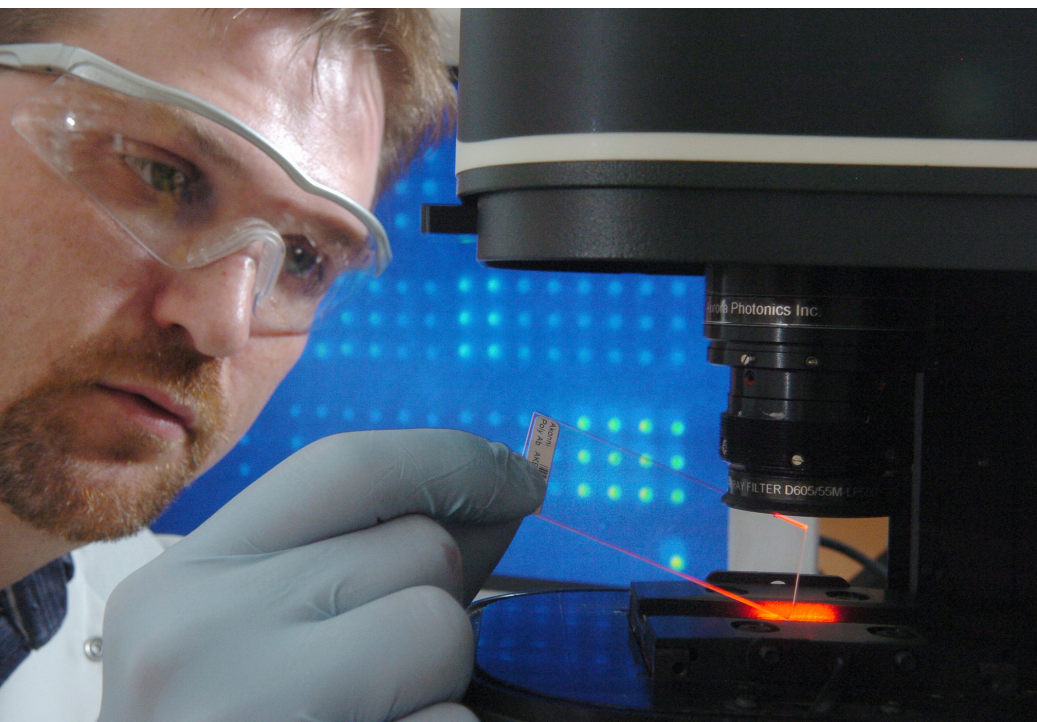


Biochips can detect cancers before symptoms develop



Argonne biologist Daniel Schabacker prepares to load a biochip onto a scanner developed by one of Argonne's licensees, Aurora Photonics.

Jared Sagoff

In their fight against cancer, doctors have just gained an impressive new weapon to add to their arsenal. Argonne researchers have developed a chip that can save lives by diagnosing certain cancers even before patients become symptomatic.

The new technology, known as a biochip, consists of a one- by one-centimeter array comprising anywhere between several dozen and several hundred "dots," or small drops. Each of these drops contains a unique protein, antibody or nucleic acid that will attach to a particular DNA sequence or antigen.

A tumor, even in its earliest asymptomatic phases, can slough off proteins that find their way into a patient's circulatory system. These proteins trigger the immune system to kick into gear, producing antibodies that regulate which proteins belong and which do not.

"Antibodies are the guardians of what goes on in the body," said Tim Barder, president of Eprogen, Inc., which has licensed Argonne's biochip technology to search for new biomarkers that indicate cancer. "If a cancer cell produces aberrant proteins, then it's very likely that the patient will have an antibody profile that differs from that of a healthy person. You can look for similarities and differences in auto-antibody profiles to look for clues and markers that provide early indicators of disease."

In their hunt for cancer indicators, Eprogen uses a process called 2-dimensional protein fractionation, which sorts thousands of different proteins from cancer cells by both their electrical charge

and their hydrophobicity, or "stickiness."

The 2-D fractionation process creates 960 separate protein fractions, which are then arranged in a single biochip containing 96-well grids. Eprogen scientists then probe the microarrays with known serum or plasma "auto-antibodies" produced by the immune systems of cancer patients.

