

NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, July 30, 2004

Vol. 29, No. 30

'Got Science' draws a crowd



SCOTT WILSON/NEWSLINE

Zhi Liao leads a group of young scientists through the dynamics of laser imaging during the Lab's recent Saturday science fair, titled "Got Science?"

By Linda Lucchetti

NEWSLINE STAFF WRITER

What's there to do in Livermore on a sweltering summer Saturday in late July?

More than 2,000 people found out when they ignored the soaring temperatures and

came to the Lab to get a dose of science and technology at "Got Science? Discover Science Saturday" held at the Discovery Center and adjacent area near the East Gate on July 24.

SCIENCE, page 5

Public health assessment finds no apparent hazards from Laboratory activities

By Bert Heffner

NEWSLINE STAFF WRITER

After more than a dozen years of assembling and analyzing Laboratory environmental data, a federal public health agency has completed a formal Public Health Assessment (PHA) of the LLNL main site in Livermore.

The Agency for Toxic Substances and Disease Registry states that there are no apparent public health hazards from past or ongoing operations and environmental releases from the LLNL facility, including those of the Naval Air Station previously on the Livermore site. The agency also said public health impacts from future operations were not likely.

According to the assessment, the findings mean, "although community exposures of site-related contaminants may have occurred or may be occurring, the resulting doses are unlikely to result in any adverse health effects and are consequently below levels of health concern."

Included in the overall assessment were separate Public Health Assessments that came to the same conclusions about accidental Lab-

ASSESSMENT, page 7

CMS Postdoctoral Symposium highlights year's achievements

By Leslie Schwartz

NEWSLINE STAFF WRITER

Two major awards were presented Wednesday to recognize the contributions, excellent research and presentation style of postdocs during the seventh annual Chemistry and Materials Science Postdoctoral Symposium.

Joshua Patin, a postdoc student who was

recently made a staff scientist, earned the Harold C. Graboske, Jr. Award for Excellence in Post-Doctoral Research for his talk on the "Discovery of Elements 115 and 113."

The award is named after Graboske, who retired in June after a diverse 38-year career that culminated with the role of deputy director for Science and Technology. The award criteria included performance on the oral presen-

tation, as well as the quality and number of publications, citations and additional presentations made over the past year.

Patin, 29, began studying heavy element groups as a doctoral student in nuclear chemistry at UC Berkley. He has continued his research at the Lab for the past two years, work-

POSTDOC, page 8

Lab continues work on CREM inventory

The Lab this week reached the halfway point of its wall-to-wall inventory of accountable classified removable electronic media, or CREM.

The inventory was ordered by Energy Secretary Spencer Abraham last Friday as part of a stand-down for all Department of Energy facili-

CREM, page 7

Climate change found to have created gorgeous rivers

By Anne M. Stark

NEWSLINE STAFF WRITER

What caused two East Coast rivers to produce spectacular gorges?

By studying the content of 10-beryllium, an isotope of beryllium, in bedrock terraces in two river basins draining into the Atlantic, a group of scientists from the University of Vermont, the U.S. Geological Survey, the University of Maryland and a researcher from the Lab determined that rapidly changing

climate led to a pulse of incision (the cutting of rock) in the Susquehanna and Potomac rivers to create steep bedrock gorges, beginning 35,000 years ago.

Because the Susquehanna has been glaciated and the Potomac has



COURTESY OF SPACE DAILY

The Great Falls of the Potomac River and Mather Gorge.

not, the study showed that regional climate change, not simply glacial meltwater, caused the gorges to form.

The research appeared in the July 23 issue of the journal *Science*.

Using the Lab's Center for Accelerator Mass Spectrometry, Bob Finkel analyzed the samples

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Caregivers on cancer

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License to commercialize

— Page 3



A view of stewardship

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LAB COMMUNITY NEWS

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Friday
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The Benefits Office will continue the **brown-bag series** on how to enhance your financial security by participating in the Tax-Deferred 403(b). The next session will be held today from 12:15 -1:15 p.m. in Bldg. 571, conference room 2301. Additional sessions will be held on the last working day of each month (excluding November and December) throughout 2004. Attendance is open and no pre-registration is required. Bring your lunch and your questions. For additional information about benefit services or events, see the Website at www.llnl.gov/llnl/02employment/benefits/seminars.htm.

...

The American Indian Activity Group (AIAG) is sponsoring a "**Holidays in July**" toy drive for the many (500-plus) foster children at the American Indian Child Resource Center and the Indigenous Nations Child & Family Agency, both located in Oakland. For the past five years, AIAG has collected toys and funds for the holiday season. The drive ends today. Drop off points are as follows: Darlene Yazzie, Bldg. 132S, 3-7846, Irene Massiatt, Bldg. 132N, 2-4281, Michele Cardenas, Bldg. 571, 3-2796, Sandy Basso, Trailer 6526, 3-3118 or Jim Johnson, Site 300, 2-8918. For more information, call Darlene Yazzie, 3-7846.

Saturday
31

There will be a **scheduled power outage** today at 3 p.m. in Bldg. 412. Air conditioning, heating and elevators also will be affected. For questions, contact Mike

Minard, 2-1224.

Sunday
1

Concert in the Vineyard featuring Heather Combs (blues/country/rock) will be held today from 5-8 p.m. at White Crane Winery/TheVineyard Inn at Crane Ridge, 5405 Greenville Road, Livermore. Price is \$10 per person or \$35 per carload. Purchase tickets at the tasting room or e-mail to events@whitecranewinery.com. Bring, blankets, lawn chairs and a picnic basket. Wine bar, beer, and sodas are available for purchase.

UP
&
COMING

A representative from **California Casualty Insurance** will be in the Benefits Office on Friday, Aug. 6.

Appointments are required and may be scheduled by calling 2-9955. California Casualty offers individual rates to Lab employees by payroll deduction for auto and homeowner/renter insurance.

...

The deadline for requests for funding of **graduate and undergraduate academic plans** is Aug. 11. Review and approvals are done quarterly by the Student Policy Committee. All requests should be sent to the Education Office, L-728. For additional information, contact the Education Office, 4-5479.

IN MEMORIAM

Milton 'Bud' Bachman

Milton "Bud" Bachman, a Lab retiree, died Sunday, July 25. He was 85.

Born March 17, 1919, in Los Gatos, he attended and graduated from Campbell High School in 1937. He attended San Jose State College for three years until he joined the Navy in 1941. He served aboard a supply ship as storekeeper and was docked in Maui the day Pearl Harbor was bombed.

