# DEPARTMENT OF COMPUTER SCIENCE

## Spring 2004 Newsletter

# TEN INDUCTED INTO NEW UMR ACADEMY OF COMPUTER SCIENCE

Ten Computer Science alumni of the University of Missouri-Rolla were inducted as charter members into the newly established UMR Academy of Computer Science during the group's meeting in Rolla April 24-25.

The academy honors outstanding individuals for their contributions to computing and their involvement with UMR students and faculty. The academy also serves as an advisory group to the Computer Science Department. More information is available on the academy website at http://web.umr.edu/~csacdmy.

Charter members are:

William A. Eaton of Tulsa, OK., retired manager of integrated operations for Amoco Corporation, received a Master of Science degree in computer science form UMR in 1970. Prior to his retirement in 1997, he held several management positions in Amoco's information technology department.

Dan A. Hirschbuehler of Houston, TX., business consulting services partner for IBM. Prior to IBM, Dan was a partner at PricewaterhouseCoopers and global leader of their Customer Relationship Management (CRM) consulting practice. Hirschbuehler received a Bachelor of Science degree in 1980 and a Master of Science in Engineering Management in 1981, both from UMR.

Jean K. Holley of Chicago, IL., former vice president and chief information office at United States Gypsum Corp. Holley was the company's first female corporate officer and first CIO, responsible for worldwide information technology operations. Holley received a Bachelor of Science degree in computer science in 1981.

Michael P. Koclanes of Boulder, CO., the co-founder and chief technology officer for CreekPath Systems. The company, formed in 1999 with another UMR graduate, was named Server I/O Management Software Company of the Year in 2003. Koclanes received a Bachelor of Science degree in computer science in 1979.

John R. Lovitt of Pleasanton, CA., retired vice president of Rational Software. Prior to his retirement, Lovitt was a senior officer at Rational Software since 1990. Lovitt earned a Master of Science degree in computer science in 1970.

Dr. Daniel G. McNicholl of Detroit, MI., chief information office for General Motors North America. Among his other duties, he is responsible for GM's OnStar system. He received a Master of Science degree and a Ph.D. in computer science from UMR in 1980 and 1982, respectively. In 2002, he was honored with a professional degree in computer science.

Dr. Richard B. Schuessler of St. Louis, MO., associate research professor of surgery and biomedical engineering at Washington University. Schuessler specializes in cardiothoracic surgery and is director of the university's Cardiothoracic Surgery Research Laboratory and the Clinical Sciences Animal Research Facility. Schuessler received a bachelor's degree and a master's degree in computer science from UMR in 1972 and 1974, respectively.

James R. Sowers of Rolla, MO., founder of Refreshments International Inc., manufacturers of Artic Lemon, a soft frozen lemonade product marketed throughout the country. Sowers currently serves as chair of the information technology committee for Ducks Unlimited, Inc. Sowers received a Bachelor of Science degree in computer science from UMR in 1969.

Mark X. Stratman of Dallas, TX., vice president of Cap Gemini Ernst and Young. Prior to the merger of Cap Gemini and Ernst and Young in 2000, he was a partner in the information technology practice at Ernst and Young. Stratman received a Bachelor of Science degree in computer science from UMR in 1973 and honored with a professional degree in computer science in 2001.

Susan Watson of White Plains, NY., vice president of TeleWeb transformation at IBM. Watson is responsible for the corporate website and online commerce. Watson received a Bachelor of Science degree in computer science from UMR in 1983.

Left to Right: McNicholl, Schuessler, Koclanes, Watson, Stratman, Sowers, Eton, Holley, and Hirshbuehler. Inset: Lovitt (Photo courtesy of Bob Phelan)

Visit the department's web page at:

www.cs.umr.edu

e-mail us at

csdept@umr.edu

**Phonathon Dates:**

**February:**

**5,8,9,10,11,12,15,16 &17**

# CHAIR'S MESSAGE

We hope this newsletter finds you enjoying the start of a happy and prosperous new year. Each year I look forward to this opportunity to share with you the exciting things that are happening in your department. Below you will find a brief synopsis of several of the articles contained in this newsletter.  Additional information can be found in this newsletter.

## What's New?

New developments occurring last year included the founding of the department's first Academy of Computer Science. This organization complements the activities of the UMR Computer Science Advisory Board. Both of these organizations provide unique and extremely helpful perspectives to the department and its students.

We wish to congratulate Mr. John Lovitt on receiving a Professional Development degree in Computer Science at the May 2003 commencement. Mr. Lovitt, a long time supporter of the department, recently retired as a senior officer of Rational Software.

During this past year, two new faculty and a new secretary have joined the department. Dr. Maggie Cheng comes to us from the University of Minnesota while Dr. Vincent Yu comes from the University of Louisville. We are also delighted that Ms. Rhonda Grayson has joined our secretarial staff. In addition to her many talents, Rhonda has designed this newsletter.

We had our ABET accreditation visit at the beginning of November. While we won't know the outcome of this visit until the end of July, the indications are that the department did well.

## Teaching and Research

As can be seen in the following pages, the faculty continues to win numerous awards. Needless to say, we are extremely proud of the job that our entire faculty does in the classroom. Our faculty's nurturing of our students has a lot to do with student's success rates. Given the department's overall increase in student ratings of teaching effectiveness along with the fact that we have increased retention of CS freshman, leads us to believe that our students agree. In a year when a large number of CS programs have had a drastic reduction in majors, our total student enrollment is 394. This is four students under our Fall 2002 enrollment.

We are equally proud of our research efforts. The level of research activity has had a marked increase over the past few years. Partial evidence of this is the fact that we have to work harder to find research space for our faculty. In addition, external funding has increased over the past year. Part of this is the result of an internal proposal evaluation that has been established under the leadership of Dr. Bruce McMillin, our Research Coordinator.

## Events

You will notice that there have been a large number of student events in the department during this past year. Last fall, we held our fifth Boeing sponsored pizza party for all CS students. We also held our first homecoming event for students and alumni. In addition, the second annual Computer Science Awards Banquet was a huge success. We had additional scholarships to award this year along with some outstanding door prizes that were provided by our company and organizational sponsors.

## Organizations

In theses pages, you will note that the department's students are active in several professional organizations such as ACM and UPE. ACM and UPE were instrumental in helping to make the annual Computer Science Awards Banquet a big success. In addition, Dr. Daniel Tauritz, has started an ACM Special Interest Group in Computer Security.

## Our Alumni and Friends

We want to say a special thanks to our alumni and friends. You may not realize it, but the department, established in 1969, has well over 3,000 alumni and a countless number of friends.

We wish to thank all of you, individuals and corporations, for your continued support in a variety of ways including scholarships and endowments, donations to the department, capstone projects for CS seniors, your telling others about CS at UMR, and your taking time to call or send a note. In these times of severe and continuous budget cuts, your generous gifts to the department make a big difference!

We hope you will continue to keep in touch with us by phone (573-341-4491), fax (573-341-4501), e-mail (st.clair@umr.edu), and/or person. I hope that you can join us next fall's homecoming event. If you are alum, we would appreciate your filling out an alumni survey that is accessible from www.cs.umr.edu.

