree: Master of Science in Mechanical Engineering.
Major: Mechanical Engineering.

Karen Sandra-Meyer Stewart, Rochester

B.S.N. '79, University of Michigan. Degree: Master of
Science. Major: Nursing.

Ronald Lee Stone, St. Paul

B.S. '89, Michigan Technological University. Degree:
Master of Science. Major: Scientific & Technical
Communication.

**Lautaro Federico Valencia, Valencia, Cakabobo,
Venezuela**

Ing.Mec. '78, Magister Admin. Empresas '89,
Universidad de Carabobo. Degree: Master of Science.
Major: Civil Engineering.

Karen Jane Van Dam

B.S. '91, University of Minnesota. Degree: Master of
Science. Major: Food Science.

Brian Michael Van Dorn, Waterloo, Iowa

B.S. '91, University of Chicago. Degree: Master of
Science. Major: Statistics.

George Vasilakis

Degree: Master of Science. Major: Civil Engineering.

Grace Ann Wang, Seattle, Wash.

B.S. '91, University of California. Degree: Master of
Science. Major: Forestry.

Jingjy Wang, Taiwan

B.S.N. magna cum laude '92, University of Dubuque.
Degree: Master of Science. Major: Nursing.

Nan Wang, Beijing, China

B.S. '83, Zhengzhou Institute of Technology;
B.Comp.Sc. with high distinction '92, University of
Minnesota. Degree: Master of Science. Major: Computer
and Information Sciences.

Mary Ann Warne

B.S. '74, South Dakota State University. Degree: Master
of Science. Major: Nursing.

Susan L. Webber, Rockford, Ill.

B.S. magna cum laude '91, Western Illinois University.
Degree: Master of Science. Major: Nutrition.

Barry Tyler Wilson, Minneapolis

B.A. '88, Louisiana State University. Degree: Master of
Science. Major: Forestry.

David M. Wilson, Muskegon, Mich.

B.S. '91, University of Michigan. Degree: Master of
Science. Major: Forestry.

Vincent John Winstead, Crystal

B.S.E.E. cum laude '92, Marquette University. Degree:
Master of Science in Electrical Engineering. Major:
Electrical Engineering.

Colleen Marie Wurm, Anoka

B.A. '90, College of St. Catherine. Degree: Master of
Science. Major: Nutrition.

Hui Xie, Wuxi, Jiangsu, China

B.S. '90, Wuxi Institute of Light Industry. Degree:
Master of Science. Major: Civil Engineering.

Ping Yao, Beijing, China

B.Eng. '84, M.Eng. '88, Northern Jiatong University.
Degree: Master of Science. Major: Civil Engineering.

Seungkwon You, Seoul, Korea

B.Ag. '89, Korea University. Degree: Master of Science.
Major: Animal Science.

Ling Yu

B.S. '84, Beijing University of Posts and
Telecommunications. Degree: Master of Science. Major:
Civil Engineering.

Theresa Mary Zeman

B.S.N. '87, University of Texas. Degree: Master of
Science. Major: Nursing.

Yan Zhang, Beijing, China

B.A. '86, Peking University. Degree: Master of Science.
Major: Biostatistics.

Zhonglan Zhang, China

B.Eng. '90, Tsinghua University. Degree: Master of
Science. Major: Civil Engineering.

Rongze Zhao

M.S. '89, University of Connecticut. Degree: Master of
Science. Major: Statistics.

Debbie M. Zollinger, St. Paul

B.A. cum laude '90, St. Olaf College. Degree: Master of
Science. Major: Mathematics.

Master of Science

University of Minnesota, Duluth

John Peter Caouette, Minneapolis

B.Math. '87. University of Minnesota. Degree: Master of Science. Major: Applied and Computational Mathematics.

Jian Chen, Shanghai, China

B.A. '92. University of Minnesota. Degree: Master of Science. Major: Applied and Computational Mathematics.

Lynda B. Hoffmaster, Spokane, Wash.

B.A. '91. Gonzaga University. Degree: Master of Science. Major: Applied and Computational Mathematics.

Parul Jain, Bombay, India

B.Eng. '92. University of Bombay. Degree: Master of Science. Major: Computer Science.

Jennifer A. Kohn, Duluth

B.S. magna cum laude '92. University of Minnesota. Degree: Master of Science. Major: Applied and Computational Mathematics.

Carol Anne Willis Pearson, Prior Lake

B.S. with high distinction '90. University of Minnesota. Degree: Master of Science. Major: Biology.

Oksana Piterman

B.A. '86. Alfred University. Degree: Master of Science. Major: Biology.

Edward Matthew Shaughnessy, Westport, Conn.

B.S. '88. Fairfield University. Degree: Master of Science. Major: Physics.

Xiang Wang, Shanghai, China

Degree: Master of Science. Major: Chemistry.

Manjari Devi Yalavarthy, Guntur Andhra Pradesh, India

B.Tech. '91. Andhra University. Degree: Master of Science. Major: Computer Science.

Master of Arts

Rachel Ann Ackland

B.A. '66. Augustana College. Degree: Master of Arts. Major: American Studies.

Virginia Neal Allen, St. Paul

Degree: Master of Arts. Major: Educational Psychology.

R. Barry Anderson, Excelsior

B.A. '85. St. Olaf College; M.A. '88. Luther Northwestern Theological Seminary. Degree: Master of Arts. Major: Philosophy.

Russell Eugene Arent, St. Paul

B.S.B. with distinction '87. University of Minnesota. Degree: Master of Arts. Major: English as a Second Language.

Pauline Ann Arpin, Green Bay, Wis.

B.S. '92. University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Kent Einar Bakken, Minneapolis

B.A. cum laude '84. Moorhead State University. Degree: Master of Arts. Major: Ancient Studies.

Suzanne Kaye Bauer, Minneapolis

B.S. '92. University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Debra Sue Bellman, Stillwater

B.A. '86. University of Minnesota. Degree: Master of Arts. Major: Speech-Communication.

Mary Elizabeth Bergman

B.A. '85. University of Minnesota. Degree: Master of Arts. Major: Industrial Relations.

Donald Jose Brunnuell, St. Paul

B.A. magna cum laude '74. Lawrence University. Degree: Master of Arts. Major: Philosophy.

Sau Man Chu

B.S. with distinction '91. University of Minnesota. Degree: Master of Arts. Major: Design, Housing, and Apparel.

Susan Norton Dart, Ogden, Utah

B.A. summa cum laude '91. Weber State University. Degree: Master of Arts. Major: Communication Disorders.