He was a member of Morning Light Lodge No. 42, I.O.O.F. in Campbell for more than 60 years. He moved to Livermore in 1952 and lived there until 1980.

Bachman worked at the Lab until his retirement in 1980. When he retired, he and his wife moved to Pio-

neer, Calif., where they lived for 17 years. Upon his retirement, Bachman worked at Amador Station on the corner of Highway 88 and Inspiration Drive East in Pioneer.

He is survived by his wife, Roberta; his daughter and her husband, Lauralee and Alan Edberg; his daughter, Christy Bentley; two stepchildren, Colleen Frick and Steven Rombough; nine grandchildren; five great grandchildren; a nephew and two great nieces. His parents and his sister preceded him in death.

Services have been held.

In lieu of flowers, donations may be made to the American Cancer Society or Hospice of San Joaquin County, 2609 E. Hammer Lane, Stockton 95210.

Robert Kenner Cralle

Robert Kenner Cralle died at home on July 22. He was 73.

He was born in Oakland and grew up in Inglewood, Calif., where his father was superintendent of schools for 20 years. His mother was a talented landscape designer.

He attended UCLA for two years and then transferred to UC Berkeley where he received his bachelor's degree in physics in 1953.

After graduating, he began a 40-year career at the Laboratory, with most of that span in A Division. He started out in the development of computational models of physical systems. He was one of a small staff of specialists using the UNIVAC 1, the first commercially available computer in the United States.

Over the years he continued this process of adapting the physical models to each new computer system as it was procured by the Lab. He developed many programming tools and methods that were useful to other programmers. This work included adapting programs written by others and demonstrating their flexibility in other applications.

During the mid 1960s he spent several summers working with the Commission on College Physics as it was considering new ways to teach science. He produced demonstration graphics programs for use by students for the study of special relativity. One of these became the basis of an instructional movie entitled "Skylark," that illustrated many of the strange effects associated with Einsteinian relativity.

From about 1965 to 1985, he worked on the development of interfaces between a user and a computer with increasing emphasis on the visual interface or

computer graphics. In this period, he developed special methods and very elaborate computer programs that by virtue of their cleverness and speed, placed the advantages of graphics in the reach of practically all computer users

Cralle, who was something of a polymath, became known to a very diverse readership both within the Laboratory and across the nation through his "Computist's Corner," an eclectic column published in the Computation Department's monthly news organ, *The Tentacle*. In these columns, he explored the beauty of mathematics and its union with computers. He exhibited the enormous versatility of computer applications, especially those that showed computers to be far more than adding machines.

After retirement in 1992, he became interested in horse racing. He used his system design skills to build a computer program to receive and handicap any upcoming horse race.

He was a volunteer for 10 years at Kaiser Shadelands and spent many hours at Pete's Coffee in Ygnacio Plaza pontificating with his friends. He was fond of pointing out whenever appropriate that, "facts are no match for belief."

He is survived by his wife of 45 years, Judy; his son, Trevor; his daughter, Heather Cralle-Stover and son-in-law, Rick Stover; two grandchildren, Cassie and Cameron; and two sisters, Caroline Nage and Olivia Sparrevohn.

A memorial gathering is planned for 3:30 p.m., Aug. 7 at the home of his daughter, Heather Cralle-Stover at 2676 San Antonio, Walnut Creek.

Harry Irwin West

Harry Irwin West Jr., a retired physicist and 44-year resident of Livermore, died June 20. He was 78.

Born December 3, 1925, in Foley, Ala., he received his bachelor's degree in chemistry in 1946 and master's degree in physics in 1947 from Alabama Polytechnic Institute, now called Auburn University.

He joined the Lab's Radiochemistry Division in 1955 after receiving his Ph.D. from Stanford University. This group was responsible for providing state-of-the-art equipment for measuring nuclear radiations. His expertise in electronic instrumentation and radiation detection were a perfect match. He designed a very sophisticated electron spectrometer for a NASA satellite dedicated to exploration of the earth's magnetosphere and the trapped radiations. He was elected to Fellowship in the American Physical Society. He also worked in the Nuclear Chemistry Division, retiring in 1990.

He is survived by his wife, Kip; daughters Karen and Elizabeth; sons David and Leonard; sister Anna; grandson Brandon and granddaughter Melanie.

A memorial service will be held on Saturday, Aug. 14, at 11 a.m. at St. Bartholomew's Episcopal Church, 678 Enos Way, Livermore. In lieu of flowers, the family requests memorial donations be sent to Glaucoma

Research Foundation, 490 Post Street, Suite 1427, San Francisco 94102.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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Photographer: Jacqueline McBride

Designer: Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808

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Web site: <http://www.llnl.gov/PAO/>

AROUND THE LAB



Caregivers provide their view of battle against cancer

By Leslie Schwartz

NEWSLINE STAFF WRITER

Lab employees gathered Tuesday afternoon to wrap up this year's Cancer Awareness Campaign with a discussion on the important role of caregiving and its positive effects on cancer patients.

Moderated by Phil Arzino from the Health Services department, three panelists from the Lab and local community shared their experiences with cancer from the perspective of survivors as well as educators.

As an intelligent and independent woman, Gayle Allen never suspected she could have cancer. "It all happened in one day," Allen recalled, as she described the process of going to the doctor for her scheduled mammogram, finding the lump, getting it diagnosed, and then, finally, removed.

"I grew up as a caregiver after my mom was diagnosed with multiple sclerosis when I was six," she said. "All I knew my whole life was how to take care of people."

The tables turned when Allen, a Sandia computer security employee and two-year breast cancer survivor, learned to rely on the various caregivers who entered her life after her diagnosis. "I had a couple friends who called up and said 'I'll be there tomorrow' and scheduled regular meal deliveries. These friends who came in and helped were essential."

Allen, who now facilitates the cancer support group in Tracy and is involved in Reach to Recovery as a first contact to newly diagnosed breast cancer patients, also recalled the support she received from her "work family," who served as another source of caregiving.

"I felt totally alienated from work," she recalled. "But the people in my office felt it was important to stay in touch, so they called frequently and drove over to Tracy to take me out to lunch." These examples of caregiving were just a few Allen shared, exemplifying the strong supportive web her caregivers had cultivated to help her when she needed it most.

Rich Van Konynenburg, a rectal cancer survivor and LLNL retiree who worked in Chemistry and Materials Science for 30 years, shared his caregiving experiences, focusing on the love and support he received from his wife.



