

Newsletter

Week of Aug. 30, 2004

Vol. 5, No. 18

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Students from all over the world came together as the Summer of Applied Geophysical Experience (SAGE) program launched into its 22nd year. SAGE is a field-based geophysics course comprised of undergraduate students, graduate students, faculty members and visitors from several different geophysics-related industries, including mining and oil companies. . . . Page 4

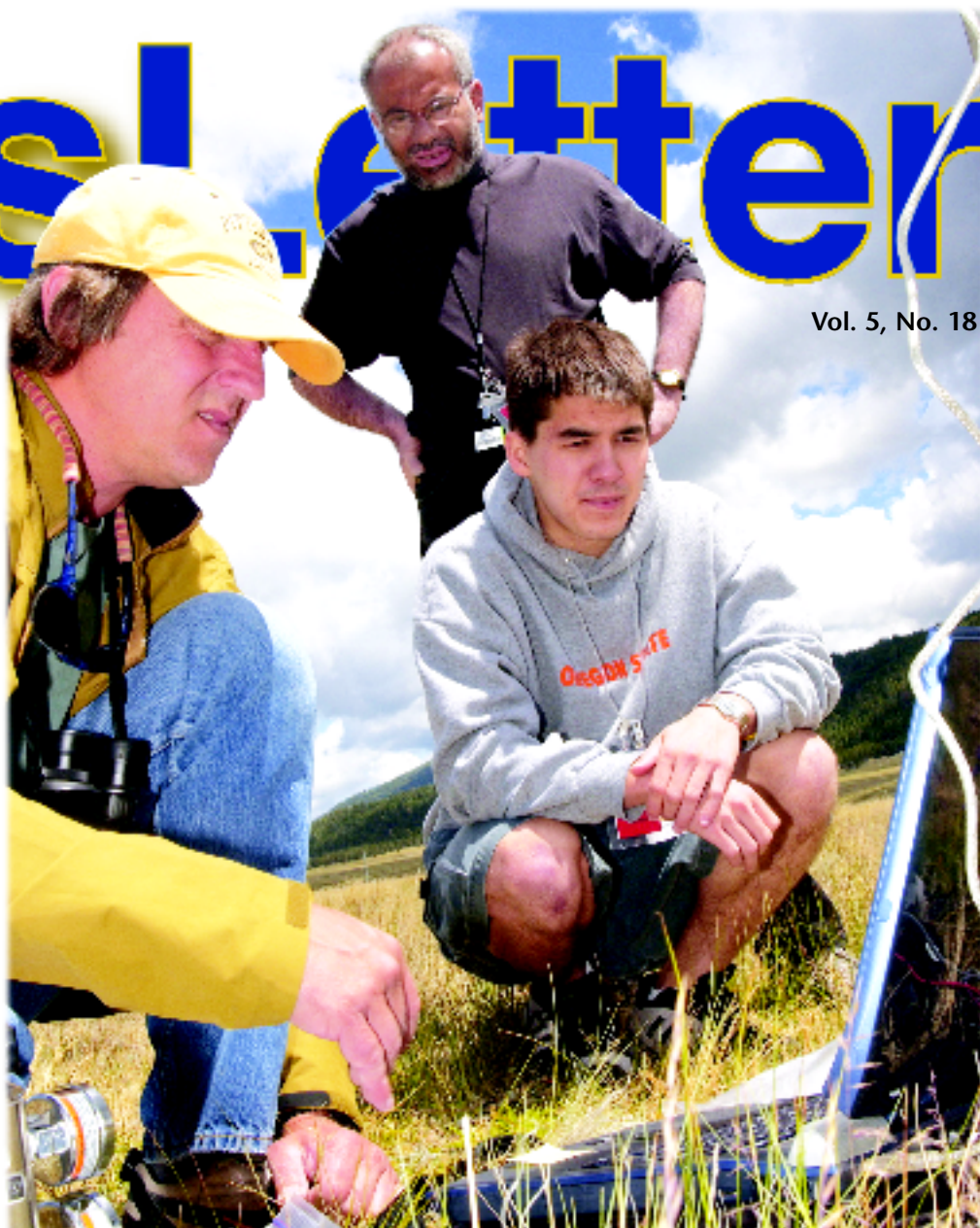


Poster sessions illustrate student research projects

Students from the Theoretical (T) and Physics (P) divisions recently participated in poster sessions to showcase their work at the Lab this summer. . . . Page 4

Leadership Los Alamos provides future community leaders in Northern New Mexico

President John F. Kennedy once said "Leadership and learning are indispensable to each other," and Jim Stein of the Director's Office seems to be living these words. Stein recently graduated from the 2004 Leadership Los Alamos program and currently serves as a board member. . . . Page 8



Manvendra Dubey of Hydrology, Geochemistry and Geology (EES-6), standing, observes Thomas Rahn, left, of EES-6 and Neil Ford, a NASA undergraduate student with EES-6, perform a routine calibration of instruments on the tower using a laptop computer. Dubey is the lead Los Alamos scientist on the Valle Caldera AmeriFlux team. Photo by LeRoy N. Sanchez

Lab scientists study carbon exchange in Valles Caldera grasslands

by Todd Hanson

Over the past nine months, scientists at the Laboratory have been working as part of the AmeriFlux carbon exchange research project with researchers from the Valles Caldera National Preserve and Colorado State University using sophisticated eddy monitors — monitors that detect minute changes in wind flow — to study carbon dioxide flow variations and grassland carbon cycle dynamics in a small section of the Valles Caldera.

