Los Alamos NATIONAL LABORATORY EST.1943

NewsLetter

Week of June 20, 2005 Vol. 6, No. 13

Inside this issue ...

UC statement regarding the DOE extension of the university's contract to manage the Lab

In accordance with the authorization of the University of California Board of Regents in January 2004 to extend any of the existing lab contracts up to two years, the University of California, at the request of the Department of Energy, has received and executed an eight-month extension of the existing Los Alamos National Laboratory contract through May 31, 2006.

The University of California welcomes the extension and is pleased that it is now in place. We are aware that Laboratory employees are concerned about having the necessary information to make future personal decisions and hope this extension is of assistance to them. In the meantime, the UC and Bechtel-led team is aggressively preparing the proposal for submission to DOE for the competition for the future management of the Laboratory.

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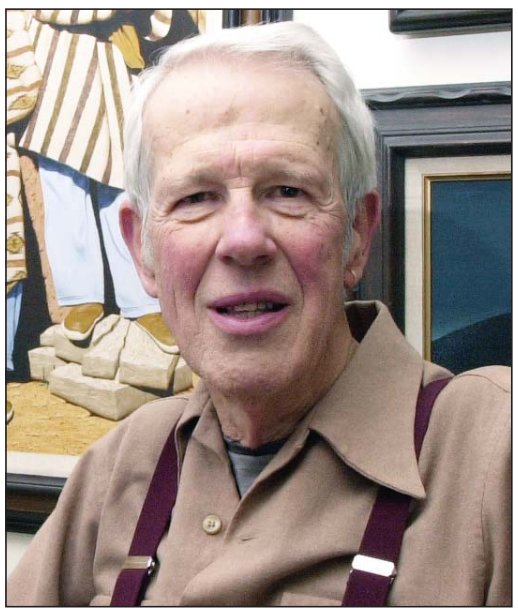

Frank Harlow

Conrad "Connie" Longmire

Harlow, Longmire awarded 2004 Los Alamos Medal

by Hildi T. Kelsey

Laboratory Fellow Francis "Frank" Harlow and Conrad "Connie" Longmire, both Lab retirees, are each the recipient of a 2004 Los Alamos Medal. A formal awards ceremony and reception will be held at 4 p.m., June 27 on the second floor of the J. Robert Oppenheimer Study Center. Director Robert Kuckuck will present the medals to Harlow and Longmire during the event. The Los Alamos Medal is the highest honor the Laboratory can bestow upon an individual or small group.

Nominees for the medal are judged on strict selection criteria that include making a contribution that changed the course of science, facilitating a major enhancement of the Laboratory's ability to accomplish its mission, having a significant impact on Lab sustainability and establishing a major direction for Los Alamos and/or the nation.

Harlow arrived at Los Alamos in 1953 with a newly awarded doctorate in quantum field theory. A theoretical physicist in Los Alamos' Theoretical (T) Division for more than 50 years, he is credited with giving birth to the science of computational fluid dynamics. Harlow has worked on problems of turbulence and the hydrodynamic properties of materials and has developed computer-based problem-solving techniques used in a multitude of applications worldwide. For example, he developed the Particle-in-Cell method for computing two-dimensional highly distorted compressible flows found in nuclear weapons design. He was appointed group leader of Computational Fluid Dynamics (T-3) in 1959 and was honored as a Laboratory Fellow in 1981. Harlow also is a Fellow of the American Physical Society and received the Japanese Society of Mechanical Engineers Computational Mechanics Award for 2001. He has been a mentor to more than 150 students and has advised 15 doctoral candidates.

"The message here is that somebody can devote a whole lifetime to [the Lab] and have absolutely no regrets whatsoever," said Harlow. "It has been a fabulous place in terms of people, support, encouragement and freedom — for me that is really true. The people in the group [T-3] were especially important. Without them I would have been nothing."

Longmire, a weapons designer who worked in T Division from 1949 to 1969 and currently is a Lab associate, played a key role in developing an understanding of some of the fundamental processes in weapons performance. His work included the original detailed theoretical analysis of boosting and ignition of the first thermonuclear device. Longmire participated in the development of the theory supporting

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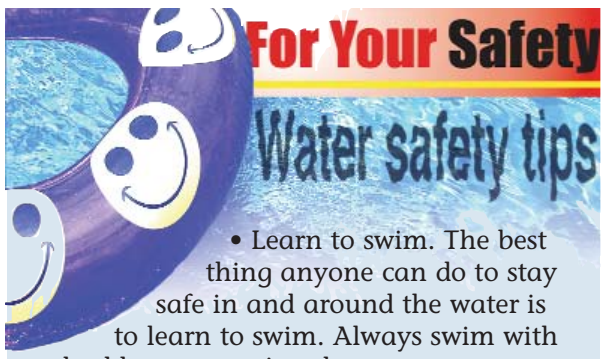

• Learn to swim. The best thing anyone can do to stay safe in and around the water is to learn to swim. Always swim with a buddy; never swim alone.

• Swim in areas supervised by a lifeguard.

• Read and obey all rules and posted signs.

• Children or inexperienced swimmers should take precautions, such as wearing a U.S. Coast Guard-approved personal floatation device when around the water.

• Watch out for the dangerous "too's" — too tired, too cold, too far from safety, too much sun, too much strenuous activity.

• Set water safety rules for the entire family based on swimming abilities (for example, inexperienced swimmers should stay in water less than chest deep).

