

Tarter looks to the future

After serving for eight years and two months (including seven months in an acting capacity), today will be my last as Laboratory Director. It's a good time to sum up the major events of the past decade and assess the state of the Lab. I'll do this for four areas: programs, science and technology, administration and operations, and human resources.

Programmatically, there have been two major themes, along with one brief excursion and some involvement in a still embryonic field. By far the dominant change has been the transformation of the nuclear weapons program from a design,

FROM THE
DIRECTOR
BRUCE TARTER

test and build effort to one of stockpile stewardship. The Lab has major achievements in every aspect of stewardship: greatly enhanced surveillance of the stockpile, a successful life extension of the W87 warhead, extraordinary advances in the sci-

ence needed for stewardship without nuclear testing, the construction of major new capabilities with NIF and the ASCI machines, and the development of a methodology that provides a basis for evaluating both existing warheads and future modifications that may be

See **DIRECTOR**, page 6

'Business as unusual' starts Monday

By Lynda Seaver

NEWSLINE STAFF WRITER

Come Monday, it will be "business as unusual" for Bruce Tarter. After spending just over eight years as the eighth director of the Laboratory (seven of those months in an acting capacity), Tarter officially relinquishes his role to Director Designate Michael Anastasio.

Tarter will assume the role of associate director at large, taking on projects

assigned by Anastasio, devoting more time to a number of panels and commissions on which he serves, and embarking on an archive project that will eventually produce a book on the history of the Lab.

But Tarter jokes he's still debating the breadth and depth of the latter project. What he envisions could take as long as five years, with massive amounts of note taking that he makes no bones about wish-

See **TARTER**, page 7

MICHAEL ANTHONY/TID

Bruce Tarter has served eight years as director.

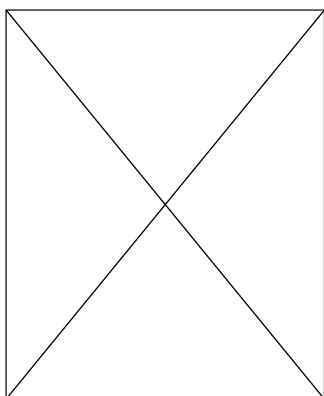
Wadsworth takes senior-level post at Battelle

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

Jeff Wadsworth, deputy director for Science & Technology and formerly AD of Chemistry & Materials Science, is resigning from the Laboratory, effective in August, to join Battelle Corp. as a senior executive.

In announcing his resignation, Wadsworth said he discussed his departure date with Director Designate Michael Anastasio to "allow for the transition of my current responsibilities in the most effective manner possible."



Jeff Wadsworth

After 10 years at the Lab, Wadsworth said he has decided "to pursue a new and exciting opportunity" offered by Battelle.

"I have a high regard for the people at Battelle. They have a broad range of interests in the Department of Energy including the national labs, the Department of Defense, and leading-edge capabilities in commercialization of technology. These areas map very well to my interests," Wadsworth

See **WADSWORTH**, page 9

Gordon leaving NNSA to join the White House as national security adviser

Gen. John Gordon, administrator of the National Nuclear Security Administration, is leaving the agency to join the White House as deputy assistant to the president, national director and deputy national security adviser for combating terrorism.

There was no word when the move would take place.

"I am honored that the president has selected me for this important position, but saddened that I must leave NNSA before the entire job is done," Gordon said in a memo to employees Thursday.

See **GORDON**, page 12

*Floating into
first place*

— Page 2

*1977: Magnetic
attraction to fusion*

— Page 3

*Celebrating
'Then & Now'*

— Pages 4,5

LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 11

Friday
28

Eurest Dining Services invites employees to attend today's "**Fabulous Friday BBQ**" at the South Cafe. The barbecue will be featured every Friday, except

July 5. The menu features a choice of grilled tri-tips, barbecued chicken quarters, hamburgers or quarter-pounder hot dogs. Each choice is accompanied with coleslaw, potato salad or macaroni salad, ranch-style beans, beverage and dessert all for \$6.25. The salad bar, deli and grill will also be available.

...

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 from 12:15 – 1:15 p.m. today in Bldg. 571, conference room 2301; additional sessions will be held on the last Friday of each month through October. Attendance is open and no pre-registration is required. Bring your lunch and your questions.

Monday
1

In honor of the Lab's anniversary, **professor emeritus Carlos Cortes** will present a talk on "Where Were You in '52?"

A Personal Perspective on a Half Century of Change" to Lab employees at 11 a.m. in the Bldg. 123 auditorium. After the talk, Cortes will sign copies of his new novel, "The Children Are Watching: How the Media Teach About Diversity." The novel is on sale at the LLESA Office in Bldg. 415.

Tuesday
2

The Energetic Materials Center will host Michael Leone and Kirk Yeager of the **FBI Explosives Unit** in a seminar "The FBI

Explosives Unit – Operations and Interests in Improvised Explosives and Improvised Explosive Devices" at 9 a.m. in Bldg. 132, room 1000. They will present an overview of the FBI Explosives Unit and major functions in relation to bombings. Major bombing cases that the Explosives Unit has worked will be discussed.

Thursday
4

The Lab is closed in honor of the Fourth of July.

Up
Coming

The Stanford Center for Professional Development Program director will be on site on Tuesday, July 9 at noon in

Bldg. 571, Room 2301. She will present the **Stanford Instructional Television Network's** graduate degree and certificate programs. Contact: Kathy, 2-9335.

...

LLESA's **Rubber Stamping Networking Group** is hosting stamp camp on Saturday, July 13 at 10:30 a.m. in Bldg. 415 in the Yosemite Room. Cost is \$15. Family members or other guests are also invited. RSVP before July 10 to Terry Griffin, 2-6684, or griffin6@llnl.gov.

LLNL drill team floats to another first

The Laboratory's 50th anniversary float and performing science drill team captured another first place in the parade kicking off the 2002 Alameda County Fair in Pleasanton on Saturday, June 22. Scott Wilson of Public Affairs displays the blue ribbon. Wilson is organizing the Lab's participation in local parades. The next parade will be on July 4 in Danville.

Newsline

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1952 – 2002

MAKING HISTORY, MAKING A DIFFERENCE

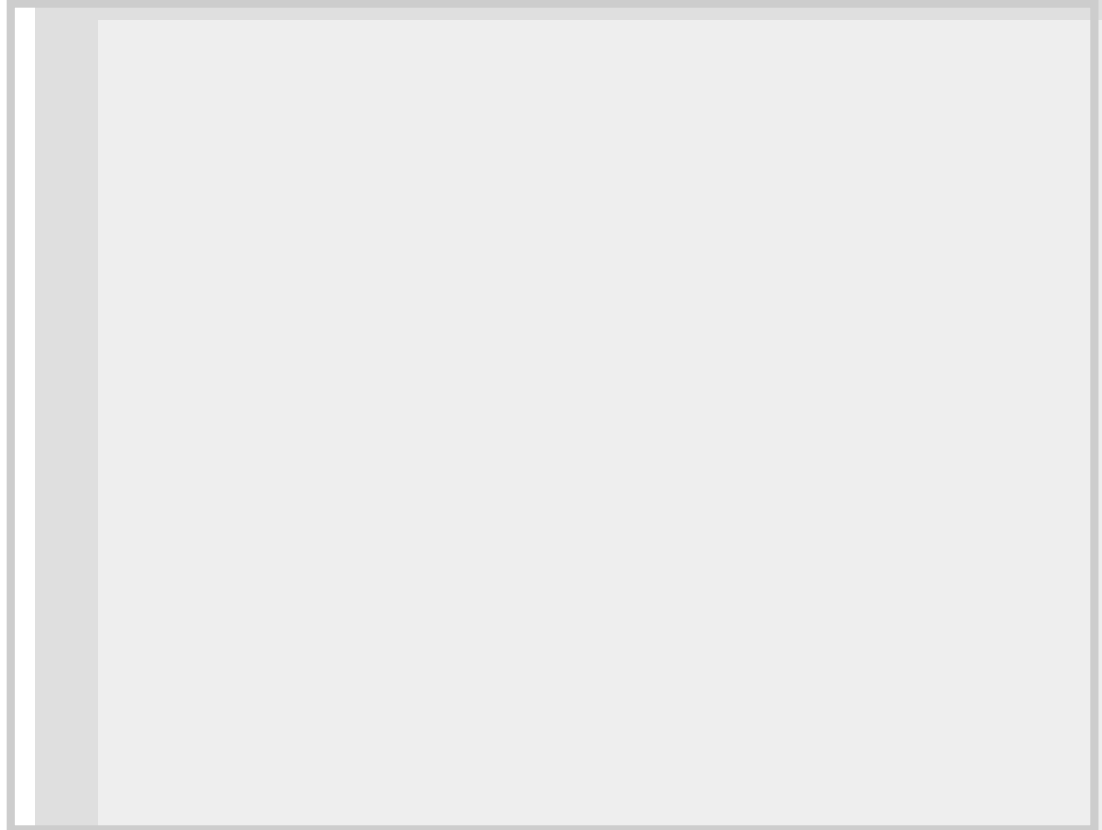
Enormous strides in magnetic fusion research

This is an ongoing feature highlighting the Lab's 50-year history. This week we take a look at the year 1977.

In 1977, Laboratory researchers were making enormous strides both in the quality of their insights into plasma physics and in the size of their experimental equipment. In the spring, the Energy Research and Development Administration approved \$11 million for the Tandem Mirror Experiment (TMX). That summer, researchers used an intense beam of energetic neutral atoms to generate and sustain a high-density, high-temperature plasma in the 2XIIB machine. And in autumn, construction began on the Mirror Fusion Test Facility (MFTF), an advanced experimental fusion device designed to be an intermediate step between the existing mirror machines and an experimental fusion reactor.

Success with TMX experiments over the next several years led the Laboratory to substantially modify the MFTF design. With a 1,250-tonne vacuum vessel and the largest set of superconducting magnets in the world, MFTF-B was completed in 1986. However, what could have been learned with MFTF-B will never be known because it was officially mothballed later that year.

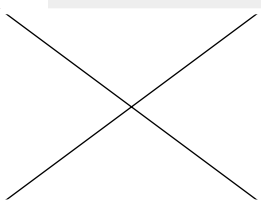
Although the decision was a major setback for fusion energy research at Livermore, scientists have continued to make important contributions to the national magnetic fusion effort.



The Tandem Mirror Experiment was used in magnetic fusion research.

1977 MFTF
TMX

Around the Lab



Electron-positron linear accelerator

This 1977 photo is taken at the injection system. At the far end, is the electron gun, which fires electrons into the injector. Power from Klystron pours into the accelerator through the vertical structure at left. Charles Bowman (left) is standing next to Eugene Goldberg, Physics Division leader.

Eugene Goldberg, Physics Division leader.

Around the nation

- Energy Research & Development Administration becomes Department of Energy
- Carter warns of U.S. energy crisis
- Rock pioneer Elvis Presley dies in Memphis

Around the world

- Brezhnev becomes president of USSR
- Czech human rights activists arrested by police
- Last-known case of smallpox appears in Somalia

in other

NEWS

Other news around
the Lab, the nation
and the world.

For more of the Lab's rich history, check out the Timeline, located at: <http://www.llnl.gov/timeline/>



CELEBRATING 50 YEARS OF SCIENCE

Sen. Nunn is briefed on national security programs

By Gordon Yano

NEWSLINE STAFF WRITER

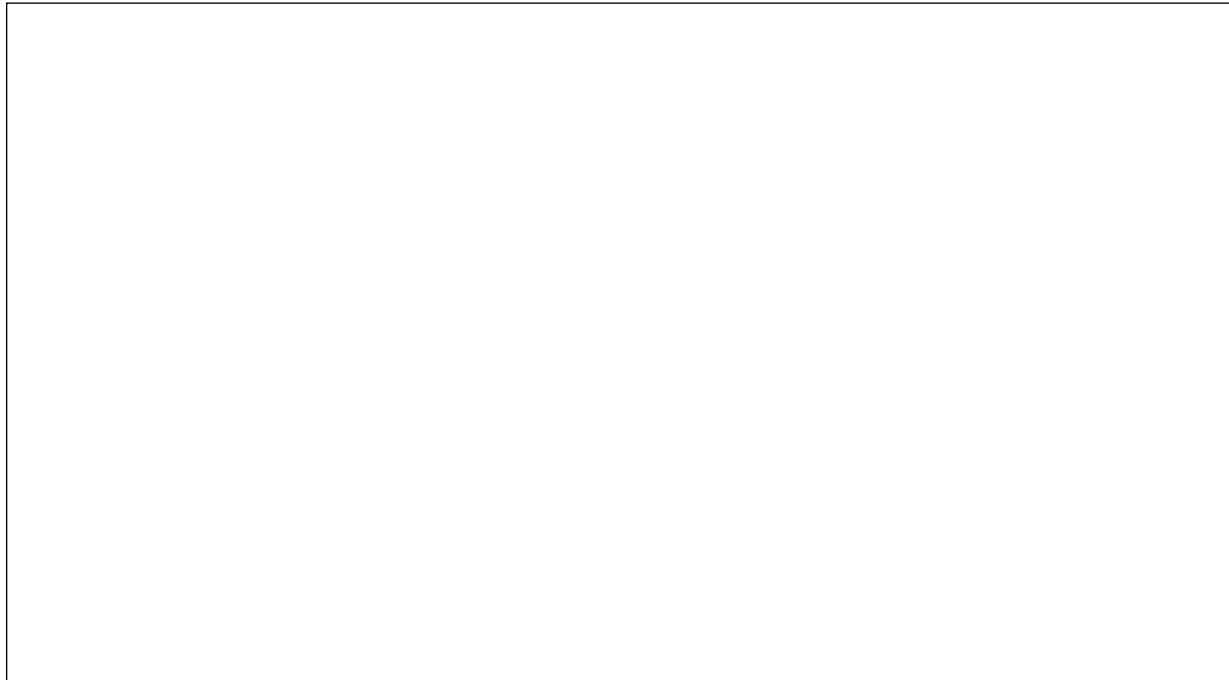
Former Sen. Sam Nunn of Georgia, one of the sponsors of the "Nunn-Lugar" legislation that created the Cooperative Threat Reduction (CTR) Program, visited the Laboratory Monday to discuss programs to safeguard weapons of mass destruction in the former Soviet states. He also received briefings on the Lab's work in the areas of homeland security and stockpile stewardship.