JACQUELINE MCBRIDE/NEWSLINE

Cancer Awareness Campaign panelists from left: Rich Van Konynenburg, Gayle Allen and Jerry Geffner, who shared their cancer-related advice and perspectives.

appreciated kindness so much until I really needed it."

Jerry Geffner, director of Social Work, Bereavement, and Pastoral Care for the Hope Hospice in the Tri-Valley area, discussed the importance of maintaining a healthy lifestyle as a caregiver because "you need to take care of yourself as a caregiver if you're going to take care of someone else."

He depicted the caregiver-patient relationship using the analogy of the emergency oxygen masks on airplanes. "Self care is putting on that oxygen mask first. You must make sure to find a balance between helping yourself and helping others.

"Many cancer patients go through a role shift after they are diagnosed, feeling less competent, weaker and dependent on their caregiver," Geffner explained. "This process may also cause an identity change as patients struggle with losing their sense of self. As a caregiver, you need to look at the issue and help them discover their sense of value. No one does this alone. It's so important that the person who is sick understands that they have a role to play."

The end of the presentation was an open question and answer session where the speakers left the audience with some final words of advice.

The best thing to do is to "develop a support structure and support them as they support you," Van Konynenburg said. "People want to help," Allen added. "Whatever level of caregiving you can do for a person, do it. Even if we may not seem like we care what you're doing for us, we couldn't do it without you."

If you or a family member has cancer, take advantage of the many on-site and local resources available:

- The LLNL Employee Assistance Program (3-6609) is a source for emotional support and referral to community resources.
- Concern, LLNL's off-site EAP (1-800-344-4222), is available 24 hours, seven days a week for more time-urgent help.
- The Health Services Department Nurse Case Manager (2-0706) can assist in navigating the health care system. Contact the HR Benefits program to meet with a representative to discuss personal health care service options. You also can contact the Family Caregiver Alliance at www.caregiver.org, for information about local support groups and additional help.

'Stamp Out Breast Cancer' broadcast

A video playback of Dr. Ernie Bodai's presentation, "Stamp Out Breast Cancer," will be broadcast on channel 4 on Tuesday, Aug. 3, and Wednesday, Aug. 4, at 10 a.m., 2 p.m., and 4 p.m. As a surgeon for 20 years and the director of Breast Surgical Services for Kaiser Permanente for five years, Bodai has treated more than 3,000 women with breast cancer. Through his vision and creation of the breast cancer research stamp, Bodai became an activist for the continued development of funding for cancer research, raising more than \$50 million to improve the lives of people with breast cancer and to help find a cure for the disease.

After he found out he had cancer six years ago, his wife became involved in his recovery process, checking on the arrival of lab test results before doctors' visits, cooking his favorite foods and setting up an e-mail notification list so he and his wife could send out updates on his condition, among other things.

"It's really helpful to have your caregiver do the behind the scenes work for you," he said. "I never

Managing technology transfer

LLNL's Industrial Partnerships and Commercialization (IPAC) office was a major sponsor of last week's western regional meeting of the Association of University Technology Managers in Monterey. Among the Lab's participants in the conference were IPAC Director Karena McKinley (left) and two licensees of Livermore-developed technology: Jim Kaschmitter (center), founder and CEO of UltraCell, which is developing a reformed methanol fuel cell for portable electronic products; and Omar Knio, senior vice president and co-founder of Reactive NanoTechnologies, which recently signed an exclusive license agreement to develop and commercialize the Lab's reactive joining process, a new method for precision soldering and brazing.



NORMA DUNIPACE/IPAC



NEWS YOU CAN USE

BBQ celebration brings Veterans Observance Month to a close

Chelle Clements, Jim Dotts, Curt Garrett, Roger Bailey and Paul Corrado participated in the Lawrence Livermore Laboratory's Armed Forces Veteran's Association (LLAFVA) picnic. The barbecue and membership drive brought to a close the activities of Veterans Observance Month. The month of activities began with the unveiling of a veterans display in the lobby of Bldg. 111 and included a panel discussion by recent veterans of their experiences serving in Iraq.



JACQUELINE MCBRIDE/NEWSLINE

Summer Student Calendar

With only a few more weeks to go, summer scholars can make the most of their time here at the Lab by broadening their horizons at a variety of seminars, panels, tours and events. Come meet other interns and network with professional scientists and researchers. Visit the Student Bulletin Board at <http://education.llnl.gov/sbb/> for more information or to register for events online.

Events taking place during the week of Aug. 2:

Tuesday 3 **Internships in Computer Science at the Terascale (ICST) seminar**
Kim Minuzzo, division leader for Computing Applications and Research (CAR) in NIF, will present his talk on the "NIF Control System" in Bldg. 219, room 163 at 1:30 p.m. Contact: Paula Ashley, 3-3691, or Kim Minuzzo, 2-2141.

Wednesday 4 **Tour the Joint Genome Institute (JGI)**
Join other interns on a tour of the Department of Energy's JGI in Walnut Creek and see the Production Genomics Facility (PGF). You will learn about biotechnology and how industrial-strength DNA sequencing can be brought to bear on some of the fundamental challenges of biology. Visit the JGIs Website at <http://www.jgi.doe.gov/>.

Meet at the Discovery Center, Bldg. 651 at 8:45 a.m. The tour group will return to the Lab about 2 p.m. Transportation is provided. Contact: Laura O'Brien, 2-7295.

Guest speaker

Listen to David H. Bailey from the Lawrence Berkeley National Laboratory present a talk on "Twelve Ways to Fool the Masses: Back to the Future" in the Bldg. 123 auditorium at 10:30 a.m. Bailey has published a related article on "Twelve Ways to Fool the Masses When Giving Performance Results on Parallel Computers." Contact: Char Paulo, 3-5424, or Bronis de Supinski, 2-1062.

Scholarship/Fellowship panel

In the last of a three-part panel series, selection committee representatives for various fellowships and scholarships will answer students' questions on "Graduate Opportunities: Fellowships and Scholarships." Come to the Bldg. 543 auditorium from 10:30 a.m. to noon with your questions. Lunch, as well as an opportunity to network with panel members, will be provided after the Q&A session. Contact: Karen Lema-Crow, 2-6233. NOTE: This panel was originally scheduled for July 29.

Internships in Computational Modeling at the Terascale (ICMT) seminar

Come hear Rob Falgot from the Center for Applied Scientific Computing talk on "Scalable Linear Solvers: Multigrid Methods" in Bldg. 219, room 163 from 1:30 – 3 p.m. Contact: Paula Ashley, 3-3691, or Rob Falgot, 2-4377.

