

NEWSLINE

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Vol. 26, No. 25



DON GONZALEZ/TID

Christine Orme, Aleksandr Noy, James De Yoreo and Mary McBride collaborated on calcite research that will benefit the study of bone and shell growth. Their work appeared in *Nature*.

Scientists bone up on calcite research

By Sheri Byrd
NEWSLINE STAFF WRITER

A Lab team's new research on the process biological organisms use to modify crystal shape and growth, forming such complex structures as bones, eggshells and seashells, is detailed in the most recent issue of the science journal, *Nature*.

Christine Orme of Chemistry and Materials Science is the lead author of the article, titled

"Formation of Chiral Morphologies through Selective Binding of Amino Acids to Calcite Surface Steps." It details the research and discoveries of a team of physicists, chemists and geologists from the Lab, in collaboration with the University of South Alabama and Virginia Polytechnic.

The results of the team's research will apply

See *NATURE*, page 8

DDLs spotlights ways to explore the universe using laser interferometer

Barry Barish, professor of physics at the California Institute of Technology, will talk about the Laser Interferometer Gravitational-Wave Observatory, as part of the Director's Distinguished Lecturer series. The talk begins at 3:30 p.m. Tuesday, June 26, in the Bldg. 123 auditorium. Director Bruce Tarter invites all employees to attend.

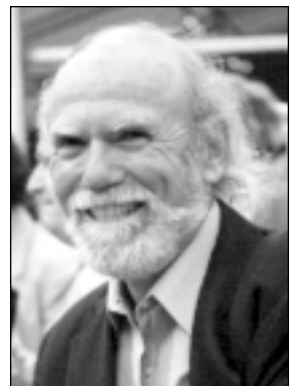
The goal of the Laser Interferometer Gravitational-Wave Observatory (LIGO) is to detect gravitational waves and then to use them as a new tool to explore and study the universe.

Barish, director of LIGO, says that general relativity predicts the emission of gravitational waves whenever compact concentrations of energy change shape.

According to Barish, this could occur in a variety of astrophysical phenomena, like the fusing of binary systems, such as a pair of neutron stars or black holes. This warpage of space-time increases through space at the speed of light and, in principle, can be directly detected on the Earth's surface.

Barish will discuss the sources of gravitational waves and techniques for detection, as well as the status and prospects for the LIGO project.

Barish has carried out research at major high energy physics facilities — Brookhaven National Laboratory, Fermilab, Stanford Linear Accelerator Center, Cornell and at Gran Sasso Laboratory in Italy.



Barry Barish

See *DDLs*, page 8

Today is your last chance to submit survey booklets

Today is the last day to mail your booklets for the employee survey, "Assessing the Workplace." If you are filling out the survey online, you still have until June 29.

Both deadlines were recently extended to give more employees time to complete the survey, as well as accommodate for a series of technical glitches involving the survey Website.

The deadline for the survey booklets comes prior to the online survey to allow ISR, the firm conducting the survey, plenty of time scan and tabulate the data.

In order for the results of this survey to be meaningful, response from a strong majority of employees is needed. To date, 58.6 percent of

See *SURVEY*, page 8



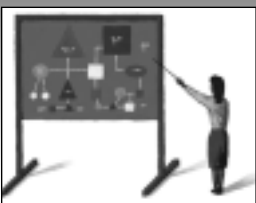
"ASSESSING THE WORKPLACE"

— EMPLOYEE OPINION SURVEY —



Total response as of June 21: 58.6%

Directorate	No. employees	Surveys submitted (Online)	Percentage submitted (Online)
Administration	258	165	64%
Biology & Biotechnology Research	231	108	46.8%
Chemistry and Materials Science	445	249	56%
Computation	898	578	64.4%
Defense & Nuclear Technologies	377	242	64.2%
Director's Office	230	145	63%
Energy & Environment	315	149	47.3%
Engineering	1973	1112	56.4%
Laboratory Services	1352	695	51.4%
NIF/ICF	181	122	67.4%
NAI	253	150	59.3%
Physics & Advanced Technologies	365	189	51.8%
Safety & Security	831	488	58.7%
Unidentified		25	
Lab Total (includes booklets)	7,709	4,515	58.6%



Panels explore 'Schools-to-Career'

— Page 2



Play it safe at annual fair

— Page 5



Workshop on foreign visits

— Page 8



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Tuesday
26

A **workshop for students** on the three secrets to being a successful scientist called "The Three Ms" — high quality methods, manuscripts and money — will be held at 10:30 a.m. in the Bldg. 219, room 163. This course will focus on the aspects of being a scientist not covered in subject specific courses. This is the first of three workshops. The remaining two are scheduled on June 28 and July 3 at the same location and time. To register for this course, go to <http://education.llnl.gov/sbb> or contact Barry Goldman, 2-5177.

Wednesday
27

The **African American Lecture Series** begins with a talk by Dianne Gates-Anderson on "Development of a Chemical Deactivation Treatment Process for Depleted Uranium Metal," at 10 a.m. in the Bldg. 361 auditorium. The series is co-sponsored by Chemistry & Materials Science and the Affirmative Action and Diversity Program. Contact: Tuijauna Mitchell-Hall, 4-4469; Nora Briant, 2-6414; or Winifred Burks-Houck, 2-6365.

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Bring your spouse and your kids to the Lab's **Family Safety and Health Fair**, from 11 a.m.-1:30 p.m. near the Lab's pool/lawn area. The fair will feature demonstrations on fire safety and first aid, health evaluations such as blood pressure and cholesterol checks; safety information for the house, office or work site; safety-related giveaways; bike checks from the Cycletrons; free chair massages from LLESA; food and much more.



Sign ups are now underway for the Lab's quarterly **blood drive**, which will be held July 2 from 10 a.m. to 4 p.m. and July

3-6 from 7:30 a.m. to 1:30 p.m. in Bldg. 415. In addition to the blood drive, there is also a drive for bone marrow donors. Employees can participate in either drive or both. The bone marrow test is a simple blood draw and can be done at the same time as the blood donation. To sign up online for the blood drive, go to the Website www.beadonor.com (group code: LLNL). Contact: Mandy Lewis of the Red Cross, (510) 594-5211.



**BROADCAST
SCHEDULE**

A segment of the Lab's community television show, *Technology Today*, on "**Cooking Meat with Less Carcinogens**," will air on Lab TV on Tuesday and Thursday for two weeks, beginning June 26. The show will be broadcast on channel 7 at 10 a.m., 2 p.m. and 8 p.m.

Firefighters seeing red



Fire Chief John Sharry, right, shows off one of his department's two new bright red fire trucks to Dennis Fisher, associate director for Safety, Security & Environmental Protection. Fisher was among a group of managers who toured the Lab Fire Department on Monday to get a closer look at the new engines.



JULIE KORHUMMEL/NEWSLINE

EYH organizers need volunteers for San Joaquin event

Volunteers are needed to help plan the ninth annual San Joaquin Expanding Your Horizons in Science and Mathematics Conference scheduled for Oct. 6, at the University of the Pacific in Stockton.

This dynamic event introduces young women in the 6th through 12th grades to a variety of interesting and challenging careers in math and science through hands-on workshops and a career panel. Workshop presenters and career panelists are needed as well as volunteers to help with planning. Volunteers are currently being sought in the

following areas: finance (resource management), fund raising, food coordination, packet preparation, program planning, publicity and registration.

In addition, there are many volunteer assignments the day of the conference.

To volunteer, complete the volunteer form online at: http://education-db.llnl.gov/eyh/volunteer_form.html or contact Toni Bettencourt at 3-4684 (bettencourt7@llnl.gov) or Linda Dibble at 3-8651 (dibble2@llnl.gov) for more information.

RETIREMENTS

Carol Alonso

The retirement party for Carol Alonso, scheduled for Wednesday, June 27, has been postponed pending further notice.

Alonso, assistant director for Internal Affairs in the National Security Office, is retiring July 1 after 29 years at the Lab.

For more information contact Lisa Palmer, Cathy Benjamin or Monica Navarra at 3-6812.

Linda Ault

Linda Ault, an optical engineer for NIF, is retiring after 20 years at the Lab.