Denise Michelle Douglas, Wadsworth, Ohio

Degree: Master of Arts. Major: Educational Administration.

Jennifer Lea Ekblad, Red Wing

B.A. summa cum laude '92. Macalester College. Degree: Master of Arts. Major: Educational Psychology.

Nancy Jean Erickson

B.S. '69. Mankato State College. Degree: Master of Arts. Major: Communication Disorders.

Anna-Lisa E. Falconer

B.A. '83. B.Ed. '90. University of Calgary. Degree: Master of Arts. Major: Business and Marketing Education.

Brenda Marie Fijas, Depew, N.Y.

B.S.Ed. '92. State University College. Degree: Master of Arts. Major: Communication Disorders.

Waliya Flowers

B.A. '83. University of Minnesota. Degree: Master of Arts. Major: Educational Administration.

Telma Sueli Feitosa Freitas

Bacharel '87, Licenciado '90, Universidade Federal do Para. Degree: Master of Arts. Major: Mass Communication.

Kim Marie Friedges, New Market

B.A. '88, University of St. Thomas. Degree: Master of Arts. Major: Communication Disorders.

Elizabeth A. Gaipa, Stamford, Conn.

B.A. '86, University of Chicago. Degree: Master of Arts. Major: Educational Psychology.

Michael David Galegher, Rochester

B.A. with high distinction '72, University of Minnesota. Degree: Master of Arts. Major: English.

Yunfei Ge, China

B.S. '90, Shandong University. Degree: Master of Arts. Major: Economics.

Louise Guenther, Belo Horizonte, Brazil

Degree: Master of Arts. Major: History.

Teresa Mary Halloran, Minneapolis

B.A. '83, University of Minnesota. Degree: Master of Arts. Major: Anthropology.

Judy G. Hanks, Austin, Tex.

Degree: Master of Arts. Major: Public Affairs.

Janet Kristine Hansen, St. Charles, Ill.

B.A. with high distinction '92, Indiana University. Degree: Master of Arts. Major: Communication Disorders.

Paisley Jane Harris, Minneapolis

B.A. magna cum laude '85, Macalester College; J.D. '89, University of Washington. Degree: Master of Arts. Major: History.

Liang-Tsu Hsieh, Taitung, Taiwan

B.A. '87, M.A. '89, Chinese Culture University. Degree: Master of Arts. Major: Education.

Laura Diane Idzik, St. Paul

B.A. '85, Beloit College. Degree: Master of Arts. Major: Education.

Anne Darlein Jett

B.A. with honors '88, University of Louisville. Degree: Master of Arts. Major: Mass Communication.

Christine Lee Johnson, Minneapolis

B.A. '86, College of St. Catherine. Degree: Master of Arts. Major: Business Education.

David Wayne Johnson, Minneapolis

B.A. cum laude '90, Hamline University. Degree: Master of Arts. Major: Industrial Relations.

Michael David Johnson, St. Paul

B.S. '88, University of Minnesota. Degree: Master of Arts. Major: Educational Administration.

Michelle Kristin Johnson

B.A. '92, University of Minnesota. Degree: Master of Arts. Major: Family Social Science.

Jean L. Keiser

B.A. cum laude '84, Hamline University. Degree: Master of Arts. Major: Industrial Relations.

Andrew Fannin Kincaid

Degree: Master of Arts. Major: Comparative Studies in Discourse and Society.

Lolita King, Chicago, Ill.

Degree: Master of Arts. Major: Educational Psychology.

Clara Kathryn Klingaman, St. Paul

B.S. '73, University of Wisconsin. Degree: Master of Arts. Major: Education.

Alice R. Klingener, St. Paul

B.A. cum laude '86, University of Massachusetts. Degree: Master of Arts. Major: Germanic Philology.

Stacy Jean Kuebelbeck, St. Joseph

B.A. summa cum laude '91, College of St. Benedict. Degree: Master of Arts. Major: Anthropology.

Kimberly Bernice Kuehn, Northfield

B.A. '85, University of Minnesota. Degree: Master of Arts. Major: English as a Second Language.

Shuk Ching Helen Lam, Hong Kong

Honours '87, Hong Kong Baptist College. Degree: Master of Arts. Major: Mass Communication.

Yaling Lang, Taiwan

B.A. '92, National Chengchi University. Degree: Master of Arts. Major: Mass Communication.

Debra Jean Lewis, Blaine

B.A. '91, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Chung-En Lin, Taipei, Taiwan

B.Ed. '90, National Changhua University of Education. Degree: Master of Arts. Major: Educational Psychology.

Julie Kay Lindholm, St. Paul

Degree: Master of Arts. Major: Social and Philosophical Foundations of Education.

Brenda Diane Lortie

B.S.B. '87, University of Minnesota. Degree: Master of Arts. Major: Industrial Relations.

Roxanne Dee Markoff, Minneapolis

B.A. '69, University of Minnesota. Degree: Master of Arts. Major: Religious Studies.

Jennifer Jean McGee, New Gloucester, Me.

B.A. '91, College of Wooster. Degree: Master of Arts. Major: Speech-Communication.

Monika Mehta, New Delhi, India

B.A. summa cum laude '91, St. Olaf College. Degree: Master of Arts. Major: Comparative Literature.

Vachel Walter Miller, Dickison, N.D.

B.A. summa cum laude '91, St. John's University. Degree: Master of Arts. Major: Educational Administration.

Suzette M. Mineau, West Allis, Wis.

B.S. with honors '92, University of Wisconsin. Degree: Master of Arts. Major: Communication Disorders.

Negar Mottahedeh

A.B. '90, Mount Holyoke College. Degree: Master of Arts. Major: Comparative Studies in Discourse and Society.

Ann Margaret Nelson, Ellsworth, Wis.

B.A. magna cum laude '91, University of Wisconsin. Degree: Master of Arts. Major: Communication Disorders.

Darlene Faye Olson, Hastings

Degree: Master of Arts. Major: Theatre Arts.

Marsha Gail Olson, Cambridge

B.A. '86, University of Minnesota. Degree: Master of Arts. Major: Religious Studies.

Krista Denney Petersen

B.A. with honors '89, University of Montana. Degree: Master of Arts. Major: Communication Disorders.

Gregg Lauren Peterson, Minneapolis

B.A. '89, St. Olaf College. Degree: Master of Arts. Major: Industrial Relations.

Helena Paula Pratas Jorge, Coimbra, Portugal

Licenciatura '89, University de Coimbra. Degree: Master of Arts. Major: Mass Communication.

Barbara Tang Pucel

B.A. cum laude '72, Augsburg College. Degree: Master of Arts. Major: Design, Housing, and Apparel.

