

Argonne, UIC researchers get the dirt on prairie soil

ANGELA Y. HARDIN

RESEARCHERS from Argonne and the University of Illinois at Chicago have dug up some interesting dirt on prairie soil and certain crops and grasses common to the central Midwest.

“Beyond growing crops like corn and soybeans, prairie soil is better than soils found in other parts of the United States at retaining carbon dioxide,” said Roser Matamala, a terrestrial ecologist in Argonne’s Biosciences Division and the principal investigator of two projects that measure the intake and release of carbon dioxide into the atmosphere. In addition, her research has found that certain types of vegetation are better than others at absorbing carbon dioxide.

The projects are located on an active farm site and a restored tallgrass prairie at the National Environmental Research Park on the grounds of the Fermi National Accelerator Laboratory in Batavia.

The absorption and retention of CO₂ by plants and soil, respectively, is beneficial because it means less of the greenhouse gas lingers in the atmosphere, absorbing the sun’s heat and contributing to the increase in Earth’s average temperature, Matamala said.

Data collected at the two research sites show that tall prairie grasses absorb more CO₂ per square meter in one year than corn and soy, she said, adding that soybeans absorb the least amount of CO₂. Tall prairie grasses, which are common in Illinois and other parts of the central Midwest, absorb up to 480 grams per square meter compared to 250 grams for corn.

Most absorbed CO₂ is used by the plants as a fuel, Matamala said, but it also becomes part of the plant, including the seed and grain. Much of the absorbed CO₂ in food crops like corn is harvested.

A substantial portion of a plant’s absorbed CO₂ is transported to the soil regardless of the type of plant. The CO₂ that is transported to the soil is eventually converted into organic matter. That conversion process continues for centuries before the soil becomes saturated, creating a sustained terrestrial carbon sink, an accumulation of absorbed carbon. Carbon that gets to the soil by this process does not accumulate in the atmosphere, thereby mitigating global warming.

Prairie land’s ability to retain high levels of CO₂ is an important feature of the vegetation and soils in the Midwest, Matamala said. Virgin prairie land — land that has never been cultivated — is richer in organic matter compared to restored prairie land. Organic matter makes soil dark in color.

Virgin prairie land has greater amounts of carbon than cultivated fields and restored areas, such as found at the



A solar-powered eddy flux tower located at a soybean field at Fermilab is measuring the exchange of carbon dioxide between plants and soil and the atmosphere to study the carbon balance of agricultural fields typical of the U.S. Midwest.

Fermilab site, because it is not disturbed by cultivation, Matamala said. Plowed soil respires, releasing CO₂.

The restoration of farmland leads to greater retention of CO₂, she said. “The soil in the prairie keeps more carbon dioxide in the winter compared to other regions,” Matamala said. Because the Midwest has longer periods of cooler to cold temperatures, less CO₂ is respired from the soil. And when the soil freezes, even less CO₂ is respired. Conversely, warm to hot temperatures and humid conditions activate microorganisms in soil and the microorganisms use the organic matter to grow, which releases CO₂ back into the atmosphere. Cultivated lands lose more soil carbon during spring and fall months compared to restored prairie land because the microorganisms in the soil are activated by warm temperatures and soil plowing.

The two projects are part of the AmeriFlux Network, a coordinated collection of long-term research sites in the Americas that are organized to quantify and understand the role the terrestrial biosphere has in global climate change. The goal of the AmeriFlux project is to collect data that computational scientists use to refine the resolution of climate change models.

“Refining the resolution of climate models can provide a better picture of what is happening in small geographical areas like cities, counties and states versus large geographical regions,” said Robert Jacob (MCS), an Argonne climate modeler.

The project’s research data is collected by two eddy covariance towers. One tower is located on a farmland that rotates corn and soybean crops under tillage. The other tower



Roser Matamala (BIO), principal investigator of the project.



Soils originated under prairie accumulated organic matter and became deep and fertile. Under cultivation, 40 percent of the original organic matter is lost. Sustainable cultivation and restoration practices bring back the carbon to the soil.

is located in a field that was restored with native grassland species in 1989 and represents long-term Conservation Reserve Program management.

AmeriFlux is sponsored by the U.S. Department of Energy’s Office of Biological and Environmental Research, the Department of Commerce’s National Oceanic and Atmospheric Administration, the Department of Agriculture and the National Aeronautic and Space Administration. ■

Budget cuts to affect several Argonne programs

A MESSAGE FROM ARGONNE DIRECTOR ROBERT ROSNER

AS YOU have been reading in *Argonne Today*, several of Argonne’s programs have been hard-hit by budget cuts stemming from an omnibus bill signed into law during the closing days of 2007. I hope to provide a more comprehensive view of the bill’s effects on Argonne, which are widespread.