A retirement party is planned for her on Friday, July 13, from 3:30-6 p.m. at Cedar Mountain Winery, 7000 Tesla Road. The cost is \$15 per person. Food and beverage will be furnished by Cedar Mountain Winery.

Your \$15 tax deductible donation will be sent to the Expedition Inspiration Breast Cancer Research Fund (Tax ID 91-1646381).

Please RSVP to Julie Fietz, Bldg. 482 room 1224A, 4-6083; or Mary Colborn, Bldg. 482 room 1244A, 4-3718 no later than Friday, July 6.

Joanne Reifenheiser

Joanne Reifenheiser is retiring from

Respirator Services in the Hazards Control Department on June 29. Joanne has been with the Lab for 20 years.

There will be a retirement party at Retzlaff Estate winery on June 28. The requested contribution is \$15 per person, which includes tax, gratuity and a gift. If interested contact Melody Pelzl by Monday, June 25, at Bldg. 255, room 126 or call her at 2-5215 to reserve your spot.

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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AROUND THE LAB



Today's food choices have health consequences later

By **Stephanie Esposito**

NEWSLINE STAFF WRITER

It has been proven that a person's genetics may make a person more susceptible to cancerous tumors, but according to Jim Felton and the Lab's Biology & Biotechnology Research Program (BBRP), the way humans eat may also be causing cancer.

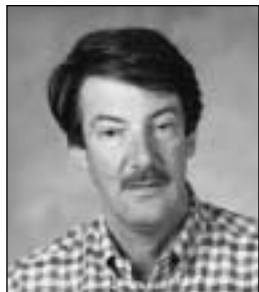
"The food choices we make today may have health consequences later in life," Felton said in his recent lecture, "BBRP Research into Mutagens in the Food We Eat." This was the second lecture for the Lab's Cancer Awareness Campaign 2001, which will continue throughout June in honor of National Cancer Survivors Month.

According to research produced by BBRP and other facilities such as UC Davis' Cancer Center, increasing data show that cancer-causing mutagens are showing up in foods that have been overcooked at high temperatures for long periods of time.

Felton used the Lab's own cafeterias as an example of overcooked foods. Although the Cafés cook hamburgers and other meats thoroughly to kill any *e. coli* or salmonella bacteria, the food is being over-

cooked, which Felton believes is the main factor in generating the mutagens.

"There is a higher risk of mutagens with red meat, especially well-done red meat...and when you cook it longer," Felton said.



Jim Felton

This data came out of a study on four different compounds that appear in meats, especially red meat, which have been overcooked. The compounds were tested on mice/rats and non-human primates and it was found that the compounds induce tumors in all species.

Felton found it most interesting that the animals were diagnosed with breast, colon and prostate tumors, which are also the most common types of cancer found in humans.

"This shows a degree of relevancy," Felton said.

It's also been shown that African-American males, who have higher prostate cancer rates than other ethnic groups, tend to eat more well done red meat, thus consuming three times the amount of mutagenic compounds than white males.

In order to avoid mutagens in your food, Felton advises microwaving food for a few minutes before cooking. When microwaving, the juice from the meat, which has been found to produce the mutagens, will have the chance to drain, thus reducing the levels of carcinogen concentration in the meat. After microwaving, the meat may be put on the BBQ grill without the meat becoming contaminated.

Other cooking tips to prevent mutagens include continuously flipping the meat to keep the surface temperature of the meat low. Felton also suggested people buy little penetration thermometers to test the internal temperature of the meat and keep it from getting over 150 degrees Celsius. Marinating meats has also shown to reduce carcinogens because the marinade keeps the surface temperature low.

"The type of meat is not important," Felton said, "the way you cook it is much more important."

The best advice Felton could offer the audience was to eat a balanced diet, and decrease the cooking temperature and time, which will lower the amounts of mutagens consumed.

At the end of his talk, Felton emphasized that "the last word has not been said on this. I think more studies have to be done...but a balanced diet is your best bet."

'School-to-career' panels explore opportunities for summer students

Ali Carrigan

NEWSLINE STAFF WRITER

Summer students interested in exploring the possibilities of graduate school and ways to stay involved at the Lab will soon have all their questions on the subject answered.

Following the success of last summer's panel discussion aimed at female summer students and younger employees, the Institutional Education Committee, in partnership with the Science & Technology Education Program (STEP) and Sigma Xi, has decided to sponsor three more panel discussions for students and employees, all addressing the theme "School-to-Career."

"We received a lot of positive feedback from students and employees last year," STEP representative Barry Goldman said. Goldman is the manager for undergraduate and graduate internships at STEP, and works closely with summer students.

"But some students also said that they wanted to hear from researchers closer to their own age,

and they wanted to learn how to stay connected to the Lab for more than a summer."

Goldman took these suggestions and organized the three panels to match the requests. Accordingly, the first panel focuses on how summer students can pursue graduate study and receive fellowships for work at the Lab. Titled "Graduate Opportunities and Advanced Education Fellowships," the panel is scheduled for Friday, June 29, from 10:30 a.m. to noon in the Bldg. 543 auditorium.

"The panelists are on various scholarship and fellowship committees, so they can share experiences of how one can apply, and put their best foot forward," Goldman explained. "It's a great opportunity for students to ask questions of the people who actually sit on the selection committee and choose students for these financial awards."

Panel members Charlie Westbrook, Gene Bailey, Carla Trujillo, Alan Wootton and John Knezovich will discuss graduate school and fellowship opportunities with students. Glenn Fox, manager of the Chemistry and Materials Science

Post-Doctoral Program and member of the Lawrence Award Committee, will moderate the discussion.

Westbrook is the division leader of the Chemistry and Chemical Engineering Division at the Lab. He has also worked in applied physics and computational physics since coming to the Lab in 1968. He earned his Ph.D. in engineering and applied science at UC Davis in 1974.

Bailey is the administrator and acting director for the National Physical Science Consortium Physical Science Fellowships. He earned a master's degree in public administration from Troy State University and a bachelor's degree in Business Management from Peru State College.

Trujillo is the director of the Graduate Academic Diversity program and the Julia Morgan Engineering program at the College of Engineering at UC Berkeley. She has also lectured in the ethnic studies program at UC Berkeley and

See **STUDENT**, page 8

BRIEFLY

Talk on nuclear buildup in South Asia

The Center for Global Security Research will present "Limited War & Nuclear Escalation in South Asia," a talk by Vasantha Raghavan, at 2 p.m. Monday, June 25. The talk takes place in Bldg. 132S, room 1784, an open area.

Both India and Pakistan tested nuclear weapons in 1998 and were involved in military conflict in 1999. The possession of nuclear weapons has not led to deterrence stability. There has been talk in India about fighting a limited war with Pakistan.

The consequences of a war, even a limited one, can be dangerous in terms of a nuclear weapons exchange. The risks of nuclear escalation will be high in the event of a limited war between India and Pakistan. The talk will examine the possibilities of a limited war and a nuclear escalation in South Asia.

Raghavan, a retired lieutenant general, was a director general of military operations of the Indian Army. He has also been the commanding

general in the Kargil and Siachen Glacier area, as well as chief of staff/Northern Army in Kashmir.

For more information, call Tami Alberto, 2-5969.

African American lecture series starts

Chemistry and Materials Science, in collaboration with the Affirmative Action and Diversity Program (AADP) is starting an African American Lecture Series to create a forum for Lab African American scientists and engineers to showcase their work.

The series is designed to enhance the awareness of African American contributions to science and technology at LLNL and is intended to appeal to a broad scientific audience.

The first lecture, "Development of a Chemical Deactivation Treatment Process for Depleted Uranium Metal," will be presented by Dianne Gates-Anderson on Wednesday, June 27, at 10 a.m. in the Bldg. 361 auditorium. The lecture is

unclassified, and the location is open to P clearance levels and higher.

Gates-Anderson is an environmental process engineer in the Hazardous Waste Management Division. She is responsible for conducting "treatability" studies and other applied research projects. She will discuss LDRD project research to develop an integrated process to convert pyrophoric uranium metal waste to a non-pyrophoric waste that is suitable for disposal.

Prior to joining the Lab in 1997, she was a member of the research staff at Oak Ridge National Laboratory, where she was the principal investigator for several multi-year research projects. Gates-Anderson received her bachelor's degree in chemical engineering from Oklahoma State University and her master's and Ph.D. in environmental engineering from UC Berkeley.

