News

Argonne NATIONAL LABORATORY

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DOE dedicates Argonne Leadership Computing Facility

From left, U.S. Rep. Judy Biggert (left), Ray Orbach, the U.S. Department of Energy's Under Secretary for Science, and Argonne Director Robert Rosner prepare to dedicate the Argonne Leadership Computing Facility by running a simulation on the facility's new BlueGene/P supercomputer. Photo by George Joch.

The Argonne Leadership Computing Facility (ALCF) was dedicated April 21 during a ceremony attended by key federal, state and local officials.

The ALCF is a leadership-class computing facility that enables the research and development community to make innovative and high-impact science and engineering breakthroughs. Through the ALCF, researchers conduct computationally intensive projects on the largest possible scale. Argonne operates the ALCF for the DOE Office of Science as part of the larger DOE Leadership Computing Facility strategy. DOE leads the world in providing the most capable civilian supercomputers for science.

"I am delighted to see this realization of our vision to bring the power of the department's high-performance computing to open scientific research," said DOE Under Secretary for Science Raymond L. Orbach. "This facility will not only strengthen our scientific capability but also advance the competitiveness of the region and our nation. The early results span the gamut from astrophysics to Parkinson's research and are exciting examples of what's to come."

Orbach, Patricia Dehmer, DOE Office of Science Deputy Director for Science Programs, and Michael Strayer, DOE Associate Director of Science for Advanced Scientific Computing Research, attended the ALCF dedication, along with Congresswoman Judy Biggert.

DOE makes the computing power of the ALCF available to a highly select group of researchers at publicly and privately held research organizations, universities and industrial concerns in the United States and overseas. Major ALCF projects are chosen by DOE through a competitive peer review program known as Innovative and Novel Computational Impact on Theory and Experiment (INCITE).

Earlier this year, DOE announced that 20 INCITE projects were awarded 111 million hours of computing time at the ALCF. The diverse array of awards includes projects led by Igor Tsigelny, San Diego Supercomputer Center, University of California, San Diego, to model the molecular basis of Parkinson's disease; William Tang, Princeton Plasma Physics Laboratory, to conduct high-resolution global simulations of plasma microturbulence; and Jeffrey Fox, Gene Network Sciences, to simulate potentially dangerous rhythm disorders of the heart that will provide greater insight into these disorders and ideas for prevention and treatment. Academic institutions, including the University of Chicago, the University of California at Davis and Northwestern University, and large public companies such as Proctor & Gamble and Pratt & Whitney, also received computing time at the ALCF through INCITE.

Argonne has been a leading force in high-performance computers. Two years prior to the establishment of the ALCF in 2006, Argonne and Lawrence Livermore National Laboratory began working closely with IBM to develop a

See "ALCF Dedication" on page 3

Argonne models help increase efficiency of healthcare industry

Jared Sagoff

The convoluted world of health care and patient management might soon become a little more streamlined, thanks to models created by researchers in Argonne's Decision and Information Sciences (DIS) division.

DIS is hosting a talk titled "The Role of Science and Technology in Establishing a Nationwide Health Information Network and Improving the Healthcare System in the United States," by John Loonsk, director of the Office of Interoperability and Standards in the Department of Health and Human Services (HHS). The talk will take place Wednesday, May 14, from 10:30-11:30 a.m. in the Building 362 Auditorium.

"We need to see how well hospitals and doctors meet the needs of the community," said software engineer Dariusz Blachowicz. "Measuring quality of care is a tricky business, simply because there are so many layers in the healthcare system: operations, facilities, employers and regulators."

By using these models to examine how policy trickles down through the different levels of decision making, Argonne's researchers can save time and money by anticipating where the likely hiccups are in the system.

The complexity that riddles healthcare management in the United States creates inefficiencies that can end up costing hospitals and local governments hundreds of millions of dollars, according to DIS Deputy Division Director Pam Sydelko. Close to 20 percent of the diagnostic laboratory tests that doctors perform are redundancies caused by insufficient access to patients' medical histories.

In order to help solve this problem, researchers at HHS have started to develop a nationwide information exchange network that would transfer paper records into an electronic format that doctors could access unhindered from any part of the country. Argonne's strong background in developing healthcare models will allow the laboratory to "piggyback" their existing technology onto HHS' network development. Once completed, the network would enable doctors to quickly share information in the event of an epidemic, software engineer Kathy Simunich said.