The drastic cuts were the result of a showdown between Congress and the White House on overall domestic spending levels. Congress bundled these appropriations, including those for the U.S. Department of Energy, into an omnibus bill with smaller numbers for science research than had been anticipated for 2008.

The omnibus bill’s effects on Argonne will be significant, and only now are the outlines of those effects revealing themselves. The Intense Pulsed Neutron Source has been shut down and will be decommissioned years ahead of schedule. The High Energy Physics Division has lost funding for its participation in several major programs, (See “Budget cuts” on page 2)

Conclave to foster discussion on strategic initiatives

ALL INTERESTED Argonne researchers are invited to a Laboratory-Directed Research and Development (LDRD) Strategic Initiatives Conclave Friday, Jan. 25, in the Building 402 Auditorium. The conclave will be held from 9-11 a.m.

Those attending will hear about and discuss the laboratory’s strategic initiative areas and progress on strategic planning. Argonne Chief Scientist Michael Turner will present an update on FY 2008 LDRD strategic initiatives in the context of laboratory strategic planning. Strategic initiative leaders will give overviews of their initiatives and their plans for FY 2009.

Strategic initiative open-topical meetings will be held in February 2008. The schedule will be announced in coming weeks. These meetings are meant to tune and refine initiatives and allow newcomers to get involved.

“The laboratory’s portfolio of strategic LDRD investments are meant to position the laboratory to meet current and future needs of the U.S. Department of Energy and the nation,” Turner said. “An important part of the process is input from Argonne researchers. I encourage you to attend the conclave and the upcoming open-topical meetings.” ■

Budget cuts

(Continued from page 1)

such as the International Linear Collider and NoVA. The Advanced Photon Source will be forced to curtail operating hours. ATLAS will also curtail operating hours. Cutbacks in other programs are likely.

Due to the depth and timing of the budget cuts, some layoffs are inevitable. The extent of job reductions will be subject to DOE's budget process, so it's impossible to estimate at this time how many jobs will be affected. In the coming weeks and months, the leadership of the laboratory will do everything in its power to preserve as many jobs and programs as possible.

DOE and the laboratory have some flexibility in mitigating the effects of the omnibus bill. Argonne gets money from many sources and federal agencies, and while some programs within DOE's Office of Science were cut, others were steady or actually received additional funding.

I have been in touch with Illinois Congressional representatives, who will present our case in Washington D.C. in an effort to reverse the cuts or at least reduce them. I have also talked to the *Chicago Tribune* and *Science* magazine, which have run articles bringing our message to the public. *The Chicago Sun-Times* has also run a news article on the effects of the omnibus bill on Argonne.

I will keep the laboratory informed as these efforts continue.

Although I don't want to downplay the seriousness of this situation, it's important to point out that Argonne will overcome this setback. We have been tested in the past, and have not only survived, but thrived. I have the utmost faith in the ability of our people and the mission of the laboratory. ■

2008 ARGONNE NEWS PUBLISHING SCHEDULE

Issue	Deadline
Monday, Jan. 28	Friday, Jan. 18
Monday, Feb. 11	Friday, Feb. 1
Monday, Feb. 25	Friday, Feb. 15
Monday, March 10	Friday, Feb. 29
Monday, March 24	Friday, March 14
Monday, April 7	Friday, March 28
Monday, April 21	Friday, April 11
Monday, May 5	Friday, April 25
Monday, May 19	Friday, May 9
Monday, June 2	Friday, May 23
Monday, June 16	Friday, June 6
Monday, June 30	Friday, June 20
Monday, July 14	Wednesday, July 2*
Monday, July 28	Friday, July 18
Monday, Aug. 11	Friday, Aug. 1
Monday, Aug. 25	Friday, Aug. 15
Monday, Sept. 8	Friday, Aug. 29
Monday, Sept. 22	Friday, Sept. 12
Monday, Oct. 6	Friday, Sept. 26
Monday, Oct. 20	Friday, Oct. 10
Monday, Nov. 3	Friday, Oct. 24
Monday, Nov. 17	Friday, Nov. 7
Monday, Dec. 1	Wednesday, Nov. 19*
Monday, Dec. 15	Friday, Dec. 5

*Earlier deadline due to holiday

CNN reports focus on Argonne anti-terrorism technologies

CNN's "SITUATION ROOM" recently focused on Argonne technologies with anti-terrorism applications. Video clips are available online.