For more information about the lecture series, contact Tuijauna Mitchell-Hall, 4-4469; Nora Briant, 2-6414; or Winifred Burks-Houck, 2-6365.



NEWS YOU CAN USE

Tips on how to keep the home fires from burning

When it comes to fire safety at work, the Laboratory has a very effective prevention program in place, says Lab Fire Capt. Jim Watkins, who is trying to get employees and their families to think prevention at home.

Watkins will be at the Lab's Home Safety and Health Fair, Wednesday, June 27, to share ideas on how to prevent fire tragedies at home. He'll have a home fire safety checklist for fairgoers and handouts on developing escape plans and tips on use of smoke detectors.

Also on display, says Watkins, will be the newest additions to the Lab's fleet of fire vehicles — a 2001 American LaFrance fire engine and a 2001 aerial ladder truck.

The fair, from 11 a.m. to 1:30 p.m. on June 27, culminates the Lab's observance of National Safety Month (see page 5 for more details).

According to the National Safety Council, which sponsors safety month, fire and burns are the third leading cause of at-home fatalities. In 1998 alone, 3,300 people lost their lives in home fires.

The council offers these tips on fire safety for the home.

- Equip your home with smoke detectors on every level, particularly outside of sleeping areas.
- Ensure that your smoke detectors are tested monthly and batteries are replaced twice a year. Change batteries when you change your clocks.
- Encourage children to help test the smoke detectors. Familiarize them with the sounds of the alarm(s).
- Keep an all-purpose fire extinguisher in your kitchen (one rated for grease fires and electrical fires.)



It is also a good idea to keep fire extinguishers near the furnace, garage and anywhere else a fire may start.

- Make sure every able-bodied member of the family is trained and familiar with the proper way to use the fire extinguishers. If you must use an extinguisher, make sure you have a clear way out in the event you can't put out the fire.
- Keep matches, lighters and candles out of reach and out of sight of children.
- Avoid grease build-up in the kitchen and on appliances. Don't leave food cooking on stovetops unattended. If a cooking fire should occur, smother it with a pot/pan lid or a cookie sheet, or close

the oven door.

- Never put children to sleep in "day" clothes. Fire-retardant sleepwear can make a difference in burn outcomes.
- Make sure your electrical system is not being over-taxed. This can cause a fire.
- Inspect wires. Immediately stop using an appliance that has any worn or exposed wiring.
- Have your chimney inspected and cleaned annually to prevent a chimney fire.
- Space heaters can be dangerous, so make certain yours will automatically shut off if tipped over.
- Keep appliances unplugged when not in use.
- Prepare an escape route for each area of your home and designate a meeting place outside for your family. Draw a map that is easy for all members of the family and visitors to understand.
- Make your children familiar with the ideas of "crawling underneath the smoke" to escape a fire and "stop, drop and roll."
- Make sure every sleeping room has two means of escape in the event of a fire. Windows provide a secondary means of escape, so ensure they are in proper working order and are not painted shut.
- Ensure members of your family understand they should never re-enter a burning building and that they should call emergency responders (911) from a neighbor's house.
- Practice your escape plan periodically. It will be easier to remember in case of an emergency.
- Teach young children to know their street address and last name (and, of course, how to dial 911).

Technical Meeting Calendar

Friday
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MATERIALS SCIENCE & TECHNOLOGY

"The Graceful Aging of Plutonium," by Bill Wolfer, LLNL. 3:30 p.m., Bldg. 235,

room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Thomas E. Felter, 2-8012.

Monday
25

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Finite-Volume Methods and Software for Hyperbolic PDEs and Conservation Laws," by

Randall LeVeque, University of Washington. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Xabier Garaizar, 3-1521, or Leslie Bills, 3-8927.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Relaxation Schemes and Approximate Riemann Solvers for Nonlinear Hyperbolic Problems With Variable Coefficients," by Randall LeVeque, University of Washington. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Xabier Garaizar, 3-1521, or Leslie Bills, 3-8927.

CENTER FOR GLOBAL SECURITY RESEARCH

"Limited War & Nuclear Escalation in South Asia," by Lt. Gen. Vasantha Raghavan, Delhi Policy Group and visiting fellow at CISAC, Stanford. 2 p.m., Bldg. 132, room 1784 (open area). Contact: Tami Alberto, 2-5969.

Wednesday
27

AFRICAN AMERICAN LECTURE SERIES

"Development of a Chemical Deactivation Treatment Process for Depleted Uranium Metal," by

Dianne Gates-Anderson, LLNL. 10 a.m., Bldg. 361 auditorium (uncleared area). Contacts: Tuijauna Mitchell-Hall, 4-4469; Nora Briant, 2-6414; or Winifred Burks-Houck, 2-6365.

MRI SUMMER INSTITUTE ON COMPUTATIONAL SCIENCES

"Styles in Computational Physics," by Malvin Kalos. 10 a.m., Bldg. 661, room 7. Contacts: Vasily Bulatov, 3-0124, or Miriam Rinnert, 2-7369.

Thursday
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GLENN T. SEABORG INSTITUTE

"Radionuclide Transport at the Field Scale: Implications, Approach and Experiments" by Dave Smith, LLNL. 10 a.m., Bldg. 151, room 1101. Contact: Joanne Maxwell, 4-4344.

Friday
29

NAI

"MATLAB-Based DSP Compiler for FPGAs," by Sabine Lam, Xilinx. 1 p.m., Bldg 132S, room 1781. Contact Hsueh-Yuan Pao, 4-9744.

Monday
2

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Dynamic Meshes, Dynamic Interfaces and Hemodynamics," by Omar Ghattas, Carnegie Mellon

University. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Carol Woodward, 4-6013, or Leslie Bills, 3-8927.

Friday
6

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"A Scalable Hierarchical Algorithm for Unsupervised Clustering," by Daniel Boley,

University of Minnesota. 2 p.m., Bldg. 451, room 1025 (uncleared area). Contacts: David Littau, 3-2597, or Leslie Bills, 3-8927.

Wednesday
11

CENTER FOR APPLIED SCIENTIFIC COMPUTING

"Computer Simulation of the Heart," by Charles Peskin,

Courant Institute of Mathematical Sciences, New York University. 3:45 p.m. Bldg. 543 auditorium (uncleared area). Please note change of location; all visitors must be badged.) Contacts: David Keyes, 2-1325, or Terry Garrigan, 3-6209.

Monday
16

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Parallel and Robust Multigrid Techniques on Structured Grids," by Ignacio Llorente,

Universidad Complutense, Madrid. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: David Keyes, 2-1325, or Leslie Bills, 3-8927.

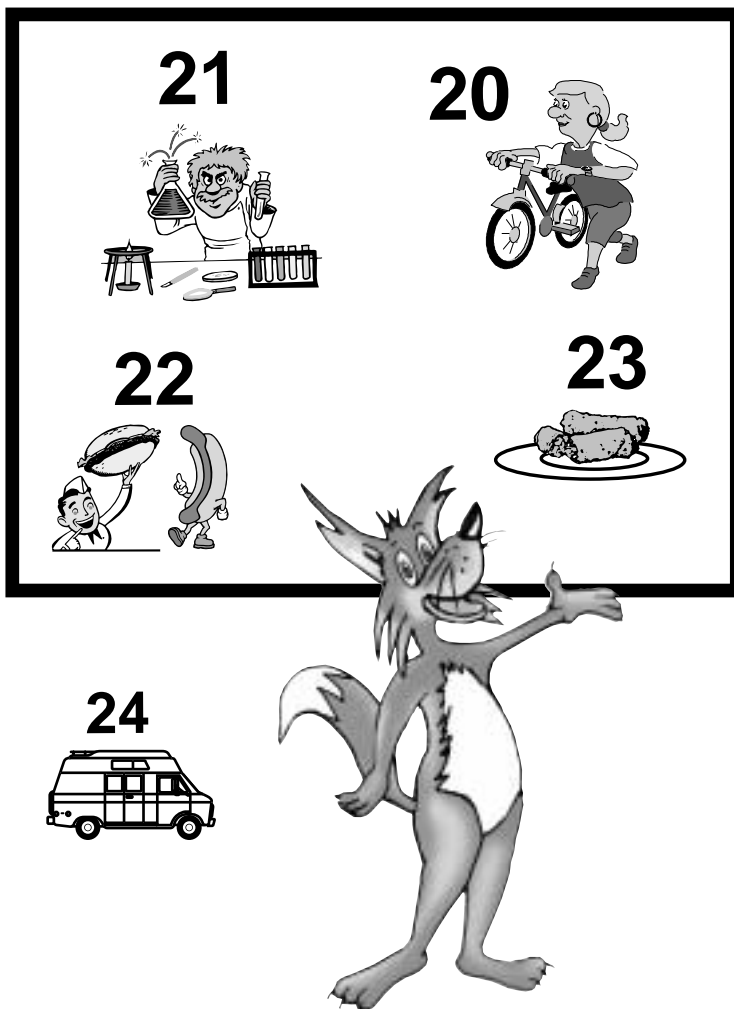
The deadline for the next Technical Meeting Calendar is noon, Wednesday, June 27.