"Right now, medical information doesn't get spread quickly enough for us to respond in the way that we would

See "Modeling" on page 4

Argonne scientists develop techniques for creating molecular movies

Brock Cooper

They may never win an Oscar, but Argonne scientists have developed techniques for creating accurate movies of biological and chemical molecules, a feat only theorized up until now.

Biological and organic molecules in solution are far more complex than the standard crystalline structures of salt or metals since they are constantly moving and changing over time. These motions have not yet been seen directly, but scientists using the high-intensity X-rays at the Advanced Photon Source have measured images that are "blurred" by these motions and have used them to create more accurate movies of molecular motions.

Computer simulations are currently the only way to visualize molecular motions in solution, but researchers have not had a means to check the accuracy of these simulations for complex molecules. For the first time, scientists can see the movements first-hand and compare them to their theoretical counterparts.

"The blurring that we see in our solution X-ray patterns is remarkably sensitive to the type of the molecular motion," said senior chemist David Tiede (CSE). "For the first time, we are able to test the accuracy of the simulation and change it to fit data better. Without it, we had no way of knowing how accurate the models were."

Tiede hopes an improved accuracy in molecular modeling will give insights into the structure and behavior of the molecules. Collaborators at the National Institutes of Health have used this approach to help determine structures of important biological molecules.

Tiede and his collaborators also plan to examine how a structure reacts to an outside stimulus. By using a laser to excite the atoms, he will create a movie that shows how the molecule

See "Molecular movies" on page 2

UChicago Argonne LLC

Office of Science U.S. DEPARTMENT OF ENERGY

ARGONNE NATIONAL LABORATORY IS MANAGED BY UCHICAGO ARGONNE, LLC FOR THE U.S. DEPARTMENT OF ENERGY

Two new members join Board of Governors for Argonne

UChicago Argonne, LLC has named two new members to its Board of Governors for Argonne National Laboratory: Avijit Ghosh, vice president for technical and economic development and professor of business administration, University of Illinois at Urbana-Champaign, and Joseph Walsh, vice president for research and professor, Department of Biomedical Engineering, Northwestern University.

UChicago Argonne, LLC, a University of Chicago company which manages Argonne for the U.S. Department of Energy, selects new board members from faculty, administrators and trustees of the university, as well as from other universities, national and international organizations, and from industry.

Avijit Ghosh

Ghosh spearheaded a number of new initiatives at the University of Illinois, including launching new programs, revising existing programs and starting new research centers. Ghosh also fostered significant changes to the undergraduate program. Under his leadership, the college sharpened its focus on graduate and professional education, which has attracted significant external recognition. In an effort to serve the Chicago corporate community more directly, the college established new programs for working professionals in downtown Chicago. In fall 2003, the College of Business began offering its executive MBA degree in cooperation with the University of Warsaw, Poland. Ghosh currently oversees a $75 million fundraising campaign to fund the construction of a state-of-the-art instructional facility, double the endowment for named chairs, programmatic initiatives, research support, and student scholarships and fellowships.

Ghosh's research interests are in the areas of marketing and retail strategy and location analysis. He is a well known educator, researcher and consultant in these fields. He is the author of a number of books on retailing and location analysis, and his research has appeared in leading academic journals in marketing and geography. He was the editor of the Journal of Retailing from 1985 to 1991 and has served on the editorial boards of a number of professional journals.

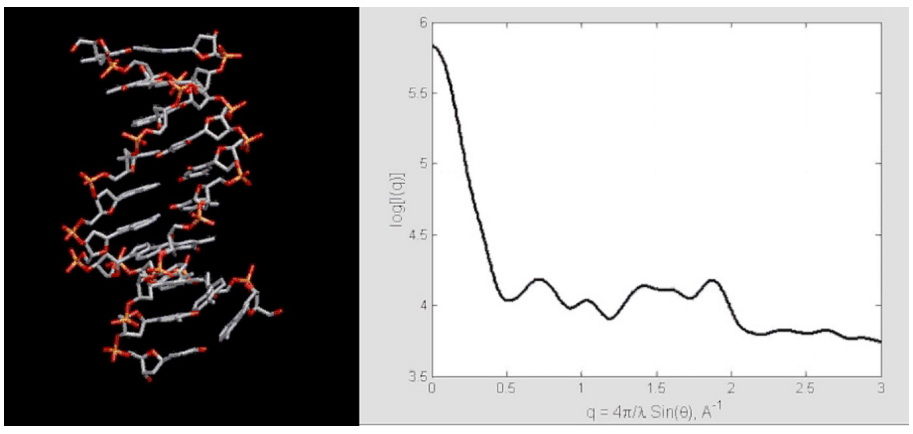
Walsh's research area is the study of light-tissue interactions. He has a 25-year history of investigating the photophysics and photobiology of laser-based ablation. He is currently investigating tissue birefringence feedback systems, the propagation of polarized light in tissue, optically induced stimulation of the auditory system, and nanostructured surfaces for biosensing applications. Walsh is a co-investigator in an NSF-funded Engineering Research Center that conducts research at the confluence of university engineering teaching and educational theory. He is the principle investigator on two NIH grants: one that has resulted in the development of a surface enhanced Raman spectroscopy glucose sensor; the other that has yielded a polarization-based imaging system for identification of pathologic lesions without biopsy.

