



October 2004

ELECTRICAL & COMPUTER ENGINEERING

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Message from the Department Head

Welcome to the fall issue of *ECE Current News*. Having completed my first fast-paced year as department head, I am happy to announce a string of successes by our students, faculty, and alumni.



Department and college-wide scholarships and honor awards are providing recognition to our current students for their hard work and accomplishments. Featured in this newsletter is a listing of our 2004 scholarship recipients and award winners.

Dr. Randy Bartels, who joined the ECE faculty last year (see "Faculty News"), recently received top honors from two prestigious scientific organizations. In addition, we are pleased to welcome two new faculty members to the ECE department this fall: Dr. Mario Marconi and Dr. Steven Reising.

You will notice an expanded emphasis on our alumni throughout the pages of this newsletter. Our alumni play an important role in the department's mission and our future, and I am continually impressed with their talents, achievements, and countless contributions to society. I am looking forward to connecting with our alumni and friends at our upcoming event at New Belgium Brewery on Friday, October 22. See "Upcoming Events" for more information.

As a department, we continue to strengthen our relationships with other prestigious organizations and institutions. In February, we signed an agreement with the University of Puerto Rico Mayaguez (UPRM) for a collaborative Ph.D. program in Electrical and Computer Engineering. This program provides students a unique opportunity to work in partnership with researchers from universities around the globe.

In addition, we recently were awarded three noteworthy grants from the Colorado Institute of Technology, enabling us to further our research efforts and grow the opportunities available to our students. These grants support the following key initiatives:

- **Colorado Grid Computing Initiative (COGrid)** – This is a planned statewide computing framework, whose long-term goal is to provide high-performance grid computing capabilities to all areas and all citizens of the state. The initiative has been actively supported by the Information Science and Technology Center, or ISTE C, a universitywide organization led by H.J. Seigel, Abell Distinguished Professor of Electrical and Computer Engineering.
- **Center for Robustness in Computing Systems** – The goal of this center is to bring researchers and practitioners from universities and industry together to collectively investigate a holistic approach to the problem of robust computing system design, analysis, and implementation.
- **Integrative K-12 College Training Program for the Computer and Semiconductor Industry in the Rocky Mountain Region** – The purpose of this program is to build an educational infrastructure for workforce training/retraining by combining the resources and expertise of K-12 education, vocational training in community colleges, higher education in universities, and local industry.

Finally, I extend my appreciation to those alumni, friends, and corporate sponsors who have generously supported our student projects. If you have not yet mailed your contribution, I encourage you to show your pride in the ECE department and impact the educational experience we provide to our students by returning the enclosed gift form in support of our Opportunity Fund.

I sincerely thank everyone who has contributed to our success, and I am looking forward to an exciting year ahead.

Ph.D. Students Reunite



The College of Engineering's Third Annual Dinner and Dance reconnected three of Dr. Louis Scharf's Ph.D. students for an evening of fun and reminiscing in April 2004. From left to right: Dr. Louis Beex, Dr. David Farden, Dr. Louis Scharf, and Dr. Joseph Perl. Mark your calendars for the Fourth Annual Dinner and Dance, Saturday, April 16, 2005.

Student News

2004 ECE Scholarship Recipients

In addition to the scholarships devoted exclusively to ECE students, our students were awarded many collegewide scholarships.

Allen Porter Mowry Memorial Scholarship

Gautam Bhatia

ARCS Foundation Scholarship

Jeremy West

Boeing Scholarship

Emily Shideler

Claude W. Wood Scholarship

Bryce Eldridge
Jonathan Martin
Gabriel Martinez
Skylar Marvel
Katherine McDonnell
Aaron Nielson
Sean Zhang