From these wind and moisture eddy current studies, the team hopes to help climate scientists and policy makers around the world gain a better understanding of the surprisingly complicated role that grasslands play in ecosystem carbon exchange.

According to Manvendra Dubey of Hydrology, Geochemistry and Geology (EES-6), the lead Los Alamos scientist on the Valle Caldera AmeriFlux team, "there is roughly 7 gigatons of carbon produced annually in the world from the burning of fossil fuels. Of that amount, approximately one quarter is taken up in the carbon cycle by forests and grasslands. Grasslands are probably the least understood part of the global carbon cycle and are often managed by default. Obviously, a better understanding of the role of grasslands in the carbon exchange cycle could lead to grassland management practices that enhance this important environmental function."

The site within the Valles Caldera National Preserve is a region of montane grasslands that have previously been used for cattle and elk grazing. Currently fenced off to prevent elk and cattle grazing, the study area is the site of a 20-foot-tall tower with instruments for recording carbon dioxide concentrations, solar radiation and eddy flux wind velocities on a once per second basis. Subsurface measurements also are being taken of soil moisture, soil carbon and soil nitrogen. Data is being gathered for comparison against future studies that will permit cattle and elk grazing on the study site.

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Los Alamos
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Editor's note: Many local school districts in Northern New Mexico have started the 2004-05 school year. Laboratory personnel are reminded to be alert for school children and reduce speed in school zones. The posted speed limit in school zones when children are present is 15 miles per hour.

Back to school safety tips

According to the American Red Cross, 25 million students ride on school buses. Parents should remind children riding a bus to school to follow these safety tips to help prevent injury.

- Line up facing the school bus door — not along the side of the school bus.
- Don't play in the street while waiting for the school bus.
- Carry belongings in a backpack or book bag.
- Never reach under a school bus to get anything that has rolled or fallen underneath it.
- After getting off the school bus, move immediately onto the sidewalk, out of traffic.
- Wait for a signal from the bus driver before crossing the street. Walk at least 10 steps away from the front of the bus so that the bus driver can see you.
- Never cross a street behind the school bus.

Following these tips will make the first school day, and every school day, safe and enjoyable.

Motorists also are reminded to slow down, use extra caution in and through school zones and obey posted speed limits in school zones.



FROM THE TOP

The chief science officer's role

by Tom Bowles

The position of chief science officer is a new one at Los Alamos. The primary motivation [behind creating the position] was to provide a direct means of two-way communication between the scientific staff and senior management. Laboratory Director G. Peter Nanos had recognized that the concerns of the staff were not being adequately presented. During my first month as CSO, I met with more than a dozen technical groups. These meetings allowed me to answer questions as well as hear a number of good ideas on how to improve our ability to do science. I have been able to act on some of those, such as extensions for postdocs, and am pursuing action on others. My statement on the future of science resulted in an overwhelming response — I still am working to respond personally to each message. And I am committed to acting on those issues that will provide the greatest gain for science.



Tom Bowles, chief science officer

The CSO has an important second role: to provide oversight and guidance for the Laboratory's science portfolio. Since the CSO office does not have line-management responsibilities, it is the one place in the Laboratory that can assess the full portfolio in a completely nonparochial manner. I already am working to optimize our activities, from the small-scale science that is so essential to our future to the large programs that support our mission for the country. Direct oversight responsibility for LDRD provides one of several means by which the CSO office can work to implement the vision of the Laboratory as a premier scientific institution that serves the needs of the nation.

Finally, the CSO has significant responsibility for working with the University of California, whose management of the Laboratory is an essential part of maintaining and strengthening our science programs. I also expect to serve as an effective contact with the Department of Energy and other sponsors who support our science mission.

This is a very challenging position, and I look forward to working closely with all the employees at Los Alamos to ensure a bright science future.

Lab scientists study ...

continued from Page 1

The team is planning to install a high-resolution spectrometer on the tower in order to compare spectrographic data against satellite images of grass color in order to better understand the possible relationships between the two data sources.

The Valle Caldera AmeriFlux team has a proposal to NASA under review that would add spectrometers to the site in order to facilitate the development of remote sensing tools for scaling results to regional scales, and making the Valles Caldera site better suited as a possible test-bed for NASA's Orbiting Carbon Observatory that is scheduled to launch in 2007.

The AmeriFlux project was organized by the Department of Energy's Office of Basic Energy Research. The goal of the AmeriFlux Project is to take direct and long-term measurements of carbon dioxide and water vapor fluxes between terrestrial ecosystems and the atmosphere in order to better understand the global carbon cycle. The Valle Caldera site is the only New Mexico site in the AmeriFlux network.