• Be knowledgeable of the water environment and its potential hazards, such as deep and shallow areas, currents, depth charges, obstructions and where the entry and exit points are located. The more informed a person is, the more aware he or she will be of hazards and safe practices.

• Pay attention to local weather conditions and forecasts. Stop swimming at the first indication of bad weather.

• Use a feet-first entry when entering the water.

• Enter headfirst only when the area is clearly marked for diving and has no obstructions.

• Don't mix alcohol with swimming, diving or boating. Alcohol impairs judgment, balance and coordination, affects swimming and diving skills and reduces the body's ability to stay warm.

• Know how to prevent, recognize and respond to emergencies.

Source: American Red Cross

Los Alamos NEWSLETTER

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Los Alamos National Laboratory is operated by the University of California for the National Nuclear Security Administration (NNSA) of the U.S. Department of Energy and works in partnership with NNSA's Sandia and Lawrence Livermore national laboratories to support NNSA in its mission.

Los Alamos enhances global security by ensuring safety and confidence in the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction and improving the environmental and nuclear materials legacy of the Cold War. Los Alamos' capabilities assist the nation in addressing energy, environment, infrastructure and biological security problems.

National Nuclear Security Administration

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UC contract extended to May 2006

NNSA head calls Los Alamos 'national treasure'

Linton Brooks, Linton Brooks, National Nuclear Security Administration administrator

National Nuclear Security Administration Administrator Linton Brooks reassured employees about the contract competition process and announced the University of California will continue to manage the Laboratory for at least one more year at an all-employee meeting in the Administration Building Auditorium.

Brooks said the extension of the current management contract will allow those considering retirement and all Lab employees sufficient time to consider all options available to them after the winner of the new management contract is announced on Dec. 1.

"This (the contract extension) is intended to let you all act like scientists and make decisions based on data and not on fear," Brooks said.

Later in his remarks, Brooks pledged he would battle for key programs and for the health of Laboratory-Directed Research and Development funds, which he said currently are part of ongoing congressional budget negotiations. He characterized LDRD as a foundation of the U.S. nuclear deterrent.

"LDRD is maybe the most important investment we make in the future of American science," Brooks said.

"The weapons complex exists because of the importance of preserving the stockpile," said Brooks. "It's my belief that great stockpile stewardship grows out of great weapons science, and great weapons science grows out of great general science."

"It was the strong science base built up at Los Alamos through the LDRD program that was a key factor in the Laboratory's quick response to new technology requirements identified in the wake of the Sept. 11, 2001, attacks," Brooks said.

On other budget related notes, Brooks advised Laboratory staff that NNSA's budget for 2007 through 2012 will most likely be reduced by at least $3 billion and that was going to necessitate some tough decisions in the coming months.

Brooks discussed the Secretary of Energy Advisory Board study on consolidation, which is scheduled to be released for public comment shortly. A major planning study of the future NNSA complex, he predicted the impact of the study's recommendations would be

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UC Laboratory Security Panel meeting at Los Alamos

Jack Killeen, right, acting Security and Safeguards (S) Division leader, talks with James Geer, chairman of the University of California Laboratory Security Panel during a recent meeting at the Laboratory. Panel members received briefings on the Lab's classified media library operations and reducing use of classified removable electronic media, or CREM, and the nuclear materials safeguards and security upgrade project. *Photo by James E. Rickman*

Jon Michael Schwantes, seated right, of Isotope and Nuclear Chemistry (C-INC) asks Linton Brooks, National Nuclear Security Administration director, a question about morale during a meeting with Laboratory postdocs in the J. Robert Oppenheimer Study Center at Technical Area 3. Brooks met with postdocs after speaking to the work force in the Administration Building Auditorium. *Photos by LeRoy N. Sanchez*

UC contract …

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greater for production facilities than the laboratories.

Responding to a pointed question, Brooks apologized for characterizing the Laboratory as suffering from "a culture of noncompliance" in a recent report to Congress, acknowledging it as "an extremely poor choice of words." Offering further clarification Brooks stated, "I know the majority of the people here are trying to do the right thing."

Brook's tone sharpened while talking about recent media coverage. Counseling employees not to take too seriously the stream of negative reports about Los Alamos in newspapers and on television, he faulted media reports that spread rumors that the Laboratory might be on the chopping block and allegations that the Laboratory might have had something to do with the June 5 assault in Santa Fe of auditor Tommy Hook of the Prime Contract Office (PCO).

"I'm outraged at the slur on the Los Alamos Laboratory community," Brooks said. "I think the notion that there are people here who would do that is just despicable." He added that he is hoping for, but not necessarily expecting, a full apology from those who rushed to blamed the Laboratory for the beating.

"This is a great lab. I am proud to be associated, however remotely, with it," Brooks said.

Employees also heard about the contract competition process from Tyler Przyblek, chair of DOE's Source Evaluation Board, and asked numerous questions of Przyblek and SEB member Roberto Archuleta.

"It's the right thing to do," Przyblek said of the eight-month contract extension, from Sept. 30 to May 31, 2006, although he said he never could have imagined such a lengthy extension would be necessary when he began working on the request for proposals for Los Alamos.

Przyblek later explained that after the new contract is awarded in December, the successful bidder will be given until April 1, 2006, to specify details of the two new pension plans and

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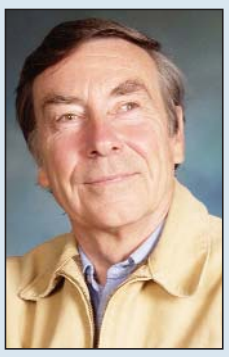
Enabling foundation–supported work at Los Alamos



by David H. Sharp, deputy chief science officer

Private foundations support highly innovative research on a broad range of subjects of interest to scientists at Los Alamos, and which are at the same time relevant to the Laboratory's national security mission. A quick look at the portfolio of a few foundations shows support for biomedical research, nanotechnology and quantum technology, to name just a few examples.