Delano F. Scott Scholars Scholarship

Yu-Ping Shao

Edward B. House Scholarship

David Springer

Electrical and Computer Engineering Alumni Scholarship

Samuel Mast

Engineering College Scholars Scholarship

Jeffrey Brateman
Zachary Kamerzell

Ival V. Goslin Engineering Scholarship

Jesse Snyder

Lee Bette Wehrman Scholarship

Jeffrey Brateman
Bryce Eldridge
Judd Nutting

Micromotion Engineering Scholarship

Micaela Nofsinger

Myron Brown Ludlow Scholarship

Nicholas Roseveare

Nicholas Angelopoulos Scholarship

Jared Richard

Richard F. Walker Scholarship

Samuel Mast

Thomas A. Brubaker Scholarship

George Castillo

Walter Scott, Jr. Scholarship

Kevin Degi
Henry Dittmer
Elias ImMasche
Christopher Kautz
Michael McCarron
Robert Utrup

Willis T. Johnson Scholarship

Emily Shideler

ECE Students Honored at 2004 Engineering Days Awards Ceremony

Outstanding electrical and computer engineering students were recognized for their accomplishments at the Engineering Days Awards Ceremony in April 2004. The ceremony was sponsored by the College of Engineering, Engineering College Council, and Associated Students of Colorado State University (ASCSU).

ECE Department Awards

IEEE Distinguished Service Award:

David Springer

HKN Distinguished Service Award:

Sarah Woods

Outstanding ECE Junior:

Mike Pacini

Outstanding ECE Senior:

Terrell Phillips

Outstanding ECE Teaching Faculty:

Dr. John Mahan

Engineering Days Project Awards

1st Place: Extreme Ultraviolet Laser for Ion Mass Spectroscopy; Paul Johnson, Joshua Willhite, Dale Martz, Darrell Christensen, Timothy Van Donselaar
3rd Place: Race to the Sky Electric Car; Loren Coe, Troy Klammer, Barry Brinks, Don Sanborn.

Undergraduate Research and Creativity Showcase

Two electrical and computer engineering seniors received awards for projects they presented at the Undergraduate Research and Creativity Showcase on April 21, 2004. Brendan Reagan (highest honors) and Mike Purvis (college honors) both were advised by Electrical and Computer Engineering Professor Jorge Rocca.

Upcoming Events

Two Events On Tap for Friday, October 22

Join the ECE Department at New Belgium Brewery and the CSU vs. Wyoming football game



Mark your calendars and plan to join ECE students, alumni, and friends for a night of fun, football, and Fat Tire in Fort Collins! The evening's activities begin with a reception at New Belgium Brewery (NBB) featuring beer tasting, appetizers, and a special presentation by fellow electrical engineer and NBB founder, Jeff Lebesch.

Following the NBB reception, you are invited to attend one of the biggest football games of the year: CSU vs. Wyoming at Hughes Stadium. A block of seats have been reserved for ECE alumni and friends, and the department will provide transportation to and from the game. Football tickets are \$40 per person and must be purchased in advance.

Please contact Andrea Leland, ECE Alumni Relations Coordinator, to purchase your individual game tickets and RSVP for either or both events.

Andrea Leland

E-mail: lelandam@engr.colostate.edu

Phone: 970-491-1033

Event Schedule

4:30-6:30 p.m.

Reception at New Belgium Brewery with founder Jeff Lebesch
500 Linden Street | Fort Collins, CO

6:30-7:00 p.m.

ECE will provide transportation from NBB to Sonny Lubick Field at Hughes Stadium

7:30 p.m.

Kickoff – CSU Rams vs. Wyoming Cowboys

Post game:

ECE will provide transportation from Hughes Stadium back to NBB

The next Engineering Days is set for Friday, April 15, 2005, in CSU's Lory Student Center.

The event will showcase individual and team projects, and displays will be available for viewing by CSU students, alumni, and friends.

Faculty News

Spotlight on Randy Bartels

Bartels Honored by Optical Society of America and National Science Foundation

Randy Bartels, ECE assistant professor, received prestigious awards from two prominent scientific organizations.

Bartels was awarded the Optical Society of America Adolph Lomb Medal for his pioneering contributions to the coherent control of light, atoms, and molecules. This award is presented to one individual per year who makes significant contributions to the field of optics before the age of 35. He also received the National Science Foundation Faculty Early Career Development Award, which recognizes and supports those teacher-scholars who are most likely to become the academic leaders for the 21st century.