By using cancer patients' own auto-antibodies as a diagnostic tool, doctors could potentially tailor treatments based on their personal autoantibody profile. "This technology is really designed to take advantage of the information contained within the patient's own biology," Barder said. "What makes this technique unique is that scientists can use the actual expression of the patient's disease as a means of obtaining new and better diagnostic information that doctors could use to understand and fight cancer better."

"We're starting to see a way of developing tests and therapies for cancer by bringing the bedside to the laboratory, rather than the other way around," he added.

Biochips have already shown promise in diagnostic medicine, according to Argonne biologist Daniel Schabacker (ES), who developed the technology. In addition to Eprogen, three other companies have licensed biochips, he said. One of these companies, Akonni Biosystems of Frederick, Md., has already produced dozens of assays, which it markets under the TruArray® brand name. Another company, Safeguard Biosystems, licenses biochips for veterinary diagnostic applications.

See "Biochips" on page 3

Isaacs named deputy laboratory director for science programs



Isaacs

Eric Isaacs is taking a leave of absence from his position as director of Argonne's Center for Nanoscale Materials to become the deputy laboratory director for science programs. Isaacs will

report directly to the laboratory director.

Stephen Streiffer has been appointed acting director of the Center for Nanoscale Materials.

The associate laboratory directors will report to Isaacs, who will oversee the laboratory-directed research and development program and the Division of Educational Programs. He will lead the laboratory's comprehensive strategic planning effort, which is essential to securing support from DOE for existing and future programs. The challenge is to continually position Argonne to play a unique and powerful role in the nation's research and development enterprise and identify emerging opportunities that build on our strengths.

In his new position, Isaacs will work closely with laboratory scientists, engineers, senior management, the Argonne Board of Governors and the University of Chicago in charting and implementing

future directions in science and technology. As he leads the strategic planning efforts, he will work to ensure engagement at all levels of the laboratory and to build consensus among university, Department of Energy, area research universities and other critical stakeholders. He will be responsible for communicating internally and externally throughout this process, and for mobilizing LDRD resources in support of our strategic initiatives.

For the last five years, Isaacs has distinguished himself both as director of the Center for Nanoscale Materials and as professor of physics in the University of Chicago's James Franck Institute. During his 13-year tenure at Bell Laboratories, he was a member of the technical staff, director of the Materials Physics Research Department and director of the Semiconductor Physics Department. He received his Ph.D. from Massachusetts Institute of Technology in 1988 in the area of magnetic superconductors and was a postdoctoral fellow at Bell Laboratories (1988-1990) studying magnetism and superconductivity, mostly with synchrotron-based X-ray techniques.

He is a fellow of the American Physical Society and served on a number of national scientific advisory committees, including the Basic Energy Sciences Advisory Committee. ▀

Crabtree elected to National Academy of Sciences



Crabtree

Materials Science Division Director George W. Crabtree was elected a member of the National Academy of Sciences (NAS) for his excellence in original scientific research. Membership in the NAS

is one of the highest honors given to a scientist or engineer in the United States. Crabtree will be inducted into the Academy next April during its 146th annual meeting in Washington, D.C.

Crabtree, elected along with 71 others, brings the number of Argonne researchers elected to NAS to three. There are currently just over 2,000 active NAS members. Among the NAS's renowned members are Albert Einstein, Robert Oppenheimer, Thomas Edison, Orville Wright and Alexander Graham Bell. More than 180 living academy members

have won Nobel Prizes.

Crabtree holds the title of Argonne Distinguished Fellow, the laboratory's highest scientific and engineering rank. The title, held by fewer than 30 Argonne employees, is comparable in stature to an endowed chair at a top-ranked university and recognizes exceptional contributions in a person's field.

Crabtree is a noted expert in the field of superconducting materials. He has won numerous awards for his pioneering research in the field, and his work has been frequently cited by other researchers.