The first report centered on "Supergel," a material of engineered nanoparticles and a super-absorbent gel designed to clean up buildings and monuments exposed to radioactive materials. Having this system available will allow the nation to be more prepared in case of a terrorist attack with a "dirty bomb" or other radioactive dispersal device. Michael Kaminski, lead scientist of the project, was interviewed.

The report also highlighted Argonne's passive millimeter-wave spectroscopy technology, pioneered by Sami Gopalsami, Sasan Bakhtiari, Paul Raptis and Thomas Elmer (all NE). The technology has the capacity to identify chemical plumes at ranges of up to a few kilometers and at concentrations as low as 100-1,000 ppm. Mary Ann Yates (NS) was interviewed.

The second report, which aired Dec. 26, focused on diamond films that can serve as sensors to detect biological and chemical agents, and biochips that can speed up their analysis. Orlando Auciello (MSD) and Dan Schabacker (ES) were interviewed. ■

<http://www.cnn.com/video/?/video/us/2007/12/25/meserve.prepare.nukes.cnn>
<http://www.cnn.com/video/?/video/tech/2007/12/26/meserve.be.prepared.biotech.cnn>

Web-Conferencing service available

The Computing and Information Systems Division (CIS) has recently acquired a Web-conferencing service for general laboratory use. The product, Adobe Connect, is a platform-independent, Web-based conferencing service that provides a media-rich, virtual collaboration environment where laboratory employees can interact among themselves and with external participants. This service enables laboratory employees to host virtual meetings with little or no training.

In order to familiarize users with the capabilities and the use of this service, CIS will offer two getting-started sessions, "Getting Started With Adobe Connect Web-Conferencing," which will be held on Thursday, Jan. 17, from 2 - 3 p.m. in Building 212, Room A157, and Thursday, Jan. 24, from 10 - 11 a.m., in Building 402, Room E1100.

For more information see the Web-conferencing service page. ■

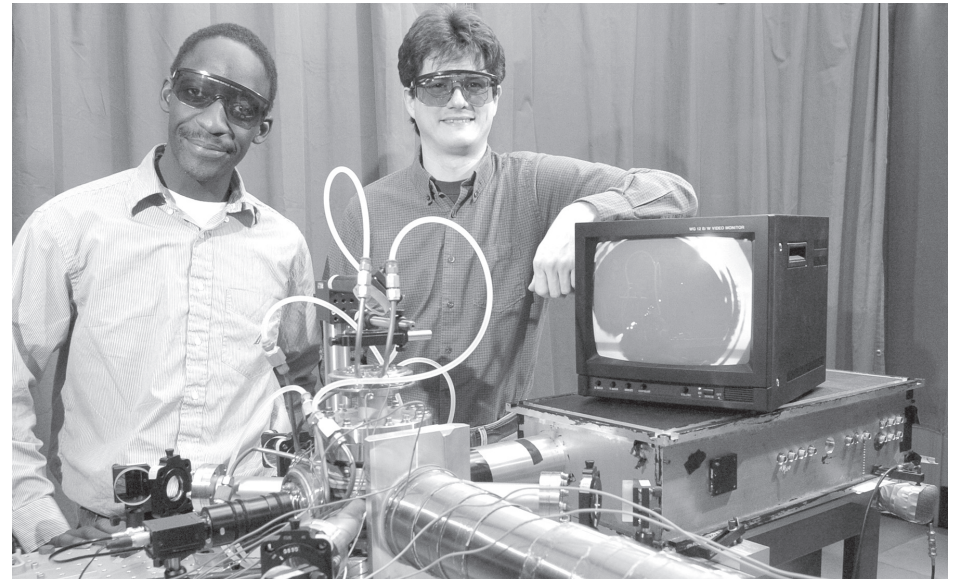
inside.anl.gov/cis/services/web_conferencing.html

RETIREES

Barry Lescht (AST) retired Dec. 7 with 28 years of service.

Robert Wynveen (EQO) retired Jan. 2 with 33 years of service.

Helium-8's neutron 'halo' measured



University of Chicago graduate student Ibrahim Sulai (left) and Argonne physicist Peter Mueller, along with colleague Zheng-Tian Lu, used a laser atom trap like the one shown here to identify the charge distribution of the helium-8 isotope. Photo by George Joch

JARED SAGOFF

ARGONNE RESEARCHERS have produced, trapped and characterized the nucleus of the helium-8 atom, the most neutron-rich matter that can be made on Earth. This new measurement gives rise to several significant consequences in nuclear theory with impacts reaching as far as the study of neutron stars.