Before joining the electrical and computer engineering department in 2003, Bartels earned his doctoral degree in electrical engineering at the University of Michigan-Ann Arbor. His research has concentrated on the generation and control of short laser pulses and their use for the control of quantum and extreme nonlinear optical systems.

“Early in his career, Dr. Bartels is already known as a national leader in the important field of ultrafast optics and lasers,” said Tony Maciejewski, ECE department head. “We are pleased to have Randy as a member of our faculty, and we applaud him for these well-deserved awards.”

Bartels was also a finalist for the American Physical Society Award for Outstanding Doctoral Thesis Research in Atomic, Molecular, or Optical Physics.



ECE Welcomes Two New Faculty Members

Dr. Mario C. Marconi joins the department as a full professor of electrical and computer engineering. Dr. Marconi previously held appointments as a visiting scientist and associate research professor at Colorado State, collaborating with ECE Professor Dr. Jorge Rocca at various times throughout the past eight years. Prior to joining CSU, he was an associate professor of physics at Buenos Aires University. Dr. Marconi earned a physics diploma in 1980 and a Ph.D. in physics in 1985 from Buenos Aires University. His research interests include soft x-ray lasers and their applications. He has been a member of the staff of the Argentinean National Research Council since 1992.



Mario and his wife Maria have two daughters, Laya, age 21, and Yanina, age 19. In his spare time, Mario enjoys watching movies, reading, hiking, and skiing.

Dr. Steven C. Reising is a new associate professor in the ECE department. Dr. Reising earned his bachelor's and master's degrees in electrical engineering at Washington University in St. Louis in 1989 and 1991 and received his Ph.D. from Stanford University in 1998. He most recently served as a faculty member in electrical and computer engineering at the University of Massachusetts-Amherst. His research experience includes work at the Naval Research Laboratory in Washington, D.C. Dr. Reising's research interests are in microwave remote sensing, radar and radiometer systems, microwave circuits, and electromagnetics. Dr. Reising received the Office of Naval Research Young Investigator Program (YIP) Award in 2000, the Lilly Teaching Fellowship in 2001-02, the NSF CAREER Award in 2003, and the Barbara H. and Joseph I. Goldstein Outstanding Junior Faculty Award in 2004.



Steve and his wife Kathleen are proud parents of a new baby girl, Samantha Sophia, born August 6, 2004. Steve is looking forward to his first winter in Colorado and hopes to spend his free time cross-country skiing and winter backpacking.

Dr. Steven Abt Appointed Interim Dean for College of Engineering



Long-time administrator and Colorado State alumnus Steven R. Abt has been named interim dean of the College of Engineering. Abt follows Dr. Neal Gallagher, who left CSU in March to take on a new position as Dean of Engineering and Computer Science at the University of Central Florida.

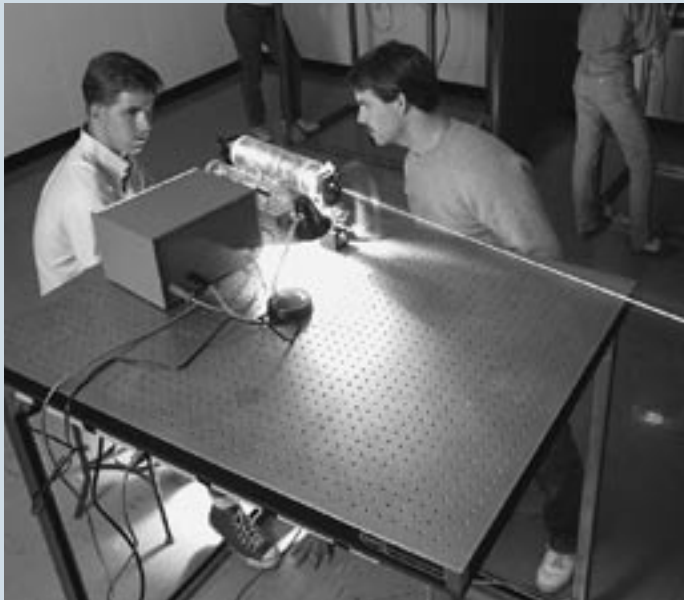
Abt, a professor of civil engineering who has more than 27 years of general engineering experience, earned his bachelor's degree in civil engineering, master's degree in water resources, and doctoral degree in hydraulics, all from Colorado State. After serving in the U.S. Army Corps of Engineers and working as a consulting water resource engineer in Denver, Abt joined the Colorado State faculty in 1976.