Walsh's awards and honors include vice-president and president, American Society for Lasers in Medicine and Surgery; William B. Mark Award, American Society for Lasers in Surgery and Medicine; Advisor of the Year Award, McCormick School of Engineering and Applied Sciences, Northwestern; The Keynote Speaker, 25th Anniversary Meeting of the American Society for Lasers in Medicine and Surgery; Fellow, American Institute for Medical and Biological Engineering; Teacher of the Year Award, McCormick School of Engineering and Applied Sciences, Northwestern; National Science Foundation Young Investigator Award; and many others.

Joseph Walsh

He has chaired numerous international conferences and his research has been published in a wide variety of refereed journals. He has written review articles, book chapters, conference proceedings, abstracts, book reviews and given many talks. His discoveries have resulted in several patents.

Molecular movies



Biological and organic molecules in solution, such as DNA, are far more complex than the standard crystalline structures of salt or metals since they are constantly moving and changing over time. These motions have not yet been seen directly, but scientists using the high high-intensity X-rays at the Advanced Photon Source have measured images that are "blurred" by these motions and have used them to create more accurate movies of molecular motions. Watch molecular movies online at www.anl.gov/Media_Center/News/2008/news080415.html

Continued from page 1

reacts to the initial laser pulse and also how it returns to a stable condition.

"We hope to establish between 'good' and 'bad' molecular actors in important chemical processes like photosynthesis, solar energy and catalysts," Tiede said. "Once we see that, we can make these processes work better."

Funding for this research was provided by the U.S. Department of Energy, Office of Science, Office of Basic Energy Sciences. The mission of the Basic Energy Sciences program — a multipurpose, scientific research effort — is to foster and support fundamental research to expand the scientific foundations for new and improved energy technologies and for understanding and mitigating the environmental impacts of energy use. The portfolio supports work in the natural sciences, emphasizing fundamental research in materials sciences, chemistry, geosciences and aspects of biosciences.

Interest rates set for annuity funds

Current interest rates for the annuity funds in the staff and non-staff retirement plans are:

Vendor	Rate	Contributions From	Earned Through
TIAA Traditional	5.25%	04/01/08 – 06/30/08	02/28/09
TIAA Supplemental	4.50%	04/01/08 – 06/30/08	02/28/09
Prudential Guaranteed (Plans 5017 & 4245)	4.42%	04/01/08 – 06/30/08	06/30/08
Prudential Guaranteed (Plans 4643 & 7680)	3.50%	04/01/08 – 06/30/08	12/31/08
Lincoln National (Old Account)*	3.50%	N/A	06/30/08
Lincoln National (No Load)*	4.00%	N/A	06/30/08

(* No longer accepting contributions)

Ar'gang

New Arrivals

A girl, Charlotte Abigail, born Feb. 25 to Michele and **Charles Bacon** (MCS); a girl, Elizabeth Addison, born April 4 to **Mike** (CIS) and **Jessie** (SUF-PA) **Skwarek** and third grandchild of **Mary Kay Skwarek** (CIS-NTS).

Proud Grandparents: granddaughter, Ella Renee, born Feb. 13 to **Nancy La Rue** (OCF/PRO); grandson, Jacob Matthew, born Feb. 20 to **Beth Bonczalski** (OCF/PRO); grandson, Joseph Michael, born March 3 to **Gary Edgell** (OCF/PRO); granddaughter Laura Rose, born to **Roger Poeppel** (EVS); grandson Anthony James, born Jan. 24 to **Jim Regis** (NE); and quadruplets born to **Debbie Vervack** (CSE).