*Dan St. Clair*

## Computer Science Honors John Lovitt with a Professional Degree During FS03 Commencement

John Lovitt earned a master's degree in computer science from UMR in 1970 by taking night classes at UMR Engineering Education Center while working at McDonnell Douglas. He holds a B.S. degree in aeronautical engineering from Wichita State University. He recently retired as senior officer at Rational Software. Since 1990, he served as vice-president for America Field Operations, Worldwide Services, and Worldwide Field Operations. Rational Software from IBM helps organizations create business value by improving their software development capability. Mr. Lovitt has played a key role in shaping Rational's team-oriented approach to achieving customer results. He started with Rational in 1986 in St. Louis as a regional manager. Prior to joining Rational, he was with Hewlett-Packard for 13 years. At UMR, he is a member of the Order of the golden Shillelagh and of the newly founded Academy of Computer Science. .

# MICHAEL HILGERS WINS FACULTY EXCELLENCE AWARD

Dr. Michael Hilgers, Associate Professor of Computer Science, has won a Faculty Excellence Award for 2002-2003! This award is presented to outstanding faculty whose teaching, research and service contributions are exemplary and who strike an effective and appropriate balance among the various aspects of faculty work. The nominations for this award come from all academic departments of the campus and, are reviewed by a committee comprised of distinguished professors chaired by the Provost. The final selection is made by the Chancellor. These awards, for $2500.00, are funded from private donations.

# FOUR WIN EXCELLENCE IN TEACHING AWARD

The recipients of the College of Arts and Sciences Excellence in Teaching Award for 2002-2003 for Computer Science are Michael Hilgers, Associate Professor of Computer Science; Jennifer Leopold, Assistant Professor of Computer Science; Clayton Price, Instructor of Computer Science: Ralph Wilkerson, Professor of Computer Science. This award honors those who make a special contribution to student retention. A committee of Distinguished Teaching Professors in the College of Arts and Sciences selected the award winners based on student teaching evaluations of faculty members done by the Committee of Effective Teaching at UMR.

**PHONATHON DATES: FEBRUARY: 5, 8, 9, 10, 11, 12, 15, 16, & 17**

## TWO WIN OUTSTANDING TEACHING AWARD



Dr. Michael Hilgers, Associate Professor of Computer Science, and Dr. Ralph Wilkerson Professor of Computer Science, have won an Outstanding Teaching Award for 2002-2003. The UMR Outstanding Teaching Award is given to roughly the top 25 UMR faculty based upon the course evaluations given in each class. These individuals are selected by the Committee on Effective Teaching and are recognized at a luncheon given by the Provost.

## COMPUTER SCIENCE ADVISORY BOARD

The Computer Science Advisory Board is composed of alums and friends of the department that provide advice to the department and its programs, serve as the department's ambassadors in their respective communities, and provide sponsorship to the department. The 2002-2003 Computer Science Advisory Board is shown below at its April 11, 2003 meeting on campus. The members are, left to right, Karen Squires Nordeng (Pearson Educational Measurement), Ken Benneke (Boeing), Curt Schroeder (Lockheed Martin), Herb Krasner (Krasner Consulting), D. St. Clair (UMR), Bob Byrne (Boeing), Kim Tracy (Lucent), Jeff Herzog (Accenture), and John Hock (IBM). [Not pictured: Jim Leonard (Boeing), Bob Perry (MasterCard), Maggie Morrison (UMR)]. Dr. George Zobrist, Chair of Computer Science during the mid 1990's, created the board.



The department greatly appreciates the advice and different perspectives provided by its two advisory bodies, the Computer Science Advisory Board and the UMR Academy of Computer Science. Additional information can be found by choosing the Comp Sci Department tab at www.cs.umr.edu. If you have, an interest in being involved in the life of the

## THE CS COLLOQUIUM SERIES
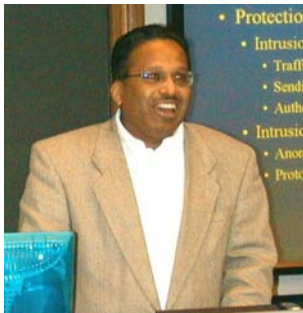


The department continues to have a variety of outstanding internal and external speakers at its biweekly colloquium series. Dr. Bharat Bhargava of Purdue University recently spoke on Intruder Identification in Mobile and Ad Hoc Networks. Dr. Bhargava's visit was sponsored as part of the department's Boeing Distinguished Speakers Series. Information about CS colloquiums can be found by going to the department's web page or by going directly to http://csweb1.cs.umr.edu/cs_info/colloquium/.

**Colloquium Web Address:**

- Http://csweb1.cs.umr.edu/cs_info/colloquium/

## NEWCOMERS TO THE DEPARTMENT

**Vincent (Wen-Bin) Yu** is a new assistant professor on joint appointment with Computer Science and the department of Information Science and Technology in the School of Management and Information Systems. He received his BS in Mathematical Science from National Cheng-Chi University, Taiwan, and his Masters in Textile Science from Clemson University. He is the co-winner of the 1998 APICS (American Production and Inventory Control Society) annual graduate student paper competition. While at Clemson, he was inducted to the AEL, Alpha Epsilon Lambda, honor society of Graduate and Professional School Students. Dr. Yu received his Ph.D. in Computer Science and Engineering from the University of Louisville where he was honored with a Graduate Dean's Certificate. His main areas of research include software agent applications, discrete event simulation, data mining, and demand forecasting; especially e-commerce and supply chain environment. Dr. Yu has taught senior level MIS courses at Clemson University and is currently teaching Numerical Methods (CS 228). He is the father of a two year old and cherishes every moment with his daughter. He and his wife enjoy working in their garden, taking drives to view the scenery, and going on picnics with their daughter. Dr. Yu also enjoys playing basketball and listening to music in his free time.
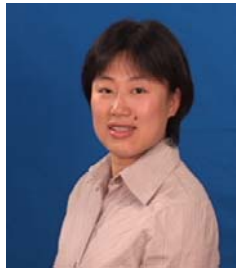
**Maggie Cheng** joined the Department of Computer Science in the fall of 2003. She received her PhD degree in computer science from the University of Minnesota in August of 2003. Her current research interests are in the area of wireless ad hoc networks and mobile computing, sensor networks, and theoretical computer science. She is currently teaching CS 285, Computer Network Concepts and Technology. Dr. Cheng is a recipient of the Best Paper Award from IEEE IPCCC for 2003 and the Excellence in Research Recognition Award for 2002, from the University of Minnesota. Recently she was invited to speak at the NSF sponsored workshop on "Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless and Peer-to-Peer Networks."

**Rhonda Grayson** is the new secretary for the Department. She is a Rolla native and prior to joining UMR, was the secretary for a local nursing home. Rhonda is enjoying her new job and the challenges that come and says that she really enjoys working with the faculty and students. In her spare time, Rhonda enjoys spending time with her husband, William, and watching her 15-year-old son, Coy, ride bulls at youth rodeos and show his livestock at the county fairs. When they are not on the road, she likes to be home on their small farm decorating her new home and working on crafts.