"This result will help us test the best nuclear structure theories that are out there right now, including work from the Physics Division's own theory group," said Argonne physicist Peter Mueller. Mueller, along with Ph.D. student Ibrahim Sulai and other Physics Division colleagues, used an innovative laser trap to confine individual helium-8 atoms long enough to precisely determine their nuclear charge distribution, a quantity that indicates how the atom's two protons and six neutrons arrange themselves to form the nucleus.

Unlike stable helium, which usually has two and occasionally one neutron that pack closely and symmetrically with two protons, the element's unstable isotopes — helium-6 and helium-8 — have additional neutrons that form "halos" around the compact central core. In 2004, the Argonne team had determined that the two extra neutrons in helium-6 arrange themselves asymmetrically on one side of the nucleus, a few trillionths of a millimeter away from the core.

In their recent study, however, the researchers discovered that helium-8's four extra neutrons group themselves differently from helium-6's. The four helium-8 neutrons in the halo arrange themselves in a less lopsided way around the core, altering the dynamics of the nucleus.

Helium-6 and helium-8 are both radioactive and decay quickly, complicating efforts to measure their properties. Helium-8 has a half-life of only a tenth of a second, meaning that samples of the atom have to be measured immediately after they are produced, which is not easy in the first place. High-power accelerators are necessary to create even a tiny quantity of these atoms.

In this experiment, the Argonne scientists teamed up with Antonio Villari and his colleagues from the

GANIL cyclotron facility in northern France, which could generate sufficient quantities of helium-8. Still, helium-8 represents only a small fraction of all the atoms produced, so scientists needed a way to separate them from the rest of the atom stream and to observe each helium-8 atom long enough for an accurate study.

In order to do so, the scientists created an "atom trap" using six laser beams to restrain the helium-8 atoms. While other atoms in the beam would fly right past the trap, about once every two minutes one helium-8 atom would fall into it. The laser beams functioned as the bars of a small cage — if the atom moved too much to one side, then one of the beams would push it back toward the middle.

Once the atom was trapped, the scientists shined another pair of laser beams onto it. By tuning these lasers' frequency, they matched the atom's resonant frequency, causing it to glow brightly enough to detect it.

Because the atom's resonant frequency depends on its nuclear structure, each helium isotope glows at a slightly different frequency. With the help of precision atomic theory calculations provided by collaborator Gordon Drake from the University of Windsor, Ontario, the researchers were able to use the measured frequency data to reveal the nuclear structure of helium-8.

Although the team carried out the experiment at an accelerator in France, Argonne will soon submit a bid for a new facility that could produce far greater quantities of helium-8 and other rare isotopes, which would attract students and scientists from all over the world to Illinois.

The proposed Facility for Rare Isotope Beams (FRIB), for which Argonne will submit a bid, could, for example, generate more than 1,000 times the number of unstable helium nuclei than the researchers are able to produce now in the same span. "Having access to a facility like FRIB would open up many new possibilities for research into types of matter nearly impossible to examine otherwise," Mueller said. "This result shows that we have reached a scientific frontier, and FRIB would enable us to expand it even further." ■

CIS OFFERS SOFTWARE CLASSES

Unless otherwise specified, classes are held in Building 201, Room 167, are limited to eight students, and cost \$255. CIS computer class descriptions, schedules and enrollment forms are available online at inside.anl.gov/cis/services/computer_training/.

Questions about enrollment procedures can be directed to Diane Cavazos at ext. 2-7153.

"Introduction to Word 2003" (CIS122)

— This course will cover the basic concepts required to produce basic business documents. Students will create, edit and enhance standard business documents as well as learn how to create, edit, format, lay out and print documents complete with tables and graphics.

PREREQUISITE: Proficiency in a Windows environment.

DATES: Monday, Feb. 11, 8:30 a.m. – 4:30 p.m.

"Introduction to Excel 2003" (CIS125)

— In this course, students will learn to create and edit basic Excel worksheets and workbooks. Students will also learn to perform calculations, modify and format a worksheet and develop a workbook.

PREREQUISITE: An understanding of Windows.

DATES: Tuesday, Feb. 12, 8:30 a.m. – 4:30 p.m.

"Introduction to Access 2003" (CIS128)

— This course is for the individual whose job responsibilities include working with tables to create and maintain records, locate records and produce reports based on the information in the database. It also provides the fundamental knowledge and techniques needed to advance to more technical Access responsibilities, such as creating and maintaining new databases and using programming techniques.

PREREQUISITE: An understanding of Windows.