Weddings/Engagements

Congratulations to **Sandra Bittner** (CIS/LCF/MCS) who was recently engaged to Chris Brown.

Get well

Get well to **Beth Bonczalski** (OCF), and **Kevin Cleary** and **Joe Tavarczky** (both FMS-BM).

Welcome

EVS welcomes **Karl Fischer**; OCF-PRO welcomes **Derrek Patton**; FMS-BM welcomes **Charles Whiteford**

Transfers

Good luck to **Nancy La Rue** who transferred from OCF/PRO to BIO.

Farewell

Good luck to **Katrina Thomas** (EVS) and **Suraiya Farukhi** (CPA) who have left the laboratory.

Condolences

Our condolences to **Marilyn Gliva** (EVS) on the death of her mother; **Judy Stickels** (MCS) on the death of her father; **Phil Pfeiffer** (NOD) on the death of his mother; **Jackie Vasallo** (OCF-PRO) on the death of her grandfather; **Luana Merle** (OCF-PRO) on the death of her mother-in-law; **Sharon Godar** (OCF-PRO) on the death of her father; **Rick Chlapecka** (FMS-BM) on the death of his father; **Dominick Bruno** (FMS-BM) on the death of his father; **Cindy Smithberg** (FMS-BM) on the death of her mother; **Pat Boley** (CPA) on the death of her mother and mother-in-law; **Barbara Richardson** (CSE) on death of her husband, **James Richardson** (IPNS); **Gary Henriksen** (CSE) on the death of his stepmother; and **Mark Clark** (NOD) on the death of his father.

Accomplishments

Congratulations to **Tom Wiencek**, **Ronald Lanham**, **Ed O'Hare** and **Anton Moisseytsev** (all NE) who all received Pacesetter Awards; to **Fran Clark** (NE) who was part of a group that received the 2007 Joseph J. Jacobs Master Builder Award, to **Dave Pointer** (NE) who was awarded the 2007 American Nuclear Society Young Member Excellence Award; and to **Marjorie Brockman** (OCF/PUR) who received a Lifetime Certified Purchasing Manager certification through the Institute of Supply Technology.

Contributors

Thanks to this issue's contributors: **Nancy La Rue** (BIO), **Judy Beumer** (MCS), **Kathleen Fitzgerald** (NOD), **Sharon Giblin** (CSE), **Nancy Cantwell** (FMS), **Lori Greenwood** (EVS), **Brea**

Several employees receive SPOT Awards

The SPOT Award recognizes employees' contribution to safety and quality at the laboratory. The award recognizes employees "on-the-spot" who exhibit good safety behavior or initiative. Employees who are given SPOT awards receive a certificate as well as their choice of a $25 gift card to local businesses such as BP Amoco, Olive Garden, Home Depot and more.

• **Zack Bubinas** (NOD/WM) responded to the tank breach in the Building 310 subservice floor. Bubinas volunteered to stay after hours until analytical results for the water were received in the event that the water was contaminated and required pumping to portable holding tanks.

• **Willie Campbell** (FMS) noticed an inbound shipment of chemicals not being properly segregated. Campbell immediately brought the matter to the attention of her supervisor.

• **Steve Davey** (AES) completed the integration of the LMS Safety and Health Team process flow charts, prepared a binder of the results and gave a briefing to LMS executives. The material, charts and presentation were of such high quality that the LMS executives obtained a highly positive view of the LMS S&H Team.

• **Lynda Dieckman** (BIO) has reviewed and re-reviewed the electronic Job Hazards Questionnaire (eJHQ) in the BIO division. Dieckman's hard work has helped assure that her division's individual hazard assessments are accurate.

• **Steve Dorris** (ES) assisted a co-worker who did not have access to a computer for online training and was not familiar with how to access online training courses. Dorris took the time to set up the training for his co-worker to ensure it was completed on time.

• **Jeff Dukes** (NOD/WM) responded to the tank breach in the Building 310 subservice floor. Dukes assessed the flooded areas to determine whether the water had breached into the service floor of building 306, which is a HC3 nuclear facility. Dukes monitored the water levels to ensure a quick response in the event of another tank breach between areas 310 and 306.

• **Mary Hoff** (OCF) was the first Training Management System representative to achieve 100 percent completion of the eJHQ for her division.