# THIS YEAR'S SCHOLORSHIP RECIPIENTS

**Accenture**

Nathan Alferman

**John W. Hamblen**

Matthew Battles

Adam Cushman

**Rex Widmer**

Kimberly Bieser

**Howard & Lois Cook**

Andrew Baird

**Boeing**

Sarah Hahn

Patrick Hammond

Derek Gaston

**Garmin International**

Jason Trent

**Mark X. Stratman**

Tony Rich

**Ellen M. Hodges**

Sara Skroh

**CS Alumni Scholarship**

Matthew Bleckman

Sang Lee

Anthony Blum

Paul Chang

Mathew Buechler

Matthew Brenneke

**CS Alumni Sholarship** (continued)

Jim Fu

Mark Schisler

Xiongzi Hu

Matthew McPeak

**Toshiba Fellowship**

Chandra Sekar Veera

# THIS YEAR'S SPECIAL AWARDS RECIPIENTS

The Computer Science Department at the University of Missouri-Rolla held its annual awards banquet in April to honor outstanding students in the department.

**CS Academic Achievement Awards**

Chad Deshon

John Gibbons

Xiongzi Hu

Daniel Pope

Anthony Ruesing

Chen-Hung Shih

Matthew Staats

Anthony Blum

Clifford Clement

Charles Huber

Benjamin Stauffer

Patrick Turley

Clayton Weidinger

Bret Brown

Matthew Burns

Derek Gaston

Dan Purcell

David Cope

Jinqiu Huang

**CS Academic Achievement Awards** (continued)

Nittin Krishnanand

Andrew Langefeld

Bradley Martin

Joseph Barker

Venkat-Ram Ghatti

Michael Guthrie

Youn Heo

Praveen Inuganti

Srinivas Jakkidi

Gautum Kane

Ryan Mahoney

Abhishek Misra

Qiang Niu

Kasthu Parthasarathy

Bipin Sakamuri

Pramod Varma

Austin Armbruster

Matthew Battles

Carrie Fellers

**CS Leadership Award**

Eric Sigler

**CS Mentor Award**

Stephan Horn

**CS Ambassador Award**

Mark Schisler

**Outstanding Computer Science Graduate Teaching Assistant Award**

Srinivas Jakkidi

# COMPUTER SCIENCE AWARDS BANQUET

 The Second Annual UMR Computer Science Department Awards Banquet held on April 10, 2003 brought students, faculty, staff, alumni, and friends together for an evening of food, fun, and awards. A short reception preceded the banquet. Following a delicious meal, Ms. Karen Squires Nordeng from NCS Pearson, a CS alum and a member of the department's Advisory Board, presented a talk entitled "So You Want to Work in Computer Science?" The evening concluded with the distribution of fabulous door prizes donated by several of the banquet sponsors. In addition, to door prizes, banquet sponsors purchased tables for the event. The money from table purchases made it possible for all CS majors to attend the banquet free of charge.  The 2004 Computer Science Awards Banquet is scheduled for April 29, 2004.  If you are in the area would be delighted to have you join us. Additional information will be available on the CS web page. If you and/or your company would like to participate in the 2004 banquet, please contact Dan St. Clair at st.clair@umr.edu. Additional information about the banquet can be found at csweb1.cs.umr.edu/cs_dept/banquet

Sponsors for the event included:

Accenture

The Boeing Company

Garmin International

IEEE

Lucent Technologies

Microsoft

Caterpiller

Sun Educational Sales—Enterprise Consulting Group

Triad Office City

University Book and Supply

Staples

NCS Pearson

# COMPUTER SCIENCE ANNUAL BOEING PIZZA PARTY

The annual "get acquainted" pizza party for all Computer Science majors was hosted by The Boeing Company and the Computer Science Department on Tuesday, September 23, 2003. Approximately 200 Computer Science students, faculty, and staff attended the get together.

## UMR ACM STUDENT CHAPTER SIG SECURITY



The department's student chapter of the ACM Special Interest Group in Computer Security (SIG Security) under the leadership of Ian Baird (chair), Justin Miller (vice-chair), and Dr. Daniel Tauritz (faculty advisor) has been very active since thel ast CS newsletter. Activities during the last year included Elonka Dunin, General Manager of Online Community at Simutronics, presentation on stenography, which was attended by a record forty students and faculty. Later in the semester, SIG Security ran a war-driving exercise in which teams of students took to the streets of Rolla in order to map the city's open wireless access points.

Activities for the 2003-2004 year include inviting various speakers, both from the ivory towers of academia and the trenches of industry, as well as several exciting events, including another war-driving event. This year's war-driving event was augmented by self-made antennas and GPS units, which resulted in the group's producing a map of Rolla's wireless access points. The next step is to produce an article, which tells local Rolla citizens how they may protect their access points.

You are invited to check out the group's activities at acm.cs.umr.edu/security/.

## UPSILON PI EPSILON (UPE)

The winter 2003 pledge project was a phonathon held on April 15, 2003. This consisted of the pledges calling incoming freshman that had been accepted into the UMR Computer Science Department, telling them a little about the program, and answering any questions they might have had. The project was considered a success and benefited both the department and UPE. Also, during the winter semester of 2003, UPE helped the Computer Science Department with planning, publicity, and setup for the Second Annual Computer Science Awards Banquet held on April 10, 2003. Currently UPE is working on getting a UMR Computer Science Department T-shirt design to sell as a fundraiser, inviting potential members to join UPE, and helping the department publicize the by-weekly department colloquium series.

Additional information about UPE can be found at http://web.umr.edu/~upe/.

Officers for 2003-2004 are:

President: Sara Skroh

Vice President: Mike Williams

Secretary: Callin Hahn

Treasurer: Brett Barker



## ASSOCIATION FOR COMPUTING MACHINERY (ACM)



UMR's programming team of David Mitchell, Brian Sea, and Brad Martin took first place at the 2003 ACM Mid-Central Regional Programming Contest held at the Southwest Baptist University site at Boliver, Missouri on November 1, 2003. The UMR team of James Jolly, Sathyanarayanan Sundaram, and Joseph Hare received Honorable Mention at the contest. Dr. Frank Liu from UMR's Computer Science Department was coach for the teams. There were eight teams at the Southwest Baptist University site; the winners automatically compete for positions on the Mid-Central Region team. Our congratulations to our teams!

## FIRST RESPONDER SIMULATION AND TRAINING ENVIROMENT



During the past year, the Computer Science building has suffered numerous explosions, fires, alarms, chemical gas releases, and deaths… all in the world of virtual reality. Over a year ago, the ACM special interest group in gaming started modeling the CS building as part of a campus based game. Last year when Dr. Mike Hilgers received funding to develop advanced virtual environments for training first responders to weapons of mass destruction events, he involved students in the research process and the CS building model migrated from the gaming world into a virtual reality laboratory.