Abt has served in the U.S. Army Reserve, Corps of Engineers, since 1973, and in 2002, he was promoted to Brigadier General. Of the approximately 206,000 members in an active status of the U.S. Army Reserve, only 70 serve at this high rank.

A national search for a permanent dean is under way.

Alumni News

Can You Identify These Alumni?



Research breakthroughs and technological advancements become evident when we compare this photo (left) with images of the technology available today in our Extreme Ultraviolet Laser Engineering Research Center (right).

We would like your help in identifying the two people in this picture.

If you know either of them, please contact the ECE department at 970-491-6600 or send an e-mail to ece@engr.colostate.edu with the person's full name. Look for an update to be published in the next issue of *ECE Current News*.



Ovidio Anton performs research at the EUV ERC

Dr. Joseph Perl Named Electrical and Computer Engineering Distinguished Alumnus

In honor of his outstanding career achievements and contributions, Dr. Joseph Perl ('74, '76) received the College of Engineering's Distinguished Alumni Award for the Department of Electrical and Computer Engineering at the Third Annual Dinner and Dance in April 2004.



Dr. Perl is currently the President and CEO of Mobilygen Corporation in Santa Clara, California. He previously served as the President and CEO of DSP Communications, the chief scientist for the Communications Division of Tadiran Electronics Co. in Israel, and an adjunct professor for the Department of Electrical Engineering at Tel Aviv University in Israel. In addition, he has served as a visiting professor for the Department of Computer Science at Florida State University and as an assistant professor for the Department of Electrical Engineering at the University of Nebraska-Lincoln.

He earned his Bachelor of Science degree in electrical engineering from The Technion - Israel Institute of Technology and then earned both his Master of Science

and Ph.D. in electrical engineering from Colorado State University. While a student here, Dr. Perl learned to ski and was active in the CSU Israeli Student Organization. He delivered the Commencement Address for the College of Engineering in 2002 and has been a member of the Dean's Advisory Board since 2000. Dr. Perl and his wife, Judy, reside in Santa Clara, California. Throughout his career, Dr. Perl worked in the areas of wireless communications, digital signal processing, and semiconductors. He has been a senior member of IEEE since 1987 and a member of the New York Academy of Sciences since 1993. He received the Rothschild Innovation Award in 1997.

Sjostrom Honored by Colorado State

Each year the Colorado State University Alumni Association honors an outstanding alumnus from each of the university's eight colleges. An Honor Alumnus is a former student who, by his distinguished career and service to the university, state, nation, or world, has brought honor to Colorado State University and to himself.



Mr. Rex Sjostrom ('52 B.S. Civil Engineering, '56 M.S. Electrical Engineering) is the recipient of the Colorado State University

Alumni Association's 2004 Honor Alumnus Award for the College of Engineering.

Mr. Sjostrom, the retired vice president of Special Programs at Martin Marietta, has previously been honored with the NASA Public Service Award for contributions to the Viking Mars exploration program, two Martin Marietta Jefferson Cups (the Corporation's highest award), and the Army Commendation Medal and Meritorious Service Medal for his contributions to the National Guard and the Army Reserve. He is a retired Colonel in the Colorado National Guard and the Army Reserve and has been recognized in *Who's Who in the West*.

Mr. Sjostrom and his wife of 52 years, Joan, reside in Castle Rock where they raised four children. Joan attended CSU as an occupational therapy major, and their daughter Sandra followed in Joan's footsteps, graduating with an OT degree from CSU. Their other three children majored in engineering at CSU: Anne earned her M.S. and Ph.D. degrees in mechanical engineering, Sharon graduated with a B.S. degree in mechanical engineering, and their son John earned his B.S. and M.S. in civil engineering.