Jill Marie Reinerio, Mequon, Wis.

B.A. '92, University of Wisconsin. Degree: Master of Arts. Major: Education.

Frederick Ray Royce, Ferrisburgh, Vt.

B.A. '76, University of Vermont. Degree: Master of Arts. Major: Ancient Studies.

Kirk H. Samson, Madison, Wis.

B.A. with honors '92, University of Wisconsin. Degree: Master of Arts. Major: Scandinavian Studies.

Janet M. Sarver, Centerville, Iowa

B.A. with high distinction '88, University of Iowa. Degree: Master of Arts. Major: Family Social Science.

Rebecca Marie Schacht, Rapid City, S.D.

B.A. '92, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Patricia Anne Schroeder, River Falls, Wis.

B.A. with distinction '89, University of Wisconsin. Degree: Master of Arts. Major: Hispanic Literature.

Elizabeth Ragen Shannon, Minneapolis

B.A. cum laude '72, University of Massachusetts. Degree: Master of Arts. Major: English.

Charles Robert Sheaffer, Seattle, Wash.

B.A. '86, University of Washington. Degree: Master of Arts. Major: English.

Mary Susan Shulze, Edina

B.A. with distinction '92, University of Wisconsin. Degree: Master of Arts. Major: Education.

Sandra Fern Sibley Gerick, Rochester

B.A. '88, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.

Eric Russell Simonson

B.S. '89, B.A. '89, Iowa State University of Science & Technology. Degree: Master of Arts. Major: Philosophy.

Lori F. Spangler, Morgan

B.S. '80, Mankato State University. Degree: Master of Arts. Major: Education.

James Patrick Tobias Steckart, Green Bay, Wis.

B.S. '91, University of Wisconsin. Degree: Master of Arts. Major: Recreation, Park, and Leisure Studies.

Sarah Christine Stranberg, Minneapolis

B.S. '92, Northwestern University. Degree: Master of Arts. Major: Communication Disorders.

Sharon Adrienne Sugden, Neptune Beach, Fla.

B.A. '89, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.

Richard James Sullivan, Minneapolis

Degree: Master of Arts. Major: Educational Psychology.

Sandy Swan

B.S. cum laude '89, Western Illinois University. Degree: Master of Arts. Major: Home Economics Education.

Sharon Elizabeth tenBroeke, Minneapolis

B.A. magna cum laude '88, St. Olaf College. Degree: Master of Arts. Major: Educational Psychology.

Brian Anthony Theine, Oconomowoc, Wis.

B.A. with distinction '86, University of Wisconsin; B.A. '87, University of Minnesota. Degree: Master of Arts. Major: Public Affairs.

Anton Steven Treuer, Bemidji

A.B. '91, Princeton University. Degree: Master of Arts. Major: History.

Karen Y. Turner, Rochester, N.Y.

B.A. '92, State University of New York. Degree: Master of Arts. Major: Educational Psychology.

Sharon Rice Vaughan

Degree: Master of Arts. Major: American Studies.

Zhenyu Wang

B.S. '82, M.S. '85, Dalian Institute of Technology. Degree: Master of Arts. Major: Economics.

Anne Elisabeth White, Minneapolis

B.S. '91, University of Minnesota. Degree: Master of Arts. Major: Education.

Fae Helen Wilson, St. Paul

B.A. '92, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Karen A. Wilson, Columbia Heights

B.S. magna cum laude '91, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Melissa Helene Hadrit Woehrle, Woodbury

B.A. magna cum laude '91, University of Minnesota. Degree: Master of Arts. Major: Sociology.

Ann Louise Wolverton, Roseville

B.S. cum laude '66, Mankato State College. Degree: Master of Arts. Major: Communication Disorders.

Kelly Leanne Wray

Degree: Master of Arts. Major: Mass Communication.

Erika M. Wright, Birmingham, Ala.

B.S. '91, University of Alabama. Degree: Master of Arts. Major: Public Affairs.

Xiaoyang Yu, China

B.Law '90, Xiamen University. Degree: Master of Arts. Major: Mass Communication.

Robert Paul Zbikowski, Fridley

B.E.E. '89, University of Minnesota. Degree: Master of Arts. Major: Educational Administration.

Yongping Zhu, Xian, Shaanxi, China

B.A. '82, M.A. '87, Shaanxi Teachers University. Degree: Master of Arts. Major: Chinese.

Megan Elizabeth Rubiner Zinn, West Bloomfield, Mich.

A.B. '89, University of Michigan. Degree: Master of Arts. Major: American Studies.

Master of Arts

University of Minnesota, Duluth

Michelle Diane Brezowski, Thunder Bay, Ontario, Canada

B.S. honours '90, Lakehead University. Degree: Master of Arts. Major: Communication Disorders.

Amy Ruth Brown-Holappa, Duluth

B.S. '92, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Christine Anne Davis, Leask, Saskatchewan, Canada

B.S.Ed. '92, Minot State University. Degree: Master of Arts. Major: Communication Disorders.

John R. Dean, Provo, Utah

B.A. '92, Brigham Young University. Degree: Master of Arts. Major: English.

Laura Kay Greenblat, Saskatoon, Canada

B.S.Ed. '92, Minot State University. Degree: Master of Arts. Major: Communication Disorders.

Sue Silker Kanz

B.S. with distinction '78, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.

Jodine Elaine Loucks, Melita, Manitoba, Canada

Degree: Master of Arts. Major: Communication Disorders.

Suzanne Tracy Miller, Petersfield, Manitoba, Canada

B.A. '91, University of North Dakota. Degree: Master of Arts. Major: Communication Disorders.

Scott James Nielsen, Duluth

B.S. '92, University of Wisconsin. Degree: Master of Arts. Major: Educational Psychology.

Merritt Shay O'Brien, Richfield

B.A. '92, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Darrell O'Day, Duluth

B.M. magna cum laude '91, University of Minnesota. Degree: Master of Arts. Major: Education-Music.

Sergei Vasilievich Pakhomov, Petrozavodsk, Kavelia, Russia

Diploma '92, Karelian State Ped. Institute. Degree: Master of Arts. Major: English.

Caron Louise Plowman, Weyburn, Saskatchewan, Canada

B.S.Ed. '92, Minot State University. Degree: Master of Arts. Major: Communication Disorders.

Kristine Lynn Prystanski, Thunder Bay, Ontario, Canada

B.A. '91, B.Ed. '91, Lakehead University. Degree: Master of Arts. Major: Communication Disorders.