Many Los Alamos scientists would like to compete for foundation grants but have faced a hitherto insurmountable problem: the Laboratory's overhead pricing structure leads to charges well above the ceiling imposed by foundations.

Recently, the National Nuclear Security Administration's Los Alamos Site Office has agreed that [the Laboratory] may propose to LASO on a contract-by-contract basis, a reduced overhead rate for work performed for not-for-profit private foundations. Any such proposal must come with justification and must show benefit to the Laboratory and to NNSA. Thus, a mechanism is in place that enables Los Alamos scientists to compete for foundation grants, when the stipulations mentioned above are met. An important source of support for small scale, fundamental science can now be accessed. We encourage scientists at the Laboratory to look into the possibility of foundation support for their research.

We gratefully acknowledge the efforts of many people that led to the success of this initiative: staff scientists at the Laboratory, the Director's Office, Chief Financial Officer (CFO), Chief Science Officer (CSO) and the leadership of NNSA and the Los Alamos Site Office.

Update on Appendix F: Pollution prevention

by Carolyn Mangeng, associate Laboratory director for technical services

Not long ago, pollution prevention at the Laboratory meant recycle bins and aluminum can collections. Today our Pollution Prevention program, guided by Appendix F performance measures, has become a primary mechanism for the Laboratory to improve operations and reduce environmental risk.

Under one of its negotiated measures for determining how the University of California is performing under its prime contract, Appendix F calls for continuously improving our environmental performance. The P2 program is making important progress toward this goal.

We have transformed our P2 program from a reactive posture to one that is more proactive, realizing that the best place to avoid environmental risk is before waste is generated and that the people most qualified to make changes are process owners. This transformation has resulted in considerable savings for the Laboratory, positive operational changes and significant waste reductions.

For example, the P2 team, led by Denny Hjeresen and Pat Gallagher in the Environmental Stewardship (ENV) Division, has helped Lab organizations with the following projects, as a part of implementing Appendix F measure 8.3:

- The P2 team transformed the Generator Set Aside Fund into an upstream risk reduction tool by making the program peer-reviewed by generators and by funding waste generators' process improvements. The program, which includes liquid waste this year, is now a model for the Department of Energy complex.
- Instead of requesting that staff buy EPA-approved environmentally preferable products, the P2 team worked with the Supply Chain Management (SUP) Division to make such purchases automatic.
- The P2 team instituted a 10-year waste volume forecast, identifying high-risk waste streams and developing waste minimization projects, thus avoiding hundreds of cubic meters of radioactive waste while saving millions of dollars.
- The P2 team worked with the Engineering (ENG) Division to modify Lab engineering standards such that they require energy-efficient building features in new construction.

The efforts of Lab employees in pollution prevention have been outstanding. In the past two years, the Lab received nine national P2 awards from DOE. Just as important, process improvements made by Lab employees in more than 20 divisions saved the Lab $9.4 million in three years.

I want to emphasize that this remarkable accomplishment is the product of diligence, creativity and commitment of our employees. Their achievements contribute to the overall success and reputation of the Lab in protecting and improving our environment.

Group Leader Action Council pursues aggressive agenda

by Hildi T. Kelsey

The Group Leader Action Council, a committee of group leaders across directorates dedicated to identifying Labwide issues and developing solutions to improve the organization's overall performance, is pursuing an aggressive agenda this membership cycle. Spawned from an element of the Director's Performance Improvement Program in 2003, GLAC, which recently celebrated its second anniversary, maintains a "group leader focus" for improving business practices and ensuring that identified problems receive appropriate attention and action.

"We want group leaders to know that there's an organization out there trying to make their jobs doable," said GLAC Chair Brian Aubert of Weapons Response (ESA-WR).

According to GLAC members, this collaboration and cooperative spirit among different group leaders allows for the sharing of ideas across organizations, facilitating knowledge-sharing and innovative solutions. Additionally, GLAC acts as a mechanism for making recommendations from group leadership directly to senior management on an ongoing basis.

"It's not uncommon for me to go into a meeting and find that some of the concerns we had raised in the GLAC are now getting attention from senior management," said Aubert.

While some of the urgency that existed when the GLAC was formed has dissipated, current members say they are committed to tackling difficult issues, such as improving Facility Management/KSL interface with other line divisions, bolstering employee morale and compressing the performance and salary management exercise.

As one focus area, GLAC would like to revisit a previously decentralized aspect of the Lab's now centralized structure in terms of having personnel from organizations such as Facilities Management (FM) and Supply Chain Management (SUP) re-deployed. Aubert said GLAC members feel that since the centralization of support services, the teamwork between the programmatic and support organizations has been impacted. They contend that deployed service personnel are valuable to the line organizations, because these individuals exhibit pride of ownership. "When you work on a day-to-day basis with the people to whom you are providing services, it leads to a deeper commitment to finding effective solutions to difficult problems," Aubert said.

As part of this effort, GLAC currently is teaming with ADA to start two pilot projects to establish customer service agreements with Human Resources (HR) and Supply Chain Management (SUP) divisions. The intent is to ensure that both the programmatic and support organizations have clear expectations and defined performance metrics.