Since then it has become part of two major research investigations; one focused on training first responders and the other studying human response to intense virtual environments. The model was refined for these purposes by CS graduate student John Horentstine who worked closely with CS undergraduate Chris Walker. Training first responders required the simulation of a weapon of mass destruction event, which involved the work of several other CS students, Alex Berry, Abhishek Misra, Brett Barker, and Alex Decker. This has resulted in the First Responder Simulation and Training Environment (FiRSTE) system. Evaluation and analysis is currently underway with several experiments in the works. To see more on FiRSTE go to http://campus.umr.edu/firste.



# NATURAL COMPUTATION LAB



The Natural Computation Lab (NC-LAB) specializes in algorithms inspired by nature, such as evolutionary algorithms, neural networks, and artificial immune systems. The lab is also involved with more traditional artificial intelligence approaches such as intelligent agents, adversarial tree search, machine learning, and fuzzy logic.

The current focus of the NC-LAB is on addressing the strongly intertwined problems of intrusion detection and intrusion response in computer systems and networks, getting a computer to recognize misuse of computer systems such as stealing credit card information, and taking the appropriate automated action. The lab is in the process of setting up a secure subnet to use as a test-bed for intrusion detection and response research, as opposed to using simulated data.

## TWO CS LABORATORIES JOIN FORCES



Dr. Sanjay Madria's Internet and Sensor Data Management Lab and Dr. Dan St. Clair's Data Mining and Knowledge Discovery Lab have combined forces to work on a project entitled "A Multi-layered Database (MLDB) Model to Secure Data in Mobile Computing." The objective of the project is to develop a prototype architecture from which handheld mobile devices can be used to query databases. Dr. Madria's team is implementing the MLDB architecture while Dr. St. Clair's team is using data mining and knowledge discovery techniques to enforce security and to detect intrusion attempts on the environment. The work is being supported, in part, by the University of Missouri Research Board.



**PHONATHON DATES: FEBRUARY: 5, 8, 9, 10, 11, 12, 15, 16, & 17**

## DR. MADRIA'S BOOK OFFERS NEW NET-SEARCH APPROACH

As any Internet surfer knows, a keyword search via Google or Yahoo doesn't always yield the desired results. A new book co-authored by Dr. Sanjay Madria outlines a method of dealing with Internet data that would improve and simplify web searches. "Web Data Management: A Warehouse Approach" is the first book to focus on the warehouse approach to web data management. By using the warehouse technology detailed in Dr. Madria's book, a user can perform a web search with specified hyperlinks or page content, then store that data in a local warehouse. The warehouse data can then be used for future queries with no need for another Internet search. The book also discusses storing data, and maintaining the warehouse data to deal with webpage updates. This book is the result of Dr. Madria's research over the past five years and was co-written with Dr. Sourav Bhowmick and Dr. Wee Kong Ng, two members of the information systems faculty at Nanyang Technological University in Singapore.

# ARTIFICIAL INTELLIGENCE TOURNAMENT

Winter Semester 2003 gave birth to what hopefully will become a new UMR tradition: the Artificial Intelligence Tournament series. This series follows a tradition of in-class tournaments in the course Artificial Intelligence, but aims to broaden that scope by inviting campus-wide participation by holding public tournaments and having formal award ceremonies.

Hosted by the Computer Science Department, this is a vehicle for students, faculty, and staff to test their skills in programming Artificial Intelligence by having their creations compete with each other and with human beings in a tournament.

Each semester a challenge will be chosen to be solved during the tournament; typical challenges are games and puzzles. The challenge for Winter Semester 2003 was playing the board game Abalone, in Fall Semester 2003 the challenge was playing the board game Stratego. Additional information can be found at http://web.umr.edu/~tauritzd/AI-Tournament/.

# COMPUTER SCIENCE HOMECOMING WAS A SUCCESS!

The Computer Science Department held its first Homecoming on Friday October 10th. The activities involved a colloquium followed by a reception and open house. Dr. Mike Hilgers, an associate professor and an alumni of the Computer Science Department, gave a presentation on his research project "First Responder Simulation and Training Environment". During the reception and open house which followed, attendees enjoyed Johnny's BBQ and toured the Computer Science Department where they had the opportunity to visit research labs and view several project demos given by faculty and students. The labs which participated were: Natural Computation Lab, VEnOM Lab (Virtual Environments and Object Modeling), W2C (Web and Wireless Computing), Software Engineering Lab, ECL (Experimental Computation Lab), PDC Lab (Parallel and Distributed Processing Lab), and the Bioinformatics Research Lab. A special Thanks to the CS staff, Carleen Humphrey and Rhonda Grayson, to the enthusiastic faculty and students who prepared their labs for presentations, and to those alumni who took time from their busy schedules to come and participate.

Please watch the department web page for next year's event.

# ALUMNI NEWS

**Neil S. Smith** is enjoying retirement from IBM and working as a computer consultant. Both his son, Morgan, and his daughter, Veronica, graduated in December 2002: Morgan from UMR and Veronica from the University of Kentucky-Lexington.

**Douglas K. Cothern** is currently relocating and seeking a new employment opportunity.

**Chang Li** and his wife are expecting their second child in June. The addition to the family will join their daughter, Naomi, who is now five and half years old.

**Joseph W. Stahl** is a member of the Research Staff of the Institute of Defense Analyses and an avid collector of Civil War manuscripts, autographs, CDV's and ID tags. He recently had an article published in the "Gettysburg Magazine".

**Paul E. Gieseking** has rejoined the corporate life as a program manager for Verizon, Inc.

**Thomas J. DePauw** was named the CIO for Caterpillar Financial Services Corp. in 2002.

**Charles L. Marsh** is still married to Linda after 20 years, and they have six children. They are moving to Savannah, Georgia where they are locating Global Retail IT Services.

**Janice E. Breidert** is proud to announce that her son, Stephan, is currently a junior at UMR majoring in Computer Engineering and Mathematics.

**Jennifer Jo Richesson** is enjoying her new baby girl, Julia, who was born in February.

**Brian Booth** is working in St. Louis at Edward Jones and is a chapter advisor for Delta Tau Delta fraternity at UMR.

**Terry Stocking** was married to Sarah Demetrio in June of last year. He is currently at Raytheon working on NPOESS, the U.S. government's next generation weather satellite.

**Michael P. Koclanes** business, Creekpath Systems, (founded with a fellow UMR graduate) continues to grow. The company was recently awarded the Emerging Company of the Year at Server I/O 2003, their category was Management Software.

**David Schuehler** is pursuing Doctoral Degree in Computer Engineering from Washington University.

**Clyde T. Parsons, Jr.** has retired from USAA in October 2001. He and his wife, Patricia, traveled to England for six months to visit her relatives. He has been working with charities and on his woodworking and has no plans to return to work.

**Laura Compton** is enjoying staying at home with her three children and teaching kids classes at a cooking school.

# ALUMNI HOME PAGES

Send a note to cdept@umr.edu with your e-mail and/or home page address if you would like to be listed in our alumni web page.

# WEB SURVEY

We would like to invite you to fill out our alumni questionnaire at www.cs.umr.edu and e-mail it to csdept@umr.edu.