"We are proud to call Mr. Sjostrom one of our alumni. His career achievements, leadership, and dedication to the university serves as an inspiration to our next generation of engineers," states ECE department head, Dr. Tony Maciejewski.

Alumni News

Alumni Donations Affect Department Ranking

Within higher education circles, the phrase "alumni participation rate" frequently is discussed. At times, the phrase is also mentioned to alumni during Call-A-Ram or as a part of other fundraising efforts. What is "alumni participation rate" and how does it affect our work within the Department of Electrical and Computer Engineering?

Simply put, the alumni participation rate is the percentage of alumni who give to their alma mater, college, or department. This rate has become a topic of discussion because it has come to directly impact the prestige of educational programs. For example, when it publishes its annual rankings of colleges and universities, *U.S. News & World Report* uses the alumni giving participation rate as its **only** indicator of alumni satisfaction. A high alumni

participation rate can be indicative of our strength as a department and represents the confidence that our alumni have in the direction of the institution. In other words, the support of alumni is crucial not only for the resources this support provides, but also builds the prestige of the college and university, and adds to the value of their degrees.

Every gift counts toward our alumni participation rate. Enclosed in this newsletter is a gift envelope that can be used to support the ECE Opportunity Fund or another fund of your choice. Every gift - whether \$5, \$25, \$100, or \$10,000 - has an immediate and important impact. Help the ECE department keep our numbers rising by making a gift today.

Annual Dinner & Dance Draws Alumni, Faculty, Students

In April of 2004, more than 150 engineering alumni, friends, faculty, staff, and students gathered in the Lory Student Center for the Third Annual Dinner & Dance. In addition to enjoying a relaxed evening of dining, entertainment, and conversation, the event provided opportunities to rekindle past friendships and make new acquaintances. New to the 2004 event was the presentation of an honor award to one alumnus from each of the college's academic departments, as well as one collegewide recipient.

Dr. Joseph Perl was the recipient of the Distinguished Alumni Award for the Department of Electrical and Computer Engineering.

We encourage you to mark your calendar for **Saturday, April 16, 2005**, and make plans to attend the Fourth Annual College of Engineering Dinner & Dance. The event again will take place at the Lory Student Center and will recognize engineering alumni who have significantly impacted the college, CSU, and our society.

Plan to attend this exciting event - connect with CSU friends as you stroll down memory lane!



2005 College of Engineering
Distinguished Alumni
Awards Program

Call for Nominations

Submit your nomination online at www.engr.colostate.edu/Development/daap/ or send the following information by e-mail (SupportEngineering@engr.colostate.edu) or regular mail:

**College of Engineering
Development Office
1301 Campus Delivery
Fort Collins, CO 80523-1301
970-491-7028**

All nominations should include:

- The department for which you are submitting the nomination (e.g., Electrical and Computer Engineering).
- The name of the nominee, along with their home address and phone number; business name, address, phone, and title; e-mail address; and a brief statement regarding why you believe the nominee deserves this award.
- Please also include your name, home address, and phone number; business name, address, phone, and title; and e-mail address (if this is not a self nomination).

**Submission Deadline:
October 29, 2004**

Class Notes

Every attempt is made to ensure the information published in this section is correct. If you notice an inaccuracy, please notify us (ece@engr.colostate.edu) so that we can rectify the error.

Russell W. McCrackin, '50, has been an artist-in-residence at Tuma-cacori National Historical Park since 1985. Prior to that he was a physics professor for 20 years at Los Angeles Pierce College, where he earned his M.A. in education.

Howard Benton, '50, retired in 1990 and lives in Alaska. Though he travels to the lower 48 each year, he has no plans of relocating. Howard adds, "Keep painting the 'A' up on the side of the mountain."