In addition to funding from DOE's Office of Basic Energy Research, the Los Alamos AmeriFlux research is supported by funding from the Laboratory-Directed Research and Development program, the University of California's Institute of Geophysics and Planetary Physics (IGPP) and Laboratory postdoctoral programs.

Besides Dubey, the Valle Caldera AmeriFlux team also includes Thomas Rahn, Julianna Fessenden-Rahn and Nate McDowell, all of EES-6; Chris Jeffery and Chris Borel of Space and Remote Sensing Sciences (ISR-2); Robert Parmenter of the Valles Caldera National Preserve; and William Parton of Colorado State University at Fort Collins, Colo.

More information about the Valle Caldera AmeriFlux site is available at public.ornl.gov/ameriflux/Site_Info/siteInfo.cfm?KEYID=us.valles_caldera.01 online.



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.



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Laboratory Northern New Mexico Day is Sept. 6 at Isotopes Park

Sept. 6 is Los Alamos National Laboratory's Northern New Mexico Day at Isotopes Park in Albuquerque. To promote the event, Isotopes representatives and mascot Orbit provided fun and giveaways during Los Alamos' Friday night concert series Aug. 20. In the photo, Orbit gives a T-shirt to a young fan, while Public Affairs Office Leader Jim Fallin, on stage at left, concert promoter and businessman Russ Gordon and Sally Hoffman, Los Alamos Chamber of Commerce director, look on. Tickets for the Sept. 6 Northern New Mexico Day at Isotopes Park were on sale at the Public Affairs Office in downtown Los Alamos and at the Albuquerque Journal North office, 328 Galisteo St., in Santa Fe. Tickets also can be purchased at the gate.

Photo by James E. Rickman



Coaching for success: It's not just for athletes anymore

Think coaching is just for sports teams and Lamaze class? Think again. Whether giving birth to a new project or scoring one for the company's bottom line, a coach is an integral part of any team success. The same holds true for individuals. A personal coach can provide the clarity, structure, support and feedback needed to help a team, individual or organization reach its goals and objectives.

One key component of the Director's Development Program is the coaching support participants receive during the 12 months that they are in the program.

Every DDP participant works with two coaches. The first is from the global consulting firm, Personnel Decisions International, whose task it is to do an initial assessment of each participant in the program.

"Essentially they are looking at an individual's strengths and areas of development," said Amy Anderson of Occupational Medicine (HSR-2), DDP coaching coordinator.

Once complete, the assessment provides a personalized summary designed to help define the focus, strategy and direction participants take during the program.

Next, the second set of DDP coaches, made up of Laboratory volunteers paired up with participants, help transition the participants through the remaining phases of the DDP.

Coming from all over the Lab, the volunteer coaches donate their time helping participants for the duration of the program. This is in addition to their regular job duties and responsibilities at the Lab.

"It is very rewarding to work with highly motivated leaders who want to make a difference here," said Anderson. "And it also is very rewarding to work with such a talented group of DDP coaches."

Volunteer DDP coach Lorrie Bonds-Lopez of the Risk Reduction and Environmental Stewardship (RRES) Division added, "Anyone who excels in their field has a coach. Coaching provides onsite, in-situ ground where people can practice and learn experientially." Lopez also said coaching should be integral to the institution so that managers can learn through long-term re-enforcement of their goals.

The Lab coaches help participants craft individual leadership development plans, which they use to reach their goals.

"We help them by looking at how do I get there? Who might I contact or what direction do I go in?" said Anderson.

And what does it take to be an effective coach?

"A coach is a very good listener who engages the person towards reaching their goal and helps them focus on a few key areas, by giving them feedback and helping them see where they may be creating impediments to their success," said Anderson.

"Many of us set goals; it helps to have some support to reach those goals and be successful," added Anderson.

Think coaching might work for you? Want to volunteer as a coach?

For more information on the DDP and a link to a list of program coaches, go to int.lanl.gov/orgs/hr/success online, and for additional information on coaching, contact Amy Anderson of HSR-2 at aanderson@lanl.gov by e-mail.

Nineteen in Director's Development Program Class of 2004-2005

by Ed Vigil

The Director's Development Program, a year-long program to identify and develop a pool of potential leaders for future Laboratory senior-management positions, kicked off its second class this spring with 19 new participants.

Made up of current and former deputy group leader and above Laboratory managers, "The program is part of Director G. Peter Nanos' 10-year plan to make sure we have leadership depth and breadth in the system. It also creates accelerated leadership experiences for improving leadership performance [at the Lab]," said Rebecca Phillips of Deployed Resources (HR-D-DIR), DDP program manager.

Consisting of developmental assignments/job rotations, one-on-one personal coaching, mentoring, workshops and talks, the DDP provides participants with the tools and support they need to succeed, Phillips said.

"In looking back at last year's program, we found a lot of value in the coaching and mentoring, as well as the developmental assignments and job rotation aspects of the program," said Phillips. She noted that DDP would be expanding those parts of the program to leverage those strengths and better serve the participants.

"One positive effect of the program has been the opportunity to try on new roles and responsibilities. It provides many opportunities [for participants] to network and interface with senior managers," said Phillips.