Kathleen Marie Rennan

B.A. '91, Gustavus Adolphus College. Degree: Master of Arts. Major: Educational Psychology.

Laura Jane Saunders, Thunder Bay, Ontario, Canada

B.Ed. '89, University of Windsor; B.Mus.Hon. '88, University of Western Ontario. Degree: Master of Arts. Major: Education-Music.

David Lee Smith, Siren, Wis.

B.S. '77, St. Cloud State College. Degree: Master of Arts. Major: Art.

Katherine F. Spencer, Duluth

B.A.S. magna cum laude '92, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Mary Jean Stevens, Barnum

B.A.S. cum laude '92, University of Minnesota. Degree: Master of Arts. Major: Communication Disorders.

Gerald George Torvund, Duluth

B.A. '86, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.

Maureen Fay Usick, Erickson, Manitoba, Canada

Degree: Master of Arts. Major: Communication Disorders.

Lisa Lynn Walter, MooseJaw, Saskatchewan, Canada
B.S.Ed. '92, Minot State University. Degree: Master of Arts. Major: Communication Disorders.

Laura Jean Weinzetl, New Hope
B.A. '92, University of Minnesota. Degree: Master of Arts. Major: Educational Psychology.

Michelle Annette Wood, Minneapolis
B.A. cum laude '88, St. Olaf College. Degree: Master of Arts. Major: Educational Psychology.

Kathleen Therese Wright, Duluth
B.A. '88, University of Minnesota. Degree: Master of Arts. Major: Education-Music.

Doctor of Education

Marcia Anne Baldanza, Roswell, Ga.
B.S. '86, Syracuse University; M.Ed. '86, University of Texas. Degree: Doctor of Education. Major: Educational Administration.

Doctor of Musical Arts

Stephen M. Gabrielsen, Minneapolis
B.A. cum laude '63, Augsburg College; M.A. '66, University of Minnesota. Degree: Doctor of Musical Arts. Major: Music.

Carol Brixius McNamara, Minneapolis
B.M.Ed. magna cum laude '66, Viterbo College; M.F.A. '84, University of Minnesota. Degree: Doctor of Musical Arts. Major: Music.

Doctor of Philosophy

Tabare Eduardo Abadie, Montevideo, Uruguay
Ingeniero Agronomo, '82, Universidad de la Republica; M.S. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Plant Breeding.

Young Sik Ahn, Seoul, Korea
M.S. '89, Chicago State University. Degree: Doctor of Philosophy. Major: Education.

Marjorie Carol Allison, Monmouth, Ill.
B.A. cum laude '85, St. Olaf College. Degree: Doctor of Philosophy. Major: English.

Debra Ann Allyn, Red Wing
B.S. '77, St. Cloud State University; M.S. '82, St. Cloud State University. Degree: Doctor of Philosophy. Major: Kinesiology.

Ronald Oscar Anderson, Minneapolis
B.A. cum laude '85, St. Olaf College; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Michael Scott Arney, Minneapolis
B.Ch.E. '84, University of Minnesota. Degree: Doctor of Philosophy. Major: Mechanics.

Stacey Parker Aronson, Morris
B.A. cum laude '83, Ohio Wesleyan University; M.A. '85, University of Kansas. Degree: Doctor of Philosophy. Major: Hispanic and Luso-Brazilian Literatures.

Mary Jo Baarsch, Spring Valley
B.S. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Veterinary Microbiology.

Stuart D. Bale, Aberdeen, S.D.
B.A. '89, M.S. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Physics.

Ida L. Baltikauskas, Spokane, Wash.
B.A. '76, Fort Wright College of the Holy Names; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Philosophy.

Joy Webster Barbre, Delano
B.A. summa cum laude '84, Macalester College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: American Studies.

Lisa Marie Baumgartner, St. Paul
B.A. '87, Gustavus Adolphus College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Speech-Communication.

Corrinne Marie Bedecarre, Concord, Calif.
B.A. cum laude '83, Sonoma State University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Philosophy.

Dean F. Benjamin, Amherst, Wis.

B.S. with highest honors '88, University of Wisconsin.
Degree: Doctor of Philosophy. Major: Chemical
Engineering.

Brian Thomas Berg

B.S. '81, M.S. '86, Montana State University. Degree:
Doctor of Philosophy. Major: Mechanics.

Julio Cesar Bermudez, Santa Fe, Argentina

B.Arch. '82, Universidad Catolica de Santa Fe; M.Arch.
'90, University of Minnesota. Degree: Doctor of
Philosophy. Major: Education.

Gloria Jean Betcher, Red Wing

B.A. cum laude '85, St. Olaf College; M.A. '91,
University of Minnesota. Degree: Doctor of Philosophy.
Major: English.

Frances Meuser Blincow, Kearney, Neb.

B.A. '67, M.S. '72, Kearney State College. Degree:
Doctor of Philosophy. Major: Hispanic and Luso-
Brazilian Literature and Linguistics.

Karen Elizabeth Bright, Cincinnati, Ohio

B.S. '68, Ohio State University. Degree: Doctor of
Philosophy. Major: Vocational Education.

James Henry Brownlee, Minneapolis

B.A. '83, Wheaton College; M.A. '90, University of
Minnesota. Degree: Doctor of Philosophy. Major:
English.

Ngoyi K. Zacharie Bukonda, Gandajika, Zaire

License '81, Universite Nationale du Zaire. Degree:
Doctor of Philosophy. Major: Social and Administrative
Pharmacy.

Jian Cai

B.S. '82, East China Institute of Chemical Technology;
M.S. '84, Tsinghua University. Degree: Doctor of
Philosophy. Major: Chemical Engineering.

Jeffrey K. Caird, Los Alamos, N.M.

B.S. '83, University of Wyoming; M.S. '89, University
of Colorado. Degree: Doctor of Philosophy. Major:
Kinesiology.

Sergio Blancafort Calsamiglia, Barcelona, Spain

Licenciado en Veterinaria '88, Universidad Autonoma
Barcelona; M.S. '91, University of Minnesota. Degree:
Doctor of Philosophy. Major: Animal Science.

Laura Virginia Castor, St. Paul

A.B. cum laude '79, Muhlenberg College; M.A. '85,
University of Minnesota. Degree: Doctor of Philosophy.
Major: American Studies.

Sumantra Chakravarty, Bankura, India

M.S. '86, Ohio University. Degree: Doctor of Philosophy.
Major: Physics.

Daniel Joseph Challou, Mahopac, N.Y.

B.S. '81, State University of New York; M.S. '84,
University of Illinois. Degree: Doctor of Philosophy.
Major: Computer and Information Sciences.