Begun in 1991, the CTR Program was designed to assist Russia and the newly independent states of the former Soviet Union in securing and destroying excess nuclear, biological and chemical weapons. U.S. Sen. Richard Lugar (R-Ind.) introduced a new bill in March designed to expand the CTR Program to other countries with weapons of mass destruction.

The Laboratory has a number of initiatives under way in support of the CTR Program. They were the topics of a roundtable discussion including the senator and members of the Nonproliferation, Arms Control & International Security; Physics & Advanced Technologies; and Engineering directorates, moderated by NAI's Roger Werne.

Roundtable topics included the Nuclear Cities Initiative, led by Dale Nielsen and Jim Trebes; Mayak Russian Nuclear Weapons Complex Storage Transparency, led by Kenneth Sale and Daniel Decman; Initiatives for Proliferation Prevention, led by Donald Lesuer and Paul Herman; Materials Protection, Control and Accounting, led by Michael O'Brien; Warhead Safety & Security Exchange, led by James Morgan and Thomas Crites; and HEU Purchase Transparency, led by Alan Bennett.

The senator also received briefings on the Lab's homeland security projects from NAI's Page Stoutland and Richard Wheeler, and on Stockpile



MARCIA JOHNSON/TID

From left to right: Ron Lehman, Michael Anastasio, Roger Werne, Sen. Sam Nunn, Jeff Wadsworth, Bruce Tarter, Merna Hurd and Ron Cochran during NAI's Then & Now celebration.

Stewardship from Bill Bookless of the Defense and Nuclear Technologies Directorate. Nunn completed his visit with a look at the National Ignition Facility, hosted by Bruce Warner, NIF Programs' deputy associate director for Operations.

Nunn also met with Director Bruce Tarter, Director Designate Michael Anastasio, Lab Executive Officer Ron Cochran and Ron Lehman, director of NAI's Center for Global Security Research.

"This visit provided a wonderful opportunity for Senator Nunn to learn about our actual experiences in Cooperative Threat Reduction and related programs through direct discussions with some of the people who have been accomplishing this important work," said Cochran.

Nunn is currently co-chairman and chief exec-

utive officer of the Nuclear Threat Initiative (NTI), a charitable organization dedicated to reducing the global threats from nuclear, biological and chemical weapons.

NTI's Website (<http://www.nti.org>) offers daily news and in-depth resources, including Global Security Newswire, a daily news service produced by National Journal Group with original reporting on nuclear, biological and chemical weapons and related issues. The NTI Website also contains a Research Library (http://www.nti.org/e_research/e_index.html) that builds on nonproliferation databases from around the world and brings together a range of expert opinion and analysis prepared by the Center for Nonproliferation Studies at the Monterey Institute.

'Then and Now' film rebroadcast schedule

A rebroadcast of the Lab's Then and Now film festival will repeat each of the five films throughout the day from July 8-12 on Lab TV Channel 2.

"Extraordinary Science, Extraordinary Leadership" will be shown each day at 10 a.m., "A Journey Through Time: The History of Engineering at LLNL" will be at 11 a.m., "Orders of Magnitude - 50 Years of Supercomputing at LLNL" will air at 1 p.m., "NIF Programs Directorate Presents Lasers Then & Now" will be at 2 p.m., and "Fifty Years of Innovation in Nuclear Weapons Design" will air at 3 p.m.

Throughout the week, each of the five films will be presented once at noon also on Lab TV Channel 2. The film schedule is listed below.

Monday, July 8 - "Extraordinary Science, Extraordinary Leadership"

Tuesday, July 9 - "A Journey Through Time: The History of Engineering at LLNL"

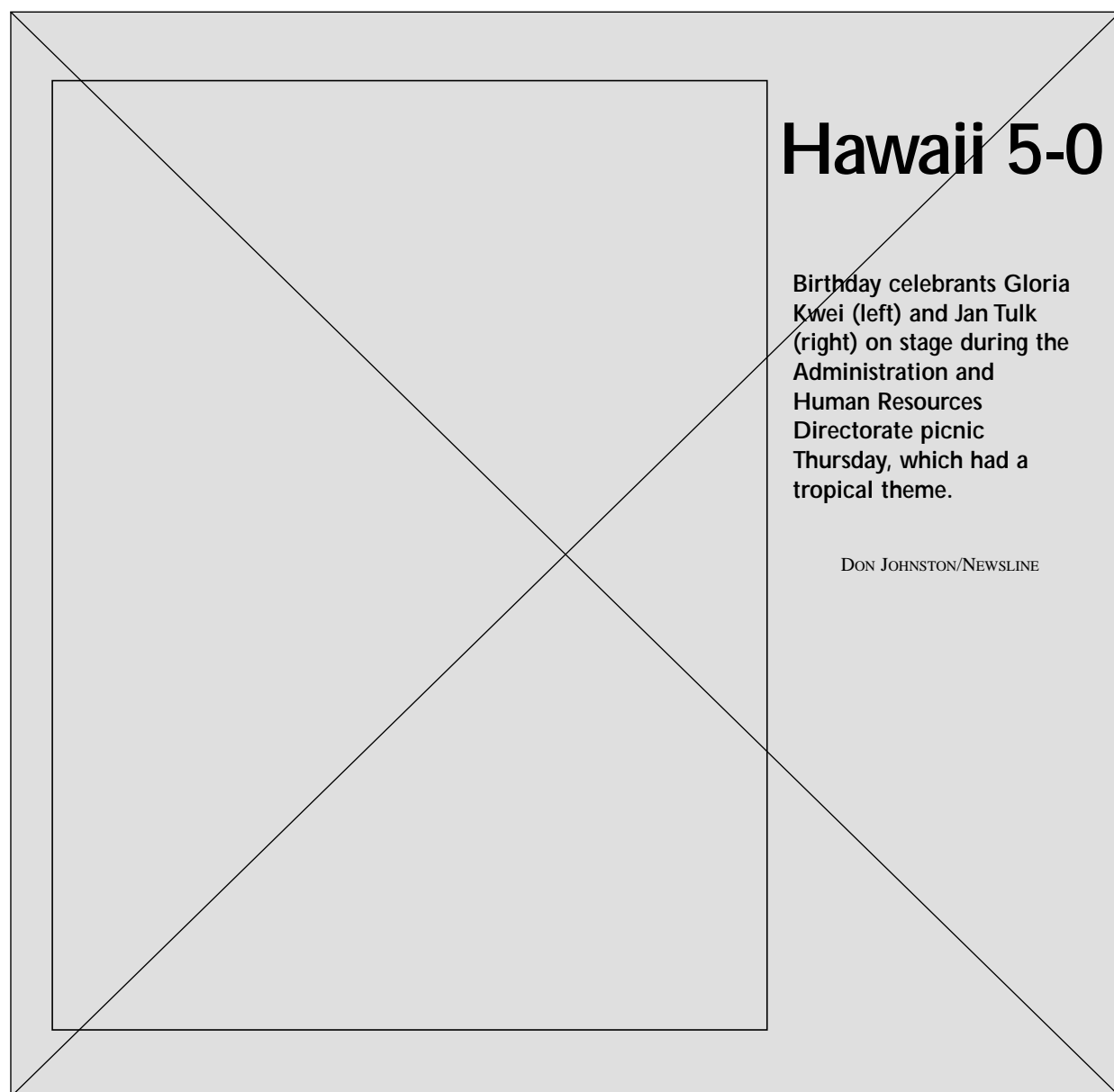
Wednesday, July 10 - "Orders of Magnitude - 50 Years of Supercomputing at LLNL"

Thursday, July 11 - "NIF Programs Directorate Presents Lasers Then & Now"

Friday, July 12 - "Fifty Years of Innovation in Nuclear Weapons Design"

The film festival was originally shown as part of the Lab's 50th anniversary celebration.

For more information regarding the films or the rebroadcast schedule contact Don Correll, 2-6784.



Hawaii 5-0

Birthday celebrants Gloria Kwei (left) and Jan Tulk (right) on stage during the Administration and Human Resources Directorate picnic Thursday, which had a tropical theme.

DON JOHNSTON/NEWSLINE

CELEBRATING 50 YEARS OF SCIENCE

Veterans recall Energy origins

By Anne M. Stark

NEWSLINE STAFF WRITER

When the United States faced an energy crisis in the 1970s, Livermore Lab stepped up and formed the Energy Group.

The history of the 1970s energy crisis in the Nixon-Carter era and early Lab energy programs was presented Thursday during the Energy and Environment Directorate's panel discussion, part of the Laboratory's 50th anniversary "Then & Now Week" celebration.

Former Lab energy leaders Art Lewis, Roy Austin and Doug Stephens participated in the panel and recalled the time when they were all searching for solutions to the energy crisis.

Stephens, who joined the lab in 1961, was recruited to participate in the Plowshare Program, in which nuclear explosions were proposed for more civilian uses such as digging trenches and canals and even power production. When that program came to an end in the early 1970s, Stephens concentrated on an energy program, called coal gasification.

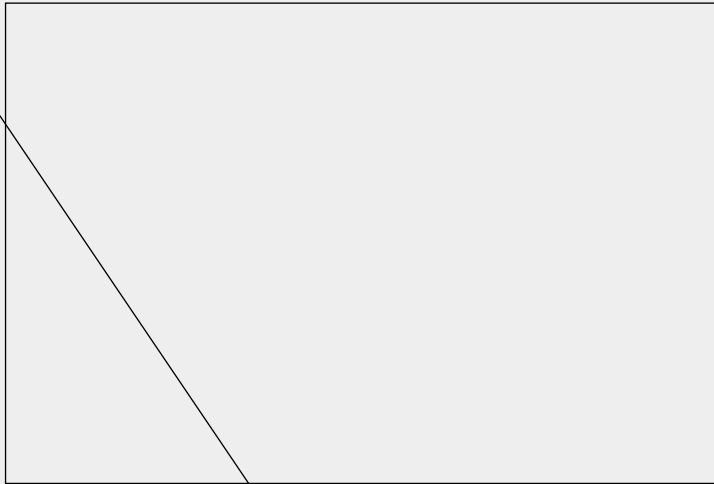
In coal gasification, coal was burned with oxygen and steam injection to yield a gas product. Stephens said the Lab was able to prove that the process technically worked, however, economically, the process couldn't compete with the then-present-day oil and gas production techniques.

Lewis, who joined the Lab in 1958, worked on the oil shale project, in which oil was extracted from shale. The shale, which contained organic material basically equivalent to uncooked oil, would be heated up and the organic material in the shale would be converted to oil. Methods to do this underground and aboveground were examined.

Austin, who joined the Lab in 1956, worked on the geothermal program at the Salton Sea, which studied total-flow turbines, geophysics of geothermal fields and the biological impacts of geothermal energy.

The Lab developed a total flow system concept that used wet steam in turbines extracting thermal and kinetic energy from the flow. Though Austin originally was hired to work in the weapons program, he said he enjoyed the work that he did in the energy program.

"We made a strong impact," Austin said. "I think the most fun I had was being in the real world marketplace working with real industry. We were doing something real that would wind up being attached to your pocketbook as opposed to building a 100 kiloton nuclear device."