"Employees in the sponsoring organizations benefit as well from the program with the new challenges and opportunities they experience while filling in for their peers in the program," added Phillips.

"Many of the people we have heard from here at the Lab see the coaching, mentoring and developmental assignments as the real

benefits and strengths of the DDP," said John Perreault of Training and Development (HR-TD), DDP project leader.

"It's been an excellent program. The networking opportunities with the other participants and the staff has been great and working with the coaches and mentors has enhanced my management skills," said David Montoya of Engineering Stockpile Assurance (ESA-ESA) and a class of 2003 participant.

"The developmental assignments also have been great and have provided me additional insight to other aspects of the Lab," added Montoya.

In addition to the training opportunities, program participants, as part of an action learning plan, work together to brainstorm and come up with solutions to issues and problems given to them by Director Nanos.

With a built-in safety net and the support of senior management, the action learning exercises let participants get their feet wet working on issues and problems that senior managers face on a regular basis, said Phillips.

Last year's class put together recommendation papers for each exercise, which were followed-up with a critique and review of the group's findings. This provided participants with a lessons learned of what went well/worked and what could be improved upon for next time, Phillips explained.

"These are valuable hands-on real world opportunities to practice their communication and networking skills and all that they've learned," said Phillips.

For more information about the DDP, application materials, listings of current and former participants, program elements, staffing and coaching contacts and program offerings open to Laboratory employees outside the program, go to int.lanl.gov/orgs/hr/success online.

2004-2005 DDP participants

The 2004-2005 DDP class includes these Laboratory employees:

- Sherri Bingert of Dynamic Experimentation (DX)
- Stephen Black of Tritium Science and Engineering (ESA-TSE)
- Carla Kay Breiner of Facility Planning (FWO-FP)
- Lawrence James Cox of Integrated Physics Methods (X-3)
- Michael Fazio of Radio Frequency and Accelerator Physics (ISR-6)
- Deanne Idar of Materials Dynamics (DX-2)
- Chris James of the Nuclear Materials Technology (NMT) Division
- Sallie Keller-McNulty of Statistical Sciences (D-1)
- Denise Liechty of Experimental Device Engineering (ESA-EDE)
- John Milewski of Manufacturing Capability (MSM-5)
- Mary Neu of Actinide, Catalysis and Separations Chemistry (C-SIC)
- Brent Park of Neutron Science and Technology (P-23)
- Jessica Pascual of Compensation (HR-C)
- John Tapia of Property Management (SUP-2)
- Antoinette Taylor of Condensed Matter and Thermal Physics (MST-10)
- Ronald Trujillo of Advanced Information and Business Application Development (IM-8)
- Thomas Turner of Strategic Research (ADSR)
- William VanderHeyden of Fluid Dynamics (T-3)
- Benny Vigil of the Computing, Communications and Networking (CCN) Division



Summer of Applied Geophysical Experience

Students from the Summer of Applied Geophysical Experience, or SAGE, program gaze out over the Abiquiu area in Northern New Mexico.

by Brenna Moore

Students from all over the world came together as the Summer of Applied Geophysical Experience (SAGE) program launched into its 22nd year. SAGE is a field-based geophysics course comprised of undergraduate students, graduate students, faculty members and visitors from several different geophysics-related industries, including mining and oil companies.

This year, 14 undergraduates, 11 graduate students, six faculty members and various other visitors participated. The students came from all over the United States and the world, including Ireland, Mexico, Saudi Arabia, Canada and South Africa.

Though sponsored by the Institute of Geophysics and Planetary Physics at Los Alamos, the course is based at the College of Santa Fe, where the students have access to the dormitories and cafeteria. Classrooms are used for lectures, data interpretation and report production. "There is no other course like it in the world," said SAGE Co-director Scott Baldrige of Geophysics (EES-11). What makes SAGE unique is the wide range of geophysical techniques that are used and the fact that any student from anywhere in the world who is qualified can participate, said Baldrige.

This year's program was four weeks long and ran from June 21 to July 16. During that time, the students participated in geologic field trips, collected geophysical data using different techniques, wrote reports on their findings and gave oral presentations at the end of the course. The SAGE program applies geophysics to geologic, hydrologic and archeological problems and offers unique opportunities in earth



Above: Olivia Enriquez, left, from the Autonomous University of Mexico, Hussam Busfar, right, from the University of Texas at Austin and Scott Urquhart from Zonge Engineering help with preparations for an experiment with transient electromagnetics, a procedure that can help locate ground water. Searching for water underneath Earth's surface is a significant element of the SAGE program, as it teaches students important applications of geophysics.

Left: Colin Cikoski of the New Mexico Institute of Mining and Technology sets up the equipment needed to perform an experiment in transient electromagnetics, a method that shows where water resides under Earth's surface.

science education by using resources of the Laboratory combined with the expertise of a variety of universities. "Many geological programs can't give [students] a lot of field experience, because they don't have the expertise or resources. SAGE is different, because they have a lot of sponsors," said Laura Russon, a student from the University of Utah.