Chunsheng Chen, Suzhou, China

Bachelor of Medical Science '82, Master of Medicine
'86, M.S. '91, Georgia Southern College. Degree:
Doctor of Philosophy. Major: Entomology.

Marta Beatriz Chiappe, Montevideo, Uruguay

Ing.Agron. '89, University de la Republica; M.A. '91,
University of Minnesota. Degree: Doctor of Philosophy.
Major: Education.

Kurt Reeder Christensen

B.A. '85, Carleton College; M.S. '90, University of
Minnesota. Degree: Doctor of Philosophy. Major: Food
Science.

Jin-Gyun Chung, Chonju City, Chonbuk, Korea

B.S. '85, Chonbuk National University; M.S. '91,
University of Minnesota. Degree: Doctor of Philosophy.
Major: Electrical Engineering.

Cora Ann Clark, Chicago, Ill.

B.S. '87, Tuskegee Institute; M.P.P. '89, University of
Michigan. Degree: Doctor of Philosophy. Major: Speech-
Communication.

Juan Carlos Cockburn, Lima, Peru

Bachiller En Ciencias '84, Universidad Nacional De
Ingenieria. Degree: Doctor of Philosophy. Major:
Electrical Engineering.

Julia Barton Corbett, St. Paul

A.B. '78, Indiana State University; M.A. '90, University
of Minnesota. Degree: Doctor of Philosophy. Major:
Mass Communication.

Rafael Augusto Cortez, Lima, Peru

Bachiller en Econ '87, Universidad del Pacifico; M.S.
'92, University of Minnesota. Degree: Doctor of
Philosophy. Major: Agricultural and Applied Economics.

Patricia Kathryn Cretili, Minneapolis

B.A. '75, M.S. '78, University of Minnesota. Degree:
Doctor of Philosophy. Major: Education.

Madeleine Ann Crockett, Savannah, Ga.

B.S. '73, University of North Dakota; M.Ed. '79,
Georgia State University. Degree: Doctor of Philosophy.
Major: Educational Psychology.

David Lawrence Deephouse, Madison, Conn.

B.A. '82, Carleton College; M.S. '94, Georgia Institute
of Technology. Degree: Doctor of Philosophy. Major:
Business Administration.

Dana Leland Defosse, Minneapolis

B.S. with highest distinction '87, University of Rhode
Island. Degree: Doctor of Philosophy. Major:
Microbiology.

Teresa Faye DeGolier, Fridley

B.A. '80, Calvin College; M.S. '90, Florida Atlantic
University. Degree: Doctor of Philosophy. Major: Animal
Physiology.

Jon Vierling DeGroot Jr., Woodbury

B.S. with distinction '89, Iowa State University of
Science and Technology. Degree: Doctor of Philosophy.
Major: Chemical Engineering.

Carlos Lee Barney Dews, Garrison, Tex.

B.A. with honors '87, University of Texas; M.A. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: English.

Sunil Manoharlal Dhoot, Bombay, Maharashtra, India

M.Tech. '88, Indian Institute of Technical, Bombay. Degree: Doctor of Philosophy. Major: Chemical Engineering.

Bonnie Nelson Dittel, Hixton, Wis.

B.S. '85, University of Madison. Degree: Doctor of Philosophy. Major: Pathobiology.

Allan Malcolm Due, Champaign, Ill.

B.A. '79, Macalester College. Degree: Doctor of Philosophy. Major: Psychology.

Sarah Anne Ehlen Haecker, Minneapolis

B.S. '88, University of Wisconsin. Degree: Doctor of Philosophy. Major: Biochemistry.

Larry Ennis Elvebak II, Kiester

B.S. cum laude '87, Winona State University. Degree: Doctor of Philosophy. Major: Chemistry.

Antoinette Errante, Bronx, N.Y.

B.S. '85, Georgetown University; M.A. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Jacob Tiku Etandu, Ekpor, Cameroon

Ingenieur Agronome '58, Centre Universitaire de Dschang; M.S. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Plant Breeding.

Xing Fang, Jiangxi, China

B.Eng. '87, Tsinghua University; M.S.C.E. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: Civil Engineering.

Kathleen Mary Feeley, Queens, N.Y.

B.S. '86, M.S. '88, St. John's University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Ann Mull Fleener

B.S. '69, M.A. '76, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Norman Elliot Fox, Golden Valley

B.A. '66, Ohio State University; M.A. '68, Ohio University; M.A. '88, Spec.Ed. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Randall Scott Frey, Archbold, Ohio

B.S.Agr. '82, Ohio State University. Degree: Doctor of Philosophy. Major: Animal Science.

Richard Evan Fulton

B.A. summa cum laude '84, University of Minnesota. Degree: Doctor of Philosophy. Major: Anthropology.

Sylvia Fuoss, Draper, S.D.

B.S. with distinction '85, M.S. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Design, Housing, and Apparel.

Marc Thomas Galeazza

B.S. '84, College of William and Mary; M.E. '87, University of Virginia. Degree: Doctor of Philosophy. Major: Neuroscience.

Hichem Haibib Garnaoui, Sousse, Tunisia

B.E.E. with distinction '88, M.S. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Electrical Engineering.

Cynthia Trinidad Gonzales, Manila, Philippines

D.V.M. '78, University of the Philippines; M.Sc. '86, University of Guelph. Degree: Doctor of Philosophy. Major: Veterinary Microbiology.

Stephen John Gross

B.A. '84, University of Minnesota. Degree: Doctor of Philosophy. Major: History.

Loren Oscar Gustafson, Dennison

A.B. magna cum laude '85, Ripon College; M.A. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: English.

Robert Hamilton Haddow, Minneapolis

B.A. '88, Virginia Commonwealth University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Art History.

Penny Louise Hammrich, Watertown, S.D.

B.S. '86, South Dakota State University. Degree: Doctor of Philosophy. Major: Education.

Richard Michael Henry, Ramsey

B.A. '79, St. Lawrence University; M.F.A. '83, Bowling Green State University. Degree: Doctor of Philosophy. Major: English.

Sarah S. Hersh, Minneapolis

B.M. '73, Oberlin College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Music.

Douglas Blanks Hindman, Scottsbluff, Neb.

B.S. '82, M.A. '84, University of Nebraska. Degree: Doctor of Philosophy. Major: Mass Communication.

Louella Edwards Hirsch

B.A. magna cum laude '62, M.A. '65, Ph.D. '75, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Liang-Tsu Hsieh, Taitung, Taiwan

B.A. '87, M.A. '89, Chinese Culture University. Degree: Doctor of Philosophy. Major: Education.