The NAS is a private, not-for-profit honor society of distinguished scholars engaged in scientific and engineering research, dedicated to the furthering science and technology and to their use for the general welfare. Established in 1863, the NAS has served to "investigate, examine, experiment and report upon any subject of science or art" whenever called upon to do so by any department of the government. ▀

INSIDE

- PROPOSALS SOUGHT FOR UNIVERSITY-FERMI LAB SEED GRANTS; PROJECTS INCLUDING ARGONNE RESEARCHERS ELIGIBLE
- ARGONNE STUDENT EARNS SPOT AT PRESTIGIOUS NOBEL CONFERENCE
- NEWEST GREET MODEL UPDATES ENVIRONMENTAL IMPACTS OF LATEST TRANSPORTATION FUELS, VEHICLE TECHNOLOGIES



UChicago
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Proposals sought for University-Fermilab seed grants; projects including Argonne researchers eligible

The University of Chicago Office of the Vice President for Research and for National Laboratories has announced the continuation of the University-Fermilab Strategic Collaborative Initiatives program that supports collaborative research projects between the University of Chicago faculty and Fermilab scientists and engineers. Joint proposals that include researchers from Argonne will also be considered under this program.

Research funded will be new projects intended to provide the basis for future collaborative research between the university and the laboratory. Ongoing projects that received support in year one of this program will also be considered for a second year of support.

Criteria for selection of proposals include importance of the work, whether the collaboration creates a more powerful or convincing research program than could be achieved by working independently, and potential to achieve and sustain an ongoing collaboration. Proposals for ongoing support should provide evidence of outstanding progress to date and clear potential for continued success.

Applications are due Friday, May 30. Application forms and proposal guidelines can be obtained by request from Mary Ann Esquivel at mesquive@uchicago.edu. Proposals should be assembled and submitted using the pro-

vided forms and guidelines and should clearly make a scientific case, identify principal investigators and other personnel, existing resources and resources sought. There must be at least one applicant from each institution on each proposal, and university applicants must be PI-eligible. Proposal budgets should be in the range of \$50,000 to \$100,000 for one year.

Laboratory directors, relevant deans and others with necessary expertise will evaluate proposals and assess their merits. The final selection will be made on or about July 1. Upon completion of the project, PIs will provide a brief written report on the scientific results of the project and how the funds were used.

Proposals should be submitted electronically by PDF attachment to mesquive@uchicago.edu. Additional questions should be directed to Larry Hill, associate vice president for national laboratories, at lhill@uchicago.edu or (773) 702-2060.

The University-Fermilab SCI program was developed by the university as part of the laboratory management contract for Fermilab. The university developed a similar program for Argonne as part of the Argonne management contract. Details for that program will be forthcoming after the start of the next federal fiscal year. ▀

Argonne student earns spot at prestigious Nobel conference

A Northwestern University student working on his doctoral dissertation in Argonne's Physics Division has been accepted to participate in the 58th Meeting of Nobel Laureates in Lindau, Germany.

Daniel Lascar is one of a small number of students from around the world invited to attend the meeting to hear lectures by Nobel laureates and participate in discussions. Since 1953, 500 to 700 top students and young researchers from all over the world attend the event annually, often as a reward for the quality of their performance and research work, according to the Lindau Web site.

Lascar is finishing his doctoral dissertation work at Argonne with the

Canadian Penning Trap mass spectrometer group, identifying the mass of six short-lived nuclei with astrophysical importance. The nuclei are important in the rapid neutron capture process and most of the masses on that list have never been measured.

He received his bachelor's degree in physics from the University of Chicago with a specialization in astrophysics. He then worked at the Weizmann Institute in Rehovot, Israel, continuing his research in gas electron multipliers before attending Northwestern University where he earned a master's degree in physics and is now pursuing his doctorate. ▀



'Safety Guy' puts a face on injuries, illnesses

"Safety Guy" will soon be a familiar sight around the laboratory. Safety Guy is a graphic way to represent the recordable injuries and illnesses Argonne site employees have incurred during the fiscal year.

"Safety Guy is designed to help focus our attention on where and how

employees have been injured, so management and employees can think about how similar injuries can be prevented and carried out," said EQO Director Danny Whitaker-Sheppard. Each marking on Safety Guy indicates the U.S. Occupational Safety and Health Administration classification, injury location, type of injury and activity at the time of injury.