The students started off the program by dividing into groups, and while half of the students attended lectures that focused on the methods they use in experiments, the other half worked in the field. They traveled to Cochiti Pueblo, Abiquiu, La Bajada and Española, and used such techniques as seismic reflection, gravity, electromagnetics, magnetics and magnetotellurics to examine the geology under Earth's surface. The majority of the experiments dealt with locating ground water, fault zones and buried excavations. "[SAGE] gives [the students] a real idea of what it's like working in the field because of the problems and conflicts we came across," said Jeremy Gunter, a SAGE student from San Diego State University.

In addition to conducting experiments, the students had the opportunity to see how the geophysical industry works. Many representatives from several different companies, including Sensors and Software, ExxonMobil, ChevronTexaco and Zonge Engineering gave presentations and demonstrated what it is like working within their companies. "[SAGE] gives you a pretty good perspective of each industry that one can go into," said Ryan Lester, a student from Trinity University. "[SAGE] is a little bit like a job fair because the companies are presenting themselves to the students," said Baldrige.



Above: SAGE Co-director Scott Baldrige, pointing, of Geophysics (EES-11) and Russell Young, a graduate student at the University of Texas at Austin, discuss the geology of the Abiquiu area with SAGE students during a field trip. Baldrige explains the geophysical aspects of the surrounding territory and points out plate tectonics, fault zones, trenches and other geologically significant changes in Earth's surface to the students.

Right: From left to right, Emily Hinz from the University of Texas at Dallas, Jonathan Kahe and Kyleen Chavez from Cochiti Pueblo and Mark Hale from the University of Utah gather around a device that is used to measure natural and introduced electric currents in Earth. The technique, called "controlled source audio magnetotellurics," is important for sensing ground water, a key objective in the SAGE program. Photos by Brenna Moore





Poster sessions illustrate student research projects

From left to right, Reynaldo Castro-Estrada, and Wilbert Fernandez, both from Arizona State University, and Anthony Billups from Northeastern University in Massachusetts discuss their poster titled "Does gravitational gossip weigh heavy on your local area network (LAN)?" The presentation was part of the Mathematical and Theoretical Biology Institute workshop final presentation.

Photo by Brenna Moore

Angela Ortiz, left, of Mathematical Modeling and Analysis (T-7) and Arizona State University and Karen Rios-Soto of T-7 and Cornell University look over the details of their presentation, titled "USA, the Fast Food Land: Obesity as an Epidemic," at the Mathematical and Theoretical Biology Institute summer workshop. The institute began five years ago when Carlos Castillo-Chavez of the Center for Nonlinear Studies (T-CNLS) started the program to give college minority students hands-on experience with mathematical, statistical and scientific research.

Photo by Brenna Moore



William Robins, left, Greg Sonnenfeld, center, and Jaeyoung Park, all of Plasma Physics (P-24), discuss their poster presentation, "What is MRI?" at a Physics (P) Division student poster and oral presentation in the Physics Building Auditorium at Technical Area 3. P Division hosted the presentations to allow students to discuss and showcase their work at Los Alamos this summer.

Photo by LeRoy N. Sanchez

Risk-level 2 and 3 criteria now online

The Laboratory has published its approved criteria on how to resume risk-level 2 (moderate-risk) and risk-level 3 (high-risk) activities. Go to the COMPASS Web site at <http://int.lanl.gov/restart/> for a PDF file of the Resumption Process, risk-levels 2 and 3 work document.



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Frederick Tarantino

Tarantino named principal associate director for nuclear weapons programs

Frederick Tarantino is the new principal associate director for nuclear weapons programs.

"I am confident that Fred will strengthen our nuclear weapons program and position us for greater long-term success in managing our mission," said Laboratory Director G. Peter Nanos.

The position of principal associate director for nuclear weapons programs was created in early March and is the focus for planning, priority-setting, resource allocation and execution of the Laboratory's \$1.2 billion nuclear weapons portfolio. Tarantino will have responsibility for developing an integrated program of weapons activities; balancing program priorities through risk-based management; and ensuring execution and effective partnering with the associate directors for weapons physics, weapons engineering and manufacturing and operations.

Tarantino most recently was chief executive of Bechtel Nevada Corp. In his seven years with Bechtel, he also served as principal vice-president for Bechtel Space, Defense and Environmental Operations. Before that, Tarantino was chief of the Air and Missile Defense Branch for the secretary of the army; served as a defense liaison to the White House Office of Science and Technology Policy, and was a military research associate in the nuclear weapons design group at Lawrence Livermore National Laboratory.

Tarantino holds a doctorate in nuclear reactor physics from the Massachusetts Institute of Technology.

Seestrom takes helm of weapons physics

Susan Seestrom has been named associate director for weapons physics. She has served the Laboratory as acting associate director for weapons physics for the past five months.

Seestrom joined the Laboratory as a post-doc in 1981 and became a staff member five years later. She was elected a fellow of the American Physical Society in 1994. Seestrom previously served as deputy group leader of Neutron Science and Technology (P-23) and leader of the Physics (P) Division.