JULIE KORHUMMEL/NEWSLINE

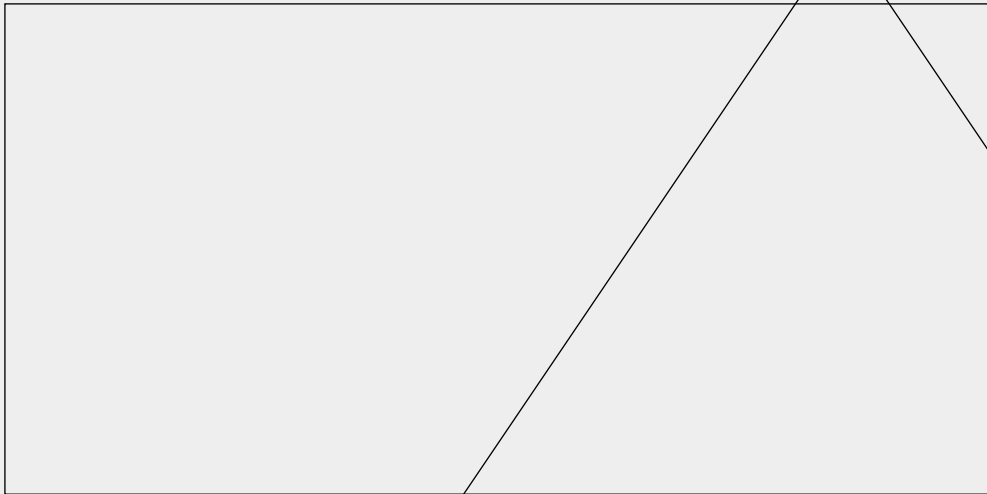
Debbie Hackel and Jenean Brothers at the CMS picnic.

Laboratory programs celebrate



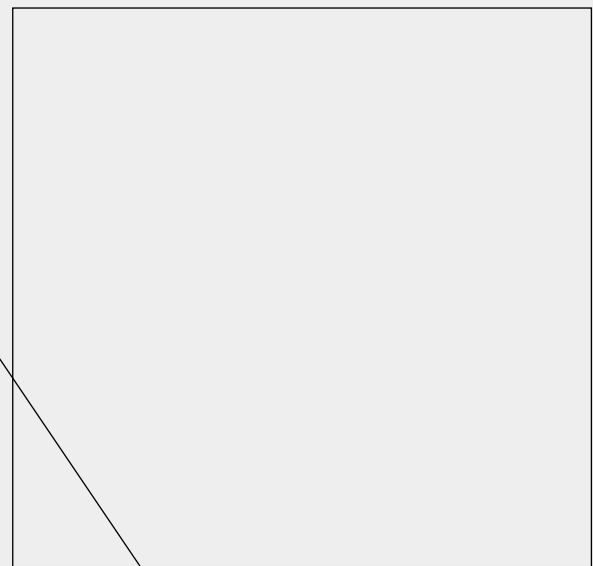
JULIE KORHUMMEL/NEWSLINE

From left: Roger Grimm and Ken Marsh in front of a display at the Chemistry & Materials Science picnic.



DAVID SCHWEOGLER/PUBLIC AFFAIRS

DNT seminar celebrates 50 Years of Weapons Excellence. Not just war stories, this three-day program looked for specific relevance to science-based stockpile stewardship. Pictured are current staffers with familiar faces from five decades at the Lab.



ALI CARRIGAN/PUBLIC AFFAIRS

Laura Gilliom and Claire Max chat at the University Relations Program picnic.

History of Lab security and environmental programs discussed

The Safeguards, Security and Environmental Protection (SSEP) Directorate celebrated the Lab's 50th anniversary with a "Then & Now" panel discussion of directorate history on Monday.

Associate Director Den Fisher introduced panelists Duane Sewell, Phil Schiedermayer, Max Biggs and Harry Galles. All four played key roles in the security, medical and environmental programs at various times since the Lab's founding.

Fisher provided his perspective based on his own experience as an engineer and manager at the Lab. "Laboratory management has always emphasized safe and secure operations as going hand-in-hand with breakthroughs in science and technology. Today we may call it ISM or ISSM, but the underlying principles remain the same."

Sewell, who shared his remarks first, was the

Lab's first operations manager and deputy director. He worked under E.O. Lawrence in the 1940s at the Berkeley Lab before coming to Livermore as one of its first scientists.

"What started the safety program here?" he asked. "We didn't set out to design a program – we just did our work with safety in mind."

Schiedermayer was the Lab's first Security Department manager and shared remembrances of the challenges of securing the Lab in its early days.

"The day I arrived, my co-workers announced that we were having an open house the next day," he recalled. "Here I thought I was coming to this top-secret facility, and here we were opening it up to the public." But Schiedermayer also noted that he enjoyed the Lab's "family-like" atmosphere, and was proud to help the scientists show off their work.

Biggs was medical director at the Lab from

1955-80, and took the position because his wife "suggested he get a real job."

"Despite all the safety measures, the Lab was viewed as a dangerous place to work," Biggs said. "So to ease employee fears, we offered free medical exams." Biggs also remembered the irony of the vending machines in the medical building in his first days.

"We had a cigarette machine in the lobby of the medical building," he laughed.

Galles closed the event by reminiscing about the Lab's work and its impact on the environment. Galles was the head of the Environmental Protection Department from 1990 to 2001.

"This Lab is committed to protecting the environment," he said. "Because we work in a safe, responsible manner, we can be proud of our work here."

DIRECTOR

Continued from page 1

required.

A source of special pride has been our ability to meet the challenge of annual certification for Livermore's weapons for the first six years of this process. Nationally, stewardship has had many successes, but progress is uneven across the program, and the challenge is to accelerate the total effort without weakening the strong components. Nonetheless, it has been a remarkably successful transformation that very few would have expected given the chaos and uncertainty at the beginning of the '90s.

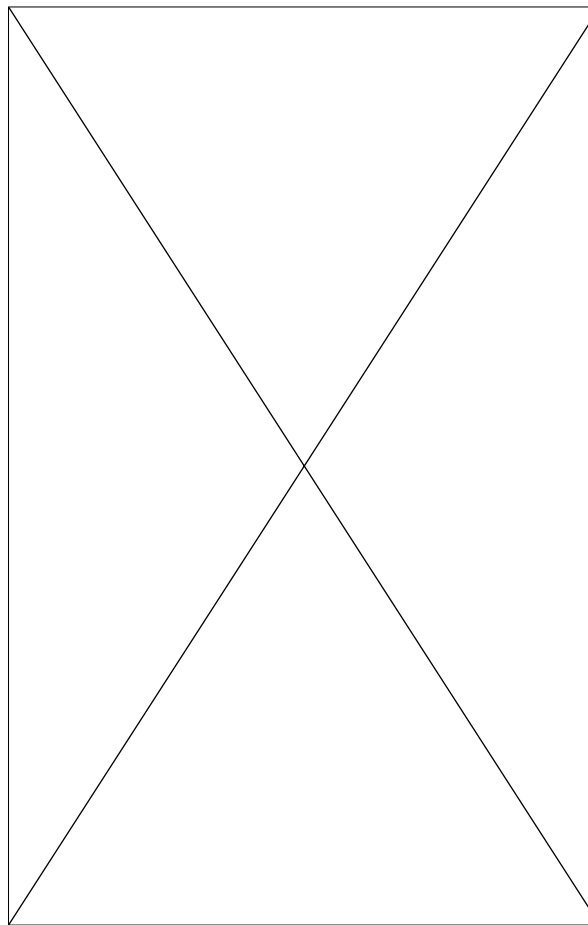
The second major programmatic evolution has been in nonproliferation and counterterrorism. Beginning from a relatively small intelligence base combined with verification and other monitoring technologies, there has been rapid expansion in many areas. We now have an array of projects directed at increasing the security of Russian nuclear material; some specialized and important projects on cybersecurity; the most advanced biodefense work in the country; and sensors aimed at virtually every aspect of terrorism. This collection of projects and the systems thinking that went into assembling it is an important reason why we have been so prominently identified in discussions about the new Homeland Security Department.

Analogously, our application of these technologies in the field after Sept. 11 was a significant achievement for our Laboratory. The ultimate charter and composition of this new department will significantly impact our long-term role in these areas, but it is an opportunity to further apply our skills to a very important national need.

Several other programmatic areas deserve special mention. First, in the early '90s, we saw the rapid growth (and equally rapid decline) of technology transfer. Two lessons emerged from this: we learned that we were already tightly tied to industry in much of our work, and that occasionally we had special expertise that could be very useful commercially (as in EUV lithography, environmental cleanup and medical technologies). And, we quickly realized that the notion of national labs as the primary research and development engine for American industry was palpably silly.

Finally, there was the astonishing tour de force of the sequencing of the human genome. That advance and its impact on fields such as biodefense is just beginning to be realized, and the Lab's ultimate role in bioscience and biotechnology is still a work in progress. In my view, we need a strong embedding in bioscience because of its potential for astonishing growth in the coming decade. Most other programmatic areas at the Lab, particularly in energy and environment, remained at roughly constant levels of effort during the last decade.

The Laboratory's science and technology base continued to make remarkable gains in many fields. The most spectacular was in scientific computing, where the ASCI program not only led to much more powerful computers but stimulated the development of software, graphics and numerical methods to exploit the bigger computers. This led to major achievements in weapons simulation, but we also



MICHAEL ANTHONY/TID

Today is the last day of Bruce Tarter's directorship. On Monday, Michael Anastasio will take the lead as the Lab's ninth director.

used institutional resources to provide computing capability to a much broader array of Lab scientists.

The last years of Nova experiments, and the potential of NIF as a scientific laboratory, was the other area in which major advances took place. Fusion science, material properties and astrophysics represent just a few of the fields in which Nova/NIF have and will push the future state of the art.

Finally, even listing the prizes and recognized achievements in other areas (things like the discovery of metallic hydrogen, of new heavy elements, and of dark matter in the MACHO project.) would take up an entire issue of *Newsline*. Those achievements are a testimony to both the talents of Lab scientists and the flexibility of the Lab to invest in good ideas. However, as many of you have observed, the increasing environmental and security requirements (often ill-matched to a basic research and development environment) coupled with other bureaucratic constraints on our work, are all barriers to innovation, particularly in experimental fields. A major task of Lab managers is to work even harder to ensure that a climate for scientific exploration is nurtured at the Laboratory. This is also a place where the University of California can and should play a very strong role.

Operationally, the Lab has had an increasingly excellent record over the past decade. Our financial and business functions are first class and have led to significant gains in productivity. Our environmental record is sound, and we have done a good job of informing and listening to the community about its concerns. We have successfully responded to the

recent security mandates, although few of us believe we are yet able to distribute our security resources in an optimum fashion. The University of California, along with Los Alamos and ourselves, are currently working to redefine our contract measures in a way that reflects the real priorities at our institutions, and this effort could help reduce the substantial bureaucracy that has accrued over the years. An important test for any operational rule or prescription is whether it reflects best practices in its broad community and, if not, it needs to be challenged to do so at all levels.

Finally, let me turn to human resources. Here the story is more complicated. There is plenty of good news. We are still attracting and retaining first-class scientists and engineers, and the Lab is broadly viewed as a good place to work. And, the diversity of our leaders and managers has grown considerably over the decade, including positions in the most senior leadership jobs at the Lab. And, by any measure, the training and education programs have been greatly expanded at all levels of supervision. But there is substantial dissatisfaction with the performance evaluation system, and in many instances with the perceived opportunities for growth, particularly into management jobs. And, minority groups feel like "minorities" in far too many situations.

There are no easy solutions. Our science and engineering demographics will inevitably reflect that of the educational system, not the general population, so that we will not "look like" our neighborhood. And, the Lab is strongly committed to an evaluation system that is grounded in accomplishment and based on judgment as well as tangible measures. The employee survey of a year ago has laid the foundation for significant improvements in these and other human resource issues. It is very important that the survey recommendations be implemented and then tested and refined so that the vast majority of employees perceive the Lab as a place where their aspirations can be realized.

Now for a few closing thoughts. As you all know, we will celebrate our 50th anniversary this September, and it has been a half-century filled with excitement, achievements and important contributions to the nation. We have taken Lawrence's model "to-the-max" and we were an instrumental force in ending the Cold War. We have helped build a national science base in computers, lasers and materials that could not have even been imagined in 1952.

But it is time to move on, to a new century, to a new set of national security challenges and to a new Laboratory. There are many valuable insights from the people and events of these past 50 years, but they can no longer serve as either a guide or a blueprint for the future.

The new generations that will head our country were not Cold Warriors and their challenges are very different. The Laboratory must respond to this new world with innovative and fresh ideas, and you have an outstanding individual in Mike Anastasio to lead you in that endeavor. I look forward to his leadership and to helping where I can, and I thank all of you for your efforts on behalf of the Laboratory during the time when I have been Director.