Gil Reeser, '59, retired from Hewlett-Packard in 1997. His last position was general manager of a division located in Scotland. Gil's father lives in

Estes Park, Colorado. In June 2004 the family hosted his 90th birthday party in Fort Collins. Ten attendees were CSU graduates, five from the College of Engineering: Gil, '59; Warner Jr., '69 and '75; Rick, '69; Dave, '75; and Tim, '92. The other CSU graduates were Laura, '70; Bonnie, '91; Lindsay (McMaster), '91; Mandy (Zerngast), '95; and Zack, '02.

Glen Young, '61, retired from General Electric, Fort Wayne, in September 2002 after 35 years of service.

Warren W. Cook, '61, retired after 21 years as a U.S. Air Force R&D engineer. Upon retirement, Warren started an engineering and information

systems business with other partners. He sold that business and now is fully retired.

Ralph Burbey, '64, currently resides in Richardson, Texas, where he works for A.R. Schell & Son, an insurance company. He has 11 grandchildren.

Edward "Ned" Pickett, '66, has been working at PDC, Inc. since early 2004 as a senior electrical engineer. Ned moved to Alaska from the Dallas, Texas area.

Dan Megilligan, '66, retired from Shell Oil Company after nearly 33 years of service and currently lives in Pearl River, Louisiana, with his wife, Joleen.

Ken Morey, '66, has worked for TRW Semiconductors, Teledyne Semiconductors, Kaman Sciences, TRW Systems, Hewlett-Packard, and Agilent Technologies. He has been with Agilent in Colorado Springs for 25 years as a production/reliability engineer. Ken is married with four children and three grandchildren.

Peter Haub, '70, is currently working for Pacific Engineering Corporation, a division of the Keith Companies, in Portland, Oregon. He and his wife, Donna, have three children and live in Beaverton, Oregon.

(continued on back cover)

Class Notes

Edward Sedivy, '79, currently works for Lockheed Martin as the program manager for the Mars Phoenix 2007 Lander. Previously, Edward served as the spacecraft manager for the Spitzer Infrared Observatory; chief systems engineer for the Mars Odyssey Orbiter; and chief systems engineer for "ACIS," the primary science instrument on Dr. Chandra's X-Ray Observatory. Ed is married with five children and resides in Morrison, Colorado.

David Hicks, '81, reports that his son Brian will be following in his footsteps by pursuing a Bachelor's degree in electrical and computer engineering at CSU.

Joseph M. Harris II, '86, is an engineer with Motorola SPS. He is

the IC design manager of the Libraries and Memories SRAM design group. His fiancée's name is Micki.

Tom Kalisker, '87, has two-year old twin boys. He recently completed his Master's degree and is employed by Merck Research Labs as a nuclear magnetic resonance engineer. Prior to that, Tom served as a senior field service engineer for Varian NMR instruments and worked as an engineer for Chemagnetics in Fort Collins. Tom would like to hear from any of his former classmates: fidshimmer@netscape.net

Todd Ritterbush, '91, recently accepted a technical engineering position at Sandia National Laboratories in Albuquerque, N.M.

Dr. Julio Jorge Gonzalez, '91, joined the Department of Electrical and Computer Engineering at SUNY New Paltz, NY, as an assistant professor in 1993 and was promoted to associate professor in 1998. In 2001 he received the SUNY Chancellor's Award for Excellence in Teaching. He and his wife, Monica, have two children.

Blair Miller, '94, is employed with MCI, where he manages the engineering team for the MCI Enterprise Data Network. He currently resides in Colorado Springs with his wife, Vanessa.

Jeremy Slade, '98, is completing his Master's degree in electrical engineering at Stanford. After spending four years working remotely as a part-time student, he plans to finish his last

semester of the program on campus as a full-time student. He and his wife, Kim, have three boys.

Josh Walker, '03, is employed by CAS, Inc. as an electrical engineer II in Huntsville, Alabama. He is working toward a Master's degree in electrical engineering with an emphasis in control systems and electronics at UAH. His preliminaries have been completed for beginning a Ph.D. in aerospace engineering with an emphasis in propulsion systems.

Please share your news! Send your career and family updates to supportengineering@enr.colostate.edu or call (970) 491-7028. Space permitting, we'll include your news in an upcoming issue of ECE Current News!