Thursday 5 **Speaker and ice cream social**
Head down to Hertz Hall, room 7 at 2 p.m. to hear Alan Pelton from Nitinol Devices and Components and an instructor at UC Berkeley speak about motivations for going to graduate school and how to have a successful and fulfilling career. Ice cream will be served after the talk. Contact: Joanna Allen, 3-9225.

Department of Homeland Security (DHS) fellowship programs

Laura Petonito, deputy director of University Programs, Research and Development at the Department of Homeland Security, will review undergrad and graduate student opportunities through the DHS fellowship program at 11 a.m. in Bldg. 219, room 163. Contact: Edie Rock, 4-4035, or Paul Dickinson, 3-4855.

Please send your summer student calendar items to Leslie Schwartz at schwartz16@llnl.gov

Technical Meeting Calendar

Friday 30 **CHEMISTRY & MATERIALS SCIENCE DIRECTORATE**
"NIF Symposium," hosted by Tomas Diaz de la Rubia.
"Use of NIF for Stockpile Stewardship," by Charles Verdon; "ICF," by John Lindl; "NIF: Building the World's Most Energetic Laser – Status & Challenges," by Ed Moses. 9 a.m.-noon, Bldg. 155 auditorium. Contact: Deborah Irish, 2-9873, or Kathleen Moody, 3-8341.

Monday 2 **BIOSECURITY & NANOSCIENCE LABORATORY/CHEMICAL BIOLOGY & NUCLEAR SCIENCE**
"Growth Mechanism of Epitaxially Nucleated Calcite Crystals on Functionalised Self-Assembled Monolayers," by Ale Marcus Travaille, materials scientist, Experimental Solid State Physics Department, University of Nijmegen, Netherlands. 2 p.m., Bldg. 151, room 1209 Stevenson Room. Foreign nationals may

attend if appropriate security plan is on file, which includes Bldg. 151. Contact: Roger Qiu, 2-1636, or Katie Thomas, 2-7903.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the newsgroup llnl.meeting, contact the registrar at registrar@llnl.gov.



'Got Science?'

Photos by Scott Wilson

Public Affairs

Budding scientists (left and above) swab the insides of their cheeks and collect DNA samples for a special jewelry project during the "Got Science?" event.



SCIENCE

Continued from page 1

The free event for families and science buffs of all ages was sponsored by the Lab's Public Affairs Office and featured a wide range of interactive presentations by Lab scientists and volunteers.

"The event was such an amazing success because of all of the wonderful volunteers who were willing to give up their Saturday and bring out their exciting science displays and demonstrations," said Christine Mixan, event co-chair. "There are so many brilliant and enthusiastic people who work here and we could not have done it without them.

"The success of this event made us realize that our neighbors in the Tri-Valley really do want to learn more about the important research going on at LLNL. This was our chance to welcome the community to the Lab so that they could get a taste of what we do here in a fun and interactive way," Mixan added.

Popular stops of the day included the robotics section where visitors could command a robot arm to collect candy or operate LEGO™ robots. Also in demand was a demonstration explaining the "power of lasers" that was appropriately housed inside the Discovery Center's NIF target chamber replica.

For the younger set eager to exercise and burn up some energy, the energy bike and earthquake simulators were the popular devices.

The Lab's Science, Technology and Education Program's (STEP) "Fun with Science" was conducted in multiple sessions to standing room only crowds of spectators. In addition, the Edward Teller Education Center (ETEC) opened its doors to spotlight DNA jewelry making and fingerprinting activities.

"Scientific Jam," a local musical group featuring Livermore elementary science teacher Jeff Hale, mixed science and sounds, playing original tunes like "Fathom the Atom" and "Moving Molecules."

Mixan said due to the event's success and community interest, plans are in the works to establish an annual "Discover Science Saturday."



Director Michael Anastasio (left) visits with LLNL's Steve Wilson and his "Legends" road racer at the 'physics of racing' display.



A guest waits his turn as David Urabe of MMED/MoM Group mounts a visitor's hair sample to be tensile strength tested.



Albert Einstein, aka LLNL employee Evan Rittman, guides his protégés through a special experiment as part of "Scientific Jam," a rock band that sings of scientific phenomena while offering kids hands-on demonstrations to provide special accompaniment. The band performed throughout LLNL's "Got Science?" event.



AUTOMOBILES

2001 - Honda Odyssey LX, Silver, Keyless Entry, Roof Rack, Power Windows/Locks, Rear A.C., Retractable 3rd Row Magic Seat, 48k, Excellent Condition \$18,250 925-373-6814

1988 - Ford Escort GT, 5spd, 10 Disc CD changer, tinted windows, new brakes, shocks and tires. 2nd owner, excellent shape. All maintenance records. \$1000. 925-294-8558

1991 - Mazda MPV, 135K mi, 6 cyl, all power options, well maintained, great commute & family car, original owner - \$2500.00 415-543-3643

2000 - VW-Beetle GLS, 74k mi, 5spd, AC, PS, pwr windows, pwr locks, am/fm cassette, leather, moon roof, air bags and spoiler. \$8000.00/OBO. \$100s below list 925-240-8844

1983 - Monte Carlo, 80K miles, runs fine but needs work. \$500 OBO. Ext 3-9650. 925-462-4954

2000 - Porsche Boxster excellent condition. White w/blk conv, grey int, 5-sp, power windows, doors, locks, alarm, AM/FM CD, 50K miles. \$28K 925-997-0011

1997 - Camaro Convertible, 30TH Anniv. Ed. Silver, 3.8 liter V6, 5 spd., 12 disc CD, New Shocks/struts, custom wheels. \$8000 209-931-3239

2000 - Dodge Durango, very clean. 45K miles. V-8. See to appreciate. Asking \$12,000. Call evenings and weekends. 925-447-3780

2000 - Toyota Camry CE 4D Sedan, silver, perfect condition, 4cyl., 2.2L, loaded, 70K miles, Auto-trans, alloy rims, CD, tinted windows, \$8,900 925-736-7507

1991 - Acura Legend, taupe color, 104K miles, excellent condition. \$4,500 530-219-1931

2002 - Honda s2000, 2002 garage kept immaculate condition with 22,000 miles must sale (teenagers) 25800 209-239-0721

1995 - Oldsmobile 88 Royale, V6, 4 door, leather interior. Good condition, well maintained, original owner, smoke free. 96,000 miles. \$2,500.00 925-426-9495

1998 - Dodge Grand Caravan, 76000 miles, runs great, clean, some blemishes, PW/PL/PM, tape, changer, cruise, warranty, \$9,000 OBO. Call Gary after 6pm 209-474-9118