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

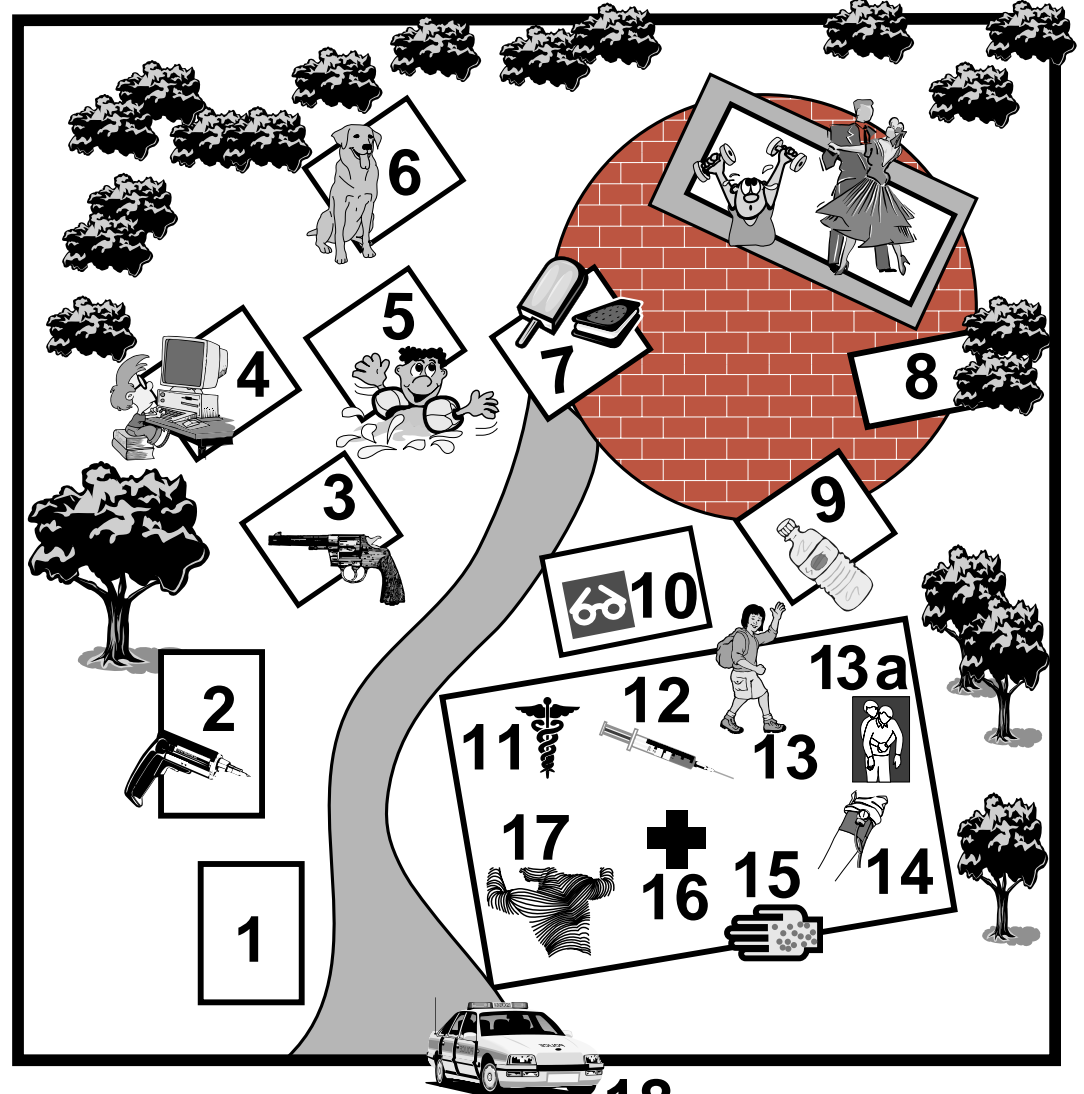
A guide to the Family Safety and Health Fair

Wednesday, June 27
11 a.m. – 1:30 p.m.
Lab picnic area

Exhibits on lawn in front of LLESA store.



Exhibits in picnic area behind LLESA store.



Fire Department and CHP exhibits are located on parking lot surface near store.



1. Giveaway table

Stop by to pick up a bag to carry your safety fair handouts, safety tips of all sorts, palm exercise balls and other goodies.

2. Power tool safety

Orchard Supply Hardware is providing the power tools and Plant Engineering the talent (Paul Dinis, Joe King and Steve Werbowski) in this demonstration of tool safety. If you work around the house or make woodcrafts as a hobby, make this a must visit. Drawings will be held for crafts created during the demonstrations.

3. Firearms safety

If you have firearms in your home, make it a point to visit this booth for tips on their safe handling and storage. As part of this booth, Johnson Controls has arranged for trigger locks to be available in drawings for fairgoers.

4. Computer ergonomics for your family

LLNL's Ergonomics Committee hosts a display for families, showing how to use computers (including laptops) correctly. Information also will be available on correct vision when working at a computer and how to help prevent computer-related problems for younger children and young adults. Ergonomically designed tables and chairs will be displayed.

5. Water safety

Discover that playing it safe around water won't cramp your fun. Pick up tips on water safety — from swimming to boating — at this booth operated by Johnson Controls.

6. Safety around dogs

Humane Society representatives will explain how to prepare the family pet for a new baby and how to keep the baby/toddler safe from the family pet. The "stars" of the Humane Society booth will be 3-4 thoroughly lovable, safe dogs (members of the society's pet therapy and education teams) for friendly interaction. The society will also provide material on pet training and behavior. Handouts available for children and families will include "Bite Prevention" information. There will be puppets and coloring books for children on respecting and being nice to pets, pet stickers and little pet-related toy giveaways.

7. Ice cream cart

Get your free ice cream.

8. Staying active

A body pump demonstration at 12:30 p.m. and dancing exhibitions will introduce you to the programs LLESA offers employees to stay in shape.

9. Aqua Prima water

Water is life. Pick up your free bottled water to quench your thirst while visiting fair exhibits.

10. Safety glasses

The Lab's ES&H manual says that workers who regularly use safety glasses should have a pair of specially fitted prescription or plano glasses issued by the LLNL Hazards Control Safety Glasses. Stop by this booth to learn more about the Lab's safety glass program.

11. Skin, prostate and breast cancer awareness

Representatives of Kaiser Permanente will share health tips on skin, prostate and breast cancer. The Kaiser booth will offer skin cancer brochures in conjunction with its Healthphone for members and nonmembers, prostate and breast cancer checkup cards, and sunscreen packets.

12. Beware! Drug hazards

Officer Glenn Carroll will answer questions about the dangers of addiction to controlled substances at a booth displaying drug paraphernalia. Handouts will be

available. Glenn is the controlled substance recognition officer for the Lab's Protective Force Division.

13. Safety when camping, hiking

Kay Tracy will discuss and demonstrate health and safety techniques to protect you and your family while camping or on hiking trails. She will also demonstrate child rescue breathing and use training mannequins to show proper procedures. Kay is an experienced outdoorswoman, Red Cross instructor and a member of a Hazards Control ES&H team.

13a Learn to help a choking victim

Loretta Cochrane of Hazards Control will provide instruction on what to do when someone is choking. Learn the steps to take in a choking emergency, including how to do abdominal thrusts (the Heimlich maneuver).