Special Recognition July 1, 2003 – June 30, 2004

Every effort has been made to ensure the accuracy of this donor honor roll. We sincerely apologize for inadvertently misspelling or omitting the name(s) of anyone who contributed through private support or pledges during the past fiscal year to the Department of Electrical and Computer Engineering. We appreciate the opportunity to correct our records. Please advise our staff of any errors by calling (970) 491-1033 or e-mail ece@enr.colostate.edu.

More than \$10,000

Colorado Institute of Technology
Hewlett-Packard Company
IMAPS – Sidney J. Stein Educational Foundation
Royal Arch Masons General Grand Chapter
TRION Technology

\$1,000 - \$9,999

Andy M., '81 and Roberta L. Denenberg
David L., '80 and Leslie A. Esquibel
Terrance W. Plymell, '94 and Elena Plymell
Bloor and Patricia A., '84 Redding
Gilbert A. Reeser, '59
H. J. and Janet Siegel
Lloyd J., '57 and Julia H., '57 Spafford
Herbert J. Williams, '50
Thomas W. Williams, '71 and Candace Merrill-Williams
Ryan C., '95 and Charlotte A., '95 Wilson
Agilent Technologies Accounting Services Center
General Electric Company
LSI Logic Corporation

\$500 - \$999

Mahmood R. Azimi Sadjadi and Sheida, '98 Azimi
Anthony A. and Meg Maciejewski
Louis L. and Carol A., '76 Scharf
Tava E. Smika, '91
Informations Systems Tech, Inc.
International Business Machines Corporation

\$100 - \$499

Gregory F. Ash, '85 and Susan E. Johnson-Ash
John C., '72, '74 and Betty L. Becker

David L. Blankenbeckler, '83
Brian D. Boling, '90
John W., '70 and Annette L. Briggs
Isaac Britton and Gina L., '83 Holland
James K., '62 and Joanne E. Brownrigg
Arthur F., '78 and Charlene L. Donoho
Charles J. Duey, '85, '87
Salah A., '77 and Ibtisam Duwaik
Kim T. Eichman, '96
Lawrence R., '81 and Deborah A. Ellis
David C. Farden, '75
Gregory J., '80, '82, '90 and Kathy J. Fetzner
Larry A., '76 and Karen M. Gilbert
Stephen M., '79, '83 and Sara H. Goodnick
Walter K., '62 and Susan R. Green
David K., '86 and Debbie N. Hartshorn
Robert C., '74, '78 and June M. Hazelton
Diane L. Heidlebaugh, '84
Galen L. Herstein, '52
John R. Hoffmaster, '86
Frederic M. Hulett, '77 and Dianne M. Fishwild
Ralph W., '82 and Elizabeth K. Krause
Carl P. Lathan, '82
Andrea M. Leland
Stephen J. Malyszko, '75, '77 and Nancy A., '77 Lange
Frederick L., '75, '77 and Sheilah C., '74 Mann
Jason W. Marshall, '96
William L. McCarty, '54
Timothy J., '79 and Debra L., '79 McCauley
F. Gordon Noble, '50
Wayne A., '87 and Mary I. Overby
William G., '66, '68 and Becky E. Parzybok
Raul Pettai, '53
Robert D. Phelps, '51, '54
Charles D., '70 and Debra K. Pitman
Douglas S. Reese, '74
Desi D., '83, '84 and Lisa A., '84 Rhoden
Alan J., '68 and LeAnn F. Richards
Samuel L. and Mary A. Riley
Joseph M. Rizzo, '86
Jorge J. Rocca, '83 and Carmen S., '87 Menoni
David C., '86 and Diana L. Sadighi
Walter J. Schade, '80
Rex W., '52, '56 and Joan S. Sjostrom
Scot A., '88 and Kathy Sommer