Safety Guy will be updated weekly on the Director's Safety Council home page and will appear on posters and bulletin boards around the site.

"The laboratory's goal is zero injuries, zero illnesses and zero incidents," Whitaker-Sheppard said. "Before you begin work and while working, take a look at Safety Guy and think about safety and preventing injuries." ▀

http://inside.anl.gov/tools/safety/safety_council/

Newest GREET model updates environmental impacts of latest transportation fuels, vehicle technologies

The newest version of the Greenhouse gases, Regulated Emissions and Energy use in Transportation (GREET) model from Argonne will provide researchers with even more tools to evaluate and compare the environmental impacts of new transportation fuels and advanced vehicle technologies.

Led by Michael Wang (ES), a group of Argonne transportation researchers regularly update key parameters and assumptions in the GREET model on the basis of new research and development in fuel pathways and vehicle technologies. Today, GREET can simulate more than 100 fuel-production pathways and more than 80 vehicle/fuel systems. The model has more than 4,000 registered users worldwide.

Several state and federal agencies have used GREET to aid in their considerations of potential fuel greenhouse gas regulations. For example, the U.S. Environmental Protection Agency uses a specific set of assumptions with the

GREET model in its analysis of the reductions in greenhouse gas emissions resulting from the potential expanded use of renewable and alternative fuels. The California Air Resources Board has been using a GREET version in its effort to develop low-carbon fuel standards.

Funding for the development and maintenance of the GREET project was provided by the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy through the Vehicle Technologies Program, Office of Biomass Program and Office of Hydrogen, Fuel Cells and Infrastructure Technologies Program.

GREET software is available at no charge. To learn more about its functionality, visit the GREET Web site. ▀

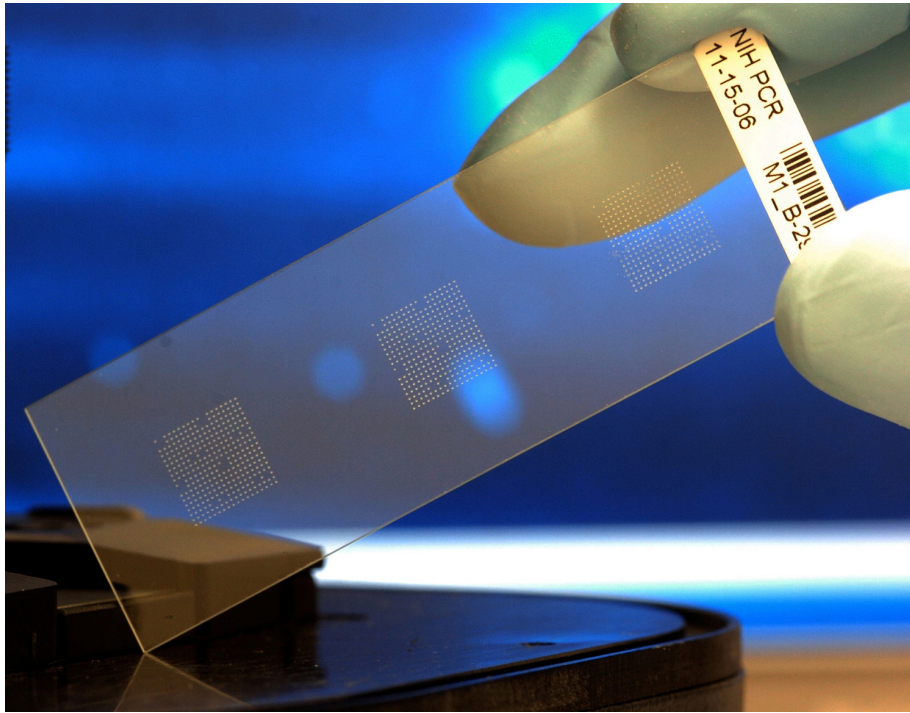
www.transportation.anl.gov/software/GREET/