1998 - HONDA PRELUDE, 2dr., at, pw, pdl, tinted windows, alarm, cd, 87,000 miles, \$10,000. obo. 209-825-2649

1993 - Mercury Villager LS, loaded with features, pwr sun roof, clean, great condition, great family car. \$3,250. 925-484-0697

1996 - Mazda MPV MiniVan. Moving, must sell. Great commute, family vehicle. Well kept. Original owner, PS, PB, PW, AIR FRONT AND REAR, 100k miles. 4800.00 OBO. 209-983-8372

2001 - Honda Civic Ex sedan Slv/Blk very clean. Fully loaded, Alloy Wheels. 11,000 obo. 209-505-5234

1987 - BMW 328iS, Blue/Creme, Auto, LOADED, 150K, serviced every 3K, Beautiful car \$9,000.00 209-551-5261

1991 - Honda Prelude Sl, great gas mileage, 5 spd, sunroof, tilt wheel, auto windows, \$4000 or OBO 925-980-5592

1988 - Mercedes Benz SEL, 4Dr, Silver Blue, 141K. 10K on Tires, Polished Mercedes Rims. NO ACCIDENTS. ONE OWNER. \$4995 OBO. 925-245-0400

AUTOMOBILE ACCESSORIES

HFT manual tire tool \$20. HFT engine stand \$20. 10 inch table saw \$75. 209-957-3289

BMW Parting out, 1984 325E, engine & 5 spd trans. 116,000 miles \$800.00. Other Misc. parts. 209-943-2166

BICYCLES

Gold Rush Replica recumbent, \$1400. Black, large frame, ZZipper fairing, other extras. 925-449-7661

BOATS

1995 ChrisCraft ski/runabout, open bow, I/O, Ford 5.0LVB8FI, cover, Bimini Top, wakebd tower, tandem trlr, new tires, CD plyr, Exclt cond, lots of toys \$12000 510-538-7444

1996 20 ft. Regal deck boat. 302 engine F.I. volvo penta dual props. About 120 Hrs. Lot of extras. \$12,800 OBO 925-754-5377

2000 Lowe 15 foot fishing boat w/ Mercury motor, fish finder, & many extras! I have pics I can email. \$4800 530-682-7758

34ft. Magic 1995 off-shore speed boat. Twin 454 Magnum engines, 200 hrs. sleeping cabin, 40ft. triple axle trailer. \$69,500 OBO. 925-634-9399

Brand NEW Sea Eagle SE-9 inflatable fishing boat. Check out SeaEagle.com for more info. This is the Fishermans Dream package. \$500. 925-456-8120

CLASSIFIED ADS

35 HP electric start outboard Evinrude. Old but solid. Includes gas can. \$300 OBO 925-516-2570

CAMERAS

Two old Polaroid Land Cameras, SX-70, and Model 95, in good working condition. could be antiques. \$50.-both OBO. Call evenings 925-449-1718

Canon A1 35mm SLR with 3 lenses and Canon electronic flash. Great working condition guaranteed. \$195. 925-449-6032

Lenses and Optics. Box full of miscellaneous lenses, filters, mirrors, etc. from projectors and cameras; Over 100 optical parts. All for \$45. 925-449-6032

ELECTRONIC EQUIPMENT

Dell Desktop like new 4-yr old 800MHz, 20GB, CDROM, Windows Me, + HP printer + solid oak desk \$350 for all 530-682-7758

Television - Pioneer Wide-Screen 52 inch- 4-5 yrs old/Great Condit/Moving & Must Sell \$500 925-634-1599

Palm Vlx with keyboard. Perfect working order. Internet ready, all manuals/disks, multi software loaded. Synch with your MeetingMaker! \$150 925-516-9510

10 or 12 foot satellite dish. works great just going to smaller unit. \$100 call for more info. 209-833-7149

Yaesu FT-301 HF Tranceiver. 100 watts, 160m-10m. With Yaesu hand microphone, manual, and matching FP-301 power supply - \$275.00 925-447-9273

New Motherboard ECS L4VXA2, P4 ,8XAGP USB 2.0, FSB 533,(3)DDR 333 slots, ATA 133, LAN 10/100, HT Technology, onboard Audio, 5 PCI slots. \$40.00/OBO 925-447-4722

Nintendo GameCube games for sale: Pikmin \$10.00, Spyro \$15.00, Billy Hatcher \$20.00, TY The Tasmanian Tiger \$15.00. 925-447-8291

5 CD player in excellent condition. Has remote and random play feature. \$25 OBO 925-516-2570

GIVEAWAY

Free Scrapbooking and Rubberstamping supplies when you host a workshop. Check out the new 200 page catalog. See our new line of acrylic stamps. 925-455-8455

Clean Fill! Free Dirt! Very few rocks. Approx 3 cu yards. 925-846-2903

HOUSEHOLD

3 pc. Oak Entertainment Center/Sony 53 in.TV Lighted Shelving, Glass Doors, VCR/CD/DVD Storage. 5 yrs. old in excellent cond. \$2500.00 together 925-525-4346

Oak Desk - large, light-colored, old teacher-style, good condition, \$45 or best offer 925-455-1306

Dining/kitchen table & 4 chairs, pine w/walnut stain \$200. Whirlpool 10,000 BTU A/C w/mounting bracket \$200 obo. 925-634-9976

Twin Loft Fort Bed with canopy for hide out. Mattress included. Purchased at Costco. Really cool! Only \$200.00. 925-321-2753

Twin Oak laminate pedestal bed with 3 drawers/w/o mattress Great condition. asking \$150.00 or best offer. 925-872-6447

4 Breuner chairs (2 with armrest), like new with cushions \$80 for set of 4. Modern dining table \$20 415-543-3643

DUVET COVER & SHAMS-King size, Charter Club brand, cotton twill fabric. Beige with soft Tuscan Rose print. LIKE NEW! \$125.00 925-454-8874

Solid oak desk. 4 foot long 2.5 wide, single drawer, keyboard rollout and shelf on underside. Like new. \$65 530-682-7758

Merrit gas stove (1950s era OKeefe) 35 inches wide, some new chrome, 4 burners/griddle in the middle and warming tray/cover, works good, \$1500 OBO. 209-538-4475

Maytag washer and electric dryer. 10 years old. Minimal usage by two seniors. \$200 or Make Offer. 925-484-2173

Oak nightstands. two light oak, two drawer night stands, one excellent, one good condition \$50/both 209-545-6892

Dinning room set with table and 6 chairs, china cabinet and buffet. In great condition. \$2000 925-634-3096