14. Health evaluations

Get your blood pressure and cholesterol checked. Find out your BMI (body mass index). Health evaluations courtesy of Health Services.

15. Everyday health — sun and germs

HealthNet will offer Sunscanner and Glogerm Box displays. Sunscanner is an interactive display that uses special light to help you visualize the damaging effects of the sun on skin. The Glogerm Box demonstrates the transfer of germs using unique light-sensitive powder and lotion. Participants will be able to view areas where germs accumulate on the hands. HealthNet will provide educational materials related to its displays and sunscreen packet giveaways to promote skin cancer prevention.

16. Blood drives save lives

The American Red Cross will provide information on its blood drives and its bone marrow registry.

17. Massage therapy

Get a free massage as you discover how relaxation helps to prevent work stress.

18. Safety on the highways

The California Highway Patrol wants you to be safe on the highways this summer. "drinking simulator goggles" let you experience how alcohol can hinder your driving ability. Information will be provided on car seats and other restraint systems.

19. Be fire safety wise

Lab Fire Capt. Jim Watkins will show you how to prevent fire tragedies at home. He'll have a home fire safety checklist for fairgoers and handouts on developing escape plans and tips on use of smoke detectors. Also on display will be the newest additions to the Lab's fleet of fire vehicles — a 2001 American LaFrance fire engine and a 2001 aerial ladder truck.

20. Is your bike safe?

Get a free bicycle safety check courtesy of the Cycletrons.

21. (Safe) Fun with Science

This popular event lets kids discover that science can be both fun and safe.

22. BBQ lunch

Dine on a BBQ lunch prepared by members of the Environmental Protection Department's safety team. Lunches cost \$5.

23. Egg rolls for sale

The heading says it all. Stop by this table to purchase your safety fair egg rolls.

24. Taxi stand

Transportation to and from the fair is easy. The Lab taxi service will have additional vehicles available during the hours of the fair to transport employees from their offices to the fair site and back.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1997 - Ford Explorer 5sp. stick shift, 4w/d, xint. condition, 78000 mi. \$18000 obo. 925-447-4224

1998 - Infinity QX-4 3.3L, V-6, 4X4, 31.2Kmi., black w/tan leather, very clean, Bose stereo, CD changer, s-roof, AC, CC, PW, PL, PS, more. \$26,500 925-449-3855

2001 - VW Jetta GLS - Less than 2,500 miles - Moving, Make offer! 925-371-8111 or 209-478-1381

New 16 inch polished steel rims. 5.5/6 lug pattern. Misorder. Must See. Great for a truck or SUV. \$250 OBO 925-443-7405

1994 - Suzuki Swift 4-door sedan, 5-speed, 37+ MPG, great commute car, new tags, AC, very good condition. \$2,800/OBO. 209-522-7872

1997 - Geo Metro, 5 spd., hatchback, 60K miles, bike racks, new tires, excel. cond., 49MPG, \$4250 925-606-0828

1988 - Mercedes-Benz 560 SEL. 4 door Luxury sedan. Fully loaded. Beautiful black exterior. Excellent condition. \$13,000 OBO 925-989-8931

1993 - BMW 325i, 5 speed, 89K miles. Excellent condition. Complete service record. \$12,000. 925-443-1969

1999 - NISSAN Sentra GXE-Bought new in 2000, color Gold/Silver, AC AM/FM-CD/power all, keyless entry, chrome wheels. 23K miles asking \$12,500 OBO. 510-799-4943

1974 - Datsun 260Z, early model, New suspension, new tires, needs restoration. \$1500 firm 925-449-9294

2001 - RAM truck, white, new, less than 5K miles. Regular cab, regular bed. AM/FM cassette. \$16,200 O.B.O. 924-684-0709

1999 - Ford Windstar LX, 6cyl, auto, A/C. Like new condition. 39250 miles. \$16950. 925-443-3511

1965 - 1965 red Ford Mustang Convertible. Electric top, original top/interior/wheels. All stock \$12,000 OBO. 209-835-7785

1998 - Volvo S70 Turbo, Excel cond., dual climate control, leather and wood, moon roof, automatic, CD. New brakes. 53,000 miles. \$22,950 obo. 925-736-5087

1999 - Acura 2.3 CL. Like new. Only 15,500 miles. Automatic, CD, AC, power, moon roof, leather and wood. Champagne with tan interior. \$19,950 obo 925-736-5087

1999 - TOYOTA CAMRY LE, like new, 19,312 miles, \$14,400 OBO 925-443-9179

1997 - Ford Expedition, 4WD, 3rd seat, rear air, running boards, new tires/brakes, 89,000 miles, white, very good condition, \$16,900. 209-823-4214

1991 - 1991 Toyota Camry (black color) good condition ; 210k highway miles; new brakes and alternator. \$2800/offer. call evenings 925-828-6568

1991 - Honda Accord EX Wagon, AM/FM Cass, Sun Roof, New timing Belt, water pump and battery. Smogged 6/01 1 owner 171K mi. \$5500 925-447-4406

1990 - Acura 5 sp. 200k miles new tires, brakes, well maintained needs a windshield. Have most paperwork, desperate. Make offer 209-835-7724

1991 - Mazda Protege DX 4-door, 58K miles, AC, cassette, cruise. \$3600/obo. 925-443-5646

1986 - Mustang with black landau top (orig owner), cruise control, 4-speed stick, 68K miles, in good condition with good tires, \$2,250 or best offer. 209-239-9443

1999 - Mercedes ML320 burg/grey lthr, 42K, air, PW, PL, heated seats, moon roof, Bose stereo, running boards, cell phn, fog lgts, 50K wnty \$28,900 OBO 925-828-2927

1994 - Pontiac Grand AM 2dr, V6/auto, A/C, 114K miles, new tires, No rust or dents, Good Cond. \$5,300 OBO 925-931-1467

1963 - Avanti R-1. Auto PS/PB/PW/AC. Runs Good, needs some TLC. \$7500. 925-447-0596

1994 - Isuzu Rodeo, \$6,900/OBO. 5 speed, A/C, PS, Power Windows, Locks, Cruise Control, AM/FM Cassette, Security System, 96k highway miles. Good condition. 925-449-5723

1997 - BMW Z3, 4 cylinder, 5 speed, Blue w/tan top and leather interior. 55,000 miles, great condition, great MPG, fun commute car. \$23,000 925-679-9307

1995 - Mercury Sable, power steering, power windows, power locks, lumbar support, AC, tilt, automatic, AM/FM cassette, very clean, runs great. \$4950. 925-449-9005

1996 - Toyota Avalon XLS. Fully loaded, leather, 12 disk CD, pwr moon roof, remote entry + alarm, 65K, excellent condition, \$16,300. Tikisa, 408-743-7010. 510-471-6303

1990 - Chev PU LB. V8 5.7. 4 Speed. 4 WD. 205, K. New AC. Power Steering. Tilt Wheel. AM/FM/Cassette. Bed Liner. ToolBox. Shell. New M & S tires. \$8,100.00 925-443-9003

1990 - Honda Prelude 2.0 Si, red, 139K miles, 5-sp, sunroof, CD Player, very good condition. \$3900. 925-283-8706

AUTOMOBILE ACCESSORIES

MTX 3 way box speakers for trucks, 10 inch woofers, work great \$50.00 209-836-3041

Torque wrench (unused), grease gun, tune-up dwell meter, induction timing light. Make offer 925-736-7799

Portable car garage (tent). Like new. Paid \$150 two months ago, sell for \$75. Must pick up. 408-768-5070

15x7 MAG wheels, four bolt, fit Mustang, etc only \$60 for all 4. Also Truck tire (1) 235/75/R15 very good \$18 925-447-7070

Car cover for a 1993 Mercedes 190. Top of the line. Perfect condition \$100.00 925-447-6942

1985 Chevy PU Wheels, factory original steel, and wheel trim parts. 15 x 8.5 x 5 hole. 4 wheels, \$10 each. 209-835-8008

New tire on rim 205X75X15, 2 mud/snow 13 in. 925-735-6002

VW Bug Parts-two transmissions \$75. each, king pin front end \$75., tow bar for type 1 bug \$25. 925-846-2843