Bodman at Biomass

Argonne's Office of Technology Transfer (OTT) hosted a VIP visitor at its exhibit at the Biomass 2008 conference: U.S. Secretary of Energy Samuel Bodman. From left to right are Michael Wang (ES), Bodman, and Seth Snyder (ES). Cindy Wesolowski (OTT) also helped staff the exhibit. Ed Daniels, May Wu, and Salil Arora (all ES) also participated in the conference, which highlighted some of Argonne's research on biofuels and their impacts. Biomass 2008: "Fueling Our Future" was held in April in Alexandria, Va. Sponsored by DOE's Office of Energy Efficiency and Renewable Energy (EERE), the conference brought together experts from industry, academia and government to participate in two-day dialogue on the role of biofuels in reducing the nation's oil consumption. EERE uses Argonne's Life Cycle Analysis application "GREET" to evaluate biofuel pathways.

Biochips



Biochips contain grids of small wells or "dots," each of which contains a protein, antibody or nucleic acid that can bind to a target antigen or DNA sequence.

When a biochip tailored to detect upper respiratory diseases is exposed to a swab taken from a patient's mouth, for instance, the binding patterns of the proteins or nucleic acids in the array cause the dots to "light up" when scanned and analyzed with a computer. Computer algorithms decode the dot pattern produced by the biochip, calculate the statistical likelihood of each possible infection and provide this information to the doctor.

"Suppose someone shows up in the hospital and they're sick with an upper respiratory infection," said Schabacker. "The first thing a doctor is going to want to know is whether the infection is viral or bacterial; this is especially true in pediatrics. And ideally, they'd really like to have a single test that they can run very rapidly that will identify exactly which disease you have from a dozen top targets."

The development of products like TruArray will soon revolutionize doctors' ability to quickly diagnose a number of diseases, Schabacker said. For example, while existing rapid strep tests performed by many pediatricians take only a few minutes to process, they yield so many false negatives that doctors routinely send out the samples for subsequent rounds of more thorough, time-consuming and expensive analyses.

"The unique advantage offered by the TruArray platform lies in the fact that we can screen a single sample for multiple viral and bacterial infections at the same time," said Charles Daitch, Akonni's president and CEO. "Soon, doctors will no longer need to order as many expensive and time-consuming tests and can instead obtain accurate diagnoses that will enable them to quickly provide their patients with targeted treatment strategies."

Though the analysis of a sample on a biochip can take 30 minutes, scientists can have much more confidence in the accuracy of the diagnosis, according to Schabacker. "Biochips give us the ability to run a test that allows your doctor to figure out exactly what you're suffering from during the time that you're in his or her office," he said.

While biochips will allow doctors to more quickly and authoritatively explain

your sniffles, they might also be used for patients who exhibit symptoms of much more serious infections. By adding just a few more drops to the chip's array, Schabacker said, lab technicians could test for a whole slate of biotoxins and especially virulent diseases, from the plague to smallpox to anthrax.

Other infections, such as those caused by Multidrug-Resistant Tuberculosis (MDR-TB) and the often deadly Methicillin-resistant Staphylococcus aureus (MRSA), can be quickly diagnosed with biochips like Akonni's TruArray assay, according to Daitch.

"The most important thing with these types of infections is that you have to be right and get the answer quickly," Schabacker said. "Some of the tests out there, though marginally quicker than ours, are so inaccurate that they're almost useless. Especially when you're talking about anthrax or plague, you have to be confident in your diagnosis or else risk causing a panic." ▀

Simple, inexpensive fix makes TSD Central Shops safer

Technical Services Division (TSD) Central Shops Manager Romas Senkevicius instituted a simple safety idea to help prevent employee injuries. Senkevicius came up with the idea of placing orange safety cones over unused utility connections in the Building 363 main shop after an employee bumped into an unused connection and scraped his shin.

As TSD acquires new machine tools, old machines are removed and the utility connections are retained for future use. Senkevicius purchased bright orange safety cones and placed one over each protruding utility connection, making them easier to see and avoid.

Senkevicius' safety cone fix will help prevent trips, falls and scrapes and make Building 363 safer for all employees.

Argonne Today welcomes your safety stories and examples; contact Andrea Cipriani at acipriani@anl.gov. Report safety concerns to safety@anl.gov. ▀

SPOT Award winner put safety-first attitude into action

During last month's Administrative Professionals Day breakfast, the speaker got up and stood on a chair while speaking. Kay Winner (OTD) approached the speaker, in front of the audience of a more than 100 people, and asked her to step down from the chair. The speaker refused, but Winner was not deterred and insisted the speaker get down from the chair for safety.