Braun juicer \$25 OBO 925-735-6002

Washer/Dryer (gas), Kenmore, front load, ECO Care System, heavy duty, white, \$350 each/OBO. Only one year of use, excellent condition. 925-447-4370

Recliners - 2ea Strataloungers, Tan Leather/Extremely comfortable/good condition but need seam repair. Moving/Must Sell. \$150 for pair 925-634-1599

Red Clay Bricks - 400, 10 cents each. Paid 23 cents. Pick up in Livermore. 925-449-9514

Super Single Waterbed, complete, Bookcase head-

Newsline and classified ads

Current and past issues of *Newsline* are available from the *Newsline* archive on the Web. The latest edition of *Newsline* is usually posted on the Web the afternoon of the Friday it appears. To access the archive: <http://www.lnl.gov/lnl/06news/employee.html>

Newsline also is available in the publication alcove at the front of the new Livermore Public Library in the Civic Center. The latest editions are delivered to the library at the close of business Friday.

board, excellent condition, needs heater. \$100.00 209-599-4644

Queen mattress set. Simons BackCare BeautyRest 11 months new. Cost \$1200, sell \$350. 925-462-2197

DR table, 6 chairs, hutch, Walnut 50s Danish modern. \$350. Sectional couch, cream-peach weave. \$200 925-455-4896

Baby toys Fisher Price infant rocker w/mobile, music, vibrates. \$20.00: 209-833-8654

Dining room table, dark wood, 4 matching chairs on wheels with dark green cushions. Excellent condition. \$150 or BO. Ask for Barbara. 510-276-6092

Solid oak corner desk with hutch. Good condition. Must sell, trying to make room for an expected new baby. Asking \$250 925-606-0825

Dinette Set. Maple, 100% real wood, round table w/4 chairs: 45 inches diameter; expands to 63 inches with inserts. Beautiful condition. \$135. 925-449-6032

OAK entertainment center, 6ft high 5ft long, 32 in. TV, glass doors, interior lighting, great shape asking \$190 925-443-4844

Longaberger end table, wrought iron with maple top, perfect condition, retired product, \$100.00. 925-455-5985

White tubular metal sofa. Sofa in the day, bed in the night. Frame only, you add the futon. \$65 OBO 925-516-2570

LOST & FOUND

Lost regular prescription glasses in brown case with blue cleaning cloth. Left in bicycle basket July 8. Contact 3-4634 or 925-875-1268

MISCELLANEOUS

49er Tickets: 3 Tickets/50 yd. line, Sec. 41 w/parking. \$217.00 per game (face value). Available: Raiders 8/14 & Home Opener against Atlanta 9/12. 925-447-3440

Wooden play structure, two 5x5 ft towers, swings, some work req., \$250. Free playground wood chips available. 925-294-9022

Ladies Wetsuit Oceanic, jacket and Farmer John, 7mm med, large, very good condition \$65 obo 925-684-3709

4 Breuner chairs (2 with armrest), like new Skil saw (\$20), new carbide adjustable dado blade (\$25) 415-543-3643

SF 49ers vs. San Diego 9/2/04 Upper Reserved 2 tickets \$50/ea (face value \$64/each) 209-599-9942

Polaris 340 pool cleaner, suction side automatic cleaner. Like new. \$280.00 O.B.O 925-426-8139

Hamilton 5 ft. electric drafting table with Vemco V-track drafting machine. Ex. cond. Make offer. 209-538-4475

Mirror, oak frame w/stained glass design around mirror, large 34x44, excellent condition. \$40.00. 925-455-5985

Moving boxes and packing materials, \$75. 925-294-8617

Swimming pool cover roller. 25 ft long stainless steel roller. Have spare parts. \$125. 925-447-6515

Football tickets (2) 49ers/Raiders, Aug. 14 and 49ers/Arizona, Oct. 10 at Candlestick. Upper reserved, good seats. 925-443-4909

Baby toys Evenflo Megasaucer, \$30.00; Fisher Price Jumperoo, w/lites & music, \$35.00; Gerry back pack carrier, \$10.00; 209-833-8654

Sofa, 8 ft, beige/light green. 2 green swivel rocker chairs. 2 glasstop coffee tables, 2 wood end tables. BO. 510-276-6092

Moving sale: Couch \$100, Cedar Chest \$75, Wood Computer Desk \$50, Maple Twin Bed w/mattress & box springs, nightstand & wall unit \$175 925-447-7088

Closing Nursery Plant Sale-Sat Sun 7/24-25-1 gal \$1.95, 5 gal \$7.95, 15 gal shrubs \$24.95, 15 gal trees \$29.95-2670 Blixer Rd, Brentwood 925-240-6311

For viewing ads on or off site. . .

Onsite: <https://www.ais.lnl.gov/newsline/ads/>
Offsite: <http://www.lnl.gov/lnl/06news/employee.html>

save more. Rate presently \$119/mo. 209-521-9047, ext. 2-5177

SERVICES

Need childlitter for two, after school hours, K-Grade & 4th-Grade, Sunset area. Must love children and have other child playmates. 925-449-3499

Piano Tuning--your place or mine. 10% LLNL discount on regular tuning. 925-371-6997

SHARED HOUSING

Livermore - House share in livermore, female, master bedroom inc/washer and dryer and lots of yard. 600 mo. 925-447-2466

RIPON, - ROOM for rent in new home, private entry, pool/spa, close to hwy, non-smoker, house privileges, utilities included, \$425.00 monthly, call 209-599-3994

Livermore - Sngl parent w/2 daughters has rm avail for rent. Mstr bdrm/ba w/all priv. Warm & friendly environment. Avail Sept. \$600 includes util. Fem pref. 925-606-0260

TRUCKS & TRAILERS

1990 - GMC Suburban 1500, 4x4, tow pkg, dual AC, runs, looks great, perf. cond, very clean 124k mi asking \$4,990.00 209-874-2193

1998 - Morgan Brovo Built 2 horse slant, bumper pull trailer \$3,800. The only reason I am selling is because I need a larger trailer and fast. 925-516-9606

1968 - Ford F-250 long bed. 360V8, 4 Speed, 4:10 dana 60 rear. Has some front fender rust & needs a tuneup. In Lodi. \$800 209-368-4286

1993 - Ford Ranger 4x4. Good condition \$4500 obo 925-447-7768

2004 - Winnebago Itasca Sunova 27C class A motorhome. Brand new, fully loaded >3000mi. Extended warranty. Paid \$79,850 new, sacrifice at \$68,500. 925-606-6338