For the Congressional Record; remarks by Ellen Tauscher

As we mark the end of Dr. C. Bruce Tarter's tenure as the director of Lawrence Livermore National Laboratory, I would like to take this opportunity to celebrate his career and honor his accomplishments. In more than 35 years with Livermore Laboratory, he has served in capacities that truly span the broadest possible range, beginning with a summer internship as a graduate student, and culminating with his appointment as director. During his tenure at the Lab, Dr. Tarter has been steadfast in his commitment to applying science and technology to the important problems of our time, as well as establishing strong institutional ties with

the University of California.

Dr. Tarter received his bachelor's degree from the Massachusetts Institute of Technology and his Ph.D. from Cornell University. His formal career with Livermore Lab began in 1967 as a staff member in the Theoretical Physics Division, where he was widely recognized as a future leader. Within the decade he was promoted to head of Theoretical Physics, where he advanced his belief that Livermore should use world-class science and technology in support of our national priorities.

It was also during this time that Dr. Tarter became a leader in solidifying the Livermore

Laboratory and University of California relationship.

Throughout the 1980s Dr. Tarter was a major player in the creation of the Laboratory Institutes, notably the Institute of Geophysics and Planetary Physics, the Center for Accelerator Mass Spectrometry, and the Institute for Scientific Computing Research. These institutes, created under Director Roger Batzel, have become the Laboratory's primary

See **TAUSCHER**, page 8

TARTER

Continued from page 1

ing he could avoid. "I've always hated using 3x5 cards, even in high school."

As he spends his last remaining hours as director, Tarter says the reality of his resignation, announced back in December, only recently began to set in. The months leading up to this day have been consumed with issues ranging from the Lab's homeland security role to the 50th anniversary to positioning the Lab for the next 50 years. Tarter has devoted little time to the "now what?" aspects that come after stepping down as director, or the milestones he feels he's achieved.

In many ways he'd prefer to keep it that way. Though Tarter's passion has always been the Laboratory and the shaping of its future, when it comes to his own future, or even discussing his past, he prefers to remain private and unassuming.

"If you stand on ceremony, you've almost lost the game," he summed up. "The best part of this job has always been making things happen for other people. I've always enjoyed watching a well-designed thing become a good product. It's what this Lab does best."

Though Tarter admits these are some of the things he will miss about his job, he is quick to cite a few things he's looking forward to living without.

"There will be a decompression," Tarter allowed of giving up his duties. "But the things I give up won't be missed as much as they will be looked at differently.

"I have lived the last eight years having to view the Laboratory at some risk every day. It's the director's job to understand that risk, then do whatever can be done to alleviate it. I'm looking forward to being able to view the Lab in a different way."

Then there's the constant travel. It's not unusual for the director to be at the Lab Monday, in Washington, D.C. Tuesday morning, then back at the Lab for a Wednesday meeting, followed by a trip to London or other places abroad by the end of the week, only to return to Livermore early Monday morning.

"Bruce has spent more time working for the Lab than anyone I've seen in 35 years," said Hal Graboske, the associate director of Chemistry & Materials Science and a longtime friend of Tarter's. "He's worked on the Lab's business every waking hour."

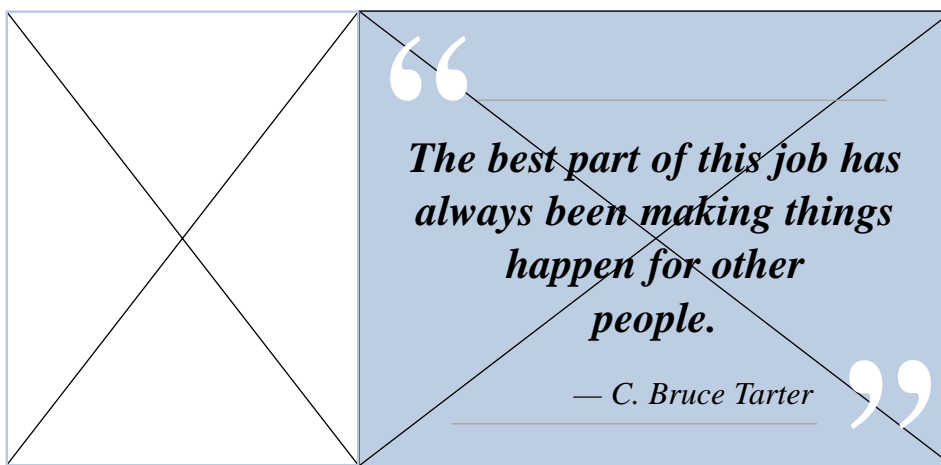
Over the years Tarter has been known for his laser-like focus on the issues that are most important.

"The work may have been serious, but the job was always fun," said Bob Kuckuck, the former deputy director of Operations and now the acting deputy administrator for the National Nuclear Security Administration. "Working with Bruce has been an outstanding experience. He is one of the quickest minds of anybody I know — always three thoughts ahead of you and usually still pulling away."

"He has been open to ideas and always listens to what you have to say. I have the greatest respect for Bruce as a leader."

Tarter steps away with one of the longest tenures as director of the Lab, second only to the late Roger Batzel. For Tarter "it was time to move on," he says of his decision to resign. As he has said numerous times since his December announcement, he had thought about stepping aside sooner, but was convinced by the University of California to remain as director until a number of issues were settled.

Those issues have been played up in hundreds of headlines in the press, but Tarter shrugs them off. He



feels the do or die test of his leadership as well as his entire career was not the controversy surrounding the National Ignition Facility or even security concerns at the Lab, as many would guess.

Instead, Tarter looks to 1994 and the dawn of the Galvin Commission. That commission, called by former secretary Hazel O'Leary, was sent to explore whether the Laboratory should be closed down.

In a new era where testing of nuclear weapons would no longer be necessary, speculation ran rampant on the future of LLNL. Some said the Laboratory should relinquish all weapons work and "go green," while others questioned whether the Lab could or should become a hub for technology transfer. And others called for the outright closure of Lawrence Livermore.

But Tarter would not waiver. He felt the Lab's primary mission should remain weapons work, particularly through the use of new tools such as NIF. It was a controversial position given the whims of the Energy secretary, yet Tarter stood firm with the Galvin Commission.

"The hardest moment in my life was sitting in Congress while Bob Galvin read off the recommendations. It was then that I realized I could be betting the farm on this one."

Those closest to Tarter see things differently. They credit Tarter's tenacious efforts during that time as one of the reasons the Laboratory remains one of the premier science and technology institutions in the world.

"He went the only direction he should," said Vic Reis, then the DOE assistant secretary for Defense Programs. "There was a national need for the Laboratory, and the commission needed to understand that. Bruce may have had to stick his neck out, but that's the director's job. Bruce has always been the kind of person that no matter what is going on in his life, the Lab comes first. He has an intense loyalty and the Lab is in better shape because of it."

In the end the Galvin Commission, along with President Bill Clinton, agreed that the nation needed laboratories such as Lawrence Livermore. What Tarter saw as a gamble paid off.

"Bruce responded in a very agile way to this crisis," said Bill Lokke, then the acting deputy director of Science and Technology. "He thought the matter through, then responded to all questions, ultimately satisfying the people he needed to most."

Lokke cites Tarter's flexibility as the greatest of several factors that have contributed to his longevity. "He's had to deal with a variety of Energy secretaries who were all over the map in terms of interests and issues. He's had to deal with hundreds of 'bosses,' from the feds, the University of California and the Regents, to members of Congress and every kind of review

committee you could imagine.

"At any given moment the director finds himself having some explaining to do. You can't satisfy all these bosses, so a director has to have sound judgment to select the issues that are most important.

"Yet Bruce has remained on his toes, and it's because of that ability that we're still here," Lokke said.

"Bruce has always been an extremely bright leader, clever, effective and insightful," added Graboske, who first met Tarter after his arrival in 1967. Prior to that Tarter spent two summers at the Lab working as a graduate student in 1962 and '63, during a period when he wasn't sure what direction to point his career. He chose Livermore because "it was one of the few labs that paid for transportation costs, but I really had no sense of the place," he said in a 1994 interview.

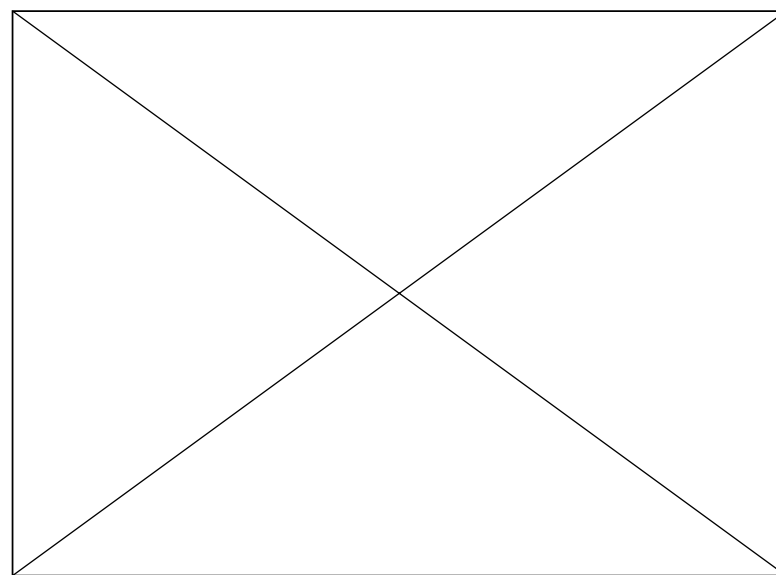
Born and raised in Louisville, Ky., Tarter could have easily become a musician. Before attending the Massachusetts Institute of Technology, where he earned his bachelor's degree in physics, he considered a career as an aspiring bassoonist. But he chose graduate work in science, earning a doctorate from Cornell, when he realized "I might eventually become the No. 1 bassoonist in the Kansas City Symphony, but never No. 1 in the San Francisco Symphony."

"Bruce has always been a very competitive, very driven guy," Graboske said. "It wasn't long after starting here that it became clear his goal was to be a leader at the Lab. He's always had ideas on the role physics and the Laboratory should play. He's always been dedicated to his work. You can e-mail him about an issue here at midnight and you'd get an answer back right away."

Tarter began his 35-year career as a theoretical physicist working in the old T Division. During that time he specialized in statistical mechanics and atomic physics, high-temperature equations of state and opacities, and theoretical astrophysics, with emphasis on the physics of quasars and X-ray sources. He also worked on applications to fusion and defense problems.

He broke in with such scientists as John Browne, Graboske, Jay Davis and Dick Fortner, all of whom went on to senior management positions at the Lab or other institutions. Tarter built his own management style from a combination of what he believes is instinct and common sense, along with guidance from mentors such as Carl Haussmann, one of the founding fathers of the Lasers Program, and former directors Mike May and John Nuckolls.

See TARTER, page 8



NEWSLINE FILE PHOTO

In 1997, Director Bruce Tarter, Federico Peña and Rep. Ellen Tauscher broke ground for the site of the National Ignition Facility.

"I think the Lab is in a lot better shape now than when Bruce started. There have been some enormously tumultuous times, but the Lab has got its act together and for that you have to give Bruce credit. His concern has always been for the Laboratory, and the Laboratory has benefited from that."

—Vic Reis, former DOE assistant secretary for Defense Programs

"Bruce always made an effort to meet regularly with me as mayor to bring me up to speed on Laboratory issues that affected the community. This was very helpful to me since the Lab has such a strong presence nationally and a large employee base locally. He did a wonderful job in providing tours and briefings for visiting dignitaries coming to Livermore. He was very sensitive to the importance of a Laboratory-community partnership and was always very accessible to me."

— Former Mayor Cathie Brown

"Bruce will be missed, but his legacy will be felt for many years. He has been a tireless and effective advocate for Lawrence Livermore's scientists and staff and has taken steps to ensure that the Laboratory will continue to deliver first-rate support to national security and cutting-edge science and technology. I've personally enjoyed his keen intellect and have valued his always sounds advice."

— NNSA Administrator John Gordon

TARTER

Continued from page 7

By the mid-1970s, his management career was moving forward, first as group leader and eventually as division leader, from 1978-84. "He has spent more time during his career serving as a leader than a researcher, but he has still managed to put together a good publication record," added Graboske. During his career, Tarter has published 30 scientific papers and reports, and 38 Laboratory reports, among them "Framing the Laboratory's Future," in 1994, a guideline for future missions and the importance of national security work at LLNL.

He has served on a number of committees, among them the Long Range Planning Committee from 1991-93, and still sits or has served on a number of advisory panels, including the Army Science Board, the California Council on Science and Technology, the Pacific Council on International Policy and the Nuclear Energy Research Advisory Committee.

Despite the workload and his dedication, Tarter has not been above playing a few practical jokes. After he was appointed editor of *Science & Technology Review*, Tarter wrote a story on the Lab's discovery of a new integer, between numerals six and seven and known as "bleen." He wrote it as a joke, going so far as to send it through the various review and release chains.

"He was certain someone would see this story for what it was, but it went all the way through," Graboske recalled, laughing. "On the eve of its publication he came running in to the Lab to pull the story.