• **Ronda Knapik** (EQO/RAD safety) quickly responded and followed up to an employee's emergency ergonomic situation. Knapik's efforts enabled management to learn about the severity of this issue quickly and determine the necessary corrective actions to reduce the employee's risk factors at work.

• **Kim Lindgren** (NOD/WM) quickly responded to a 911 call regarding a tank breach in the Building 310 subservice floor where a broken water line caused the influx of over 100,000 gallons of water to accumulate to over 15 feet deep in the main retention tank area. Lindgren determined the extent of the conditions, identified needed equipment, coordinated with office staff to have portable tanks on standby and assigned Waste Mechanics to support stabilization and cleanup efforts.

• **Aziz Mal'y** (EQO/RSO) free-released the H-wing of Building 202 while still performing routine operational work. Several times Mal'y found a path forward for disposing of odd items. Mal'y's paperwork was completed in a timely manner and his demeanor while performing the tasks was positive and well-received by the customer.

• **L. Moos** (EQO) prevented injury to personnel and wildlife by identifying a number of exposed conductors that posed an electrical hazard on three site perimeter air samplers. Upon recognition of the serious hazard, Moos immediately stopped work, directed shutdown of the system and contacted his supervisor and the appropriate personnel to begin repairs.

• **Brian Palaszynski** (FMS) quickly responded to a call for help regarding an icy parking lot. Without hesitation he made the decision to help, with his actions possibly preventing employee injuries.

• **Mary Jo Ridenour** (EQO) spent time and effort assisting a worker in the successful completion of Rad Worker I training. The training was given over a two-day period and was personally tailored to the individual's needs.

• **Eric Wilkinson** (NOD/WM) also responded to the tank breach in the 310 subservice floor. Wilkinson volunteered to stay after hours until analytical results for the water were received in the event that the water was contaminated and required pumping to portable holding tanks.

Retirees

Patria P. Leath (EVS) retired March 14 with 12 years of service.

Vinod K. Gambhir (FMS-ENG) retired Feb. 29 with 24 years of service.

David S. Ayres (HEP) retired March 14 with 28 years of service.

James B. Davis (ASD) retired Feb. 29 with 41 years of service.

Richard McDaniel (FMS) retired March 4 with 37 years of service.

Arthur Schultz (IPNS) retired April 18 with 31 years of service.

William Sullivan (ASD) retired Feb. 29 with 43 years of service.

Thomas Worlton (IPNS) retired Feb. 29 with 37 years of service.

George Vasilopulos (ASD) retired Feb. 29 with 35 years of service.

ALCF dedication

Pete Beckman, ALCF acting division director, at right, led a tour of the BlueGene/P supercomputer. From left are Ray Orbach, DOE Under Secretary for Science; Pat Dehmer, Deputy Director for Science Programs, DOE Office of Science; U.S. Rep. Judy Biggert and Argonne Director Robert Rosner. Photo by George Joch.

Continued from page 1

series of computing systems based on IBM's BlueGene platform. Argonne and IBM jointly sponsor the international BlueGene Consortium to share expertise and software for the IBM BlueGene family of computers.

Since 2005, Argonne has taken delivery of a BlueGene/L and BlueGene/P that have a combined performance capability of 556 teraflops per second. Key strengths include a low-power system-on-a-chip architecture that dramatically improves reliability and power efficiency. The BlueGene systems also feature a scalable communications fabric that enables science applications to spend more time computing and less time moving data between CPUs. Together with DOE's other Leadership Computing Facility at Oak Ridge National Laboratory (ORNL), which has deployed a large Cray supercomputer, computational scientists have platforms that provide capabilities for breakthrough science.

"The ALCF has tremendous computing ability, making it one of the country's preeminent computing facilities," said Argonne Director Robert Rosner. "The research results generated by the ALCF will be used to develop technologies beneficial to the U.S. economy and address issues that range from the environment and clean and efficient energy to climate change and healthcare."

DOE selected a team composed of Argonne, ORNL and Pacific Northwest National Laboratory (PNNL) in 2004 to develop the DOE Office of Science (SC) Leadership Computing Facilities after a competitive peer review of four proposals. PNNL operates the Molecular Science Computing Facility, and Lawrence Berkeley National Laboratory runs the National Energy Research Science Computing Center. DOE SC's computational capabilities are expected to quadruple the current INCITE award allocations to nearly a billion processor hours in 2009.