Winner put a safety-first attitude into action and did not give up until the speaker removed herself from on top of the chair. Winner received a SPOT

Award for her strong initiative and quick thinking to avoid a potential injury.

The Spot Award allows "on-the-spot" recognition of employees who exhibit good safety behavior or initiative. The Spot Award recipient receives all of the following:

- \$25 gift card, available for a variety of local stores and services. The recipient may choose among the certificates available.
- Spot Award Certificate
- Recognition in *Argonne Today*



SPOT Award recipient Kay Winner stands proudly with Steve Richardson, chief operations officer.

Several other employees also received SPOT awards this month:

- Katherine Ruffatto (DIS) took on the responsibility of helping all 315 DIS employees file their electronic Job Hazard Questionnaires in a timely manner. This task was especially hard since there were approximately 160 STAs and off-site personnel who could not access the electronic system or who experi-

enced problems with the operation of the system. Ruffatto personally worked with each supervisor and employee to get the problems resolved. Ruffatto's efforts helped the DIS division achieve 100 percent compliance.

- Carol Grebic (DIS) reported to work in the morning and noticed that the night cleaning crew left a vacuum cleaner in one of the offices. When moving it out of the way she noticed that the electrical cord was frayed in several places, exposing bare conductors and posing a shock hazard. Grebic notified the appropriate staff and had the vacuum taken out of service for repairs.

- Stanislaw Jedralski (FMS/CU&GR) spotted a water leak on the back side of a beamline at the Advanced Photon Source (APS). Jedralski quickly informed a supervisor so they could take care of it immediately.

- Greg Fletcher (CSE) was asked in passing by another employee for a tool that can only be operated by a qualified electrical worker. Fletcher recognized the employee was not qualified and may not have understood the requirements needed to perform the electrical testing and troubleshooting. Fletcher promptly notified the ESH coordinator who investigated and educated workers of the fact that they could not perform the work they were planning without the proper work planning and controls.

- Rodney Currie (FMS/CU) observed

See "SPOT Awards" on page 4



Romas Senkevicius (TSD) demonstrates safety in action by placing an orange cone over an unused utility connection in Building 363.

Board of Governors to honor employees and children at annual awards program

The UChicago Argonne, LLC Board of Governors for Argonne will honor 10 employees and two children of employees with awards at its 2008 Awards Program on Tuesday, June 24.

Distinguished Performance Awards (DPA), which recognize the outstanding scientific or technical achievements, or a distinguished record of achievement of select Argonne employees, will be awarded to Khalil Amine, senior materials scientist, group leader, Chemical Sciences and Engineering Division; Orlando Auciello, senior physicist, Materials Science Division; James E. Cahalan, senior nuclear engineer and department manager, Nuclear Engineering Division; and Stephen Gray, senior chemist – theoretical chemistry, Chemical Sciences and Engineering Division.

Outstanding Service Awards (OSA), the highest honor the University of Chicago gives to Argonne employees in support positions, will be awarded to Maria Heinig, administrative specialist, Intense Pulsed Neutron Source Division; Joseph L. Midlock, computer scientist, APS Engineering Support Division; John E. Pearson, engineer, Materials Sci-

ence Division; and Susan Barr Strasser, manager, User Programs, X-Ray Science Division.

Each DPA and OSA winner will be presented with an award and a check for \$3,500.

The Pinnacle of Education Award, which recognizes an individual for their leadership in science through the Division of Educational Programs, will be shared this year by Gian P. Felcher, STA senior physicist – emeritus, Materials Science Division, and Dennis M. Mills, deputy director, Scientific User Facilities. Both Felcher and Mills will be presented with an award and a check for \$1,750.

The University of Chicago will award an undergraduate scholarship to Yi Ren, son of Yang Ren, physicist in the X-Ray Science Division.