Thule car rack components - like new - half price. Aero foot pack (#400) \$57.50, Aero bracket kit \$22.50, 4 keyed alike locks \$18.50 925-447-8753

Car tire ramps, 2 single, \$10, metal. Box of misc car fluids (FREE). 925-456-7826

BICYCLES

3 Wheel adult bike with basket, Good condition, \$100.00 925-455-6261

BOATS

1996 Glastron GS 185 18ft V6 195hp. 170 hours Excellent Condition \$9650. Hydro-Hoist 3000lb capacity \$2100 209-835-4099

4 horsepower boat motor \$100.00 209-234-1366

ELECTRONIC EQUIPMENT

27in Color RCA XL-100 television, remote and cable ready \$35 925-449-1481

JVC turntable, receiver and equalizer. Asking 40.00. Will take offer. 510-537-7222

Viper II 32 meg video card & monster sound MX 400 sound card \$100.00 for both 209-836-3041

52 inch projection T.V. \$250.00 Pg. 02734 209-982-5866

Motorola StarTAC ST-7868i tri-mode wireless phone. Verizons best. Perfect cond, leather cover, chargers. \$219 new. Leaving area sacrifice \$75. 925-455-8423

GIVEAWAY

Moving, misc lumber pieces, wood, formica sheets, odds and ends for take away. 925-736-7799

Three bales of straw hay. You pick up. 925-447-3618

Free-100 gal fishtank like store lobster tank. size 5ft x 29in x 43in high. Uhaul 925-828-3295

Concrete filler. Removing patio. Can deliver. 209-832-0988

HOUSEHOLD

Recliner chair, brown naugheyde, \$40.00 925-455-6261

King size brass plated headboard - excellent condition - \$50. 209-835-7995

Queen Anne sofa, circa 1890-1900. Clean and in good condition. Asking \$850/obo. 510-769-0887

Sears vacuum cleaner 2 years old. Whisper 300 \$195.00, 15 cu ft. refrigerator, 2 years old energy efficient \$299 925-449-1823

Fridge freezer, side by side, white \$200.00. Maytag washer & dryer, 5 yrs \$250.00 925-371-5371

Modern walnut office desk (\$120), Sony 17in TV (\$85), leather hi-back recliner with footstool (\$100 or offer) 925-736-7799

Beautiful LA-Z-BOY reclining sofa & matching loveseat. Blue/mauve/tan pattern, fabric protection, 5 yrs old, like new. Paid \$1,975, asking \$975. 925-846-3653

Jandy Ray Vac automatic pool sweeper, good condition w manual, \$250, 925-846-3660

Student desk made by Broyhill Fontana is the style name w/Hutch & Padded Chair. I have 2 sets of each to sell. \$400 ea. 925-462-4927

Local artist Norma Webb framed landscape painting, approx. 32x44 \$175 925-447-8613

Washer and dryer combo, Lady Kenmore, \$100 for both. GE Washer \$75, GE built-in Dishwasher \$50. All work fine. Make an offer! Call after 6pm. 925-447-2359

Dryer - Whirlpool, heavy duty, super capacity, ivory, electric. Excellent condition, \$175/OBO. 925-373-0314 456-7826

Swivel-rocker with foot stool. Well taken care of - material is clean. Asking just \$35.00. May take offer. 510-582-2938

Computer work area. Designed for a corner of the room. Four shelves, keybd tray, modern style. \$50 OBO (was \$200 new). 925-447-8557

Refrigerator, almond color, runs great \$125. Oak Entertainment center, excellent condition \$250. Twin bed \$100 925-447-2644

Entertainment Center, Oak, 82 inches long X 74 inches high. Holds up to 30 inch TV in middle. Beveled

glass doors, paid \$2500, asking \$1300. 925-454-8571

Dining room table & 6 chairs. Oak veneer. 2 leaves. \$150. 925-606-6599

Double bed \$75; Dresser with mirror \$25. Beige Leather Sofa (Excellent Cond) \$475. Night Stand \$30 Call Eves 925-828-6568

PINE- small roll top desk, Honey Maple finish Very good condition, Great in a Child's room or Kitchen \$100.00 or Best Offer 925-443-1571

Day Bed. White Mickey Mouse design with trundle. Like new. \$250.00 209-832-0988

CARDBOARD BOXES, sturdy moving/storage: Big and Bigger: 40 for \$50, Knocked down, ready to go! Pleasanton 925-548-4280

LOST & FOUND

Lost a pair of prescription eyeglasses in a black case. Probably left in a LLNL bike basket. Thank you for your help. 925-292-9378

Lost 6/11/01 silver bracelet in or near T5475. Was a gift and is very important to me. Please contact 2-0001 if found. 209-239-4322

FOUND - A pair of eye glasses. Wire rimmed with brown plastic. Found around B439 on a shipping pallet. 925-447-3095

Lost earring, gold flower with perl. Could be in street, on sidewalk or near B132. Call x2-8942. 925-462-8811

MISCELLANEOUS

1950s art deco vibrating lounge chair, contour adjustable, \$95. 925-447-0428

Art Deco love seat (1930s) with original upholstery. Back of piece somewhat damaged by cats. Asking \$200/obo. 510-769-0887

Very nice chest 48 inches high 5 drawer \$200. 925-449-1823

Gas grill - includes cart with fold-down side shelves and propane tank \$50. Covered sandbox \$15. Little Tykes Pool car \$10. 925-454-0877

Lego sets for kids, many pieces and board \$45, Motorola Mobile (analog) phone + charger, still available \$25 925-736-7799

KFRC Oldies Party at Concords, Hermans Hermits and The Turtles etc. 7/21/01 4 seats (sec 105 row U seats 15 to 18) \$46.00 each. 209-833-1838

Sky Fort Plus Jungle Gym, Redwood construction, Large circular tube slide, Sunscreen roof, Rope swing, pull-up bar, 5x5x10 foot tall, \$150. obo. 925-443-3970

Twin mattresses & box springs w/frames + mattress covers. Excellent condition. 2 Sets of each to sell. \$200 ea. 925-462-4927

Blood pressure monitor, one step auto inflation, like new \$50, Samsonite 24 inch hardside suitcase (wineberry) \$35 925-447-8613

3000 lb hydrohoist 2 years old \$2700. Full dock also at Lake Berryessa \$800 925-606-0480

Solanum Rantonnetii (Blue Potato Bush) 1 gal pots \$2 ea. 925-447-6192

5 - As vs Rangers tickets. Sunday, June 24th. Section 106, Row 28, Seats 16-20. Half price at \$9.50 ea. ext. 2-8087 209-578-4021

Brand new breadmaker. Used three times. Asking 20.00. OBO. 510-582-2938

SW Airline Cash Vouchers, must travel by 9/19/01. Value \$ 236 will sell for \$156 925-776-5612

Folry Belsaw 508 sharps all, and 308 chainsaw sharpener. Sharpsall mounted on factory stand. \$425.00 for both 209-836-0631

Countertop microwave. 1500 Watt. Black. All accessories and manual. \$200. 925-606-6599

Classic Pool crib bedding set with diaper stacker, mobile, wall hanging, and extra quilt. \$100.00 209-832-0988

MOTORCYCLES

1999 - Harley Davidson 883 Sportster Hugger. Dark Purple. Immaculate condition. Extras. Only 1500 miles. \$6600 OBO. 925-443-4639

1993 - Honda dirt bike for sale. 1993 XR80. Good Condition \$1375 OBO. 925-606-0309

1994 - Suzuki FA50; \$600 925-833-6061

1986 - 2 - HONDA 250 Rebels. Limited black/gold trim, 6K miles; Blue, 2K miles. Both in excellent condition. \$2000 each or \$3000 for both. 925-449-0473

MUSIC INSTRUMENTS

Wurlitzer upright piano for sale. In good condition and recently tuned. Appraised for \$1400. Selling for \$800. 925-443-3399

Yamaha Electronic Keyboard. Like new. Stand & adapter included. Great starter for budding musicians. Asking \$75. 925-447-7585

Guitars - Fender stratocaster, sunburst paint \$325. Samick acoustic w/hard case \$150. Both excellent condition. Perfect for learning guitarists. 925-736-0960