## COMPUTER SCIENCE ALUMNI AND FRIENDS SET GIFT RECORD IN 2003

Thanks to your generosity, we gave a record amount of scholarship support to our Computer Science majors, and we want to do even more again this year! Computer Science alumni and friends pledged $46,991 to the department and sent in a record $49,481 in actual gifts. Thank you for your generosity!

The average gift of $108 surpassed the record average gift of $105 established in 1999. Thanks to alumni gifts through the phonathon campaign last year, the Computer Science department awarded several scholarships, developed internet software and web-courses, supported student activities, including the ACM and UPE chapters and the ACM programming contest, and upgraded some of the equipment in the laboratories.

"Your support provides so many more opportunities for our students," says Dr. Daniel St. Clair, chair. "We hope that we can count on your support again this year. If you have not already started to contribute on an annual basis through the Phonathon, please make this your year to start. We appreciate gifts of all sizes. When they're pooled together, each gift makes a positive difference."

This year, we will again be calling our alumni February 5. When the phone rings, please take a moment to share some of your Rolla experiences with a current student, and say, "Yes," when asked for a pledge. Taxpayer support accounts for less than 34 percent of the university's revenue, making your contribution a vital ingredient in the revenue pie. Private funding also helps distinguish UMR from other universities, increasing the value of your education. Any amount you give will be appreciated, and most importantly, your participation will help make UMR a leader in alumni giving among public universities.

*We would like to express our appreciation to all businesses and individuals who gave to the Computer Science Department between December 1, 2002 and November 30,*

## COMPANY DONATIONS

| | | |
|---|---|---|
| AT & T Foundation | General Motors Foundation | Motorola Foundation |
| Anheuser-Busch Companies, Inc. | Hallmark Corporate Foundation | Nestle Purina PetCare Company |
| Anheuser-Busch Foundation | Harris Foundation | PPG Industries Foundation |
| Avaya Communication | Hewlett-Packard Company | Plum Creek Foundation |
| BASF Corporation | IBM | Raytheon Company |
| Boeing/McDonald Douglas Foundation | IEEE | SBC Foundation |
| Cadence Design Systems, Inc. | Intel Foundation | Sun Edu Foundation |
| Caterpillar Foundation | Lexmark International, Inc. | TRW Foundation |
| Cisco Foundation | Lockheed Martin Corporation | Texas Instruments Foundation |
| Conoco Foundation | Maritz Incorporated | USG Foundation |
| DST Systems Inc. | MasterCard International, Inc. | Union Pacific Corporation |
| Ford Motor Company | Microsoft Corporation | Verizon Foundation |
| GMAC Insurance Personal Lines | Mid America Dental | |
| Garmin International, Inc. | Monsanto Fund | |

# DONATIONS FROM ALUMNI AND FRIENDS

Less than $100

| | | | | | |
|---|---|---|---|---|---|
| Aguilar, Michael J | 1976 | Clifton, Arlene K | 1972 | Gebhardt, Thomas V | 1978 |
| Altheide, Phyllis | 1985 | Cochran, Stephen Anthony | 1992 | Gieseking, Paul E | 1973 |
| Anderson, Glenn R | 1973 | Cole, Jon R | 1972 | Gilbert, Alice Fern | 1984 |
| Arbesman, Gordon Gary | 1994 | Compton, Laura Lynne | 1990 | Goetting, Karla L | 1984 |
| Ashabranner, David B | 1983 | Cothern, Douglas K | 1978 | Goetz, Carl Evan | 1984 |
| Asher, Gary Stephen | 1986 | Court, Michael R | 1973 | Gordon, Kevin Michael | 1983 |
| Ashwell, Tracey Dawn | 1995 | Cox, David Duane | 1983 | Grotefendt, Judith R | 1974 |
| Baldwin, Timothy William | 2003 | Cozad-Bolte, Raymond J | 1997 | Guntly, Stephen P | 1978 |
| Baran, Barry Anthony | 1982 | Craven, Paul Vincent | 1996 | Haines, Benjamin John | 1985 |
| Baron, Timothy J | 1979 | Cross, Janet Lea | 1986 | Haldiman, Tina Suzette | 1985 |
| Batcheler, Joseph Edward | 1995 | Crume, James L | 1981 | Hall, Donald E | 1974 |
| Baur, John C | 1996 | Dagestad, Pamela S | 1978 | Hampel, Richard G | 1977 |
| Becker, Kathryn A | 1976 | Dalton, Brian Scott | 1991 | Hankins, Judith A | 1980 |
| Beeram, Ranga Reddy | 1992 | Danz, Steven William | 1987 | Hardy, David Joseph | 1997 |
| Bennett, Carol Ann | 1992 | Davis, Jeffrey Mark | 2000 | Haring, Carl D | 1973 |
| Biggs, Roger Earl | 1987 | Davis, Miles Edward | 2000 | Haring, James Donald | 1989 |
| Bilderback, Christopher Brian | 2002 | Dearth, David W | 1968 | Harrington, Laura Ellen | 1983 |
| Billing, Colleen | 1987 | Debner, David E | 1968 | Hayden, Bruce Jeffrey | 1983 |
| Birdsell, Clifford J | 1982 | Dillon, Janet Elaine | 1982 | Herman, Lynn Marie | 1987 |
| Bischel, Pat Oscar | 1987 | Doerer, Daniel Michael | 1988 | Herold, Lawrence W | 1974 |
| Bohn, Ellen B | 1974 | Drewes, Laurie Ann | 1985 | Heydtmann, Dirk | 1993 |
| Bollinger, Terry B | 1977 | Duncan, Kevin Tyler | 1982 | Hickman, Lewis Lee | 1996 |
| Boone, Mark Ryan | 1987 | Dunford, Randall B | 1974 | Hilke, David L | 1980 |
| Bornmann, Carol Ann | 1982 | Edmondson, L Vincent | 1985 | Hillhouse, Michael D | 1975 |
| Bowman, Charles S | 1986 | Edwards, Harry K | 1964 | Hilliard, Anthony Wayne | 2000 |
| Brady, Amber Megann | 1983 | Eggen, Roger Edwin | 1986 | Hooper, James W | 1971 |
| Breidert, Janice E | 1973 | Ellis, Michael G | 1985 | Howard, Steven R | 1981 |
| Brenneke, Kenneth J | 1978 | Erickson, Christina K | 1975 | Hughes, Jason Michael | 1995 |
| Brown, Daniel J | 1974 | Estep, Ronald L | 1971 | Jenkins, William W | 1978 |
| Bruhn, Kurtis Matthew | 1987 | Evans, Jesse D | 1965 | Johnson, Jerry G | 1964 |
| Brune, Charles D | 1978 | Fannin, David Paul | 1992 | Johnson, Matt David | 2000 |
| Bruns, Daniel E L | 1974 | Farley, Mary Ann | 1984 | Jones, John David | 1986 |
| Brunts, Barbara E | 1981 | Farley, Stanton K | 1978 | Jones, Keith Norman | 1984 |
| Brusati, Patricia L | 1987 | Feltmann, Jennifer Annet | 1988 | Kemp, Russell W | 1970 |
| Buckley, Jared Roger | 1996 | Foehrweiser, Roger Keith | 1987 | Kennedy, Kelly Ann | 1986 |
| Buehler, Douglas P | 1979 | Folta, Joseph E | 1976 | Kern, Steven Gerard | 1992 |
| Buescher, John R | 1986 | Ford, Raymond F | 1970 | King, Janet M | 1980 |
| Bumpus, Gary W | 1971 | Fox, Richard Keith | 1986 | Koclanes, Michael P | 1979 |
| Burgdorf, Erik D | 1980 | Frager, Alan R | 1974 | Kornfeld, Paula J | 1979 |
| Cameron, Jill Alison | 1984 | Francis, David H | 1975 | Krasner, Herbert C | 1973 |
| Cates, Carolyn Jane | 1985 | Gaitros, Donald L | 1966 | Kuebler, Kenneth L | 1970 |
| Chao, Kuo-Ting | 1994 | Galli, Donald H | 1974 | Kunz, Frederick L | 1978 |
| Childress, Curtis W | 1983 | Garrison, Gary Ralph | 1989 | Kyle, Sherry L | 1985 |
| | | Gavin, James Douglas | 1987 | Langan, Robert Paul | 1986 |