Chris J., '85 and Nancy L. Steinauer
George R., '71 and Patricia V. Stoll
Don L. Stuehm, '72
Douglas E., '81 and Susan L. Thorpe
Michael D. Walker, '87
Thomas L., '83 and Dorothy Wernsman
Walter T., '46 and Mary S. Williams
Abbott Laboratories
Agilent Technologies, Inc.
Natural Resources Consulting Engineers
SuperCircuits
Xcel Energy

\$1 - \$99

Roger J., '75 and Mary E., '75 Ballenger
Leopoldo A., '67 and Linda M. Barrios
Jeffrey C., '02 and Jane Benusa
Kenneth W., '80 and Lori A. Bernhardt
David L., '89, '91 and Lori A. Berry
Fred R., '89, '92, '95 and Jill R., '88, '95 Beyette
Brian D. Branson, '84
Sylvia J. Budak, '85
Clarence A. Chauvin, '57
Randall J., '77 and Mary M., '83 Cottle
Jeffrey W., '86 and Jean L., '88 Coyne
Laura R. Crane, '02
Hayes, '47 and Esther I. Crapo
Robert A., '50 and Elsie L. Dawirs
Chetan Deshpande, '02
Charles E. Diaz
Harold E., '70 and Judy A. Dietrich
Keith G. Eddy, '47
Robert M., '79 and Lisa J. Fitzgerald
Bryan W., '84 and Suzzanne R. Gartner
William G., '49 and Barbara B. Gepford
Richard J., '64 and Frances E., '64 Gray
Ralph H., '45, '72 and Mary L. Green
Robert S., '65, '67 and Carleen B. Grossman
Tim P. Groth, '81
Walter Hargis, '83
James M. Haring, '89
Ronald J., '80 and Debbie R., '89 Hill
Brandon L. Hoff, '90
Ping-Fan Hu, '89 and Shin-Shin Shieh
Stephen K. Hulls, '00
Craig A., '89 and Harriette Jasper
M. A. Anura P. and Geetha G. Jayasumana
Sterling P. and Kathleen L. Jensen
Dennis R. Johnston, '01
Leo J., '69 and Shirley A. Jurjovec

Douglas R., '67, '71 and Anne R., '69 Kallensen
Ted K., '74 and Karen Kaplon
J. Scott, '86 and Jeannine M. Knight
Dennis W., '66 and Karen M., '64 Kuhlmann
Kevin S., '88 and Sherry L., '89 Lewis
Donghui Li, '00
Bradley L., '01 and Kimberly J., '02 Lock
Van C., '81 and Joy L. Martin
Lloyd L., '55 and Carol Maul
Michelle K. McKee, '74
Stuart K., '68 and Linda A. Morgan
Douglas J., '81 and Nora M. Nickell
Edward M. O'Brien, '71
Jeffrey C. Osborne, '79
Daniel J. Oswald, '69
George W., '84 and Connie C., '86 Pawlowski
Erwin S., '64, '69 and Kay H. Perelstein
James S. Prater, '84, '88
Arthur A., '60 and Marilyn Ramponi
Robert K. Reich, '79, '82
Gary W., '68 and Vicki L. Reynolds
Paul S., '74 and Rebecca S. Rinne
Randy S., '79 and Dana L. Rowan
Edward L., '51 and Doris E. Ruff
Dennis W., '83 and Christine M. Schlaht
Gerald R., '81 and Deborah W. Schram
Marshall M., '65 and Janice M. Scott
Dmitry Shusterman, '92
Craig A. and Leslie E., '83, '94 Soltis
Brett H. Stanes, '00
William L. Starkey, '71
Jean Tully, '82
Satish R., '80, '83 and Lalita S., '81, '86 Udupa
Kent R., '87 and Cindy Vance
Bruce M., '85 and Sarah A. VanZuiden
John L., '84 and Dawn L. Walters
Yaujen, '78 and Hsiu Chen L. Wang
Gene K., '66 and Karen K. Weeks
J. Keith Williams, '51
Paul D., '81 and Faye L. Worley
Rongrui Xiao, '96 and Jimin Wang
Seyed A. Zekavat, '02
Ball Corporation
The Boeing Company
Lockheed Martin Corporation
Raytheon Company
Sun Microsystems, Inc.