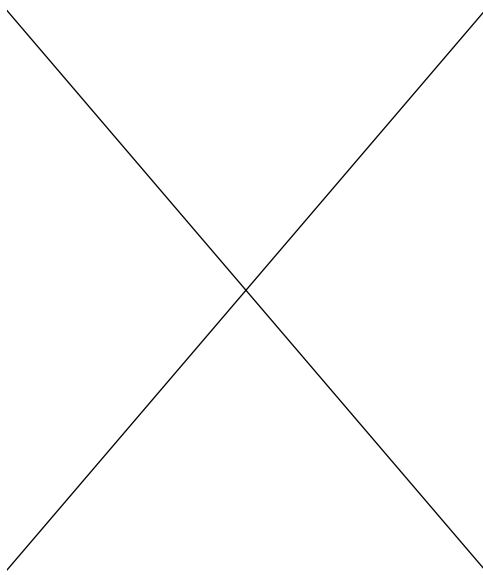
"In a way, it's a testament to how convincing of a leader he can be," Graboske summed up.

"Bruce is a very broad individual with an outstanding sense of humor," added Kuckuck, who recalled senior management meetings in which he and Tarter, in typical frat boy style, would try to get each other to laugh whenever the meetings began to drag. "I'd have to sit somewhere where I couldn't make eye contact," Kuckuck said. "There was lots of give and take between us, and I've before fortunate to have him as a friend."

In 1984, Tarter was named the deputy associate director for Physics, serving under then-AD John Nuckolls. When Nuckolls was named director in 1988, Tarter became AD of Physics, where he remained until 1993. He moved into the Director's Office as acting deputy director of Science & Technology in 1993, was named deputy in 1994, and then acting director when Nuckolls resigned just months later. By December, UC appointed him director.

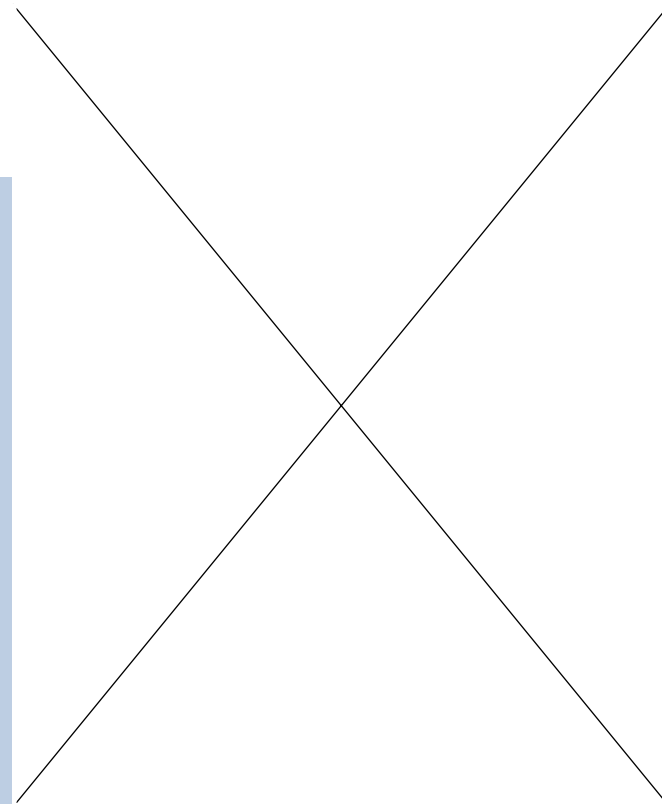
Tarter is a Fellow in the American Physical Society and in 1998 he was awarded the Roosevelt Gold Medal Award for Science. He is also a member of the American Astronomical Society, the International Astronomical Union and the American Association for the Advancement of Science.

"He's done quite well, despite what has been a very stressful directorship," Graboske said, citing issues ranging from the end of the Cold War and nuclear testing, to



NEWSLINE FILE PHOTOS

Bruce Tarter has been a longtime supporter of the Lab's annual HOME Campaign to raise money for local charities. Tarter regularly participates in the Run for HOME (above). In 1995, he was "roasted" by former colleagues within the Physics directorate, receiving a T-shirt poking fun at his hometown.



the future of the Lab and the Galvin studies, followed by budget problems with NIF, multiple Energy secretaries with different agendas, fallout from the Wen Ho Lee case and resulting security questions by Congress, Integrated Safety Management — "and most of these in the last three years," Graboske said.

Through it all Tarter says he never worried about his job being on the line, even during the height of the NIF controversy. "My concern was getting the NIF issues resolved," Tarter says, quickly dismissing the issue. "Had we not done that, I wouldn't have wanted to stick around as director anyway."

Tarter emphasizes there have been far more highs than lows to the job, among them six successful years of certification of the nuclear stockpile in the absence of testing, the selection of the Laboratory as the site for the National Ignition Facility and the ability to put the project back on track following budget issues, the success of the Lab's human genome work, the Accelerated Strategic Computing Initiative, the evolution of the nonproliferation and counterterrorism programs, medical technologies such as Peregrine, space programs such as Clementine and much more.

"There are so many things the Lab does well," Tarter says.

The memories of these milestones are recorded via rows of pictures Tarter keeps on his wall and bookshelves, along with a few assorted odds and ends — a programmable Japanese toy robot, a painting done by Sen. Dianne Feinstein and given to Tarter by the senator herself, and the always-present jar of jelly beans. Tarter jokes that the intensity of the meetings in his office can be measured by the number of jelly beans consumed. "I've

had days where these have been wolfed down in seconds," he added.

"Bruce has changed the Lab's character for the better," Graboske said. "Through his leadership the programs have learned to help each other. We have learned to work better with Washington, and we learned to be responsive to what Washington needed from us. There was a time when the Lab told Washington what it needs. Now we have learned to be responsive to what Washington needs from us. That was Bruce's doing."

Now that he is relinquishing that role, Tarter says his new routine will take some getting used to, yet he entertains no notion of easing up on the workload.

Though he admits the Lab has been a large part of his life, he does own up to an occasional game of golf or listening to music, and he has a huge collection of books that he keeps in his Alamo home, "somewhere around 10,000, and it's all kinds of stuff, from fiction to history to real trash novels."

At 62, he is thinking about retiring in the next few years, but no date is set. He says he will assist Anastasio during a transitional period and will be available as a source of information should Anastasio request it.

"Mike knows the Lab, he knows the issues, he knows the culture. The director needs to have a good sense of the place and Mike is there. Mike is very capable and very well respected. The time has come."

The same can be said for Bruce Tarter.



TAUSCHER

Continued from page 6

tools for interacting with the university community.

To guarantee the Laboratory's ability to use science and technology to solve the major problems of our day, Dr. Tarter has long been a champion of building the world's best supercomputers at Livermore. He has worked to ensure that these supercomputers are used for cutting-edge fundamental supercomputing, as well as critical national security computing.

His leadership in these areas and others propelled him to the ranks of senior management in 1989, as associate director for Physics during the waning days of the Cold War. Realizing that the political climate demanded a sharpened focus on weapons and space-age technology, he expanded the position to include weapons physics and space technology, leading to the Clementine mission to

the moon. He also created a broadly based environmental program in global climate and other environmental research.

In addition to his work at Livermore Laboratory, Dr. Tarter has served in a number of other outside professional capacities. These include a six-year-period with the Army Science Board; service as an adjunct professor at the University of California at Davis; and membership on the California Council on Science and Technology, the University of California President's Engineering Advisory Council, the Laboratory Operations Board, Pacific Council on International Policy, Nuclear Energy Research Advisory Committee and the Council on Foreign Relations. He is a Fellow of the American Physical Society and received the Roosevelt Gold Medal Award for Science in November 1998.

Since being named director of Lawrence Livermore National Laboratory in 1994, Dr. Tarter has remained dedicated to the themes developed throughout his career and has continued to adapt to changes in both science and the world at large.

Under his stewardship the Laboratory has been a principal contributor to the Department of Energy's programs to maintain the U.S. nuclear weapons stockpile without underground testing and to reduce the international dangers posed by weapons of mass destruction.

Commenting on the Laboratory's mission, Dr. Tarter has said that these efforts have "set the base for major national security program accomplishments in the future." While Dr. Tarter is stepping down as director of Livermore Lab, and his official leadership will be missed, we are grateful that he will remain on staff at Livermore, no doubt continuing to lead in his field. Always forward-looking and full of boundless energy, Bruce would never want me to speculate about his legacy, and I don't need to — his record speaks for itself. Congratulations, Bruce, and on behalf of my colleagues and the American people, thank you.



Wadsworth's career marked by milestones of magnificence

By Elizabeth Campos Rajs

NEWSLINE STAFF WRITER

Jeff Wadsworth's 10-year career at the Laboratory has been described as meteoric, magnificent — and too short.

This week, Wadsworth announced he is leaving the Lab in August to take on a senior executive position at Battelle, which is based in Columbus, Ohio. Battelle manages or co-manages four DOE laboratories: Pacific Northwest, Brookhaven, National Renewable Energy and Oak Ridge.

"The Laboratory truly has been a fantastic place to work. From the moment I walked into the red badge trailer 10 years ago, I was submerged with new and interesting challenges. It hasn't slowed down at all," Wadsworth said. "The opportunity offered by Battelle, however, was simply too good to pass up. So while I have some regrets about leaving the Laboratory, I'm very excited about the new challenges that lie ahead."

Director Bruce Tarter praised Wadsworth as "a wonderful asset to the Laboratory — both as an associate director for Chemistry & Materials Science and as a deputy director for Science & Technology. He has been invaluable to me on a personal and professional level and I wish him all the best in his new endeavors with Battelle."

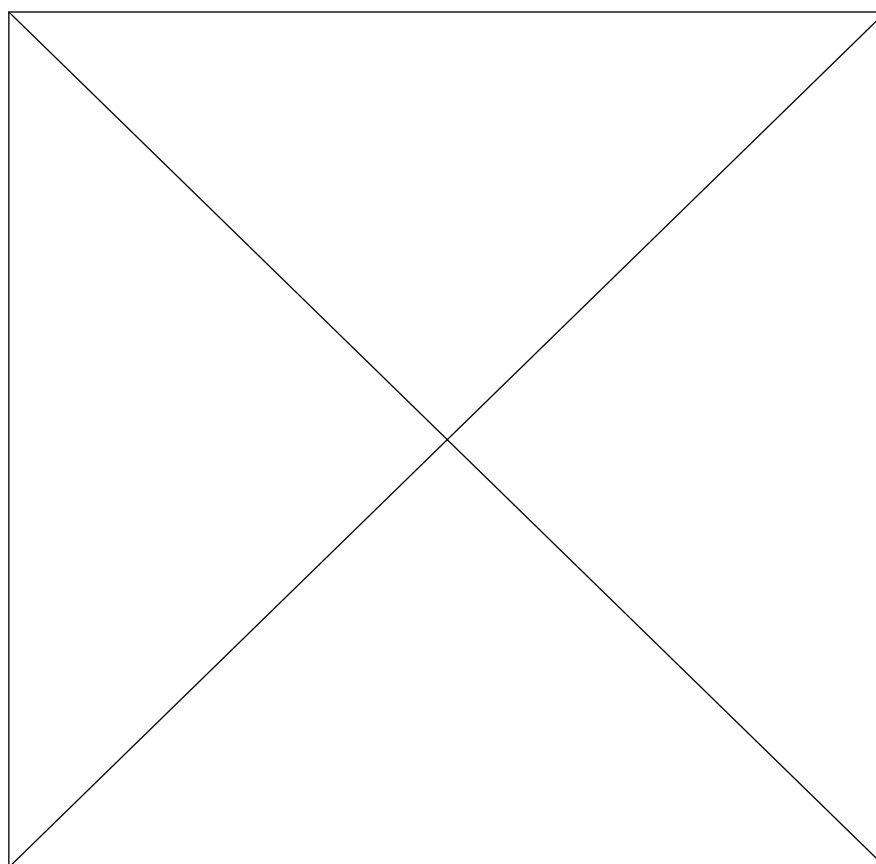
"Jeff has contributed greatly to the success of our Lab during his tenure here. I have enjoyed our close working relationship over the last year since I became a deputy director. Our loss is Battelle's gain," said Director Designate Michael Anastasio. "I know Lab employees join me in wishing him the very best."

Bob Kuckuck, former deputy director for Operations and now the acting deputy administrator for the National Nuclear Security Administration, similarly praised his former colleague.

"I found him to be one of the most classy, high-integrity individuals I've ever met," Kuckuck said. "He was a great team player. We were able to work together and put Lab resources where they belonged. He was just an incredible partner to work with."

Kuckuck, who said he enjoys kidding around with people, said he wasn't sure how his humor would go over with Wadsworth when they first met.