He Huang, Lanzhou, Gansu, China

B.S. '83, Hunan University; M.S. '86, Lanzhou Institute of Glaciology and Geocryology. Degree: Doctor of Philosophy. Major: Materials Science and Engineering.

Shun-Ming Huang, Changhua, Taiwan

B.S.Eng. '83, National Taiwan University; M.S. '88, Pennsylvania State University. Degree: Doctor of Philosophy. Major: Chemical Engineering.

Sally Mollergren Hunter, St. Paul

B.A. '64, College of St. Scholastica. Degree: Doctor of Philosophy. Major: Education.

Patricia Ann James, St. Paul

B.F.A. '70, University of Illinois; M.F.A. '85, Bradley University. Degree: Doctor of Philosophy. Major: Education.

Wenzhen Jin, Hefei, China

Master of Medicine '83, Xinjiang Medical College. Degree: Doctor of Philosophy. Major: Pharmacology.

Mayumi Yukiko Johnson, Tokyo, Japan

B.A. '80, Seijo University; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Japanese.

Sandra Joyce Johnson, Minneapolis

B.A. '65, North Park College; M.A. '84, United Theological Seminary. Degree: Doctor of Philosophy. Major: Education.

Taechul Jung, Seoul, Korea

B.Comp.Sc. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Junling Jwo, Taipei, Taiwan

B.Ed. '82, M.Ed. '84, National Taiwan Normal University. Degree: Doctor of Philosophy. Major: Kinesiology.

Philip Lynn Kennedy, Pierce, Colo.

B.S. '87, Colorado State University; M.Sc. '88, University of Oxford. Degree: Doctor of Philosophy. Major: Agricultural and Applied Economics.

Thomas Walter Kernozek

B.S.E. '87, State University of New York; M.S. '89, Illinois State University. Degree: Doctor of Philosophy. Major: Kinesiology.

Nitin Ramesh Keskar, Bombay, India

Degree: Doctor of Philosophy. Major: Chemical Engineering.

Anne Carol Kilstofte, Pueblo, Colo.

B.S.Mus. '79, M.M. '88, University of Colorado. Degree: Doctor of Philosophy. Major: Music.

Geunsik Kim, Puyo, Korea

B.S. '81, Yonsei University. Degree: Doctor of Philosophy. Major: Physics.

Joan Marie Kjorsvig-Beans, Ely

B.S. '78, M.S. '79, Mankato State University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Linda Marie Klohs

B.S. '68, B.S. '77, M.Ed. '81, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Jane-Ling Ko, Hsin-Chu, Taiwan

B.S. '82, China Medical College; M.S. '84, National Taiwan University. Degree: Doctor of Philosophy. Major: Pharmacology.

Cary Todd Komoto

B.S. '83, M.A. '83, M.A. '86, University of Minnesota. Degree: Doctor of Philosophy. Major: Geography.

John Ray Krahn, New Berlin, Wis.

B.S. '88, University of Wisconsin. Degree: Doctor of Philosophy. Major: Chemistry.

Kurt Dubear Kroening, Crystal Falls, Mich.

B.S. '86, Northern Michigan University. Degree: Doctor of Philosophy. Major: Biochemistry, Molecular Biology & Biophysics.

Newman Tichafa Kusina, Harare, Zimbabwe

B.Sc. '84, M.Phil. '88, University of Zimbabwe. Degree: Doctor of Philosophy. Major: Animal Physiology.

Yoohee Kwon, Korea

B.Music '89, Seoul National University. Degree: Doctor of Philosophy. Major: Music.

Shui Fong Lam, Hong Kong

B.A. '82, Chinese University of Hong Kong. Degree: Doctor of Philosophy. Major: Educational Psychology.

Eric Ernest LaMott, Boise, Idaho

B.S. '87, M.S. '90, Boise State University. Degree: Doctor of Philosophy. Major: Kinesiology.

Diqui LaPenta, San Antonio, Tex.

B.S. '88, Trinity University. Degree: Doctor of Philosophy. Major: Microbiology.

Stephan Kempe Lopic, Longview, Wash.

B.A. summa cum laude '85, Whitman College; M.S. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Mathematics.

Elizabeth Ann LaVelle, Apple Valley

B.S. with high distinction '74, M.S. '80, University of Minnesota. Degree: Doctor of Philosophy. Major: Nursing.

Deanna Marie Leach

B.S. '76, M.S. '77, St. Cloud State College; Ed.Spec. '84, St. Thomas University. Degree: Doctor of Philosophy. Major: Educational Policy and Administration.

Dong-Il Lee, Seoul, Korea

B.Econ. '86, Dankook University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Theatre Arts.

Youngjun Lee, Gwangju, Korea

B.S. '88, Korea University. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Gretchen Tracy Legler, Salt Lake City, Utah

B.A. cum laude '83, Macalester College; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: English.

Christee Lee Lucas Lesch

B.L.S. '88, Iowa State University of Science and Technology; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: Speech-Communication.

Charles Wesley Lewis, North Mankato

B.S. magna cum laude '81, M.A. '86, Mankato State University. Degree: Doctor of Philosophy. Major: Mass Communication.

Elaine Marie Lilly, Mankato

B.A. cum laude '75, Gustavus Adolphus College; M.A. '87, Mankato University. Degree: Doctor of Philosophy. Major: Educational Policy and Administration.

Jeeyoung Lim, Seoul, Korea

B.A. '90, Seoul National University. Degree: Doctor of Philosophy. Major: Psychology.

Michael John Link, Raymore, Mo.

B.S.E.E. '85, University of Missouri; M.S.E.E. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: Electrical Engineering.

Hsien-Ching Liu, Taipei, Taiwan

B.S. '81, National Taiwan University; M.S. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Biochemistry.

Zheru Liu, Beijing, China

B.Med. '87, Beijing Medical University; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Biochemistry.

Xiaonan Luo

B.S. '82, Shanghai Jiao Tong University. Degree: Doctor of Philosophy. Major: Mechanical Engineering.

Yi Luo

B.Ed. '82, Beijing Institute of Physical Education. Degree: Doctor of Philosophy. Major: Kinesiology.

Nyanmyau Lyau, Taiwan

B.Ed. '83, National Taiwan Normal University; M.S. '88, Pittsburg State University. Degree: Doctor of Philosophy. Major: Education.

Gina Marie MacDonald

B.S. magna cum laude '89, University of Connecticut. Degree: Doctor of Philosophy. Major: Biochemistry, Molecular Biology & Biophysics.