1985 - Dodge Ram Charger, Good Running Condition, \$3,000/OBO 925-455-9369

1998 - Chevy S10 pickup. Ext. cab, 4cyl, 5 speed, 59k miles, hard bed cover. Runs excellent. Just passed smog 7/21/04. \$7300 obo. 925-784-2866

1986 - Minnie Winnie Motorhome 24 ft, w/all amenities. Good clean condition. Asking \$3800 obo. Will consider trade for ATV or Boat of equal value. 209-532-2581

1994 - White Suburban, seats 9, 4 wheel drive, one owner, 160K miles, ex. cond., \$6,900 OBO 925-484-4566

1999 - Toyota Tacoma Xtra Cab 4WD Off-Road Pkg, 35,000 mi, exl cond., \$15,000 925-449-3499

1998 - Dodge Quad-Cab V8, A/C, Auto, PS, Anti-Lock Brakes, PL, PW, Heated PM, camper shell, tow package. Runs great! \$8k w/stock wheels, \$8750 w/20inch wheels. 209-456-2707

VACATION RENTALS

Mountain cabin near Arnold. 4 bedr, 2 bath, fully equipped kitchen. Streams, lakes, hiking nearby. Steeps 10-12. 925-245-1114

Soooo cute beach cottage in Santa Cruz. 2 bedr, 2 bath, fully equipped kitchen, spa. Plenty of room in September. 3 blks. to ocean. 925-245-1114

Solana Beach/Del Mar - Oceanfront condo, deluxe 2 br., 2 1/2 ba., fully equipped, tennis, pool, jacuzzi, gated and covered parking, near San Diego attractions 925-443-2271

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, nicely furnished, quiet area, all amenities, Park w/lake, tennis etc. Great for Vacation. HURRY FOR OPENINGS. RESERVE NOW! 209-599-4644

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

So Lake Tahoe cabin 2 blocks from Heavenly for rent. \$350/week, \$175/weekend and \$60 each additional night. Sleeps approx 8. Call Steve or Jan 925-240-1615

Yosemite Area - Pine Mountain Lake condo, 2 bedroom, peaceful gated golf community. Nearby pool and lake 408-268-7924

WANTED

Car needed for my daughter. Safe, reliable, economical, affordable, high mileage ok. 209-786-2245

Wanted: 2 Brad Paisley tickets for Aug 9th. 925-785-3589

Cuttings from Verbena ground cover 925-735-6002

Combination TV/component stand for 52 inch wide-screen TV and home entertainment sytem. 925-449-3499

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

BRIEFLY

Win a mini iPod

Mona LLESA is going to retire. Submit the winning design for a new logo to represent the Livermore Laboratory Employee Services Association (LLESA) and you'll win a mini iPod. A contest entry form can be found on the LLESA Web page <http://llesa.llnl.gov/> under the paint palette titled LLESA Logo Contest or at the LLESA Office located in Bldg. 415, room 142. Contest entries must be received in the LLESA Office by 4:30 p.m. on Friday, Sept. 10.

NASA seeks research collaborations

As NASA gears up to begin implementing the nation's new vision for space explo-

ration announced by President Bush in January, the Ames Exploration Systems Office at NASA Ames Research Center in Mountain View is looking for research collaborations with industry, academia and the national laboratories in a variety of research areas related to human and robotic technology.

To help foster these partnerships, NASA Ames last week hosted an "Ames Exploration Systems Technology Partnerships Forum." The forum described partnership opportunities in such areas as entry systems technology, nanotechnology, autonomous systems and robots, high-end computing, integrated systems health management, robust software sys-

tems and human support technologies. Slides and a Webcast of the presentations, along with contact information, are available at <http://exploration.arc.nasa.gov/partnerships/index.cfm>. Letters of interest in establishing collaborative agreements are due to NASA in early August.

NASA's Exploration Systems Enterprise develops capabilities and supporting research and technology that enable sustained and affordable human and robotic exploration. This includes the biological and physical research necessary to ensure the health and safety of the crew during long-duration space flight.

ASSESSMENT

Continued from page 1

oratory releases of plutonium to the environment in the 1960s and tritium in the 1960s and 1970s. The releases were unusual, but below regulatory limits.

Other parts of the assessment deal with public health concerns, groundwater issues and Laboratory worker health studies. All found no public health impacts from Laboratory operations.

The assessment also noted, "The current environmental monitoring program conducted by LLNL is adequate to ensure that future releases of hazardous substances will not present a future public health hazard."

The only recommendation for the Laboratory in the assessment is that it continue to conduct its environmental monitoring program at the main site. The program will continue and is required for regulatory compliance.

The Agency for Toxic Substances and Disease Registry is part of the Centers for Disease Control of the U.S. Department of Health and

Comments sought for Site 300

A separate Public Health Assessment for Site 300 has been completed and is available for public comment until Aug. 27. The Livermore site assessment completed public comment and review last year.

The draft Site 300 assessment found no public health hazard from past or ongoing operations at Site 300. The findings mean that, "exposure to contaminants from Site 300 is not occurring now, has not occurred in the past, and is not expected to occur in the future."

In the assessment, the Agency for Toxic Substances and Disease Registry states, "people are not, have not, and are not expected to be, exposed to hazardous substances associated with Site 300."

A meeting to present the findings for Site 300 will be held by the agency at 7 p.m. Aug. 12 in the Tracy Community Center, 300 E. 10th Street, Tracy.

The Livermore and Site 300 Public Health Assessments are available on the Web at <http://enviro.llnl.gov/>. The Website also has information on how the public may comment on the Site 300 assessment. Environmental information about the Laboratory is also available on the Website or by calling the Environmental Protection Department at (925) 424-4026.

Human Services. The agency is responsible for assessing public health impacts at U.S. Department of Energy sites undergoing environmental restoration.

In concluding the assessment process, the agency said, "with the publication of the final PHA and with the assistance of the California Department of Health Services (CDHS), we have addressed all of the public health issues identified by the LLNL site team."

The LLNL site team was created by the agency to involve the community as part of the assessment process. The team included members of the public and representatives from DOE, the Laboratory, City of Livermore, Alameda County Department of Health, CDHS, TriValley Citizens Against a Radioactive Environment, Western States Legal Foundation and Physicians for Social Responsibility.

The agency will hold a public meeting in Livermore to present its findings and answer questions on the Livermore site assessment. The meeting is on Aug. 11 at 7 p.m. in the Chianti Room at the rear of Fire Station No.6, 4550 East Ave., Livermore.