An additional initiative deals with proposed changes to the vacation accrual policy laid out in AM312 regarding the use-or-lose provision. GLAC has suggested that lost time, vacation time accrued beyond the maximum limit that cannot be transferred into sick leave, be converted into time for the catastrophic paid leave (CPL) bank.

In an e-mail to members of senior management, Aubert wrote, "CPL is widely regarded as a very positive benefit that the Lab community extends to our fellow employees who are undergoing a rough patch in their lives. Modifying the policy appears to be a no-cost means of increasing our ability to help co-workers in distress."

GLAC was notified that its input will be included for consideration in an upcoming policy-review session regarding AM312.

Along the same lines, GLAC is looking into bringing the line management role — signing off on travel, time and effort, small purchases and other administrative tasks — back to team leaders since they are the ones "who are much more familiar with the actual hands-on work taking place."

Raising awareness among members of senior management of the challenges faced at the group level, especially with span-of-control issues, is another priority. The Lab's executive board has broached the idea of changing the organizational structure so that all groups have the same number of people. "Span of control cannot be equated with the number of people in your organization," said Aubert.

"The real issue with span of control lies in the fact that requirements associated with an activity or a specific facility are virtually independent of the number of people you have. We are trying to get members of the executive board to understand it is about the proliferation of requirements more than the number of people in your group," he said.

Regarding GLAC's efforts, Aubert said, "Perhaps not all of GLAC's recommendations are implementable. Some may not agree with all of them, but we want to raise

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Who's on GLAC?

Member	Group
Brian Aubert	ESA-WR
Jean Dewart	ENV-ERS
Doug Fulton	P-23
Alan Hurd	LANSCE-12
Joy Moore	HR-D-WP
Paul Morris	IM-EP
Stan Prueitt	PM-4
Pete Silks	B-3
Sam Subbaswamy	PM-DS
Steve Tenbrink	CCN-5
Frank Timmes	T-6
Ron Wieneke	NMT-7
John Ziebarth	CCS-1

The smell of smoke and the buzz of aircraft using the Los Alamos Airport to load water and slurry recently were reminders that the summer threat of forest fires has returned to Northern New Mexico.

"The fuels and weather conditions have combined to raise the fire danger," said Manny L'Esperance of Emergency Management and Response (EMR). "The fuel types have changed due to our wet winter, and we're seeing grasses, tumbleweeds, bushes and other fine fuels that could support a fast-moving grass fire."

L'Esperance urged Laboratory employees who are working in wild land areas to be particularly cautious. "Be sure to check the Web page *http://int.lanl.gov/fire_matrix.html* for fire conditions, make sure that people know where you are going, be aware of your surroundings [and] plan escape routes to safety zones in the event a fire should break out," L'Esperance said.

He also emphasized the importance of maintaining communications with the office while in the field, so workers can be warned if conditions worsen or if a fire begins to burn in the area where they are working.

L'Esperance also cautioned Lab workers to beware of pulling an automobile off the side of the road into dry grass. "With the tall grasses the catalytic converter could spark a grass fire," he said.

While Los Alamos enjoyed a wetter winter than in recent years, regions farther north to Montana did not, and L'Esperance said that resources normally available for fire suppression in New Mexico have been moved to states where the threat of fire is greater. "We have one helicopter at Technical Area 49 and a single-engine tanker in Las Vegas," he said. "It could take up to four hours for heavy tanker response to Los Alamos."

Employees also should review shelter-in-place instructions as well as building evacuation plans to ensure they are prepared for any summer emergency.

Laboratory assists Forest Service

Emergency Management and Response (EMR) team members on the Interagency Wild Land Management Team recently assisted Forest and Park service staff in reopening the Dome Overlook fire station for the summer fire season. The facility stood unoccupied for a long period, meaning a thorough cleaning was needed to make it habitable.

"It's an important station for the Laboratory because it gives a better view of the Pajarito plateau and the entire Bandelier National Monument," said Manny L'Esperance of EMR. "That's why we pitched in to help clean it up, and our hazardous materials response group was a key part of the effort."

He explained that wildlife infestation, including rats and mice, made hazardous materials assistance crucial to preclude any of the workers contracting any diseases.

"Everything was removed from the station and it was thoroughly decontaminated," L'Esperance said. The Forest Service then replaced windows and stocked the lookout point to stand guard during the summer fire season.

UC contract …

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other employee benefits, so that current staff will have 60 days to study their options before the current contract expires.

Przyblek also addressed some key budget questions in a spirited exchange with employees concerned about details of the DOE's request for proposals and the new operating contract. He explained that the fee — between $53 and $79 million — to be awarded to the new contractor, along with projected new gross-receipts taxes owed to the state of New Mexico and other new contract expenses, will be part of the overall operating budget for whoever wins the right to run the Laboratory.

"The new contractor is going to have to manage all these expenses out of the same budget," Przyblek said.

GLAC …

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awareness of our concerns and the reasons why we are proposing these changes."

Previous advice from GLAC led to the creation of the Laboratory Policy Office, while other suggestions were incorporated into the safety management system, the I-Track and the nested safety process.

"I would like us to build on the political capital of [the first GLAC], which was very successful," said Aubert. "We are planning a great deal of brainstorming with GLAC members on top items to follow through on during the year."

In terms of the council's structure, GLAC's membership is dynamic — half of the membership is replaced by new members every six months, with new members serving for approximately one year. Membership is open to all group leaders (See sidebar on Page 4 for current members). To raise issues, voice concerns, provide suggestions and comments or participate in ongoing GLAC activities, contact any member of the council or write to *glac@lanl.gov* by e-mail.