DATES: Wednesday, Feb. 13, 8:30 a.m. – 4:30 p.m.

"Introduction to PowerPoint 2003" (CIS131)

This course introduces the skills necessary to develop presentations, create, enhance and print presentation slides, format text slides, add tables to a presentation, chart data, modify objects and add images to a presentation.

PREREQUISITE: An understanding of Windows.

DATES: Thursday, Feb. 14, 8:30 a.m. – 4:30 p.m.; Thursday, April 17, 8:30 a.m. – 4:30 p.m.

"Beginning Unix" (CIS564)

Learn the basic concepts required for using Unix computer systems. This class will be a general overview of Unix commands for file and process management, printing and communicating.

DATES: First session - Tuesday, Jan. 15, 9 a.m. - noon, second session - Thursday, Jan. 17, 9 a.m. - noon; first session - Tuesday, Feb. 19, 9 a.m. - noon., second session - Thursday, February 21, 9 a.m. - noon.

NOTE: This class consists of two three-hour sessions for a total of six hours. The class is free.

"vi Editor in Unix" (CIS567)

The vi Editor is the standard editor with Unix; all Unix implementations come with vi. Students in this class will learn the basic commands of vi so that they can then use vi to create and edit files in Unix. This class is free.

PREREQUISITES: A general knowledge of Unix, especially Unix file management commands.

DATES: Friday, Jan. 18, 9 a.m. - noon, Friday, Feb. 22, 9 a.m. - noon.

NATIONAL CENTER FOR SUPERCOMPUTING APPLICATIONS TO HOST WORKSHOP

Feb. 12-13, 2008, the National Center for Supercomputing Applications will host a workshop on "Building the Data Center of the Future: Effective Energy-Efficient Design."

The workshop will bring together experts from research centers, the information

technology industry and engineering, consulting and architecture firms to explore the challenges involved in planning, designing, engineering, constructing, monitoring and maintaining the data center of the future.

The data center workshop is free, but advance registration is required. More information registration is online at www.ncsa.uiuc.edu/Conferences/DataCenter/.

Sponsors for the workshop include NCSA, EYP Mission Critical Facilities and IB.

KAMIYA TO LEAD CHICAGO CHAPTER OF HAZARDOUS MATERIALS MANAGERS

Mark Kamiya (EQO) has been elected president of The Chicago Chapter of the Academy of Certified Hazardous Materials Managers (ACHMM). His term starts immediately.

The ACHMM was formed in 1985 with the mission to foster the professional development of hazardous materials managers by providing education, facilitating peer group interactions and establishing the CHMM credential as the standard of excellence in the profession.

The vision is to have a natural environment unburdened by pollution, workers exposed only to safe conditions and hazardous materials used and transported safely and efficiently.

Kamiya works in the Environmental Planning and Compliance Group in EQO.

DOE ASKS FOR NOMINATIONS FOR 2008 ENRICO FERMI AWARD

The Department of Energy has issued a call for nominations for the 2008 Enrico Fermi Award.

The Enrico Fermi Award, a presidential Award, is the oldest science and technology award given by the U.S. government and one of the most prestigious.

The Enrico Fermi Award is bestowed by the president of the United States to an individual or individuals of international stature in recognition of a lifetime of exceptional scientific, technical, engineering, and/or management achievements related to the development, use, control or production of energy.

Several guidelines to keep in mind include:

- Only living nominees will be considered.
- The Fermi Award is not limited to U.S. citizens.
- The Fermi Award is not limited to scientists who work has been funded by the U.S. Department of Energy.

A Fermi Award recipient receives:

- A citation signed by the President of the United States and the Secretary of Energy;
- A gold medal bearing the likeness of Enrico Fermi; and
- A \$375,000 honorarium. (In the event the Fermi Award is given to more than one individual in the same year, the recipients share the honorarium.)

The deadline for nominations is April 1, 2008.

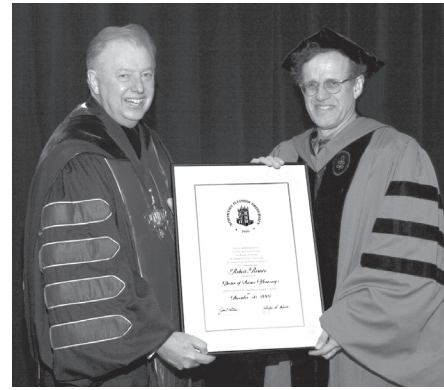
For the first time in 2008 nominations can be made online at www.sc.doe.gov/fermi/.

Cindy Wilkinson (C&PA) should be notified of any nominations of Argonne employees.