Seestrom earned bachelor's and doctoral degrees in physics from the University of Minnesota.



Sue Seestrom

Beck named top deputy in ADWEM

David Beck is the new principal deputy associate director for weapons engineering and manufacturing.

Beck most recently was assistant deputy administrator for military applications and stockpile operations at NNSA, a post he held since 1999. Previously, he directed Manufacturing Technology Services at the Y-12 Plant in Oak Ridge, Tenn.

Beck's chief responsibilities include ensuring the quality of science, engineering, technology, programs and operations within ADWEM's divisions: Engineering Sciences and Applications (ESA), Nuclear Materials Technology (NMT) and Manufacturing Systems and Methods (MSM).

"The Laboratory's role in national security issues continues to be essential to the defense and growth of our nation. I am proud to be on the Los Alamos team and look forward to the challenges ahead," said Beck.

Beck holds a bachelor's degree in metallurgy from Pennsylvania State University and a master's in business administration from the University of Tennessee.

"Dave's experience in program management and his unique and extensive perspective on the weapons program will make him invaluable to our organization and to the Laboratory," said Rich Mah, associate director for weapons engineering and manufacturing, in announcing the appointment.



David Beck

In Memoriam

Victor Avery Bond

Laboratory retiree Victor Avery Bond died May 21. He was 80.

Bond was born in Perth Amboy, N.J., in 1924. He received his bachelor's degree in commerce and finance from Bucknell University in Lewisburg, Pa., in 1949.

Bond began his career at the Lab in 1953 in the former Accounting Office (AO) as a stores inventory auditor where he worked for 29 years. Bond returned to the Lab in 1982 as a consultant in the former Operational Security Safeguards (OS) Division, working until 1992.

Bond is survived by his wife, Marilyn, son Steven and daughter Robin.

Albert Petschek

Laboratory retiree Albert Petschek, physicist, Lab fellow and professor emeritus of New Mexico Institute of Mining and Technology died on July 8. He was 76.

Petschek was born in Prague, Czech Republic, in 1928, immigrating to the United States in 1938. He earned his bachelor's degree from the Massachusetts Institute of Technology, master's degree from the University of Michigan and doctorate from the University of Rochester.

Petschek joined Los Alamos in 1953 and the faculty of New Mexico Tech in 1966. He retired from the Lab in 1987, returning to work as a Lab affiliate. His career spanned five decades of educating physicists and publishing scientific contributions to nuclear physics, astrophysics, atmospheric physics, quantum mechanics and quantum computing.

Petschek is survived by his wife of 55 years, Marilyn Petschek, daughters Evelyn and Elaine and sons Rolfe and Mark.



Patrick Trujillo

Laboratory employee Patrick Trujillo of Security Support (S-5) died June 13. He was 61.

Trujillo was born in Dixon, N.M., in 1943. He received his bachelor's degree in biology from New Mexico State University.

Trujillo began his career at the Lab in the former Office of Security (OS) Division in 1985. He worked in S-5 as a security specialist and for the division for 19 years.

"Pat was my go to person, and I can say truthfully that it was a real pleasure and a privilege to be his supervisor. He was always there for our team. Pat will be missed," said team leader Dan Cushner of S-5.

Trujillo is survived by his wife, Margie Trujillo of the Weapons Budget (CFO-3) Office, and sons Patrick of CFO-3 and Tanner of Space Instrumentation and Systems Engineering (ISR-4).



August service anniversaries

35 years

Juan Baldonado, ISR-1
Ronald Holmes, NMT-14

30 years

James Busse, C-ADI
T. Michael Cannon, CCS-3
Kandy Frame, ESA-TSE
T.E. Gene Gould, ESA-ESA
Flavio Gurule, CCN-18
Michael Hall, LANSCE-6
Abram Jacobson, ISR-2
Marshall Maez, PS-1
Ralph Menikoff, T-14
Ronald Nelson, LANSCE-12
Jacob Perea, PADNWP
Amos Romero, LANSCE-6
Rita Sandoval, CCN-18
Danny Sandoval-Tidwell, SUP-3
Stella Vigil, HSR-5
Rodney Wood-Schultz, X-4
George Zyvoloski, EES-6

25 years

Thomas Bowles, DIR
Kirk Christensen, ESA-WDS
Dianna Duerre, SUP-1
Patricia Fasel, CCS-3
Sam Garcia, CCN-4
Alan Glasser, T-15
David Hanson, T-12
Lorelei Johnson, ESA-WMM
Bryan Kashiwa, T-3
Lon-Chang Liu, T-16
Donna Maestas, C-OPS
Antonio Martinez, MSM-6
Sandra Valdez, IM-9

20 years

Andrew Andrews, MSM-2
Richard Benson, C-DO
Steven Booth, IFC
Jackson Carter, X-5
William Clodius, ISR-2
Dawn Flicker, X-4
Raymond Gonzales, P-24
Kevin Graham, MST-10
Jean Harris, X-DO
Mark Hinrichs, ISR-5
Michael Kang, DX-6
Kim Lloyd, MSM-6
Tobias Lovato, PM-4
Brian McVey, X-8
Dennis Paisley, P-24
Leroy Rodriguez, DX-6
Elizabeth Salazar, DX-1
Richard Schamaun, MSM-6
Bud Shultz, CCN-DO
Timothy Stone, NMT-4
Eugene Symbalisky, ISR-RD
Pat Unkefer, B-3
Vanessa Velarde, SUP-1
Robert Whitaker, ISR-4
William Woodruff, C-SIC