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|---|---|---|---|---|---|
| Langer, Richard B | 1983 | Osman, John Howard | 1983 | Sigman, Scott Lee | 1999 |
| Laufman, Anne E | 1983 | Owensby, Roger Wayne | 1986 | Simon, Kimberly M | 1976 |
| Leach, David Bruce | 1996 | Pace, Gary Glen | 1984 | Simpson, John Lawrence | 1997 |
| Lee, Kuo-Chi | 1975 | Panapakkam, Anitha | 1994 | Sinn, Larry F | 1975 |
| Lei, Gin Yu | 1984 | Parrett, Minh T | 1979 | Sisko, Bruce Peter | 1987 |
| Lenz, Richard G | 1974 | Parsons, Clyde T | 1972 | Smith, Brian Lynn | 1987 |
| Leonard, Kay E | 1977 | Parthasarathy, Murali | 1995 | Smull, Bradley David | 1997 |
| Li, Chang | 1997 | Paschke, Allen J | 1975 | Sorrell, Scott Alfred | 1992 |
| Liao, Ruijia | 1996 | Peery, John W | 1967 | Spencer, Kate Elizabeth | 2000 |
| Lindesmith, Stanley B | 1990 | Peterman, John W | 1984 | Spradlin, Charles | 1983 |
| Lindstrom, John A | 1973 | Pile, Thomas N | 1979 | Stager, Scott P | 1970 |
| Little, R Wayne | 1989 | Plag, Darlene Gail | 1981 | Stahl, Joseph W | 1969 |
| Liu, Li | 1996 | Post, Mark K | 1978 | Stalnaker, Kevin W | 1979 |
| Long, Leland L | 1959 | Pritchett, Peggy Ann | 1990 | Stamer, Paul Joseph | 1997 |
| Loomstein, Patricia Ann | 1989 | Puhl, Lisa Joan | 1982 | Starbuck, Jason Leon | 1997 |
| Lorenzen, Stanley D | 1975 | Putz, Robert C | 1964 | Stone, Barry N | 1978 |
| Martin, Bennie F | 1986 | Queern, John Kneedler | 1981 | Stout, Richard F | 1985 |
| Maurseth, Vicky J | 1974 | Rafferty, Patrick V | 1975 | Stratman, Curtis Steven | 2001 |
| Maus, James Henry | 1995 | Reed, Rebecca S | 1981 | Sudduth, Diane Jean | 1987 |
| Mausshardt, Charles | 1983 | Rehkop, Thomas G | 1974 | Swoboda, Scott Alan | 1994 |
| Mayberry, Christopher M | 1998 | Reinbolt, Mark Donald | 1985 | Tadda, George P | 1989 |
| Mayberry, Mark Lane | 1987 | Reinhardt, Mary Jane | 1986 | Taylor, Charles Ray | 1973 |
| McBride, Gregory C | 1975 | Reini, Jennifer Ann | 1987 | Thomas, Gary W | 1978 |
| McCormick, C Craig | 1968 | Richards, James L | 1972 | Thorsell, Carl W | 1969 |
| McLaughlin, Ellen C | 1989 | Richesson, Jennifer Jo | 1994 | Treptow, Eric B | 1981 |
| McMahon, Thomas Patrick | 1995 | Robertson, Kevin Dale | 1997 | Vandergriff, Matthew W | 1998 |
| McNally, John Michael | 1983 | Robinson, Sally J | 1987 | Vora, Chetan Bharat | 1997 |
| Meeks, Robert F | 1987 | Sage, Barry E | 1980 | Walker, Joseph D | 1974 |
| Messmer, Kevin Michael | 1988 | Sanderson, Jerome B | 1985 | Walker, Rhonda A | 1977 |
| Meyer, John William | 1990 | Santos, Carmela Rosario C | 1996 | Wegman, John L | 1975 |
| Mills, Andy Ray | 1989 | Sauer, David Bernard | 1986 | White, James J | 1974 |
| Mills, Edward L | 1956 | Savells, Kenneth C | 1974 | Wieberg, Peggy A | 1986 |
| Mitchell, Deborah Gay | 1984 | Schaeperkoetter, Vernon R | 1982 | Winebright, G. Michael | 1980 |
| Monsees, Robert L | 1970 | Schaper, Gary E | 1993 | Winfield, Scott B | 1973 |
| Mouli, Ashok | 1987 | Schath, Michael L | 1986 | Wiseman, Susan Marie | 1987 |
| Mullen, Daniel Francis | 1972 | Scheer, John Albert | 1988 | Wittmaier, Charles Walter | 1996 |
| Nagawiecki, Gregory Edwin | 1984 | Schneider, Robert J | 1971 | Wolters, David J | 1970 |
| Neugebauer, Chris Allen | 1987 | Schneider, Susan | 1982 | Woods, Kathy Sue | 1984 |
| Nolde, Keith A | 1974 | Schroeder, Curtis Michael | 1988 | Work, Paul R | 1990 |
| O'Brennan, Gerald K | 1986 | Schuehler, David Vincent | 1993 | Workman, J Douglas | 1971 |
| Oakes, Jack L | 1990 | Schuessler, Richard B | 1972 | Woytus, John Martin | 1987 |
| Oldroyd, Juanice E | 1983 | Segura, Lynn Kathleen | 1987 | Wren, Frances K | 1978 |
| Oleson, Randolph A | 1975 | Serban, Cristina | 1993 | Wu, Lin | 2000 |
| Olmstead, Sheila M | 1985 | Settle, Benjamin A | 1983 | Wuthnow, Debbie Ann | 1985 |
| Onstott, Danny Lee | 1997 | Shi, Yuning | 2000 | Yarnall, Charles F | 1976 |
| Ortbals, Robert J | 1978 | Shipman, Lee Gene | 1993 | Zenor, John J | 1963 |
| Osborne, Carol Jean | 1985 | Short, Daniel Ross | 1983 | Ziaja, Kathryn Ann | 1993 |