BOY SCOUT SCIENCE BADGE DAY VOLUNTEERS NEEDED

On Saturday, March 15, from 8:30 a.m. until 3 p.m., Argonne will host 200 Boy Scouts and numerous troop leaders for the annual Argonne Boy Scout Science Badge Day. The scouts will earn badges in chemistry, computers, electricity, electronics, energy, engineering, geology and nuclear science. Instructors are needed for the electricity, engineering, geology, computers and nuclear science badge classes. If interested, contact Deon Ettinger (DEP) at ext.2-4272.

Rosner receives honorary doctorate



NORTHERN ILLINOIS UNIVERSITY President John Peters, left, presents an honorary doctoral degree to Argonne Director Robert Rosner during the university's commencement ceremony Dec. 16. Also honored with an honorary doctorate at the same ceremony was Abraham Verghese, a best-selling author and professor of medicine at Stanford University. An internationally recognized astrophysicist, Rosner has been director of Argonne since April 2005 and previously served as chief scientist at the laboratory. His leadership and foresight in addressing national needs in science and engineering are widely recognized. Rosner is among the country's leading thinkers in energy research and development, accelerator science, computational science and nanotechnology, and he serves on numerous scientific advisory committees in the United States and abroad. In receiving honorary degrees from NIU, Rosner and Verghese join distinguished company. Past recipients of honorary doctoral degrees from NIU have included former U.S. Speaker of the House J. Dennis Hastert, distinguished historian Arthur Schlesinger, former Argonne Director Hermann Grunder, U.S. Sen. Paul Simon, poet Gwendolyn Brooks and astronomer Carl Sagan. *Photo courtesy Northern Illinois University.* ■

Deadline for CNM proposals is Jan. 18

THE CENTER for Nanoscale Materials (CNM) at Argonne is soliciting proposals for user-initiated nanoscience research. The CNM nanoscience research program provides users with access to a broad range of capabilities for design, synthesis, characterization and theory and modeling in order to significantly advance the understanding of nanoscale phenomena and develop functional nanoscale systems. Access is provided at no cost to users for research that is in the public domain and intended for publication in the open literature.

Scientifically high-impact proposals are sought in all CNM scientific themes. Prospective users are encouraged to submit proposals that use and exploit synergies of research capabilities in two or more CNM scientific themes. Detailed descriptions of the CNM scientific themes are located at <http://nano.anl.gov/research/>.

The CNM Web site also provides detailed descriptions of specific capabilities offered to users. Prospective users are invited and strongly encouraged to contact CNM staff in the respective theme areas to discuss their proposal ideas and learn more about the specific capabilities of interest to them.

The deadline for submission of user research proposals is 11:59 p.m. Friday, Jan. 18.

Review the steps for becoming a user and guidelines for submission of a CNM User Research Proposal at <http://nano.anl.gov/users>. Approved projects will be granted access to CNM facilities for a maximum of one year.

Queries can be directed to cnm_useroffice@anl.gov. ■

ESH employee receives SPOT award

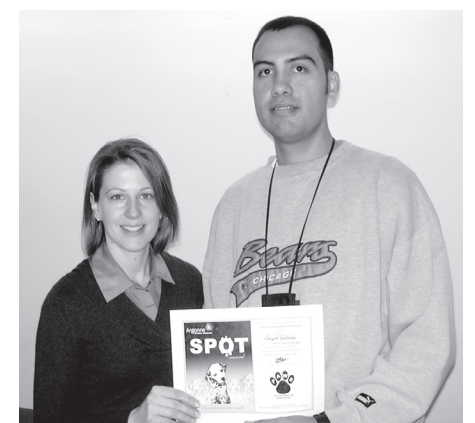
BY ANDREA CIPRIANI

ANGEL GARCIA (EQO) was presented with the SPOT Award for his response to radiological contamination found during a sweep-and-clear survey.

Garcia, a senior health physics technician, was conducting a room release survey of the former radiation instrument calibration lab in Building 360 when he discovered radioactive alpha contamination in a legacy storage box. Garcia immediately brought the discovery to his supervisor's attention, per the work plan governing the project. By identifying and reporting this contamination, Garcia prevented what could have been an unauthorized release of legacy contamination to uncontrolled areas.

The SPOT Award recognizes employees' contribution to safety and quality at the laboratory. Nominations for SPOT awards can be sent directly to EQO Director Bob McCook at mccook@anl.gov. ■

Photo: Deputy Radiological Safety Officer Sheri Minnick presents the SPOT award to Angel Garcia.