CREM

Continued from page 1

ties that use CREM. Until further notice, no accountable CREM may be used by LLNL employees, contractors, supplemental laborers, participating guests, visitors or anyone else con-

ducting LLNL-directed work.

Bill Bookless, deputy associate director for Defense & Nuclear Technologies and chair of the working group, said he was pleased with the response employees have given the various inventories. "Everyone is taking a very proactive view of this," he said.

Bookless' group has finalized a restart process once the inventory is complete and the

Lab demonstrates effective controls for CREM are in place. Approval must be granted by Deputy Secretary Kyle McSlarrow's office before work with accountable CREM may restart. Updated information on Laboratory activities related to the inventory will be provided in *NewsOnLine* and *Newsline* as it becomes available.

RIVERS

Continued from page 1

for 10-beryllium, a rare isotope that forms when cosmic rays hit surface rock and sediment.

"From the measurements, we were able to tell when the rivers formed the bedrock terraces," Finkel said. "We were therefore able to calculate how quickly the rivers cut through the bedrock because we knew the age of each terrace."

The Susquehanna River narrows as it travels south into Pennsylvania forming the five-kilometer long and one-kilometer wide Holtwood Gorge. Because the gorge contains three distinct bedrock terrace levels, the researchers were able to use the 10-beryllium isotope content of each level to determine when Holtwood was formed.

The Potomac River drops 20 meters as it passes over Great Falls, Va. through the three-kilometer long, 75- to 125-meter wide Mather Gorge.

The study shows that rates of down cutting (the

process referring to the cutting of gorges downstream) increased dramatically between 35,000 and about 13,000 years ago. From 32,000 to 16,000 years ago, the rate of down cutting in Holtwood Gorge more than doubled from about 7.8 inches every 1,000 years to 19.7 inches every 1,000 years.

The Mather Gorge formed about the same time in the same fashion, the report states. The researchers determined that though both rivers were down cutting before 35,000 years ago, the rate was much slower.

The report concludes that the bedrock down cutting in both rivers was initiated and sustained during a period of cold, stormy and unstable climate through the late Pleistocene Age (1.8 million to 11,000 years ago). That down cutting or incision ceased just before the transition into the warmer and more climatically stable Holocene Age. Because the glaciated Susquehanna and the unglaciated Potomac responded in a similar fashion, the group hopes to continue research into why the incision occurred when it did.



COURTESY OF PAUL BIERMAN/UNIVERSITY OF VERMONT

The Potomac River cuts through Mather Gorge; the geologic process has been on-going for some 35,000 years.

Protests on consecutive days scheduled for August 8-9

By David Schwoegler

NEWSLINE STAFF WRITER

An amalgam of proclaimed peace groups and anti-nuclear activists have planned demonstrations on two consecutive days at the Lab, commemorating the Hiroshima and Nagasaki bombings during World War II.

On Sunday Aug. 8, between 500-1,000 "Books not Bombs" demonstrators will rally at the Jackson Avenue School. At 3 p.m., they plan to march through Robert Livermore Park and proceed up East Avenue to Vasco Road, where the protest is

scheduled to take place, concluding by 5 p.m.

Employees entering or leaving the Lab between those hours should proceed through the post at Greenville Road and East Avenue. The post at East and Vasco will be closed. Both CHP and the Livermore Police Department will assist with traffic control along East Avenue during the march, but motorists are encouraged to avoid the area.

The next day, Monday, Aug. 9, a somewhat smaller group estimated at between 50 and 250 protesters will assemble at William Payne Park at Vasco and Patterson Pass roads at 7:30 a.m. Sponsoring organizations have not announced an action

plan, but demonstrators may move to one or more Laboratory gates, where gate closure and arrests may occur. These activities will likely coincide with morning commute hours at the Lab. Employees should allow extra time to reach their workplaces that day.

During the demonstrations, the Lab's Security Department will coordinate support from the Alameda County Sheriff's Department, the CHP, the Livermore Police Department and Sandia Security.

More details will appear in future editions of *Newsline* and *NewsOnline* when they become available.

POSTDOC

Continued from page 1

ing in the heavy elements group as a data analyst. His presentation focused on the breakthrough discovery of elements 113 and 115 last year.

"The research I do is absolutely exciting because it's the discovery of new elements which are fundamental to all of chemistry," he said.

Over the past six years, the Lab has been instrumental in the discovery of four new elements, and Patin actively contributes to the continued discovery effort.

"Our goal is to extend the periodic table," Patin said. "We're working on finding a fifth this next year and hopefully a sixth in the next two to three years."

His charisma and passion for his work are evident. "I love coming in every day knowing that there is a possibility of discovering a new element," he said. "That's what drives me."

During the symposium, the Bldg. 155 lobby was transformed into a colorful gallery, filled with more than two dozen posters outlining the research projects of CMS postdoctoral employees. Chem-



JACQUELINE MCBRIDE/NEWSLINE

Left, Joshua Patin, a former postdoc who recently became a staff scientist in the Chemistry and Materials Science Directorate, received this year's Harold C. Graboske Jr. Award for Excellence in Post-Doctoral Research from Graboske.

istry postdoc Nir Goldman received the second award in recognition of his "outstanding

poster" on "Simulations of Water in Giant Planets."

Forty-five postdoctoral students participated in the all-day event that displayed work from a wide variety of specialties ranging from nanoparticles to spectroscopy, including 28 poster presentations, as well as 13 oral lectures.

"This event serves as a mechanism for postdocs to present research to a Lab-wide audience, giving students exposure and fostering collaboration between researchers because they are able to see what their peers in the directorate are working on," said Linda Jones, an administrator in the CMS Directorate who has helped organize and run the event for the past three years.

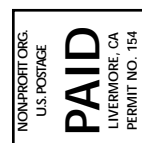
Since its founding in 1998, the CMS postdoc program has doubled in size. The symposium, beginning in 2000, was created to help postdocs develop a sense of community at the Lab. The symposium also gives postdocs an opportunity to receive feedback from senior Laboratory scientists on their work as well as helping to promote a strong interface between postdocs and the general Laboratory community.

Stewardship briefing



JACQUELINE MCBRIDE/NEWSLINE

Chemistry's Randy Simpson, left, briefs NNSA Principal Deputy Administrator Jerald Paul, center, and Director Michael Anastasio on the Lab's integrated approach to stockpile stewardship. Experiments being carried out in the High Explosives Applications Facility are being used to validate computational models of the Advanced Simulation and Computing Program with the ultimate goal of helping certify the safety and reliability of the nation's nuclear weapons.



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