Harlow, Longmire …

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research into controlled fusion while working on Project Sherwood, and he wrote Elementary Plasma Physics (one of the early textbooks on this topic). He also became the first person to work out a detailed theory of the generation and propagation of the electromagnetic pulse from nuclear weapons. Additionally, he was a recipient of the esteemed E.O. Lawrence award in 1961.

His son Patrick Longmire of Hydrology, Geochemistry and Geology (EES-6) said, "My father is a brilliant mathematician and physicist who has made very significant contributions to plasma physics and electromagnetic pulse phenomena. He continues to inspire his children, grandchildren, friends and colleagues in many ways." On a personal note he added, "My father also can competently play most of Earl Scrugg's compositions on the banjo."

Harlow and Longmire join past Los Alamos Medal winners Nobel Laureate Hans Bethe (who died earlier this year), former Laboratory Director Harold Agnew, Laboratory Fellow Nerses "Krik" Krikorian and Laboratory Fellows George Cowen and Louis Rosen in this distinction.

Caging the paper tiger

There's a roaring, menacing, employee-eating monster in your office! Caught it? The culprit is that everyday safety hazard: the paper tiger.

A disorganized office creates a minefield of tripping and falling possibilities. Between the mountains of paper, piles of books and teetering files, it's hard to work safely, let alone efficiently and effectively.

According to Amy Anderson, an employee assistance counselor with Occupational Medicine (HSR-2), "We have energy enhancers and energy drainers. Office clutter is an energy drainer. I recommend people carve out time to straighten their offices on a regular basis. Without the clutter around, people are more focused and can attend to the tasks at hand in a more effective way."

Use these tips to declare your workplace a clutter-free zone:

• Assess yourself. What prompts your disorganization — a lack of time, space or resources? A belief that disorganization and creativity go hand in hand? Chaos will recur unless you identify and address its root causes.

• Approach getting organized as an ongoing discipline, not a one-time action. It may take several months to change your mindset, clear out your clutter, build new organizational systems and practice new habits. Allot the time and energy needed to get it right.

• Ask for help from better-organized peers. Which of their tools, tricks or tips might work in your location and position?

• Use free moments to make incremental progress. Reviewing and filing a one-inch stack of paper may take only five minutes. However, multiply that action a few times a day over several weeks, and your desk might reappear.

For additional information, consult the resources below:

• HSR-2's Employee Assistance Program: 7-7339

• Employee Assistance Program Library:
  • "Conquering the Paper Pile-up" by Stephanie Culp
  • "How to Organize Your Work and Your Life" by Robert Moskowitz
  • "Taming the Paper Tiger" by Barbara Hemphill

Grant funds Northern New Mexico business initiative

Cristina McCandless of the Regional Development Corp., speaks at a news conference in Española to announce a $2 million grant from the W. K. Kellogg Foundation to fund a entrepreneurship development program in Northern New Mexico. The Laboratory, the RDC, state and local government, several educational institutions, including the University of California and other entities are part of the Empowering Business Spirit Initiative. At right in photo is Lillian Montoya-Rael, Community Relations Office (CRO) leader. "We see this initiative as a vehicle to bridge the Lab's resources with small business needs," Montoya-Rael said in a news release. Twenty participating organizations in Taos, San Miguel, Mora and Rio Arriba counties are part of the initiative, designed to build a small, business-friendly environment in Northern New Mexico. *Photo by LeRoy N. Sanchez*

Q: What was the last book you read (or are currently reading), and why did you select it?

Jolene Vigil of Small Purchases and Special Agreements (SUP-6)
"Sheep in a Jeep" to my kids for bedtime.

Paul D. Keyes of Enterprise Information Infrastructure (IM-3)
"Brilliance of the Moon (Tales of the Otori)" by Lian Hearn. I commute to work and I listen to books on MP3 to make the drive more bearable.

Amy Osburn of the Human Resources (HR) Division
"The Sisterhood of the Traveling Pants" by Ann Brashares. I like to read the books of an upcoming movie. The movie came out last week."

Greg Ogin of Biological and Quantum Physics (P-21)
"Time Enough for Love" by Heinlein. My mom recommended it to me.

Edel Minogue of Actinide, Catalysis and Separations Chemistry (C-SIC)
I'm currently reading "My Sister's Keeper" by Jodi Picoult. A friend recommended it to me."

Debra V. Garcia of the Research Library (STB-RL)
"Cold Fusion 7.0" in order to help me with my work and to be able to communicate in an intelligent manner with our Web application programmer."

Lisa Henne

Henne named to state water task force

Lisa Henne of Ecology (ENV-ECO) is the new secretary of the Governor's Blue Ribbon Water Task Force. Appointed through December 2006 by Gov. Bill Richardson, Henne succeeds Bob Vocke of the Environmental Stewardship Division Office (ENV-DO).

"It is a great opportunity for me to bring my educational background in environmental planning and policy evaluation into my career," Henne said of the appointment.

Elmer Salazar of the Technology Transfer Division also represents the Laboratory on the task force. He and **Bob Vocke** co-chaired the task force for its first six years of operation, and he currently serves as vice chair for the current task force. "In summary," Salazar noted, "the Laboratory has been and continues to be a key piece of bringing good science and technology to the challenges of water in New Mexico through our participation in the task force. Having Lisa join in this effort ensures that we continue to support this important effort for all of us as citizens of the State of New Mexico."