"But I soon realized not only was he not bothered by my humor, he was getting better at putting me down than I was him. Working together with Jeff and Bruce, we really developed a great rapport. It made



NEWSLINE FILE PHOTO

Wadsworth served as chair of the 1994 HOME campaign, taking time to volunteer time with Kaleidoscope, which benefits developmentally disabled children.

the job quite fun."

Wadsworth started at the Lab in 1992 as an assistant AD in Chemistry & Materials Science. He was named AD in 1994 and in 1996, Tarter tapped him to serve as deputy director for Science & Technology.

In this capacity, he has had a broad impact on the Laboratory, overseeing a wide range of interests, from the quality and administration of science and technology Labwide to developing and implementing strategic plans for programmatic, operational and human resource components. He was also responsible for directly overseeing the Laboratory Directed Research and Development Program, University Relations, the Planning, Policy and Special Studies Office, the Department of Defense Office, and the DOE Joint Genome Institute.

Friends and colleagues say Wadsworth has contributed much to the success of the Lab during the last decade.

"He has done an outstanding job," said Chris Gatrousis, who retired from the Lab in 1993 as AD for Chemistry & Materials Science. "When I retired, I strongly recommended Jeff for the (AD) job, and he was a magnificent associate director.

He is an extremely talented and likable individual. Unfortunately his career at the Lab was too short. He has a very bright future ahead of him."

Gatrousis, who served on review panels with Wadsworth in the 1980s, said he started recruiting Wadsworth to work for him in 1985 and finally hired him in 1992.

"He's a very bright individual. His stay in Chemistry was short because the Lab recognized he was very talented," Gatrousis said. "His interactions with the university and outside community were tremendously helpful to the Lab."

Phil Schultz, the Lab's chief financial officer, said Wadsworth is one of the few scientists who understands the difference between a tax and a distributed charge.

"Jeff is a bit of a rarity — a scientist with a keen business sense," Schultz said. "I think very highly of him. He's a very quick learner and has high integrity. He has a unique combination of skills, knowledge and ability and he used them wisely to enhance scientific research investments throughout the Lab. And for a Brit, he has a pretty good sense of humor," he added with a laugh.

During his career, Wadsworth reorganized Chemistry & Materials Science, he served as the Lab's representative in the tri-lab management structure of the Joint Genome Institute, and he helped establish, with Tarter, the Science & Technology Award and the Edward Teller Fellowship Award. Both of those awards have been in place for three years and are considered tremendously successful.

"Jeff is a really strong leader. He's always been a strong proponent of science and strong advocate for the Laboratory," said Lori Turpin, deputy AD for Chemistry & Materials Science. "He established the Lawrence Fellowship Program and that's going to be a lasting legacy."

Wadsworth has also been a strong advocate for young scientists at the Lab, working hard to strengthen programs to recruit the Lab's future.

"Both internally and externally, he has been superb in his job. He is a rallying point for young sci-

See CAREER, page 12

WADSWORTH

Continued from page 1

noted.

"My 10 years at Livermore have been fantastic and it has been a privilege to work with the employees here. I am looking forward to new challenges at Battelle," he added.

At Battelle, Wadsworth will join the technology development and commercialization organization as a senior executive, focusing on helping build its broad technology and business base in government and commercial markets.

"Jeff Wadsworth in an outstanding addition to the Battelle team," said Carl F. Kohrt, Battelle president and CEO. "His science and technology credentials are outstanding and his knowledge of government and commercial markets will be of great value to Battelle and its customers."

For the text of Wadsworth's resignation letter, please see the box at the right.

June 24, 2002

Dr. C. Bruce Tarter, Director
Lawrence Livermore National Laboratory
Livermore, CA 94551

Dear Bruce,

After ten wonderful years at the Lawrence Livermore National Laboratory, I have decided to pursue a new and exciting opportunity that has been offered to me by Battelle. Accordingly, by means of this letter, I am resigning from the Laboratory. I have discussed with the new Director, Mike Anastasio, a specific departure time in the July/August timeframe. This will allow for the transition of my current responsibilities in the most effective manner possible.

Chris Gatrousis first gave me the opportunity to join the Laboratory in 1992 and I am forever indebted to him for doing so. In 1994, I was honored when John Nuckolls selected me to be the Associate Director for Chemistry and Materials Science. Then, in 1996, I joined the Director's Office at your invitation to be the Deputy Director for Science and Technology. Through this letter, I would like to thank each of you, as well as all the people at the Laboratory, who have made the last ten years so special.

I obviously leave with some regrets. From the moment I joined the Laboratory in 1992, I have felt that it was a very special place indeed. I think it is fair to say that I have enjoyed being here to a degree that is difficult to put into words. The work was stimulating and exciting, the challenges were immense, and the achievements were significant; I hope that in some small way my contributions helped in this latter regard. Above all, it is my sincere belief that our people, across every series and every classification, are of a quality and have a dedication that is simply the best I have ever encountered.

During the uncertainties of the last several months, I received numerous letters, emails, and phone calls expressing support and encouragement. Through this letter, I would also like to thank those employees. I know I will enjoy, for many years to come, the friendships I made at what I firmly believe is one of the greatest Laboratories in the world.

Sincerely,
Jeffrey Wadsworth

CLASSIFIED ADS

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

1991 Honda Civic, LX 4 door, AT, AC, Power Windows, Cruise Control, Good Condition, 135 K Miles, \$3100 925-443-5044

1989 - Cadillac Sedan Divlle, Black with Gray interior. Engine and trans 60k miles. Runs and looks Great. Everything works \$3,000 OBO 925-698-5473

1989 - Saab 9000, Black/Tan, A/T, Runs well, needs misc work, High mileage, \$1,750.00 or B/O 209-236-1691

1994 - Infiniti G20. White with beige leather interior. Automatic, 2 dr, sunroof, CD player, A/C. All power. 118,000 miles. \$6000 O.B.O. 925-634-7362

1995 - Plymouth Neon 4D Sport. 5-speed manual. Cruise control, AC, ABS, Air bags, sports rack. Good condition. \$3300. 925-455-5672

1986 - Plymouth Reliant 4-door sedan, 4-cylinder engine, power steering, am/fm/cassette. \$450 or best offer. 925-292-1595

1971 - Porsche 911 Targa, Black, needs brake work and interior restoration, otherwise fairly good condition. 8K invested, 5K or Best Offer takes it. 925-443-4895

1992 - BMW 525i, 5 spd, only 63.5k mi, air, am-fm cass, cruise, power seats, windows and locks, new tires. Exc cond \$13,900 obo 209-814-4757

1992 - Jeep Wrangler, 4.0L, hard top, air cond, 5spd, hitch, lift, new 32 inch BFG Mud Terrains, 108K mi, 1 owner, always garaged, \$6900. 925-443-0499

1990 - Plymouth Grand Voyager LE, 140K miles, V6, runs well, rebuilt trans., seats 7, PS/PW/PL. Needs paint/AC work. \$1599. 925-606-1637

1987 - 1987 Nissan Stanza GXE 4-dr. hatch-back sedan. Original owner, A/C, P/S, P/W, P/DL, C/C, AM/FM, stereo cass, 76K orig. mi. X-COND, \$3000 925-447-5399

1996 - Ford Escort LX, 2 door Hatchback, 76k miles, spoiler, white, P/S, A/C, A/T, AM/FM Cass, Great Cond, Great MPG, \$4200 obo 925-462-9427

1999 - Reduced to Sell: Ford Mustang Convertible, Excellent Condition, Silver/Black, V6, AT, AC, CD, power everything. 32k miles, \$14500.00 obo. 925-513-9332

1985 - Honda Civic Wagon original owner, Runs Great 111,525 miles, A/C, AM/FM Cassette, Roof Rack, 5 speed. Needs front seat covers. \$1,600 or Best Offer 925-443-4360

1995 - GMC Safari Van, Extended, 8 Pass., AWD, Loaded, SLT trim, new tires brakes, tuneup, 123k miles, high book \$10,600, \$8300. 209-599-4644

2000 - Toyota Sienna XLE, very nice, leather, towing, roof rack, power slider, fully loaded. 32.8K mi., still under B2B warranty, \$24,500 OBO. 925-373-7434

1992 - Toyota Tercel, runs great! \$2000 OBO 925-447-9353

1989 - Honda Accord LXI. 170K miles. A/C, sunroof, cassette. Black. Paint not great, but the car runs great. Clean. \$2350 OBO. 925-454-9627

Weiand Xcellerator manifold for big block Chevy and Holley 650 cfm double pumper carburetor, \$200 925-455-8609

5 alloy rims for a 1988-1993 Mustang with 225x65 R15 tires. Can be used on other cars that desire a 15x7 inch 4-lug wheel. Only \$50 925-455-8238

Car Stereo-KENWOOD KDC-7165. CD receiver w/hidden faceplate. Used 9 Mos. \$200.00. Call after 4:30 pm. 209-836-0174

Fram Oil Filters(4) for Honda Accord 1982-2002, Equivalent to PH 2593, \$2ea 925-443-5565

CAMPER SHELL with camping kit. Fits 6ft x 5ft truck beds. \$75 or best offer. 925-449-4493

15 inch Six bolt Pickup TRUCK WHEELS, steel, 2 for \$30 Livermore 925-447-7070

Four Mountain Bikes, Great for cabin or here at the lab. 2 mens/2 womans All in good condition \$40. each or all 4 for \$125. 925-443-4895

20in BMX gray Diamondback, \$95; 27in blue Centurian Lemans, good commute bike, \$60; 16in Red beginners, \$35. 925-443-3106

1999 Sea Doo 17ft 4 passenger boat. Twin engines, bimini top, low hours, great cond. Asking \$9,900. 925-455-8108

1994 Sea-Doo 2seater for Sale. \$1250 nego. Good condition. 209-629-3630

KAYAK, 17ft, Aquaterra Perception. Polypropylene, Upgrade paddle / spray skirt. Inc car top foam cradles. Used 8-10X. \$750.00 new, asking \$250.00 925-634-4414

External SCSI CD-RW drive (Yamaha CRW4416S). Burn CDs with that older Mac or PC. Software included. \$75. 925-454-8827

19 in. Samsung TV. Front/Rear AV Jacks with Headphone on front. 3 Months old, Want a bigger one. \$140 OBO 209-833-4429

Pair of Klipsch Heresy Speakers, Golden Oak Stain with Optional Stands \$450. BIC Venturi Formula 4s \$175. All in good condition 925-443-4895

Nintendo 64, five games, two controllers, rumble pack, all for \$80. 925-484-9028

Microfiche - reader and copier. Like new. \$100. 209-835-1171

Handspring Visor Deluxe with leather case, cradle, stylus, lots of software, batteries. \$110. 925-960-9624

Fisher studio standard AM/FM digital receiver, dual cassette deck; single CD player; two bass reflex speakers, all excellent condition \$150.00 OBO. 925-371-6592

Labtec amplified speaker, APC back-up, 5 keyboards, tape recorder-reel to reel Brother Word Processor 925-735-6002

Reel to reel, 7 inch tape player, Ampex model A423 \$150.00 obo Garrard record turntable, gear type \$50.00 obo 925-447-4521

DVD Player, Sony DVP-S530D, \$50 Laser Disk Player, Pioneer CLD-406, plays both sides, \$50 925-935-5004

Fluke Type 87 Multimeter with several attachments. Hardly used. \$200 Leave Message. 925-989-6299

Console 25 inch television with remote. Works well. \$30.00 925-961-1089

FREE - double mattress and box spring with standard metal frame. Good condition. You pick up. 925-837-1770

Weight bench and rack free to good home. In great condition. 925-447-1977

Moving? Need boxes? Help us recycle through reuse. Free. First come first served as long as they last. 925-371-0369

Sleeper sofa. 8 foot, dark blue. Good condition. Comfortable. Might be able to help move. Also, drafting table, desk chair, patio chairs. 925-867-9411

Oak computer desk/cart on caster w/pullout trays for keyboard and printer. Space for CPU. Paid \$175 - sell for \$100 925-447-8613

3-in-one pool table, ping-pong table, hockey table by Fisher Price, \$40; Boys 20 in Bicycle, \$20; Infant play yard (playpen), \$20. 925-455-6516

1984 Little Litton microwave. Beige with black face. \$10. 925-455-5672

Maytag Washer, Super Capacity/Heavy Duty. Less than 3 years old. Excellent condition. Extended parts & labor warranty until 10/2006. \$300/best. 925-961-0696

Bread Maker, Toaster Oven, Pots/Pans and other misc kitchen things. Call for details on all. 209-833-4429

Kenmore side/side refrig/frz. \$500. Printer table, \$20 or trade for small kitchen table. Tall bookcase, \$10. - In Manteca - Melony 209-606-3892

Whirlpool cooktop, with indoor bbq grill, \$50 obo. Broan, 48 in. sst fan hood (350 cfm), \$40 obo. All in good condition. 925-830-0323

Baby Equipment - changing table, bouncy seat, jumper, bath tubs, strollers (peg perego & umbrella), etc. All in good condition. 925-606-4363