Jennifer Blair Mactavish, Vancouver, Canada

B.Phys.Ed. '85, University of British Columbia; M.Sc. '91, University of Manitoba. Degree: Doctor of Philosophy. Major: Education.

Pamela R. Marshwilliams, Columbus, Ohio

B.A. '74, M.A. '76, Ohio State University. Degree: Doctor of Philosophy. Major: Educational Psychology.

Daniel David Martin, Portland, Ore.

B.A. '80, Columbia Christian College; M.S. '86, Portland State University. Degree: Doctor of Philosophy. Major: Sociology.

Bruce Alan Maylath, Kalamazoo, Mich.

B.A. '80, Kalamazoo College; M.A. '87, Michigan State University. Degree: Doctor of Philosophy. Major: English.

Judee G. McMullen

B.S. '73, M.S. '79, University of Wisconsin. Degree: Doctor of Philosophy. Major: Educational Policy and Administration.

Steven Lawrence Mielke, Staten Island, N.Y.

B.S. cum laude '84, Polytechnic Institute of New York; M.S. '88, New York University. Degree: Doctor of Philosophy. Major: Chemical Engineering.

Byron Andrew Miller, Minneapolis

B.S. with distinction '78, Pennsylvania State University; M.A. '84, Arizona State University. Degree: Doctor of Philosophy. Major: Geography.

Scott Lawrence Miller, Delmar, N.Y.

B.A. '88, State University College, Oneonta; M.M. '91, University of North Carolina at Chapel Hill. Degree: Doctor of Philosophy. Major: Music.

Stephen Wick Mohn, St. Paul

B.S. '76, Mankato State University; M.E.E. '83, University of Minnesota. Degree: Doctor of Philosophy. Major: Control Science and Dynamical Systems.

Ramin Mojdehbakhsh

B.Math. '85, M.S. '93, University of Minnesota. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Mojtaba Moniri, Tehran, Iran

B.S. '86, M.S. '88, University of Tehran. Degree: Doctor of Philosophy. Major: Mathematics.

Michele Marie Moylan, North St. Paul

B.A. summa cum laude '85, Hamline University; M.A. '86, Bowling Green State University. Degree: Doctor of Philosophy. Major: English.

Ellen Jo Mullen, Ames, Iowa

B.S. '87, M.S. '90, Iowa State University of Science & Technology. Degree: Doctor of Philosophy. Major: Industrial Relations.

Sharon L. Muret-Wagstaff, Minneapolis

B.S.N. '64, Florida State University; M.S. '80, University of Minnesota. Degree: Doctor of Philosophy. Major: Child Psychology.

Mark Douglas Nachbor, St. Louis Park

B.A. magna cum laude '84, Carleton College; M.S. '86, Michigan Technological University. Degree: Doctor of Philosophy. Major: Chemistry.

Jeffrey Kevin Nelson, Minnetonka

B.Phys. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: Physics.

Neisha Nicole Nelson, St. Paul

B.A. cum laude '89, Trinity University. Degree: Doctor of Philosophy. Major: Child Psychology.

Nviet Nhu Ngo

B.A. '83, M.S. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.

Walter Ferreira de Oliveira, Sao Paulo, Brazil

Diploma de Medico '76, Escola de Medicina e Cirurgia de Rio de Janeiro. Degree: Doctor of Philosophy. Major: Education.

Clement Nnamdi Onyenemezu, Ogberuru-Orlu, Nigeria

B.Sc. '87, University of Nigeria; M.S. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: Chemistry.

Patrick J. Opatz, St. Cloud

B.A. '85, Saint Mary's College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.

Agnes Ewa Ostafin

B.S. '87, B.S. '89, Wayne State University. Degree: Doctor of Philosophy. Major: Chemical Physics.

Vida Elizabeth Peskay

B.A. '64, M.S.E. '67, City University of New York. Degree: Doctor of Philosophy. Major: Educational Psychology.

Robert Leo Peterson, Minnetonka

B.S. '66, M.A. '69, University of Minnesota. Degree: Doctor of Philosophy. Major: Music.

Lihong Qin, Xianfeng, Hubei, China

B.S. '82, M.S. '84, Huazhong Normal University. Degree: Doctor of Philosophy. Major: Physics.

Yingzhe Qu, Haicheng, Liaoning, China

Degree: Doctor of Philosophy. Major: Materials Science and Engineering.

Vicki Lee Raffle, Hopwood, Pa.

B.S. with highest honors '86, California University of Pennsylvania; M.S. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Forestry.

Vanchiswaraiyer Ramanathan

Degree: Doctor of Philosophy. Major: Civil Engineering.

Suleka Rao

M.S. '85, Indian Institute of Technology. Degree: Doctor of Philosophy. Major: Biochemistry, Molecular Biology & Biophysics.

Robert Joseph Rausch Jr., Green Bay, Wis.

B.S. '82, M.S. '90, University of Wisconsin. Degree: Doctor of Philosophy. Major: Kinesiology.

Judith Diana Ray, St. Louis, Mo.

A.B. '68, Harris Teacher College; M.A.Ed. '72, Washington University; M.S. '79 Washington State University. Degree: Doctor of Philosophy. Major: Kinesiology.

Robert J.D. Reid, New Richmond, Ohio

B.S. magna cum laude '88, John Carroll University. Degree: Doctor of Philosophy. Major: Genetics.

Eric Lee Reittinger, Nauvoo, Ill.

B.S. '87, Utah State University. Degree: Doctor of Philosophy. Major: Child Psychology.

Juan Manuel Renero, Mexico

Licenciado '85, Universidad Nacional Autonoma de Mexico; Maestria '85, El Centro de Investigacion y Docenta Economicas; M.A. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Economics.

Glenda Dewberry Rooney

B.S. '70, North Texas University; M.S.W. '76, University of Illinois. Degree: Doctor of Philosophy. Major: Social Work.

Teresa Jean Rothausen, Dundas

B.A. magna cum laude '86, St. Olaf College. Degree: Doctor of Philosophy. Major: Industrial Relations.

Richard Douglas Rucker Jr., Tucson, Ariz.

B.A. with distinction '69, M.S. '70, University of Arizona; M.D. '75, George Washington University. Degree: Doctor of Philosophy in Surgery. Major: Surgery.

Jean Elizabeth Sahlstrom, Wayzata

B.S. '72, M.S. '80, St. Cloud State University. Degree: Doctor of Philosophy. Major: Educational Policy and Administration.

Kent Lee Sandstrom

B.A. cum laude '77, M.A. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Sociology.