Established in 1998, the Blue Ribbon Water Task Force advises the governor on state water policy issues. According to Vocke, Laboratory participation on the Task Force has resulted in positive relationships with the Governor's Office, state agencies and task force members.

"The Laboratory is viewed as constructively contributing to the state's proactive management of its water resources for the general welfare of its citizens," said Vocke.

Henne also will replace Vocke as the Laboratory's representative to the Jemez y Sangre Regional Water Planning Council. This council created a regional water plan that was accepted by the Interstate Stream Commission in 2003. The plan assesses the available supply of clean and usable surface water to determine the populations demand for water, and to identify methods for meeting this projected demand through conservation, management, and acquisition of water or water rights. The Jemez y Sangre Council is now focusing on strategies for implementing the plan.

The Laboratory's Water Research Technical Assistance Office is supporting Henne's work on these initiatives.

"To be selected is a good feeling. I am looking forward to representing the Laboratory and working on the task force," stated Henne.

Henne has a bachelor's degree in biology, a master's degree in urban planning and a doctoral degree in regional planning from the University of Illinois, Urbana-Champaign. Henne's graduate research focused on assessment of human impacts on water resources and environmental policy evaluation.

Bozin receives Rosen Prize from LANSCE

Emil Bozin received the 2004 Louis Rosen Prize for his outstanding thesis research performed at the Los Alamos Neutron Science Center (LANSCE).

Bozin, who is currently a research associate at Michigan State University, will present an invited talk regarding his research at the LANSCE User Group meeting scheduled for Sept. 11-13 at LANSCE at Technical Area 53. He also will be formally presented with the Louis Rosen prize at the meeting.

Bozin received his doctoral degree from Michigan State University in 2003. His research, conducted in part at the Manuel Lujan Neutron Scattering Center, entailed the

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Emil Bozin

In Memoriam

John Linn Bailey

Lab retiree John Linn Bailey, 91, of Albuquerque, died May 15.

Bailey joined the Laboratory in1957 as a machinist in the former Shops Department (SD) and later retired from the former SD-5 as a lab machinist.

He is survived by his son, Fredrick; his two daughters, Judith and Jean; five grandchildren; six great-grandchildren; and one niece.

William Richmond

Laboratory retiree William Richmond died April 28 after a brief illness. He was 70.

A U.S. Navy veteran, Richmond came to the Laboratory in 1966 as a news media relations officer in the Lab's public information office. He later was an assistant group leader, deputy group leader and group leader. Richmond also was a printing plant manager at the Laboratory, retiring in 1990.

Richmond earned bachelor's degrees in journalism and psychology from Eastern New Mexico University.

He is survived by his daughter Sherry Richmond Lopez and her husband Joseph, and one granddaughter of Pojoaque.

Rose Brandolino Lenhart

Laboratory retiree Rose Brandolino Lenhart died Nov. 25, 2004, in Pleasanton, Calif. She was 78.

Born in Dawson, N.M., Lenhart joined the Laboratory in 1967, working for the Lab's library and in the former Information Services (IS) Division. She retired in 1989, returning as a Lab associate later that year and leaving the Laboratory as an associate in 1992.

She is survived by her daughter Julie.

June service anniversaries

35 years
Manuel Lopez, NMT-11
Dennis Quintana, IM-9
Virginia Romero, CCN-18

30 years
Gary Doolen, T-13
Judy Garcia, STB-RL
David Henderson, LANSCE-6
Lyle Jolin Jr., C-PCS
David Lee, P-25
Diana Little, CCN-18
Oliva Martinez, CER-30
Ernie Montoya, NMT-15
David Moody III, EES-12
Rick Paternoster, N-2
John Petrovic, MST-DO
Mary Rodriguez, CCN-18
Roger Tennant, DX-1
Paul White, DDNS

25 years
Samuel Atencio, MST-6
Walter Chaves, ESA-WDS
James Dole, ESA-TSE
Tessa Dowell, SUP-2
Mary Dugan, ISR-CSSE
Edwin Griego, S-6
Dwight Herrera, HR-OEOD
Robert Hoeberling, ISR-5
Robert Little, X-5
Benjie Martinez, CMRR
Michael Martinez, NMT-11
Stephen Tenbrink, CCN-5
Nancy Williams, SUP-6
Bernard Wood, CCN-3
Deidra Yearwood, PAAA

20 years
Ruby Archuleta, B-5
Lyle Bawden, AA-3
Steven Boggs, NMT-15
Michael Brandt, FM-DO
Judith Clark, PS-13
June Fabryka-Martin, EES-6
Stacey Gerhart, IM-3
Roy Goeller, ISR-4
Ray Green, ESA-WR
Arthur Guthrie, ESA-WDS
Clifford Hewitt, C-PCS
Rory Hohner, ESA-WSE
Joe Holland, D-4
James Jefferis, SUP-6
Gail McFarlane, C-AAC
Catherine Moya, NMT-4
Angela Naranjo, LANSCE-1
Chandra Pillai, LANSCE-6
Germaine Romero, ENG-ITS
Victor Salazar, ESA-WOI
Andrew Sanchez, FM-CMR
Bruce Trent, X-4
Thomas Wyant, CCN-5

15 years
Charles Bolig, HSR-8
Ian Campbell, P-23
Daniel Cooper, EES-2
Goutam Gupta, B-1
Michael Hiskey, DX-2
Philip Howe, D-DO
James Jones, PM-IP
Evelyn Martinez, OMBUDS
Tina Naranjo, CCN-1
Marilyn Ramsey, T-DO
Charley Rhodes, ISR-2
Steven Russell, ISR-6
Charlie Strauss, B-5
Darrell Vigil, NMT-4
Cheryl Wampler, PADNWP
Charles Wilkerson Jr., X-2
Dennis Wulff, NMT-7