Service Awards

30 years
Rajesh K. Ahluwalia (NE), Donna Nurczyk Keto (NE), Teresa A. Lang (SCD), Deborah K. O'Rourke (BIO)

25 years
Ira D. Bloom (CSE), Geoffrey T. Bodwin (HEP), M. Lorenza Salinas (TSD)

20 years
Mary A. Buckley (TSD), John C. Daum (FMS), Theresa M. Davis (EQO)

15 years
Thomas Carten (FMS), Gregg Kulma (EQO), Marlene Frances Nowotarski (OCF), John Quinn (EVS)

10 years
Patricia C. Boley (CPA), Edward Lang (PNS), Alicia Soto (OTD), Joseph A. Vucko (FMS), David C. Young (FMS)

5 years
Jonathan D. Almer (XSD), Ryan A. Brody (AES), Daniela Capatina (AES), Carlotta K. Lukowski (AES), Yang Ren (XSD), Nathan A. Rinsema (DIS), Daniel S. Schabacker (ES), Stefan Vogt (XSD), Robert B. Von Dreele (XSD), Conrad G. Zadlo, Jr. (CIS)

Allied Electronics and MNJ Technologies Direct now available through AMOS

The Argonne Materals Ordering System (AMOS), which is available to all Argonne employees, now has two new companies' products available for purchase, Allied Electronics and MNJ Technologies Direct.

The AMOS ordering system can be reached via Inside Argonne.

https://portalapp8.anl.gov/amos/faces/home.jsp

Argonne NATIONAL LABORATORY

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VIP visit *- Illinois Senate Majority Leader Debbie Halvorson (D-Crete) visited the Center for Nanoscale Materials April 14. Here, suited up for the clean room in the Nanofabrication Facility, she examines the focused ion beam tool.*

Nuclear issues for next president topic of director's special colloquium

"Nuclear Weapons, Nuclear Power and Climate Change: Options and Opportunities for the Next Administration" will be the topic of a Director's Special Colloquium by Vic Reis, a U.S. Department of Energy senior advisor, on Tuesday, May 6, in the Building 362 Auditorium. The colloquium will begin at 9 a.m.

The next president of the United States will face a series of issues related to the domestic and international nuclear enterprise. Reis will discuss how a small group at DOE has been analyzing these issues with a view toward providing the presidential and DOE transition team an objective perspective on how the U.S. nuclear enterprise — nuclear weapons, nuclear power, nuclear materials — taken together, can play a pivotal role in current and future U.S. national security, economic well-being and the environment, in particular climate change. This talk will review the results of this effort so far. Comments and suggestions from attendees are welcome.

Reis is a senior advisor in the Office of the Secretary, and is also a member of the Strategic Advisory Group of the U.S. Strategic Command. He led the development of the DOE's Stockpile Stewardship Program when he was assistant secretary for defense programs with DOE. He is a former member of Argonne's Board of Governors.

Reis's past government appointments include serving as director of the Defense Advanced Research Projects Agency, director of defense research and engineering at the Pentagon and assistant director for national security and space, Office of Science and Technology Policy, Executive Office of the President. He has been a senior vice president at Science Applications International Corporation, and a senior staff member at MIT's Lincoln Laboratory and other industrial positions. He has chaired and served on numerous government and laboratory committees.

He has authored numerous scientific and policy publications and his awards include two Department of Defense Distinguished Public Service Medals.

Modeling

Continued from page 1

like," Simunich said. "But if we can set up this network, we can provide hospitals with a lifeline in the most critical times."

The applications of such a network could extend far beyond the exchange of medical records. For instance, a government organization like the Federal Emergency Management Agency could use these capabilities to organize relief efforts in the event of a natural disaster. "By strengthening our generic capabilities in modeling and simulation, we've created a large number of cross-compatibilities that will enable a whole range of users to tailor our network to their own ends," Simunich said.

Classified ads

MISCELLANEOUS

GIFT CARD – I received a $135 Staples gift card in lieu of a rebate. I'll sell for $125. Cindy Crawford. (708) 974-1619.

BICYCLES – Two 10-speed bicycles, one women's, one men's. They are new but have been sitting around for years. Both bicycles for $50. Tim Hentsch. (708) 479-1539.

MISCELLANEOUS – Large set of hand tools (over 150 pieces) and Craftsman cabinet, extras. $250 for all. Redwood lounge and chair. $40. Kenneth Dritz. (708) 598-3119.

TV – Panasonic wide screen HD-TV 47" projection Television, DVD with surround included. $500. Wayne Michalek. (815) 372-2285.