Zoo-Phonics Phonics teaching used by Pleasanton SD. Complete parent kit: video, flash cards, games, more. New in box, \$150. 925-462-5202

Kenmore Elite Glass Top Range and GE Profiler Convection Oven/Microwave (dual wallunit). Both white, used only 1 yr. \$600. Excellent condition. 925-846-9515

Oak entertainment center 5ft. X 5ft. X 2ft. deep, shelves and drawers \$200.00 obo 925-447-4521

Oak: Bookcase: 85inx61inx25in, Bookcase: 72inx48inx12in, Entertainment Unit: 72inx59inx16.75in, TV slot is 26inx27.25inx16in. Excel. cond. \$350/O 925-449-3478

Typewriter desk, 2 Printer tables, VHS tape storage cabinet, and other furniture 925-846-5389

Crib, excellent condition, light color wood, \$100; glider w/foot rest, blue fabric, like new, \$50. 925-454-9116

Mirror, Hi-quality 33 X 52 inches \$10 Greenhouse Window, 1 shelf, 36W X 42H, Brown anodized aluminum, single pane \$20 925-552-6684

Thomasville Dining Room Table, Circa 1940, 40 in. X 60 in. with (3) 12 in. leaves. Six chairs and table pads. \$850.00. (925) 846-5460 or 209-727-3990

Washer, Kenmore, \$75. Good Condition. Combining households do not need two. 510-713-9873

BEDROOM SET, Solid pine, king size headboard with shelves, one nightstand, dresser with hutch and mirror, \$500. 925-449-8124

GIANTS vs Expos at Pac Bell: Sat Aug 24th. 4 killer seats near dugout LB126 row 5. Plus parking pass. \$45 for all. 925-829-1474

Lost - prescription glasses in yellow cloth case in Central cafeteria parking lot. 510-582-7453

Lost - Sony portable CD Player and Car Player Kit. Left in Lab Bike basket several weeks ago. 925-284-4318

Local artist Norma Webb 32x44 painting - barn in hills \$150, Maria Pascal watercolors/Pleasanton downtown \$75 each(2). California wine map 23x35 \$75 925-447-8613

Original Baby Jogger three-wheel jogging stroller. Easy to push. Excellent condition. \$125. 925-454-8827

Giants ticket for Tuesday, July 16th, day game vs the Arizona Diamondbacks. AAA Club Level ticket in section 230. \$35. Call Rich. 925-689-9389

Grey Bucket Seat from an 80is Honda Accord, \$15. FasTrac Exercise Machine, \$15. In Manteca. Melony 209-606-3892

Nautical, ships clock with a ships bell striking mechanism. \$100.00 Also have other nautical items. 925-447-6099

Interior door, 30 in., with frame and bronze hardware, \$20 obo. Two glass chandeliers, with downlights, \$30 and \$40 ea obo. All in good condition. 925-830-0323

Baseball Cards - Mint condition. Complete sets from late 80s & early 90s. 20% off Beckett. 209-832-0332

3.5C DIAMOND RING- Magnificent 2.5C Pear center (11 clarity/J-K color), 1C full, baguette cut accents (SI/H-I). Appraised @ 24,950. Asking \$14,950! 209-545-7906

Garage Sale Sat. 6/29 from 9 -4. 147 Continente Ave. Brentwood. Everything from A-Z. A lot of Baby items. 925-240-5336

Childs tractor sandbox. Great condition. \$15.00 925-449-3499

Ten Inch Craftsman Table Saw. Old but still in great shape. \$ 50.00 925-373-8360

Atlas mini lathe, 3 X 16 \$250.00 Traditional industrial sewing machine, Janome free arm with walking foot, new still in box \$350.00 obo 925-684-3709

Cabinet, solid walnut, 4 sliding doors in front, 58 inches long, 32 inches tall, 21 inches deep, \$125.00 obo 925-447-4521

Pleasanton Estate Sale. Sat Jun 29, 8am-2pm. Hacienda Mobile Home Park, 3231 Vineyard Ave #73. Household items, furniture, electronics, lots more. 925-846-3653

Commercial Soda Machine - Great Shape 209-479-1917

Flat File, metal, E-size, 42d X 52w X 18t with nice wooden stand, Beige in color. asking \$60 925-552-6684

Garage Door Opener, 1/2 HP, Craftsman, complete w/ 2 remotes \$55 Jig Saw, Dremel, w/stand, used a few times, cost \$130 - sell \$75 925-552-6684

Electric Lift Chair. Used less than three months, light beige fabric. \$350.00 firm.

925-846-5460 or 209-727-3990

49er tickets (2) preseason, face value \$58/ea. 8/10 vs KC Chiefs 6p; 8/28 vs SD Chargers 6p. 925-447-6784

GIANTS vs Rockies at Pac Bell: Sun July 14th. 4 killer seats, near dugout, LB126 row 5. Plus free parking pass. \$45 for all. 925-829-1474

1996 - HARLEY DAVIDSON SOFTAIL CUSTOM, Black/chrome, SAMSON pipes, hyper-charger, perfect, low miles, a must see, too much to list. Call for details \$19,500 209-234-0370

1984 - Honda V65 Sabre, Excellent condition! 1100CC, V-4, L.C.; Shaft drive; wind-screen, tankbag, great commuter, always garaged, low, low miles \$2,600.00 OBO 925-371-6592

1985 - Honda CMX250 Rebel. Low miles. Great for first bike. \$900. Leave Message. 925-989-6199

1984 - Honda VT700C Shadow. Low Miles, Newly covered seat. \$800 Leave Message. 925-989-6299

1972 - Bullaco Lobito Mod. 84. 175cc, two-stroke, street-legal enduro. \$350. Bullaco Alpina Mod. 85-engine, carb, frame and swingarm. \$200. or both \$500. 925-600-1817

Upright Piano, Europa by Bechstein. 5 years old. Excellent sound and action, perfect for intermediate and advanced pianists. \$5,500. 925-455-6516

Wurliter Spinet Piano. In good shape. \$200 925-443-0902

Lowrey electronic organ, consul, GX Model G-400, excellent condition. Purchased for \$900+ in 1987. Sell for \$950 OBO. 925-846-3653

Hammond Organ with Two Leslie Speakers. Make offer. 925-846-5389

Crown Reed organ, antique ca. 1912, functional, good condition, stool needs repair, original finish, \$990/B.O. 925-443-3106

12x12 run-in shed. Paid \$1300 asking \$800. 2 African pygmy goat bucks, not registered \$50ea. 2 two story rodent cages, like new! \$10ea. 209-239-2639

Four year old female Queensland Healer/Lab mix, free to good home. House trained, good with kids, and all shots up to date. 925-443-0902

250 gallon aquarium. Pump, box filter, oak stand and canopy asking \$2500.00 open to offers. 925-447-5831

Retiring Lab employee plans travels and needs home for beautiful, healthy indoor calico cat. Can you help? 925-837-6719

Expedition Jogging Stroller by Baby Trend. Used very little. Cost \$110 new. Check out on Amazon.com. Asking \$75. 925-294-5828

Rainbow system swingset, excellent condition. Assembly directions included. \$700 you move, \$1000, I move but you set up. 925-978-0808

Army tent, olive drab color, octagon shape, about 20ft. diameter, canvas cloth \$95.00 obo 925-447-4521

Heavy duty steel weight bench with incline adjustments. \$30.00 925-961-1089

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

Stockton - Victory Park departure. Rider/Driver wanted for three person carpool. Lab arrival at 7:15 A.M., departure at 4:00 P.M. 209-931-6836, ext. 2-0356

Modesto - Luxury commuter van with captain chairs, reading lights, etc. 8-4:30 schedule. \$112/mo or save more by helping to drive. 209-521-9047, ext. 2-5177

Cupertino/Sunnyvale - Carpool Cupertino/DeAnza area to LLNL 8:00 - 4:45 408-257-6850, ext. 4-4527

Concrete: Custom, stamped, colored, foundations, flatwork & more. Lic#787092-B.

Over 20 yrs exp. Have portfolio. Free estimates. 209-833-8309

Interior/Exterior house painting service. Call Student Works Painting. Free estimates available. Fully licensed, insured, & workmans comp. 925-360-8838

Swim Lessons in Tracy area from college senior. Experienced with children and adults. 4 ea half hour lessons, \$65. 209-835-5031

House Cleaning- Over 15 years ex., and excellent references. Prefer Danville, Alamo, Walnut Creek, Concord and Pittsburg areas. 925-777-1821

Pet/House Sitting. Responsible, mature, experienced, avail. in Tri-Valley area. 925-606-0693

Wanted: Housecleaner for 3 Homes every other week, Near Lab, \$10/hr, ~2.5 hrs per house 925-371-5576

Do you need a Babysitter or someone to adult care (Livermore area)? Call evenings 925-371-1660

Livermore - Need roommate to share two bedroom house on N st in Livermore. Share would be 800.00 Mo.Plus Utilities, 925-944-8174

Livermore - 1 bedroom apartment for rent, \$750 per month, \$750 deposit, very nice & quiet, landlord prefers lab employees. 925-275-9598

Livermore - Room available in a three bdrm home 5 minutes from LLNL full privileges computer hook-up available \$600.00 + 1/4 utilities. 925-371-0911

1982 - Ford F150 Pickup w/extended cab, 96,000 miles, 5.8l V8 engine, AC, AT, cruise control, dual gas tanks, camper shell. Runs great, looks good: \$3,000. 925-455-6516

1985 - Coleman tent trailer. Sleeps 6. Very good condition. \$1,500. Call after 5 P.M. 925-706-8179

1979 - 23ft. Dodge Fireball Class C Motorhome, sleeps 6, 40K miles on 454 engine, good condition inside and out \$3800. OBO 925-443-4895

1993 - Ford F250, 460, 5 Speed, Extended Cab, Long Bed, AC, CC, Tilt, CD, 64,000 miles and in Great Condition. \$14,000. 209-892-6720

1965 - Jeep CJ5, Yellow, newer tires, new brakes, 2 tops, soft top & bikini, 2 sets of drs, jamboree rack, small block buick V6, garaged must sell \$4800 obo 209-832-2150

Oregon, Waldport - Oceanfront, all windows, 4 bed, 3 bath, fireplace, fully equipped. 510-483-3745

Puerto Vallarta-Oceanfront 2BD/2BA condo, all amenities, beautiful views of the Pacific and oceanside pools. Available Jan 2 - Jan 9, 2003. \$700 209-545-1308

SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, newly remodeled, nicely furnished, all amenities, Park with Lake, tennis, playground, Great for families! Reserve Now! 209-599-4644

1999 Chevy Suburban LT, Pewter or White, barn doors, <60k mi., very good cond. well taken care of, reasonable price. 925-373-7434

need gardener for pruning, trimming trees, shrubs. Byron area. 925-516-6379

Old jukeboxes, radios, gramophones, music boxes, etc. All or Parts 925-449-0388

Help wanted with residential yard fence repair work. 925-447-6728

Mountain Bike for 5-foot 10-inch rider (male), 15-speed or greater. Must be in good working condition. 925-961-0696

Small round kitchen table. Chairs not necessary. Reasonably priced. 209-606-3892

Any and all home wine making equipment for enthusiastic beginners. Containers, devices, tools, supplies, books, whatever! Will even take advice! 925-449-3165

Yard play equipment for child: monkey bars, swings, etc. 925-449-3499

Searching for 1972 Livermore High Classmates. 30 year reunion is scheduled for Oct. 12, 2002. Contact: LHS1972reunion@aol.com

Wanted- Person to help with yardwork, painting, auto repair, odd jobs, weekends or evenings Livermore or Pleasanton 925-846-5060

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

Friday
28**ENERGETIC MATERIALS CENTER**

"The FBI Explosives Unit - Operations and Interests in Improvised Explosives and Improvised Explosive Devices," Michael Leone and Kirk Yeager, FBI Explosives Unit. 9 a.m., Bldg. 132, room 1000 (cleared area). Contact: Sue Stacy, 4-2607.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"The Reduced-Description Particle-in-Cell Method for Modeling Laser-Driven Parametric Instabilities," by Hoanh Vu, UC San Diego. 10 a.m., Bldg. 451, room 1025 (property protection area). Seminars are sponsored by the Institute for Scientific Computing Research (ISCR). Contacts: Xabier Garaizar (CASC) 3-1521, or Leslie Bills 3-8927. For more information see go to <http://www.llnl.gov/casc/calendar.shtml>.

PHYSICS AND ADVANCED TECHNOLOGIES/IGPP

"Internal Dynamics of Dwarf Elliptical Galaxies," by Marla Geha, UC Santa Cruz. Noon, Bldg. 319, room 205 (Badge required). Refreshments will be served. Contacts: Adam Stanford, 3-6013 or Sandra Maldonado, 3-0621.