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| Abernathie, Dale Allen | 1991 | Gerlt, Robert Eugene | 1989 | McNicholl, Daniel G | 1980 |
| Abshier, John C | 1983 | Glaenzer, Mark David | 1988 | Meier, Curtis P | 1983 |
| Adams, Steven Richard | 1982 | Goertzen, Patrick H | 1982 | Menke, Elaine A | 1973 |
| Androlewicz, Thomas R | 1977 | Graham, David Brian | 1983 | Menkel, Phillip Louis | 1998 |
| Antal, David D | 1975 | Grose, Daniel W | 1977 | Mersinger, Rozann P | 1981 |
| Bailey, Wayne P | 1976 | Guevel, Lawrence A | 1976 | Miskell, Lynn Rene | 1983 |
| Baker, Gregory Dean | 1984 | Hall, Allyson Taylor | 1997 | Montague, Michael W | 1973 |
| Bardsley, Jeannine M | 1983 | Hall, Carla Cecilia | 1994 | Muldoon, Mary Ellen | 1991 |
| Beckmeyer, Margy A | 1973 | Hall, Charles Ray | 1983 | Musial, Christopher | 1982 |
| Belk, Paul Shannon | 1993 | Hayes, Kevin Brian | 1988 | Nau, Steven N | 1970 |
| Blume, David J | 1964 | Hellrich, James H | 1973 | Nekorchuk, Russell L | 1970 |
| Boecker, Mark S | 1974 | Herzog, Jeffrey Allen | 1992 | Nemer-Preece, Nicole Anne | 1994 |
| Booth, Brian David | 1997 | Hicks, Richard Jay | 1989 | Newcomer, John | 1989 |
| Bortfeld, Mark K | 1979 | Hilgers, Michael G | 1985 | Nichols, Byron K | 1973 |
| Bowles, Anthony Wayne | 1989 | Hilleary, Alexander L | 1976 | Nolan, Richard T | 1973 |
| Brandon, Dwight W | 1983 | Hirschbuehler, Daniel C | 1980 | Noland, Leslie A | 1977 |
| Braun, Paul A | 1981 | Ho, Kuang C | 1971 | Nordeng, Karen Squires | 1989 |
| Brewer, David W | 1969 | Hodges, John L | 1961 | Oellig, Galen R | 1988 |
| Burke, Terence Michael | 1995 | Hoelscher, John C | 1972 | Phipps, Neil Alan | 2001 |
| Canis, Randy L | 1997 | Hojnowski, James G | 1984 | Piper, Timothy Edward | 1996 |
| Carson, David J | 1975 | Holley, Jean Karen | 1981 | Porter, David Bryan | 1988 |
| Chen, Emy A-Mei | 1974 | House, Randy Lee | 1982 | Potzmann, Kim J | 1970 |
| Cheng, Nai-Weng | 1987 | Huff, Donald Leroy | 1993 | Pratt, Michael L | 1978 |
| Cholerton, Edward M | 1986 | James, David Loren | 1985 | Pryor, Gary Alan | 1995 |
| Chrisman, George F | 1969 | Jedlicka, Marla Irene | 1987 | Randall, Adonica D | 1975 |
| Codespoti, Daniel J | 1974 | Jones, David S | 1964 | Randazzo, Vincent A | 1989 |
| Coffman, Mary B | 1978 | Jones, James S | 1974 | Reed, Danny A | 1978 |
| Cook, Thomas Edward | 1985 | Jones, Roger M | 1971 | Rider, Adam Clinton | 1993 |
| Cornell, David Lawrence | 1986 | Judd, Dennis L | 1974 | Rosselet, Susan Mary | 1983 |
| Cox, Steven George | 1998 | Kammer, Darren R | 1991 | Roth, Michael G | 1972 |
| Crenshaw, Robert J | 1974 | Keep, Andrew William | 1999 | Rothschild, Susan H | 1974 |
| DePauw, Thomas J | 1973 | Kleekamp, Kurt Richard | 1987 | Scarponcini, Paul | 1988 |
| Denney, Stephen Kent | 1994 | Kleikamp, David John | 1986 | Scherer, Keith W | 1982 |
| Doerr, Jerry W | 1967 | Klemmer, Susan H | 1966 | Scherer, Kenneth Paul | 1982 |
| Drake, Sandra Jo | 1993 | Krall, William R | 1969 | Schmutzler, Allen J | 1977 |
| Dupont, Steven J | 1974 | Lawrence, Jackie L | 1978 | Schreiner, Michael J | 1971 |
| Eaton, William A | 1970 | Little, Russell D | 1982 | Shaffer, Russell C | 1969 |
| Evans, William David | 1984 | Loesch, Janet L | 1980 | Shu, Min-Chun Jenny | 1982 |
| Feldmann, Robert C | 1980 | Lyon, James S | 1972 | Smith, Houstin G | 1981 |
| Fieseler, Catherine N | 1980 | Magee, Michael W | 1978 | Smith, Johanna Marie | 1985 |
| Fischer, Thomas W | 1976 | Marsh, Charles L | 1976 | Smith, Neil S | 1968 |
| Fitzgerald, Barton L | 1993 | Marshall, William K | 1984 | Sowers, James R | 1969 |
| Freiberger, Keith | 1984 | Maxwell, Shonie Christine | 1994 | St. Clair, Daniel C | 1975 |
| Ganofsky, John R | 1978 | McAdams, Patricia A | 1977 | Stark, John Evan | 1989 |
| Gentry, Timothy W | 1977 | McBride, Sandra R | 1970 | Steffan, Cheryl A | 1969 |
| George, John Scott | 1972 | McClenning, John C. | 1991 | Stein, Michael S | 1986 |
| | | McKee, Richard H | 1974 | Stocking, Terry Lee | 1989 |

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| Stone, John Edward | 1994 |
| Storms, Alexander J | 1998 |
| Stratman, Mark X | 1973 |
| Sullivan, Kevin Dennis | 1995 |
| Szygenda, Ralph James | 1970 |
| Tatum, Carolyn Joan | 1982 |
| Taylor, Timothy Topper | 1987 |
| Timson, George Robert | 1986 |
| Toombs, Howard L | 1976 |
| Washburn, Ricky L | 1979 |
| Wasleski, Steven Francis | 1987 |
| Watson, Lowell R | 1979 |
| Watson, Susan Elaine | 1983 |
| Wickerham, Lawrence J | 1972 |
| Wilson, David James | 1987 |
| Wood, Richard William | 1987 |
| Wylie, James G | 1969 |
| Zike, David Scott | 1982 |
| Zlatic, Milton T | 1971 |



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# INSTRUCTIONAL PROGRAMS

### DISTANCE EDUCATION

The department continues to be heavily involved in offering many of its junior/senior and graduate level courses through UMR's distance education facilities. Classes consist of both local and distance students. Distance students view the classes through streaming internet video while being connected by telephone to class discussions. Lectures are archived so they may be reviewed at any time. Class notes and handouts are provided on the instructor's website.