10 years
Rita Archuleta, DX-6
Thomas Asaki, CCS-2
Ronaele Freestone, S-9
Heather Hawkins, NMT-16
Charlene Kellner, ENV-MAQ
Sherri Knapp, CFO-3
Andrew Koehler, D-1
Frank Merrill, P-25
Mark Miller, B-DO
Robert Page, NMT-16
Douglass Post, P-24
Christine Ramos, TT
Partha Rangaswamy, ESA-WR
Crystal Rodarte Romero, FM-UI
Teresa Ruscetti, B-2
Darrell Schmidt, ESA-WSE
Peiter Swart, T-7
Patricia Theodore, NMT-1
Duan Zhang, T-3

5 years
Kevin Buckley, ENV-WQH
Brian Crone, MST-11
Andrew Erickson, FM-EAST
Melissa Garcia, SUP-2
Elizabeth Hong-Geller, B-1
Antonya Jandacek, STB-LDRD
Scot Johnson, ENV-MAQ
Cynthia Kowalczyk, NMT-2
Crystal Martinez, T-7
Joel Montalvo, NMT-16
Jeffrey Montoya, N-1
Aaron Morrison, ISR-3
Joshua Neil, N-3
Angelica Romero, T-1
Elizabeth Salazar, P-24
Stephanie Sandoval, N-5
Alexandra Sherwood, CCN-2
Tina Thaxton, HR-ITDA
Zoltan Toroczkai, T-CNLS
Velimir Vesselinov, EES-6

Bozin …

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use of neutron diffraction to study local structure-property relationships in high-temperature superconductors.

In addition to 14 publications as a graduate student, Bozin also received several awards for his research such as the Pauling Prize in 1999 from the American Crystallographic Association and the Sherwood K. Haynes Graduate Physics Award in 2003 as the outstanding physics graduate student at Michigan State.

Bozin has also given five invited presentations and 10 contributed talks at a number of international meetings and research institutions. Following the completion of his thesis he spent a year in Belgrade with the Department of Physics of the Military Academy and the Solid State Physics Laboratory of the VINCA Institute of Nuclear Sciences.

Eleven participate in UC Leadership Institute

Eleven Laboratory employees attended the University of California's Leadership Institute recently in San Diego.

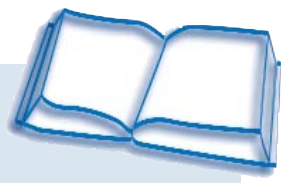
According to the UCLI Web site, the institute is designed to equip managers with the knowledge and professional networks to be effective leaders in today's workplace. This is the first annual UCLI developed by the University of California to foster networking among campuses and illuminate university operations and policies.

The employees representing the Lab were **Danny Branch** of the Communications and External Relations Division Office (CER-DO); **Rebecca Chamberlin** of Manufacturing Capability (MSM-5); **Nikki Gaedecke** of Enterprise Support and Computer Education (IM-2); **Lillian Montoya Rael** of the Community Relations Office (CER-30); **John Mott** of Technology Transfer (TT) Division; **Amy Sahota** of the Office of Equal Opportunity and Diversity (HR-OEOD); **Debbie Trujillo** of Experimental Device Engineering (ESA-EDE); **Davis Christensen** of the TRU Waste Certification Program (NWIS-TP); **Robert Lopez** of Security Integration (S-2); **Karen Burkett** of the Human Resources (HR) Division Office; and **Charles Pacheco** of the University of California Northern New Mexico Office.

Leadership institute attendees hear from a variety of speakers, including UC President Robert Dynes, Provost M.R.C. Greenwood, Senior Vice Presidents Bruce Darling and Joseph Mullinix and UC, San Diego Chancellor Marye Anne Fox, as well as a number of nationally known experts.

Reported on the Web site over a three-day period, UCLI activities reinforce how to promote a healthy, productive and motivating workplace, stimulating employees to do their best work in support of UC's mission. Participants also learn how to create and sustain model employment practices and to build, manage and maintain a diverse workplace that best supports and encourages ethical decision-making.

"Participants in the workshop are encouraged to share what they learn at the Leadership Institute with their supervisors and peers when they return," says Dolores Jacobs, Training and Development (HR-TD) group leader, Laboratory coordinator for the institute. "In addition to the information gathering, learning and networking that will take place, interaction with individuals from other UC campuses offers a distinctive perspective that can benefit Laboratory managers and staff."



This month in history …

June

1215 — King John signs the Magna Carta, the first charter of English liberties, guaranteeing basic rights that have since become the foundation of modern democracies around the world.

1775 — The U. S. Army is formed.

1783 — The first sustained flight occurs as a hot-air balloon is launched at Annonay, France, by brothers Joseph and Jacques Montgolfier.

1819 — The bicycle is patented.

1854 — Congress ratifies the Gadsden Purchase, adding 29,670 square miles to New Mexico and Arizona.

1868 — The Board of Regents of the University of California holds its first meeting.

1880 — John Lee Richmond pitches baseball's first "Perfect Game."

1905 — Albert Einstein publishes the article "On the Electrodynamics of Moving Bodies," in which he introduces special relativity.

1931 — The rocket-fueled aircraft design is patented by Robert Goddard.

1942 — The Manhattan Engineer District is established in New York City.