PETS & SUPPLIES

Lab-mix puppies. Excellent with children. 9 weeks old. 2 yellows, one black left. Mother hunts and retrieves well. \$20.00 209-234-2071

Puppies for sale: English Pointers, 12 weeks old, champion lines. \$200 each. 209-823-5141

FREE Puppies. 1/2 GMN Shorthair, 1/2 Border collie ready to go! 925-449-2080

2 parakeets 4 months old, female and male, big cage \$90.00 or best offer. 606-7574 925-606-7574

Cats need a home! Two cats, male & fem. both fixed, declawed, love people and need a loving home ASAP. 209-830-7223

Chinese Ringneck Pheasants for sale. Both mature birds and chicks available. 925-373-4432

RECREATION EQUIPMENT

Aerobic Rider exercise machine in excellent condition. \$50/bo. 925-443-0126

West Bend TOTAL GYM exercise system - 32 weight and strength exercises. Excellent condition, \$50 925-462-5202

Golf clubs wanted, mens left hand, starter set plus others. 925-600-0082

Nordic Track Challenger, heart/pulse monitor and operating manual. Outstanding condition. Price \$100.00. 209-529-1809

Complete diving outfit. Used 2 times. Suit, Regulators, gages, Bcd, boots, gloves, weights & more. \$800.00 all 209-836-0631

1981 Dodge Motorhome, 50k miles, AT, PB, PS, new tires, Refrigerator, Furnace with control, roof air conditioner. \$6,800/obo 408-499-3312

Campaign continues with survivors panel, treatment

The Cancer Awareness Campaign continues today with a cancer survivors panel featuring six Lab employees who have beaten cancer. They will talk from 12:30 – 2 p.m. in Bldg. 543.

The panelists are: Chantel Aracne-Ruddle, Katie Crooks, Robin Ford, Richard Fortner, Kathleen Martinez and Richard Van Konynenburg.

Next week the campaign will feature a talk by Livermore pharmacist Donald Hill on "Drugs, Diet and Alternative Medicines to Help Treat Cancer," on Thursday, June 28, at noon in Bldg. 361.

Hill, who has been a pharmacist in Livermore for 30 years, will offer a wealth of information about medicine and its effects on the body.

In conjunction with the campaign, members of the Lab's quilt group, Piecemakers, are putting together a quilt to honor cancer survivors and victims. This quilt will commemorate LLNL employees, their families and friends.

If you, a family member, or a friend are a cancer survivor or have a family member or friend who has died due to cancer and you would like to honor them or yourself with a quilt patch, contact the quilt projects coordinator, Penny Pennington, 2-1787, pennington2@LLNL.gov.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Requisition	Classification	Title	Organization
CH	2372	105.2	Administrator	Chemistry & Materials Science
NA	2385	105.3	Senior administrator	NAI
AD	2287	105.4	Principal administrator	Administration Directorate
AD	2379	124.1/124.2	Public information officer	Public Affairs Office
AD	2318	124.2	Public information officer	Public Affairs Office
NA	2275	196	Executive staff member	NAI
NA	2268	200	Scientist	NAI
NA	2342	200	Deputy program leader	NAI
NF	2426	200	Deputy chief technical officer	NAI
PT	2316	200	Deputy program leader	Physics & Advanced Technologies
PT	2330	200	Deputy director	Physics & Advanced Technologies
NF	2226	270	Experimental physicist	National Ignition Facility Programs
PT	2374	270	Physicist	Physics & Advanced Technologies
CO	2382	285	Computer scientist	Scientific Computing & Communications
CO	2389	285	Computer scientist	Computer Applications Organization
EE	2346	324.1	Programming associate	Electronics Engineering
ME	1681	539.1	Scientific assistant	Mechanical Engineering
PE	2356	805.2	Laborer II	Plant Engineering

More information on these job postings as well as those at other UC sites and outside organizations is available through the World Wide Web. Go to the Lab's internal home page, click on "Services," then click on "Career Center." Once there, scroll down to "Information and Resources," where links to internal and external postings can be found.

See complete classified ad listings at <https://www-ais.llnl.gov/newsline/ads/>

CLASSIFIED ADS



RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

Manteca - Need 4th person. Ride/drive alternate daily. Leave Manteca 6:30 AM, Leave LLNL 4:00 PM. 209-823-5593, ext. 3-8539

San Mateo - Riders wanted for new vanpool starting July 1. Cost will depend on number of riders. 650-347-7843, ext. 3-9161

Modesto - Space available on 14 passenger luxury vanpool, 8-4:30 schedule, \$115/month. 209-521-9047, ext. 2-5177

Modesto - Working 4-10 hour days and need a vanpool. We drive 5 days/wk and work 6am-4:30pm 209-667-2365, ext. 2-8321

Antioch, Oakley, Brentwood, Byron - Wanted 1 person who would like to carpool, 4/10s with Mondays off 925-625-0513, ext. 3-5721

San Francisco - Looking for people to rideshare/carpool from SF once or twice a week 415-861-8911, ext. 3-6835

Modesto - Vanpool needs 1 rider. Leaves from CrossRoads Mall (Carpenter and Kansas) at 6:40 am. Leave Lab 4:45. Cost \$120/month. 209-576-0217, ext. 2-7459

SERVICES

Exterior House-Painting - Quality work w/over 15 yrs experience, free estimates. 925-447-5132

Sprinkler Repair & Tree Stump Removal FREE Estimates 925-443-6010

SHARED HOUSING

Livermore - room for rent, available furnishings, has all amenities and privileges, share with grads types, \$450 + 1/3 util, N/S 925-449-3165

Livermore - 1 mile to LLNL, Share

3 bd/2 bath home with one person. Bedroom, private bath, own living area, wash/dry, no pets/smoking. \$775 mo and 1/2 utils. 925-373-1166

TO TRADE

Stairs (wood) designed for above ground swimming pool. 4 high, 3 wide, hand rails. Make offer. 925-447-8557

TRUCKS & TRAILERS

1968 - Travel trailer, 19 ft. sleeps about five, new tires, good awning, great trailer for hunting or fishing, \$1200 obo. 209-832-7655

2001 - Dirtbike Trailer. Used Once. \$350 obo 209-608-2670

1998 - Ram 1500 Quad Cab Sport, 5.9l, bench seats, light blue, excellent shape, lots of extras, \$18,000 925-240-6237

1993 - F-150/XLT 4x4, 5.8 lit, 69K, A/C, P/S, Crz/Cntl, Tow / Pkg, Alnm/whls, Great Condition, \$10,875 or B/O. 925-447-8167

1993 - Ford Ranger Excellent condition V6, 5-Sp, P/B, P/S, A/C, CC, AM/FM/CASS, Alarm system, Custom wheels, campershell \$6000.00 209-962-5468

1989 - Winnebago Warrior. Real clean. Everything works & runs great. Just smoged at 34k miles. \$16.9k OBO 209-836-5918

1985 - Chevy Van G10, V6, 110,000 mi, runs good, two new tires, shelving in back, good work van, \$2000 obo, Kelly BB \$2900 925-443-7817

1985 - Truck, Ford 150 4X4 Explorer with camper shell. Needs Engin and paint. \$500. Straight body. 925-447-4941

1993 - GMC 4X4 2 dr Yukon (SUV), SLE Org Owner, Loaded, Excellent cond. Off road pkg. Tow Pkg. Must see. \$13,000.00 Below kbb 209-836-3041

STARCRAFT tent trailer, mint condition, stove, sleeps 8, \$2000/BO 925-447-2893

1995 - Nissan Pickup XE King Cab, 5 speed, air, am/fm stereo, power

mirrows, camper shell, liner, and more, one owner, 52k miles, \$7900 like new 209-858-5807

VACATION RENTALS

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities, Homeowners park w/Lake, tennis etc., Great for Families, Reserve Now for Summer! July 4th open!! 209-599-4644

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

Twain Harte - Fully furnished. 2bdr 2full bath. Cable TV, VCR, Washer, dryer, microwave, dishwasher and more. Close to Pinecrest Lake. \$150/wknd \$300/wk. 925-443-2808

Eagle Lake Great trout fishing and family fun. / 530-825-2131 inquire about Brazil 209-543-1845

Capitola - 3 bedroom house near beach, completely furnished. Week of July 29 to Aug. 4 \$700. 925-447-3611