Classes are originated locally and remotely. Last fall, Dr. St. Clair team-taught his CS 404 data mining class with Dr. Chris Merz of MasterCard International in St. Charles County, Missouri. Dr. St. Clair had a class section at UMR while Dr. Merz had a class section at MasterCard. In addition, there were students at various places in North America, including Canada. The ability to originate classes from outside of Rolla, provides the department with access to an extremely talented group of practicing professionals. In addition, to Dr. Merz, Dr. William Bond, a software engineer and group leader at Boeing teaches some of the department's software engineering classes. Mr. Randy Canis, a patent attorney for Greensfelder, Hemker, & Gale, P.C. and a UMR CS alum, teaches our computers and laws class. These classes originate from the Engineering Education Center in St. Louis (EEC). They are transmitted, in real time, to students on campus as well as to internet students.

Additional information about UMR CS distance education classes can be found on the department's web page. We hope to offer the complete MS degree program via the web within a year or two.

### GRADUATE CERTIFICATE PROGRAMS

The department currently offers two graduate certificates, one in Software Design & Development and the other in Multimedia and Information Systems. Each program provides a four-course sequence of graduate courses that give students an opportunity to increase their knowledge in specific areas. Successful completion of the courses with a "B" or better qualifies the student for entrance into the CS MS program. Additional information can be found on our web page at www.cs.umr.edu or by contacting Dr. Bruce McMillin, our Graduate Coordinator at ff@umr.edu

## KEEPING IN TOUCH

**Dr. Michael Hilgers** has had a busy year continuing his sponsored research into virtual reality simulations resulting in the development of FiRSTE (First Responder Simulation and Training Environment). This has been a cooperative effort involving faculty and students from several departments on campus and experts from the military. The Provost appointed him Director of the Instructional Development Center, which  has been realigned and now reports to the campus Chief Information Officer. He receives a quarter time release from his departmental duties for this special assignment. This past year also included a significant reorganization of the Hilgers family with the birth of Benjamin (now 1 year old) who joins his sister, Abigail (3 years old) and his mother Lois as the lights of Mike's life.

**Carleen "Corky" Humphrey** is still keeping very busy with departmental duties. She really enjoys working in the Computer Science Department; the faculty and students are a great group with which to work. She enjoys spending all her free time with her family and especially her 6 year old grandson, Briar. Her daughter Nichole is expecting her first child in May, and Grandma is very excited about the arrival of her second grandchild.

**Dr. Frank Liu** continues his research collaboration with the software engineering center at the Toshiba Corporation in the area of software quality management and process improvement using quality function deployment and CMM/CMMI, supported by his fifth annual research grant from the company. He is teaching software testing and quality assurance, data structure, and software engineering II. He moved back to Rolla from St. Louis last year.

**Dr. Sanjay Madria** is currently busy with 6 funded research projects with an army of 11 students working for PhD and MS thesis. He is currently teaching courses he has developed in the area of web and wireless computing. His International commitment has extended to collaborative projects with Japan, and IBM research lab. His book has been released this year by Springer. Next year, he is planning to spend his summer in South Africa and Europe.

**Dr. Bruce McMillin** continues his work I conjunction with the ECE faculty on making the power grid more reliable. He is also working on intrusion detection for concurrent systems. He continues having a good time teaching CS 253, Data Structures II; as many of you have determined by now, your undergraduate education was much more rigorous than that of may of your peers, and CS 253 continues this tradition pulling what is often considered graduate material of performance analysis and correctness down into the undergraduate curriculum. On the home front, he and his family are doing a major renovation of their kitchen putting in , among other things, a 6 foot long cook top. He will let you know how the smoke handling works in next year's edition.

**Dave Mentis** continues to teach CS 53 (Introduction to Programming in C++) and CS 158 (Discrete Math). He is still involved in the department's computer systems administration. He and his family have life on their farm and are always involved in a variety of projects.

**Dr. Ann Miller** , the Cynthia Tang Missouri Distinguished Professor of Computer Engineering, holds a join appointment with CS. Dr. Miller has been re-elected as Chair of the NATO Information Systems Technology Panel and continues to serve as Vice President of IEEE Reliability Society. She is also the Associate Editor for Software Management for IEEE Software. On campus, Dr. Miller's Trustworthy Systems Laboratory has been expanded; the facility gives students hands-on experience with high-speed routers, switches, and hubs in order to configure networks and subnets. The stand-alone network also allows students to work in attacker-defender teams. Dr. Miller is also the Assistant Chair for Computer Engineering within the Electrical and Computer Engineering Department.

**Clayton Price** reports that he has quite enjoyed his first year of marriage to Tülin; all is well on the home front and they are beginning to settle into a routine. Clayton's  academic life has been shaken out of its comfortable repose since he took on the instruction of CS 328, Object-Oriented Numerical Modeling I. With Dr. Hilgers' appointment to head the ISDC and his subsequent 1/4-time release, the department needed someone to take on the CS 328 course. Clayton saw this as a great opportunity to expand his knowledge of C++, and possibly to gain insight to new and/or different material to include in the introductory C++ programming courses. It's been a tough semester, but a very productive and interesting one.

**Dr. Chaman Sabharwal** teaches courses in Analysis of Algorithms and Graphics and Java Visualization.  He still commutes back and forth from St. Louis.

**Dr. S.R. Subramanya** developed a new graduate level course titled "Computer Security" which was offered for the first time in Winter 2002 semester. The course will again be offered in Winter 2003. Dr. Subra has been offering in Multimedia Systems course that he has developed during the Fall semesters. He was invited to present tutorials on Multimedia and Security at a few conferences recently.

**Dr. Ralph Wilkerson** was named Associate Dean of the College of Arts and Sciences in the Fall 2002 semester. His research interests are in the areas of artificial intelligence and algorithms. He had an unsuccessful hunting trip to Colorado, though he did see a bear up close and personal! Locally, bow hunting was a lot better.

**Dr. Franck Xia** teaches courses in Software Engineering and Programming Languages & Translators, his interests are software engineering, digital topology/geometry, pattern recognition/computer vision and information systems.

# COMPUTER SCIENCE MISCELLANEOUS PHOTOS

# COMPUTER SCIENCE MISCELLANEOUS PHOTOS

UNIVERSITY OF MISSOURI-ROLLA

COMPUTER SCIENCE

325 Computer Science Building

1870 Miner Circle

Rolla, MO. 65409-0350

Phone: 573-341-4491

Fax: 573-341-4501

Email: csdept@umr.edu

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## WEB PAGES OF INTEREST:

- www.umr.edu—UMR home page

- www.cs.umr.edu—choose Prospective Students/Intro to Comp Sci/Introduction to CS at UMR-This is a presentation we use with prospective students.

- www.cs.umr.edu—choose Prospective Students/Intro to Comp Sci/UMR CS Department Profile-This gives a brief overview of some departmental statistics

- Http://campus.umr.edu/registrar—This page provides access to catalog and course information as well as enrollment statistics.