AREA FITNESS CENTER OFFERS SPECIAL RATE TO ARGONNE, DOE EMPLOYEES

The Five Seasons Sports Club in Burr Ridge is offering special rates for employees of Argonne and DOE. Benefits include up to 75 percent off enrollment and 20 percent off monthly dues.

For more information and a three-day VIP pass, call 630-570-5200 or e-mail sls1@fiveseasonsbr.com or sls3@fiveseasonsbr.com.

Argonne "...for a brighter future"

Supplemental life insurance rates change

THE RATES for the supplemental life insurance plan are now reduced by 13 percent effective Jan. 1.

The monthly premium rate will change when an employee moves from one age bracket to another.

Active employees regularly working a minimum of 20 hours per week, excluding temporary employees, are eligible to participate in the supplemental life insurance upon approval by underwriting. ■

SUPPLEMENTAL LIFE RATES 2008 (Monthly cost per \$1,000)

Age	1 times salary (includes AD&D)	2-5 times salary (does not include AD&D)
Under 30	.046	.024
30-34	.069	.047
35-39	.077	.055
40-44	.100	.078
45-49	.186	.164
50-54	.296	.274
55-59	.421	.399
60-64	.617	.595
65-69	.892	.870
70-74	1.814	1.792
75-79	2.780	2.758
80 and Over	5.964	5.942

NEED A RIDE TO THE UNIVERSITY OF CHICAGO? A FREE SHUTTLE BUS MAKES ROUND TRIPS EVERY WORK DAY. FOR MORE INFO, SEE www.anl.gov/Visiting/shuttle.html

MORE NEWS AND LATE-BREAKING UPDATES:
INSIDE ARGONNE
www.inside.anl.gov

Classified Ads

MISCELLANEOUS

MISCELLANEOUS - Gateway Computer & CRT Monitor, Performance 1000,8X DVD R&W / CD/3.5 drive. \$125. Zip Drive Internal, Iomega 100MB & 11 disk. \$35. 3 STOOGES 24 DVD'S 120 B&W episodes. Vol.1-2-3.New in package.\$50. Greg Dolnak. 815-210-0976.

DINING SET - Table-4 chair set, 59"Lx36"Wx29"H (table), 19"x18"-37"H (chair), looks new, \$79 OBO. Yeon Kim. (630) 922-1447.

MISCELLANEOUS - Bumper Pool Table. \$50 or best offer. Young girl's bike (7 to 10 years old). \$25. Lori Swift. (708) 579-9513.

CAMERA - New, never used Canon EOS Digital Rebel XT 8.0 megapixel camera. \$350. Valerie Kaatz. (630) 253-0770.

DIGITAL PIANO - Roland HP101 Digital Piano. Purchased Oct 2006. Excellent condition, 88 keys, 3 pedals, matching bench. Moving sale. \$1,000.

SCOOTER - Victory mobility scooter. Brand new, used about 5 times. Paid \$2,700, asking \$2,000 obo. Judy Prehn. (815) 373-3475.

DRYER - GE 7 cycle, heavy duty, extra large capacity, gas clothes dryer, white finish. \$50. Kevin Cleary. (708) 460-8587.

SNOWBLOWER - Ariens snowblower 5hp 2-cycle electric start. \$200. Scott Gildo. (630) 834-1550.

HOUSING

CONDO/SALE - Fort Myers, FL 2 bedroom, 2 bath condo in beautiful gated community. Walking distance to Bell Tower Plaza. Close, but not too close to Ft. Myers Airport. \$149,900. Randy Flood. (815) 254-3074.

DUPLEX/SALE - 3 br, 1.1 bath, Extra Deep 2.5 car garage, fully fenced yard with landscaping and blossoming trees, all appliances stay, 725 Clearwood Ct., Aurora, Cul-de-sac, Naperville schools, no Association fees. MLS # 6741747, www.angiefaron.com/06741747. \$174,900. Cory Stuart. (630) 898-0615.

CONDO/RENT - 2 Bedroom, 2 Bath in Willow Springs, washer/dryer, central air, parking garage. Steps from Metra station in Downtown Willow Springs, next to forest preserve. Easy access to I-55 and I-294, 6.2 miles from lab. Available Feb. 1. \$1250/mo. Argentina Leyva. (630) 667-4633.

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

CONDO/SHARE - Share a three-bedroom, two-bath condo. Carriage Way Drive, Burr Ridge, IL. \$550 per month. Enos Baker. (702) 501-0607.