Janet Ann Schank, Minneapolis

B.M.E. '72, M.A. '83, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Psychology.

Stephen Eric Schrenk, St. Anthony Village

B.A. '82, University of California; M.S. '84, University of Wisconsin. Degree: Doctor of Philosophy. Major: Physics.

Jana Kate Schulman

A.B. '81, Barnard College; M.A. '83, Columbia University; M.A. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Germanic Philology.

Virginia Goff Scott, Monticello, Ky.

B.S. '72, M.S. '91, University of Kentucky. Degree: Doctor of Philosophy. Major: Social and Administrative Pharmacy.

Iris Misae Shiraishi, Waipahu, Hawaii

B.Mus. with high honors '77, University of Hawaii; M.A. '81, M.F.A. '81, University of Iowa. Degree: Doctor of Philosophy. Major: Music.

Robert Smith Sikes Jr., Ashdown, Arkansas

B.S. '85, University of Arkansas. Degree: Doctor of Philosophy. Major: Zoology.

BetsAnn Smith

B.A. '83, Hampshire College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Educational Policy and Administration.

Michael Vernon Smith, Minneapolis

B.M. '75, Washburn University; M.M.E. '82, University of Kansas. Degree: Doctor of Philosophy. Major: Music.

Steven J. Snyder, Minnetonka

B.S. with high honors '76, Drexel University; M.B.A. with high distinction '78, Harvard University; M.A. '90, University of Minnesota. Degree: Doctor of Philosophy. Major: Psychology.

Dongho Sohn, Seoul, Korea

B.A. '84, M.A. '86, Hankuk University of Foreign Studies. Degree: Doctor of Philosophy. Major: English.

Brett David Steele, Palo Alto, Calif.

B.S. '87, California Polytechnic State University; M.S. '89, Stanford University. Degree: Doctor of Philosophy. Major: History of Science and Technology.

- Linnea Anne Stenson, Minneapolis**
B.A. '83, Augustana College; M.A. '87, University of Minnesota. Degree: Doctor of Philosophy. Major: English.
- Lifang Sun**
B.S. '85, East China Metallurgical Institute. Degree: Doctor of Philosophy. Major: Chemistry.
- Shangzhi Sun, China**
B.S. '86, Shandong University. Degree: Doctor of Philosophy. Major: Computer and Information Sciences.
- Yiming Sun, Shanghai, China**
B.S. '82, M.S. '87, Tongji University. Degree: Doctor of Philosophy. Major: Civil Engineering.
- Lay Choo Tan, Malaysia**
B.Sc. '88, National University of Malaysia. Degree: Doctor of Philosophy. Major: Chemistry.
- Judy Diane Tiesel**
B.A. with high distinction '87, M.A. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: Family Social Science.
- Rafael M. Tilton, Rochester**
B.A. '59, College of St. Teresa; M.A. '63, Fordham University; M.A. '91, University of Minnesota. Degree: Doctor of Philosophy. Major: English.
- Karin Marie Treiber, Pittsburgh, Pa.**
B.A. cum laude '68, Duquesne University; M.A. '70, Michigan State University. Degree: Doctor of Philosophy. Major: Educational Policy and Administration.
- Anton Steven Treuer, Bemidji**
A.B. '91, Princeton University. Degree: Doctor of Philosophy. Major: History.
- Jose Antonio Valero, Azpeitia, Spain**
Degree: Doctor of Philosophy. Major: Hispanic and Luso-Brazilian Literatures.
- Michelle Marie Vician, Crown Point, Ind.**
B.A. cum laude '81, Mundelein College; M.B.A. '90, University of Notre Dame. Degree: Doctor of Philosophy. Major: Business Administration.
- Ann Marie Vogel, North Mankato**
B.S. magna cum laude '87, Mankato State University. Degree: Doctor of Philosophy. Major: Biochemistry.
- Richard Anthony Vomela, Colfax, Wis.**
B.S. with distinction '64, M.S. '66, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.
- Kay Marvyl Gresser Wagner, St. Petersburg, Fla.**
B.I.D. with honors '69, Pratt Institute; B.S. with high distinction '75, M.A. '79, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.
- Michael Burt Walters, Kalamazoo, Mich.**
B.S. cum laude '83, Washington State University; M.S. '86, University of Utah. Degree: Doctor of Philosophy. Major: Forestry.
- Hsinfu Wang**
B.S.Eng. '86, M.S.Eng. '88, National Taiwan University. Degree: Doctor of Philosophy. Major: Materials Science and Engineering.
- Ruoyu Wang, Zhongxian, Sichuan, China**
B.S. '85, Tsinghua University. Degree: Doctor of Philosophy. Major: Physics.
- Yanfeng Wang, Xinji, Hebei, China**
B.S. '83, M.S. '86, Shenyang College of Pharmacy. Degree: Doctor of Philosophy. Major: Pharmaceutics.
- David James Waters, St. Paul**
B.S. '79, M.A. '84, University of Wisconsin. Degree: Doctor of Philosophy. Major: Kinesiology.
- Farrell J. Webb, Westwood, Calif.**
B.A. '77, Loyola Marymount University; M.A. '79, California State University; M.Phil. '82, New York University. Degree: Doctor of Philosophy. Major: Family Social Science.
- Bruce McCann White, St. Paul**
B.E.S. '78, University of Minnesota; M.A. '85, McGill University. Degree: Doctor of Philosophy. Major: Anthropology.
- Thomas Anderson White, Asheville, N.C.**
B.S. '83, Humboldt State University; M.A. '92, M.S. '92, University of Minnesota. Degree: Doctor of Philosophy. Major: Forestry.
- Carla Ann Wiggins, Sheboygan, Wis.**
B.S. summa cum laude '85, Ithaca College. Degree: Doctor of Philosophy. Major: Health Services Research, Policy, and Administration.
- Steffanie L. Wilk, Kansas City, Mo.**
B.A. magna cum laude '89, Rockhurst College. Degree: Doctor of Philosophy. Major: Industrial Relations.
- Ross D. Willits**
B.A. '86, St. Olaf College; M.A. '89, University of Minnesota. Degree: Doctor of Philosophy. Major: Theatre Arts.
- Barbara Ann Wilson, White Bear Lake**
B.S. '74, M.Ed. '88, University of Minnesota. Degree: Doctor of Philosophy. Major: Education.
- Weifeng Yu, Baoding, China**
B.S. '85, Nankai University. Degree: Doctor of Philosophy. Major: Physiology.
- Lawrence Anthony Zazzera, Edina**
B.A. '84, University of Delaware. Degree: Doctor of Philosophy. Major: Chemistry.