1952 — MANIAC, a computer designed and built at the Laboratory, becomes operational.

1954 — USSR opens its first atomic power plant.

1959 — Convicted Manhattan Project spy Klaus Fuchs is released after only nine years in prison and allowed to emigrate to Dresden, East Germany (where he resumed a scientific career).

1963 — The office at 109 East Palace Avenue in Santa Fe, check-in place for Manhattan Project workers, is closed.

1972 — Five men are arrested for burglary at a Democratic Party office in the Watergate apartment complex in Washington, D.C.

1973 — Lab scientists announce the first detection of gamma-ray bursts, blasts of extremely high energy that originate outside the solar system.

1977 — The Apple II, the first practical personal computer, goes on sale.

1979 — President Jimmy Carter and Soviet President Leonid Brezhnev sign the SALT II Treaty limiting offensive nuclear weapons and heavy bombers. Carter later withdraws support after the Soviet invasion of Afghanistan.

1981 — Xerox introduces a PC, Xerox 820, the first office products company to enter the personal computer market.

1983 — Sally Ride becomes the first U.S. woman in space onboard the space shuttle.

1988 — The Laboratory is designated as a human genome research center by DOE.

1989 — For one second on the morning of June 7, the time and date are 01:23:45, 6-7-89.

1994 — The Lab and several former Soviet atomic facilities sign lab-to-lab agreements on nuclear materials control and accountability.

1996 — Laboratory researchers Don Petit and John Phillips are accepted into astronaut training.

And this from the 1946 Los Alamos Times: Unless Los Alamos residents make an immediate and drastic curtailment in their use of water, the supply will be depleted by July 25.

The information in this column comes from several sources including the online History Channel, the Newsbulletin and its predecessors, the atomic archive.com, Echo Vitural Center, Science & Technology, Real History Archives, and Carey Sublette, "Chronology for the Origin of Atomic Weapons" from www.childrenofthemanhattanproject.org/MP_Misc/atomic_timeline_1.htm.

Submissions are welcome. Please be sure to include your source.

Lights, camera, action, fuel cells!

by Chris Roybal

In the eyes of his daughter, Ken Stroh of the Materials Science and Technology (MST) Division will soon be famous not for the cutting edge work he does at the Laboratory but for a connection he has with another well-known scientist: Bill Nye, "the science guy."

"My daughter really likes Bill Nye," said Stroh. "She said, 'It's great! My dad's going to be a celebrity because he'll be on Bill Nye!' "

Television personality Nye visited the Laboratory in June 2003. At that time, Nye learned about the Lab's fuel-cell technology program, and transportation modeling and simulation. While learning about fuel cells, Nye filmed a segment for his new TV program "The Eyes of Nye" with Stroh.

"It was quite an experience working with Bill Nye," said Stroh. "He was interested in finding out how real the possibility of hydrogen fuel cells is for transportation."

Stroh talked with Nye about the benefits of fuel cells and the challenges that remain in making them more efficient and cost-effective. Stroh also demonstrated how fuel cells were being used at the Lab and even let Nye drive around in a Lab-designed hydrogen-powered cart.

"I'm a little nervous to see the show, given the zany things Bill did during the filming," noted Stroh.

Stroh started at the Laboratory in 1976 as a graduate student. For the first 15 years of his career, Stroh worked on nuclear reactors safety. In 1991, Stroh entered the fuel-cell business when he joined a Lab project funded by General Motors and the Department of Energy that focused on the development of an electrochemical engine.

"The idea of that was really to see if you could use a fuel and electric motor to replace the internal combustion engine, while using methanol processed on-board to provide the hydrogen-rich fuel." said Stroh. " By 1995, when the project ended, I was the project leader and have worked most of my time on fuel cells ever since."

The project resulted in the development and demonstration of complete 10kW and 30kW electrical engines. Stroh now works on fuel cells full time with a focus on how to sustain and improve their production of energy. He indicated that some of the barriers to widespread use of fuel cells currently being worked on include coming up with more durable materials to use in the cells and lowering the costs of production.

Stroh said fuel cells may be a key component to providing a plentiful, abundant and clean energy future, so it is important that he and his coworkers continue to work diligently to push fuel cell use toward reality.

"What we are doing now in transportation is not sustainable," said Stroh. "If we are to reduce and eventually eliminate our dependence on imported oil, we must attack energy usage in the transportation sector. Fuel cells offer the potential to power transportation with domestic energy sources with much reduced emissions, while showing the way to a sustainable 'hydrogen economy' based on a variety of renewable and non-greenhouse-gas-emitting energy sources."

Stroh said he enjoyed meeting Nye, a fellow mechanical engineer, and called his experience with the TV scientist "real positive."

"I like Bill Nye," said Stroh. "I think he's trying to bring science and the things science can do for us into the public realm, and that is always a good thing."

Stroh's episode of "The Eyes of Nye" will be broadcast at 2:30 p.m., Friday (June 24) on KNME, Channel 5. Former Lab employee Christopher Barrett also will be featured in Stroh's episode and will talk about how computer models can be used to understand traffic flow.

Bill Nye "the Science Guy" took a Laboratory-built, fuel-cell-powered scooter out for a spin during a visit to the Laboratory in June 2003. Nye, shown with Ken Stroh, standing, of the Materials Science and Technology (MST) Division Office, visited Los Alamos to learn about Lab programs and technologies. While at the Lab, he learned about the Lab's fuel-cells-technology program, transportation modeling and simulation and also visited Bradbury Science Museum downtown. *Photo by LeRoy N. Sanchez*