15 years

Michael Alexander, RRES-WQH
Josephine Arellano, CER-DO
Mark Chavez, DX-6
Kathy Chilcoat, ESA-GTS
Joe Fitzgerald, ISR-2
David Fry, ESA-AET
Carl Gable, EES-6
George Guthrie, EES-6
Marie Harper, S-7
Anna Hayes-Sterbenz, T-6
Larry Herrera, ESA-WMM
Rudy Herrera, SUP-3
James Lake, ESA-WR
Diane Lamkin, HR-D-O
Joe Lujan, FWO-SWO
Robert Montoya Jr., MSM-6
Matthew Naranjo, MSM-6
Monica Ortiz, SUP-1
Joe Rael, DX-5
Jeffrey Robison, DX-5
Betty Strietelmeier, C-INC
Nelson Vigil, SUP-5
James Wieting, N-2
Charles Wood, P-21

10 years

Kurt Anast, RRES-EA
Scott Bardenhagen, T-14
Vicki Barnett, CFO-2
John Bremer, CCN-7
Jeffery Bryant, IM-EP
Curtis Canada, CCS-1
Frances Castellano, CCN-7
Julie Crook, S-11
Amy Curtis, CFO-3
Walter Ferrell, HSR-8
Michael Granito, CFO-4
Elizabeth Hunke, T-3
Chastity Kolar, NMT-4
Nancy Kurnath, T-DO
Keith Lindsay, ISR-5
Larry Noble, FWO-DF
Stephanie Ortiz, C-INC
David Oswald, DX-2
Maria Pansoy-Hjelvik, NMT-14
Patricia Pierotti, HR-D-SR
Keri Ramsey, ISR-3
Dustie Rich, RRES-SWRC
Geraldine Rodriguez, RRES-SWRC
Judy Sanchez, NMT-4
Bruce Takala, LANSCE-3
James Tencate, EES-11
Brenda Varoz, ESA-WSE
J. Ann Verblaauw, B-DO
Stephanie Vigil, ESA-DO
Max Wheeler, FWO-LANSCE
Yuntian Zhu, MST-STC

5 years

Kenneth Adkins, CER-1
Robert Aikin Jr., MST-6

Thomas Anderson, IM-8
Daniel Aragon, DX-5
Paulina Archuleta, HSR-1
Matthew Bailey, NMT-2
Timothy Beard, MST-6
Joe Benavides, ADWEM-QAO
John Blackadar, N-2
Mabel Cata, ISR-4
Anthony Clark, CCN-2
Patrick Colestock, ISR-6
Blossom Cordova, C-ACT
Ray Cordova, HSR-1
Diana Dandridge, CER-1
Matthew Devlin, LANSCE-3
Ted Doerr, RRES-EA
Timothy Ellis, C-ACT
Ronald Fields, MSM-6
Gregory Fisher, NMT-16
Thomas Fogle, FWO-DF
Ray Gallegos, HSR-1
Mark Gamble, PM-DS
Mel Garcia, EES-2
Theodore Garcia, ISR-4
Ralph Garcia, S-1
Seth Gleiman, ESA-WMM
Arthur Gonzales, DX-5
Michael Grimler, S-5
David Hampton, PM-4
Bradley Henderson, ISR-2
David Hettich, IFC
M'hamed Jebbanema, CCN-7
Sharon Kapple, AA-2
Jeanette Lagrange, CCN-12
Ming Liu, P-25
Turab Lookman, T-11
John Lopez, C-AAC
Francis Lopez, NMT-10
Sherrye Lovato, RRES-EA
Antonio Maestas, HSR-1
Rebecca Martinez, C-AAC
David Martinez, ISR-5
Ana Martinez, MSM-1
Paul Martinez, RRES-WDS
Kimberly New, X-2
Shaun Newman, P-21
Stanley Prueitt, PM-4
A. Michael Peters, C-ACT
Kenneth Romero, RRES-CH
Gary Salazar, DX-3
Juanita Salazar, DX-5
Erika Sanchez, CFO-2
Ana Schwendt, X-2
Christina Scovel, CCN-12
Enid Sullivan, RRES-CH
Electra Sutton, B-5
Tina Sweet, N-3
Gilbert Towles, MSM-6
Berlinda Trujillo, ESA-WMM
Juan Vigil, NMT-3
Brian Winters, NMT-5
Ginger Young, CCN-12
John Zavicar III, AA-2



This month in history ...

August

AD 79 — The infamous Mount Vesuvius eruption buries the city of Pompeii.

1530 — Ivan the Terrible, the first Tsar of Russia is born.

1774 — Joseph Priestley isolates oxygen for the first time.

1846 — Smithsonian Institution founded in the United States.