CAMERAS – Canon EOS Rebel 35MM Camera, lens 35-80mm, Cobra auto focus flash, KALIMAR AFZ 6000 auto focus flash, extra 6 volt battery, gadget bag. $150. Sony Cybershot digital camera model DSC-W1, 5.1 MP, 3X optical zoom, battery charger, 10 rechargeable AA batteries, 7 memory sticks, camera case. $200. Tish Kaatz. (630) 306-7235.

MOVING SALE – Queen Sleeper Sofa-Bed, attached seat and back cushions made from polyfoam and wrapped in polyester fabric. Hardwood and plywood frame. Sleeper sofa measures 81-1/2x35-1/2x36"H; 20" seat height. Includes queen size mattress. Assembled in USA of imported materials. $200. Journal table from wood (light brown color) for living room. $20. Svetlana Kharlamova. (630) 297-1420.

PLUSH TOYS – Daughter grown up. Lots of plush toys for sale, all from loving home. $10/each. Gary Davidoff. (708) 246-3319.

MISCELLANEOUS – Old Maytag ringer washer. $10. Siding, vinyl, cream color, 400 sq.ft in box, $250 new. Sell for $100. Ron Lanham. (630) 461-7270.

ELECTRICAL WIRE – 14-gauge solid copper electrical wire, 500-ft spools, black, white, color. $20/each. Eugene Swetin. (847) 940-0199.

SCOOTER – Victory mobility scooter, brand new, used about five times. Paid $2,700, asking $2,000 OBO. Judy Prehn. (815) 372-3475.

HOUSING

APARTMENT/SHARE – Unfurnished apartment to share, about 7 miles from Lab, utilities included. $350/month. Moonkyu Park. (630) 991-6594.

HOUSE/SALE – 3 bedroom ranch, 2 1/2 car garage, in Bolingbrook, a few minutes from the lab! Near I-55, Bolingbrook Promenade Mall, and St. Dominick's church and grade school. Very pleasant home and family-friendly neighborhood. $185,000. Nancy Kieronski. (630) 428-7738.

TOWNHOUSE/SALE – or would consider lease with option to buy – Yorkville 2 BR + Loft, 1.5 Baths, attached Garage, all Appliances stay, including washer/dryer. Club house, Pool & Elementary School in subdiv. Minutes from I-88, Fox River & Silver Springs State Park. $159,900 L. Brooks. (630) 385-2417.

TOWNHOUSE/SALE – Cozy new townhouse, 2 bedroom/2 bath with Jacuzzi tub. Ceramic flooring and spacious 2-car garage, all appliances are staying. Nicely landscaped and close to various parks such as Midewin Tall Grass Prairie and the Des Plaines Conservatory. Pictures available. Cathy Peters. (630) 863-4263 or Spider581@aol.com.

HOUSE/RENT OR SALE – 7 miles from lab, unincorporated Will County, low taxes. 4-bedroom, half acre, new siding, improvements. Eric Lindert. (815) 886-4504.

CONDO/SALE – Exceptional Riverwalk condo for sale, view Riverside forests, riverdam, 2 balconies. A hidden Shangri-la, yet minutes to First Av, 55. Thomas J. Kovarik. (708) 446-8664.

AUTOMOBILES

1992 CHEVY – Caprice Classic, lt. blue, A/C, power windows, locks, seats, AM/FM cassette stereo, 127,000 original miles, beautiful condition, non-smoker. Very well maintained, oil changed every 2,200 miles, transmission rebuilt at 117,000 miles. Pat Pepper. (708) 598-3274.

1997 FORD – E150 Handicap hi-top van with Crow River wheelchair accessories lift, V-8, good shape with extras, priced to sell. $4,550. Jim Oprzedek. (630) 910-1009.

1995 NISSAN – Altima, 145k miles, manual transmission, all power, cruise control. $1,400. Konstantin Ignatyev. (630) 322-9819.

WANTED

CAR – Older car for elderly couple. Needs to be dependable and easy to drive. Reasonable. Karen Kucer. (815) 838-3609.

BRANCH CLIPPER – Reasonably priced. Kurt Boerste. (815) 834-1897.

TO BE GIVEN AWAY

TURTLE – This small painted turtle was found last January in my back yard upside down and half frozen. It is missing both paws on one side and thus cannot be returned to the wild. Tony Levand. (630) 783-1981.