The 2008-2009 J. Harris Ward Graduate Fellowship, a one-time stipend of \$4,500, will be awarded to one child of an Argonne employee. This award is based on academic excellence achieved as an undergraduate and the student's contribution to his or her campus and local community. To be eligible for con-

Spot awards

Continued from page 3

a spark and smoke from a light fixture while changing lights in Building 221. Currie stopped work immediately and called his foreman. Maintenance was notified and the equipment is being repaired.

- James Golema (FMS) shared a safety minute with nearly 300 FMS personnel at an all-hands safety meeting. Golema reminded employees of the need to keep the lanyard attached ID badge secured so that on windy days the badge is not unexpectedly blown up into the employee's face, possibly striking an eye.

- Gary Redman (NOD) noted that the pickups scheduled for the last week of April would have put Waste Management over the Safety Evaluation limit of 225 Pu-FGE's stored in non-standard

sideration, a student must be a child of an Argonne employee, highly qualified academically, and have been admitted to one of the university's four graduate divisions or to one of six professional schools of the university. The winner will be named later this month.

The UChicago Argonne, LLC Board

containers for the B125 Fissile Control Zone. An alternate suitable location was subsequently selected for one of the containers.

- Richard Chlapecka (FMS) discovered a small refrigeration unit in a holding area awaiting disposal. Upon investigation, Chlapecka discovered that the unit still contained oil and refrigerant that needed to be reclaimed prior to disposal in order to comply with EPA regulations.

Any authorized manager or supervisor may give a Spot Award to an employee when the safe behavior or initiative is displayed, which gives the employee immediate recognition. For more information about SPOT awards, reference the HR Policy and Procedure Manual chapter 6100.3 titled "Safety and Quality Awards Procedure." ▀

of Governors 2008 Awards Program will begin at 2:30 p.m. in Argonne's Building 402 Auditorium. A reception will follow in the lower level gallery. All university, Argonne and U.S. Department of Energy employees whose schedules permit are invited to attend. Shuttle bus service will be provided lab-wide. ▀

Classified ads

MISCELLANEOUS

SEWING MACHINE – Sears Kenmore Sewing Machine, works well. \$50. Mary Kowalczyk. (630) 739-0130

WASHER AND DRYER PEDESTAL – 10" riser, should fit any washer & dryer. Raises machines about 10" off the ground to avoid water in wet basements or make front-loaders more accessible to those with bending/back issues, will deliver to lab. Installation possible, negotiable. \$25. Ron Kmak. (708) 301-1269.

MISCELLANEOUS - Four tickets to July 26 Jimmy Buffet concert at Toyota Park, Bridgeview, Section 205, Row 9, Seats 17-20, (upper deck but good view of stage). \$102 each. White parrot cage with playtop, perches and cups with wheels suitable for Macaw and large parrots, like new. \$500. Marjorie A. Brockman. (630) 257-7520.

FURNITURE - Traditional roll-arm sofa and chair, neutral color, plus matching end tables and tea tray coffee table, all in excellent condition. Digital photo available. All for \$700. Larry Johnson. (630) 416-3453.

DRYER - Maytag heavy duty gas dryer. Good condition. \$150. Antonina Urbala. (630) 235-1237.

PRINTER - Samsung ML2010. \$30. Qiang Zhang. (630) 210-1450.

WASHER AND DRYER - Whirlpool Estate washer and dryer, 5 years old, \$150 each. Ann Murray. (630) 257-7145.

YANKEES TICKETS - Various dates, Tuesdays thru Fridays. These are "hard" tickets (not e-tix) for the last season of

games in Yankee Stadium New York, NY. Call for list of specific dates. Claude Reed. (630) 217-0978.

GARAGE SALE - May 30, 1111 Kip Place, Lemont, Ill. (3 blocks east of State Street/Keepataw by Oakwood Elementary). Furniture, clothing, CDs, VHS videos, exercise equipment, and much more. Marjorie A. Brockman. (630) 257-7520.

WICKER FURNITURE - Like new couch, loveseat, chair, hassock, coffee table, and end table \$300. Vicki Skonicki. (708) 460-2364.

HOT TUB - Two person Dolphin Spa hot tub with over 20 therapy jets. Operates on 110V or 220V. Can be used indoors or outdoors. Excellent working condition. \$400 or best offer. Jeff Ullian. (815) 953-9607.