AUTOMOBILES

1994 HONDA - Accord, 130 k miles. 5 speed. Looks very good. \$1500. Jun Wang. (630) 983-5296.

2005 PONTIAC - Sunfire, Silver, 2 door sport coupe, 30k miles, power everything, CD/MP3 player, moonroof, garage kept, new brakes, very reliable. \$12,000 OBO. Vanessa Due. (630) 359-5445.

1993 MAZDA - Protege 136,000mi, 4dr, 1.8L DOHC I4, CD/MP3, Sunrf, Alloys, A/C. \$2,000. Lots of work done, call for details. Troy Lutes. (630) 390-5871.

1992 FORD - Tempo, 4 dr, red, AC, 52,370 miles, second car, good condition. \$1,800. Robert Smither. (630) 325-0206.

WANTED

ROCK TUMBLER - Lortone or similar with rubber barrel. John Quinn. (630) 960-9097.

TO BE GIVEN AWAY

MAGAZINES - Fine Woodworking magazines, 15 years of back issues. Would hate to throw them out. Tad Jesionowski. (630) 960-2663.

PRINTER CARTRIDGES - Free to Good Home (ANL Department Only). Several XEROX Printer Cartridges, 7300 Model, Phaser 2135, Sample: XEROX 016-1917-00 (Black), XEROX 01-6199300(Cyan). Gina Block (FMS) (Bldg.214). Ext. 6195.

ARGONNE MUSIC CLUB HOSTS

A Jazz social at the guest house

Friday, January 25th

- Cocktails (Cash Bar) at 5:00pm
- Music Starts at 6:00 pm
- Complimentary Appetizer Buffet included
- Ticket Price \$8.00

MUSIC BY

Nuclear Jazz Quartet



Email: MusicClub@anl.gov

Website: www.argonneclub.anl.gov/music

Argonne Music Club to present 'Jazz Social' at Guest House

THE ARGONNE MUSIC CLUB will present a Jazz Social at the Argonne Guest House Friday, Jan. 25, featuring the Nuclear Jazz Quartet. A social hour will begin at 5 p.m., with music beginning at 6 p.m. There will be a cash bar and complimentary hors d'oeuvres.

Tickets are \$8, and will be sold in the Building 213 Cafeteria Lobby at lunchtime during the week of Jan. 21.

Nuclear Jazz Quartet band members are Cary Davids (PHY), trumpet; Al Miller, alto and tenor saxophone, clarinet and flute; Ken Teh (PHY), piano; Fred Filipiak, bass; and Alex Deriy (XSD), drums. The group plays jazz standards, Latin music, jazz waltzes and up-tempo bebop tunes, including some arrangements and compositions by band members.

"This will be the Argonne Music

Club's first premier event," said John Greene (PHY), a music club board member who has the lead for organizing the social. "We hope it will bring together people from across the lab to meet, talk and enjoy fine music. One of the club's goals is to re-establish a social atmosphere at Argonne, and this seemed like a great way to get the ball rolling."

In addition to the Jazz Social, the club is planning a Variety Show for the spring; details will appear in *Argonne Today* and *Argonne News*. The club will continue to host its popular open mic nights at the Building 617 Lower Level. The next open mic will be Thursday, Jan. 17; the complete 2008 schedule is online at the club's Web site. ■

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IN MEMORIAM

Peter Fossi, a maintenance mechanic with 14 years of service in PFS, died Oct. 12. His children, Peter Fossi Jr. and Joyce Sztello survive him.

David Green, a retired ACL manager with 28 years of service in CMT, died Oct. 27. His wife, Mary, survives him.

Henry J. Gozdecki, a retired maintenance mechanic with 23 years of service in PFS, died Nov. 20. His wife, Ann, survives him.

Robert J. Hagenberg, a mechanical engineer with nine years of service in PFS, died Nov. 5. His daughter, Mary Louise survives him.

Ruth Hillard, a retired medical assistant with 31 years of service in HR-Medical, died

Oct. 26. Her children, Edie Szudy and Dane Hillard survive her.

Everett Rauh, a retired chemist with 46 years of service in CMT, died Nov. 27. His wife, Mary Lou, survives him.

Gerald R. Salotti, a senior internal auditor with 12 years of service in OTD, died Nov. 11. His son, Anthony, survives him.

Jack D. Shannon, a retired meteorologist with 23 years of experience in ER/EVS, died Oct. 31. His brothers Thomas Kelly survive him.

Vernon Tantillo, a retired electrical engineer with 34 years of service in CTD, died Sept. 13. His son, Steven Tantillo, survives him.

Edward Watson, a retired instrument maker with 30 years of service in CS, died Nov. 27. His wife, Esther, survives him.