CHEMISTRY & MATERIALS SCIENCE

Brown Bag Seminar; "Synthesis and

Formulation of Energetic Materials," by Phil Pagoria Group Leader, Synthesis and Formulation, CMS Energetic Materials Program Element, LLNL. Noon, Building 151, room 1209 (Stevenson Room), grey area. Contact: Tony Esposito, 4-3497 or Linda Jones, 3-8839.

Monday
1**ELECTRONICS ENGINEERING TECHNOLOGIES DIVISION**

"Stochastic Models for Internet Traffic," by Dragan Radulovic. 9:30 a.m., Bldg. 141, room 1104 (uncleared area). Contact: Steve Azevedo, 2-8538.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

"Convergence and Non-convergence in Algorithms for Prediction," by Van Faber, Mapping Science, Inc. 10 a.m., Bldg. 451, room 1025 (property protection area). Contacts: Celeste Matarazzo (NAIC), 3-9838, or Leslie Bills 3-8927. For more information see URL (<http://www.llnl.gov/casc/calendar.shtml>).

Tuesday
11**INSTITUTE FOR LASER SCIENCE AND APPLICATIONS**

"Scientific Applications of the Jefferson Lab Free Electron Laser," by Gwyn P. Williams, Jefferson Lab. 3 p.m., Bldg. 219, room 163 (Badge required). Contacts: Fred Hartemann, 3-3398 or Josie Morgado, 3-4188.

Monday
15**ELECTRONICS ENGINEERING TECHNOLOGIES DIVISION**

"Information Content of Data Types in Time-Domain Optical Tomography," by Angel R. Pineda (interview candidate). 9:30 a.m., Bldg. 141, room 1104. Contact: Steve Azevedo, 2-8538.

Thursday
18**PHYSICS AND ADVANCED TECHNOLOGIES/N DIVISION**

"BO Lifetime and Mixing with Semileptonic Decays at BaBar," by Chih-Hsiang Cheng, Stanford Linear Accelerator Center. 1:30 p.m., Bldg. 211, room 227. Contacts: Doug Wright, 3-2347 or Pat Smith, 2-0920.

Monday
22**BIOLOGY & BIOTECHNOLOGY RESEARCH PROGRAM (BBRP)**

"Structure and Molecular Mechanism of Novel Enzymes of Spore-forming Bacteria: Genome-based Threat Agent Medical Countermeasures," by Mark J. Jedrzejewski, associate scientist, Children's Hospital Oakland Research Institute 1:30 p.m., Bldg. 361, room 1155 (uncleared area). Contacts: Jim Felton, 2-5656 or Karen Fink 2-7295.

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

New security Website offers ISSM 'one stop shop'

The new Safeguards and Security ProgramWeb site, "Your Guide to Safeguards and Security at the Lab," is now available on the Web at <http://www-r.llnl.gov/securityprogram/> (or just type the shortcut "security" into your browser's address window). This site is also available as the primary security link on the MyLLNL Website.

The new security site is a primary mechanism in the deployment of Integrated Safeguards and Security Management (ISSM), which will be in place at the Lab by the end of this year to help employees integrate security into all aspects of their work. Feedback from employee focus groups conducted last year indicated that the lack of a single, dedicated security Website was a noteworthy impediment to employees working as securely as they could. The need for a "one-stop shop" was realized, and now has been filled.

Those familiar with the Lab's previous

security Websites will find it all here: a combination of the Safeguards and Security Department and Safeguards and Security Program sites, the soon-to-be-gone Grapevine security, and new ISSM-oriented material. The new site points to existing sites that tackle specific areas of safeguards and security in detail (such as classification and export control, classified document handling, and cyber security).

The security sites pointed to are listed by topic, and a new security index and security-specific search engine provide several options for finding just what you need. Old and outdated information has been removed, a process that will continue into the future.

In addition to providing access to all of the Lab's security Websites in one place, the new site makes available key resources that until now have been lacking. Most notably, "Security Roles, Responsibilities, and Authorities" are pre-

sent in PDF format. A host of feedback mechanisms present themselves, including a new security lessons-learned page, customer feedback form, a program security representatives Website and e-mail links. The site also features a security news section, which will be updated regularly.

As with any new site of this magnitude, your feedback is welcome and is needed to make these web pages as useful as possible.

Those who would rather make a phone call to get security information can dial 2-0100 to contact the Security Help Desk. The help desk also can put you in contact with your program security representative, your "in-the-field" security resource.

For questions about ISSM, contact Stu Jossey (jossey1@llnl.gov, 3-0876).

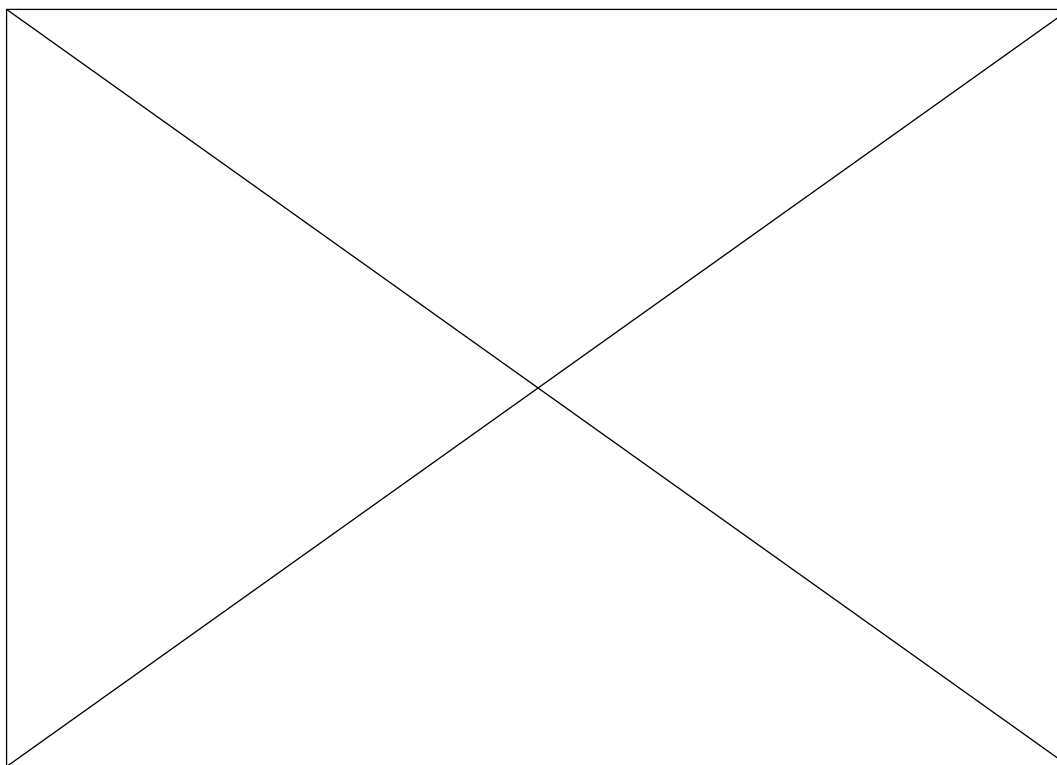
For questions about the maintenance or production of the Website, contact Jason Carpenter (carpenter13@llnl.gov).

LLESA offers UPS in response to employee survey

In response to the Employee Survey, "Assessing the Workplace," the LLESA Time Zone Office is now offering United Parcel Service (UPS) to Lab employees and LLESA members.

After reviewing employee input, the Work/Life Survey Action Team suggested bringing UPS shipping to the Lab as an employee time-saving service.

"Employees told us in their responses to the employee survey that services that could help save time would be highly valued," said Art Wong, acting department head of Staffing and Employee Development. Wong



ALI CARRIGAN/NEWSLINE

LLESA employee Jan Biehl (right) waits as retiree Bill Loewe fills out a form to send a package using UPS, now available through the Time Zone.

helped set up the service.

For employees or LLESA members who want to use UPS to ship a package, stop by the Time Zone office in Trailer 4128, fill out a shipping form and drop off your package, LLESA General Manager Ken Giannotti said.

For added convenience, designated parking spaces are available for Time Zone customers in the D-1 parking lot due to limited parking in the South Mall area.

Right now LLESA is only able to ship out packages, but Giannotti said he hopes that by early September, employees will also be able to receive packages through the Time Zone office.

"Through LLESA, we are always looking for ways to provide the services that employees want," Wong said. "These work/life services help shape the work environment for our employees. It is this culture that sets the Lab apart as an excellent place to work."

CAREER

Continued from page 9

entists at the Lab, for postdocs and for foreign nationals," said Laura Gilliom, director of the University Relations Program. "He has a deep commitment to mission-inspired basic research for this Lab. That's something that is very important to him. He's one of the most skilled people managers at the Lab and a gifted leader. He leaves some mighty big shoes to fill."

Elbert Branscomb, chief scientist for the DOE genome program and former director of the Joint Genome Institute, had the opportunity to work closely with Wadsworth.

"He is very visionary and has a great understanding of what I regard as the correct long-term issue of where science is going and where the national laboratories should be going," said Branscomb, who confessed he is a "Jeff Wadsworth zealot."

"He is a great manager and has tremendous integrity and forthrightness. He was a principal factor in making it possible for the JGI effort to go forward."

Don Correll, who has worked closely with Wadsworth for several years as director of the Lab's Science & Technology Education Program, said Wadsworth has been exceptionally supportive and encouraging of educational outreach efforts.

"He took it upon himself to enhance the work experience for all postdocs at the Lab," Correll said. "He played a principle role in getting the Edward Teller Education Center started. He started the Lawrence Postdoctoral Program and was personally involved in the final selection of fellows. He takes his job beyond his assignment and is highly regarded because of his credibility and sincerity. He will be missed from all parts of the Lab."

Born to British parents in Hamburg, Germany, Wadsworth had lived in Holland, India, Singapore, Aden (Yemen today), West Berlin, and England by age 16. He studied at the University of Sheffield in England and came to the United States to collaborate with Professor Oleg Sherby at Stanford University in 1976.

He earned his bachelor's degree and doctorate in metallurgy at Sheffield University in England. He was subsequently awarded a second doctorate in 1990 from Sheffield for published research in superplasticity of metals, especially aluminum alloys for aerospace applications and in high-temperature materials, and also on the history of Damascus steels.

Wadsworth worked at the Lockheed Missiles and Space Co. (now Lockheed Martin) from 1980 until he came to the Laboratory in 1992.

Wadsworth has served on numerous academic, industrial, professional society and government

councils and committees. He is a consulting professor in materials science and engineering at Stanford University and an adjunct professor at the UC Davis Department of Applied Science. He is the author or co-author of more than 260 scientific papers, one book and four U.S. patents.

Among his many awards and achievements, he was elected Fellow of The Minerals, Metals & Materials Society in 2000, an honor limited to 100 members.

In a recent talk, Wadsworth recalled how, as a student of metallurgy at the University of Sheffield, he had taken a great interest in research being conducted in the United States and California in particular.

"It's where a lot of the most advanced, exciting work was being done," he said. "At that time I sent for a paper reprint from Livermore Lab. That was the first time I saw this name 'Lawrence Livermore' and I remember thinking 'gee, that's really interesting, I wonder what Livermore is like and what that Lab's like?'"



GORDON

Continued from page 1

In his memo thanking employees, Gordon outlined the progress of NNSA since it was created two years ago. "We are stronger in all mission areas. Stockpile stewardship continues to ensure the safety, security, and reliability of our weapons — and the entire enterprise — while building a solid foundation for the decades to come.

"Our nonproliferation programs are accelerating cooperative programs with Russia, realizing new successes, and reaching into critical new arenas to make us all safer. And I am particularly proud of the response of the entire NNSA family to the events immediately following Sept. 11 and the creative and energetic support to homeland security ever since."

"The great accomplishments in establishing the NNSA and executing its missions are a direct result of Gen. Gordon's extraordinary leadership," said Director Designate Michael Anastasio. "His commitment to national security and the people across all of NNSA has been tireless. We will greatly miss him."

Energy Secretary Spencer Abraham also praised

Gordon's efforts in establishing the NNSA. "We have been able to get our national security programs back on track with a renewed focus and mission as a result of his dedication and hard work," Abraham said. "While we are sorry to lose John, the president has made an excellent choice and John leaves the NNSA on firm footing to continue to perform its vital missions."

Added John McTague, vice president of Laboratory Management for the University of California, "Few people get the opportunity to set the tone of an organization by serving as its founding leader. John Gordon has played that role in the past two years, putting a firm and very positive imprint on the new NNSA organization. John established important managerial features such as a five-year budgeting process. He successfully encouraged cooperation across the NNSA complex for higher efficiency and more effective performance.

"He showed a fine strategic vision of the role of science and technology in both traditional defense programs and the emerging homeland security effort," McTague added. "His positive personality carried over into his approach to management, making the transition to the new NNSA a cooperative and constructive process. We will miss him."

Newsline
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