FUTON BUNK BED – Excellent condition, pictures available. Current cost for this model is \$300, will sell for \$75. Steve Kuhlman. (630) 779-9154.

AUTOMOBILES

2003 HONDA - Civic EX, 4 cyl, 44k miles, very good condition. New tires, brakes and battery, power moon roof. KBB \$12,000, asking \$11,000 or best offer. Tony Pietryla. (630) 294-6803.

2003 CHRYSLER - PT Cruiser, clean, 43,000 mi., Chrysler 7yr/70,000mi warranty, new tires. \$8350. Richard Raffentti. (630) 960-2049.

1996 HONDA - Civic EX, 4-dr, AT, PS, PB, moon roof, original owner, 131K miles, 27 - 34 MPG. \$3000. Vince Novick (630) 719-1208.

HOUSING

CONDO/SALE - In Willowbrook (off Kingery and I-55), 2 bedroom condo close to Argonne. Low taxes, new Pergo flooring throughout and new A/C. New storage cabinets and hutch and wall-to-wall closets with organizers. To view go to www.realtor.com/realstate/willowbrook-il-60527-10986733737. Marge Vaught. (815) 258-7088.

HOUSE/SHARE - 15 minutes from lab, unfurnished, utilities included. \$350/month. Moonkyu Park. (630) 991-6594.

TOWNHOUSE/SALE - Oak Lawn, 2 bedrooms, large closets, 1.1 baths, 1 carport, updated eat-in kitchen with new floor, new appliances included, new carpet in living room and staircase, new windows. \$159,900. Donna Doucet. (773) 852-5679.

CONDO/SALE - 2 bedroom, 2 bath downtown Arlington Heights condo. Walk to train, Jewel, restaurants, movies, etc. ~45min commute to lab straight down I-355, no traffic. Search MLS#06785106. \$359,900. Chad Mund. (847) 997-1803.

APARTMENT/RENT - One upper bedroom, downtown Morris, no pets, short term available. Water, stove, & refrigerator furnished. Background check, & security deposit required. \$525.00/month. Loren Knoblich. (815) 942-9815.

TOWNHOUSE/SALE OR RENT - w/ option to buy in Yorkville, 2 years old, 2 BR + loft, 1.5 baths, attached garage, all appliances stay, including w/d. Club house, pool & elem. school in subdiv. Minutes from I-88, Fox River & Silver Springs State Park. \$154,900. Lynne Brooks. (630) 385-2417 or lynne_brooks@comcast.net.

HOUSE/SALE - 2 bedroom, 1 bath home located on a corner lot in Crest Hill. Remodeled kitchen and bathroom in 2008, new hot water heater in 2005, new roof in 2003, brick fireplace in large living room, CA, 1 1/2 car det. garage, fenced yard, shed and patio. Low taxes. Chaney Monge Grade School and Lockport Township High Schools. 25 minutes to lab. Kathy Vanosky. (815) 726-7040.

TOWNHOUSE/SALE - Cozy new townhouse just outside Wilmington, 2 bedroom/2 bath with Jacuzzi tub. Heated Ceramic flooring and spacious 2-car garage. Washer, dryer, dishwasher and electric stove. Nicely landscaped and close to the Des Plaines River and Conservatory, Kankakee State Park and Midewin Tall Grass Praire. Pictures available upon request. Cathy Peters. Spider581@aol.com.

HOUSE/SHARE – Fully furnished, private bath, close to lab, utilities included. \$450/month. Rose Lee Pausche. (630) 739-0126.

WANTED

MISCELLANEOUS – Exercise bike and dehumidifier. Mary Lipowski. (815) 834-0337.

SHOES - Looking for Bowling shoes for children, misc. sizes. Mary Popper. (630) 257-3837.

FOUND

PIN - Argonne Deer pin in the women's bathroom in Building 200. Nancy Van Wermeskerken. Ext. 2-9649.

EYE GLASSES - Found in Building 363 on 4/21/2008. Come to room H149 in 363 to claim them. Robin Reierson. Ext. 2-5353. ▀