Soda Springs/Donner Summit, Classic A frame, 2BR/1BA+Loft, sleeps 8, conv to biking, hiking, everything. \$250 wknd call for availability 209-422-0649

WANTED

Looking for 1000 Trails membership. Please call if interested in sale. 916-726-1202

Celestron telescope eye piece: Erect image diagonal #94112A. 925-373-0314

Golf clubs, mens left hand, starter set plus others. 925-600-0082

tickets (2) wanted for GIANTS vs. DODGERS Monday June 25th. 925-600-7328

WANTED: Old stereo equipment and old speakers working or not,

stereo consoles etc. 925-443-2954

Wanted Red Bricks for a small backyard project. I need about 100 bricks, and I will load & pick them up. 925-743-3722

Cage wanted to house one rabbit. Call 209-892-5885

Microwave and computer (PC or MAC) in working condition donate to boys facility Stockton (OH CLOSE Juvenile Hall for boys). Call evenings. 209-832-7112

Wanted- Person TO HELP with yardwork, painting, auto repair, odd jobs, weekends or evenings Livermore or Pleasanton 925-447-7070

Help Wanted - Starting in August. Driver needed to help disabled dad with errands in Livermore. \$12.00 an hour to start. 925-449-4568

Teenage babysitter for 7-year-old for occasional summer evenings. Prefer east side of Livermore. References required. Top pay. 925-455-1547

LHS Graduating Class of 1971 for 30-year Class Reunion 8/18/01. 925-455-6239

Want to buy good condition nylon string acoustic guitar with case. 925-449-1838

Generator, 2000-3000 watt 510-601-9244

Dependable car or truck. Please call if you have a vehicle for sale. 925-455-9342

Wanted 45 RPM records in good condition, mainly 50s and 60s. 925-454-9291

DISHWASHER Wanted. 18in.-wide small efficiency-sized built-in. Any brand will do. Prefer white door. Working or not. 408-261-1296

Wanted 70cc dirt bike for 10 year old 925-449-1340

Housing for visiting scientist, family (husband and 8 year old daughter) June 25-July 25. Looking for low-cost sublet or house sitting situation. 510-538-1889

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, Newsline cannot run ads that are submitted in all capital letters. "Personals" ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>

Employees are responsible for ensuring the content of their ad is accurate.



THE BACK PAGE



JULIE KORHUMMEL/NEWSLINE

Lab hosts three-day workshop on foreign visits, assignments

This week, the Laboratory hosted a three-day Foreign Visits & Assignments/Foreign Travel (FV&A/FT) Workshop. DOE headquarters facilitated the workshop for 100 people who are specifically involved with foreign interaction policy development throughout the complex. Michael Waguespack, Director of the Office of Counterintelligence, gave the keynote address. The workshop provided the participants an opportunity to interact with DOE policy officials with a specific focus on striking a better balance between quality science and security.

Don Carlson (far left), who manages LLNL's FV&A/FT Office within Safeguards & Security, receives an award plaque from Marshall Combs, headquarters FV&A Director. Don, who will be retiring on August 3, has worked closely with DOE Headquarters for several years to strengthen communications and work processes.

STUDENT

Continued from page 3

is on the executive committee to the National Consortium of Graduate Minority Degrees in Engineering, more commonly known as GEM. Trujillo received her Ph.D. in educational psychology from the University of Wisconsin in 1984.

Wootton is a senior scientist in the Lab's Physics and Advanced Technologies Directorate. He has worked on the National Ignition Facility program, and is the chairman of the Lawrence Livermore Fellowship program for post-doctoral employees. Wootton received his Ph.D. from London University in 1973.

Knezovich has been the director of the Center for Accelerator Mass Spectrometry (CAMS) since May of 1998. CAMS is one of five institutes under the University Relations Program that encourages and

expands on research collaborations between the Lab and universities, other research organizations, and industry. Knezovich was previously a group leader for Environmental Chemistry and Toxicology in the Health and Ecological Assessment Division. After working at the Lab as a student, he earned his Ph.D. in chemical ecology from U.C. Davis in 1983, when he returned to the Lab as a postdoctoral scientist.

This panel will be informative for several reasons, Goldman believes.

"Not only are each of these individuals involved in myriad graduate programs or fellowships, but they also have a scientific expertise they can discuss with students," he said. "There are several different fellowships that the Lab either supports or draws from, and they are well represented for students in this panel."

Many of the fellowships discussed by panel members will also have displays adjacent to the auditorium for students to gather more information.

The second panel will take place on July 11. Entitled "Young Researchers — New Careers, New Challenges," it will focus on research challenges faced by the next generation of researchers. The third summer panel is scheduled for July 27, and will explore the realm of "Science Policy, Funding, and Ethics" with students and employees.

STEP director Don Correll points out that "this summer's theme of "School-to-Career" is increasingly important to science and technology students given today's multitude of opportunities and decisions that need to be considered at each level of their schooling, whether it be undergraduate, graduate, or post-graduate."

Students and Lab employees can learn more about each of the three panels on the Student Bulletin Board at <http://education.llnl.gov/sbb>. Events are listed under "Scheduled Events." Registration is not required but is requested for planning purposes.

NATURE

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in myriad uses, from potential laboratory growth of human and animal bones to industrial scale formation in pipes to the manufacture of toothpaste — any situation in which calcium-based crystals grow naturally or are utilized.

Orme explains that calcite, the material in eggshells and seashells, is the perfect model system for studying "biomineralization," the organic growth of crystalline structures.

"Pure calcite grows only in a symmetrical, six-sided pyramid-shaped crystal," said Orme. "We've wondered how nature controls the growth of the same substance into the intricate shapes found in shells and sea urchin spines. Now, by binding it with the amino acid aspartate, which is a common amino acid found in the protein of shellfish, we've been able to skew the growth to form asymmetric crystals, which are mirror-images of one another depending on whether we use right or left-handed amino acids."

The results were seen quite clearly through the Lab's atomic-level microscopes, in which the team could measure the atomic-step speed and other variables in crystal growth. Surface spectroscopy and mol-

ecular modeling confirmed the visual results.

"The exciting outcome," said Orme, "is creating a picture of how these shape changes, on the molecular scale, guide the growth of a crystal into its ultimate form."

Furthermore, Orme reported the geophysical community has responded with great enthusiasm, citing the study results as a means of differentiating between carbonate crystals of biological and non-biological origin, based on the presence or absence of the aspartate.

Also, this discovery may prove a "geochronological tool" to date fossils, since aspartate molecules in living biological crystals tend to be of the L form (left-facing molecule), but upon death begin to change to combinations of L and D (right-facing molecules) forms.

The term "chiral" in the title refers to mirror-image molecules, otherwise identical in structure, therefore "left" or "right" facing as compared to each other.

Finally, Orme said, the results reflect on the origin of life itself. "They support the hypothesis that mineral surfaces (such as calcite) were responsible for the emergence of a single chiral form of the amino acids found in living organisms."

The team is now moving on to research involving calcium phosphate, the material used by animals to grow bones. If ever bones are to be grown in the laboratory, these are the first steps in that process, said Orme.

Other team members participating in this research were Aleksandr Noy, Mary McBride and James de Yoreo of Chemistry and Materials Science; Andrzej Wierzbicki, University of South Alabama; Meg Grantham and Patricia Dove, Virginia Polytechnic Institute and Henry Teng, George Washington University.

For the complete article, see the June 14 issue of *Nature*, which has both the article as well as a News and Views summary of the research.



DDLs

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In 1994, Barish became the principal investigator of the LIGO project. He was named the Maxine and

Ronald Linde Professor of Physics in 1991. Barish is a fellow of the American Physical Society.

The lecture will be broadcast on Lab Channel 2 Thursday, July 5, at 10 a.m., noon, 2, 4, and 8 p.m., and Friday, July 6, at 4 a.m.

SURVEY

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the Lab's employees have completed this survey. If you are part of this group, thank you. If not, you still have time to obtain a booklet from your direc-

torate point of contact, complete it and mail it by close of business today.

If you would rather take the survey online, go to the Website at <https://www.isrsurveys.org/llnl>. Remember, you will need your password to get into the survey site. If you have lost your password, contact your directorate office.

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