1873 — The world's first cable car eases down a San Francisco street Aug. 2 in a test devised by Englishman Andrew Hallidie, a wire rope maker.

1884 — Ottmar Mergenthaler, a watchmaker, patents a machine that sets type by the line, rather than by character. The "Linotype" saves time and labor costs, allowing fatter newspapers and cheaper books.

1890 — Baseball pitching legend Cy Young pitches his first game, a win.

1909 — Indianapolis Speedway holds its first auto race.

1910 — Mother Teresa (1910-1997) was born (as Agnes Gonxha Bojaxhiu) in Skopje, Yugoslavia. She founded a religious order of nuns in Calcutta, India, called the Missionaries of Charity and spent her life working to help the poor and sick of India.

1916 — National Park Service is established.

1930 — Animated cartoon Dizzy Dishes premieres, with new star Betty Boop.

1939 — Albert Einstein wrote a letter to President Franklin D. Roosevelt concerning the possibility of atomic weapons. "A single bomb of this type carried by boat and exploded in a port, might very well destroy the whole port together with some of the surrounding territory." Six years later on Aug. 6, the first atomic bomb, developed by the United States was dropped on the Japanese port of Hiroshima.

1944 — Just 11 weeks after the allied landing at Normandy, free French and American troops roll triumphantly through the streets of Paris after liberating the city from four years of German occupation.

1953 — The Whiffle Ball is patented.

1958 — The Nautilus, a nuclear powered submarine is the first submarine to cross the North Pole under water.

1963 — The March on Washington occurred as more than 250,000 people attended a Civil Rights rally in Washington, D.C., at which Martin Luther King Jr. made his now-famous "I Have a Dream" speech.

1969 — Echo, the world's first communications satellite, is launched by the United States.

1974 — President Richard M. Nixon becomes the first and only president to resign while in office.

1981 — The spacecraft Voyager 2 flies past the planet Saturn.

1986 — U.S. Air Force reveals it accidentally dropped a hydrogen bomb on New Mexico in 1957, which did not detonate.

1990 — Just five days after the Iraqi invasion of Kuwait, President George Bush ordered Desert Shield, a massive military buildup to prevent further Iraqi advances.

1997 — Britain's Princess Diana died at age 36 from massive internal injuries suffered in a high-speed car crash, reportedly after being chased by photographers.

And this from the August 1966 Atom ...
"Memories are short and time is fleeting. Bet you did not realize that the South Mesa bridge is fifteen years old this month, its official date of completion being Aug. 20, 1951."

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.

ISOTOPES
Los Alamos
National Laboratory's
Northern New Mexico Day
at Isotopes Park
Monday, Sept. 6

Tickets for the game are \$5 and available at the Public Affairs Office, 135 B Central Park Square in downtown Los Alamos.

PRESENTATION OF THE COLORS

Check the Daily News Bulletin at www.lanl.gov/newsbulletin for more information.



Leadership Los Alamos provides future community leaders in Northern New Mexico

by Kathryn Ostic

President John F. Kennedy once said “Leadership and learning are indispensable to each other,” and Jim Stein of the Director’s Office seems to be living these words. Stein recently graduated from the 2004 Leadership Los Alamos program and currently serves as a board member.

“Leadership Los Alamos provides the next generation of leaders not only in Los Alamos or at the Laboratory, but also in Northern New Mexico. I love this town — there are so many opportunities for growth in Los Alamos. It takes a lot of initiative to be successful, and I hope to be part of the solutions,” said Stein.

The 10-month program is a unique opportunity for 25 citizens of Northern New Mexico who are committed to assuming roles of responsibility in civic, charitable and governmental organizations in the region, said Stein.

Leadership Los Alamos grew out of Leadership New Mexico. The statewide nonprofit organization was founded in 1995. The organization is nonpartisan and does not advocate legislation of any kind, does not endorse political candidates and does not take a stand on any political or social issues, Patty Komo, executive director of Leadership New Mexico said.

The Los Alamos chapter was established in September 2003 by the board and runs from September through May. The Board of Directors of LLA also selects program participants, Stein said.

The program begins with a two-day retreat, Sept. 11 through 13 at Sunrise Springs in Santa Fe. Classes meet from 8 a.m. to 5 p.m., one Friday each month through May of 2005. Each session focuses on a different, civic-oriented topic or issue. To successfully complete the program, LLA participants must attend the annual retreat, graduation and at least five of the remaining seven sessions, said Stein.

Participants develop their skills to shape the future of the region by

- identifying and selecting highly motivated, emerging leaders to participate in the program;
- systematically informing, challenging, and educating participants regarding the opportunities and needs of the community as well as the dynamics of social and economic change;
- counseling participants on management and leadership skills and their application to community leadership positions;
- developing interpersonal relationships and a “esprit de corps” among participants to enable them to work together on community projects;
- creating dialogue and rapport among participants and existing community leaders; and
- identifying opportunities for individual and organizational community involvement.

“There’s another world out there besides Los Alamos — we have a sense of isolation unless we’re out within our own regions in the state, town and surrounding counties.



Jim Stein

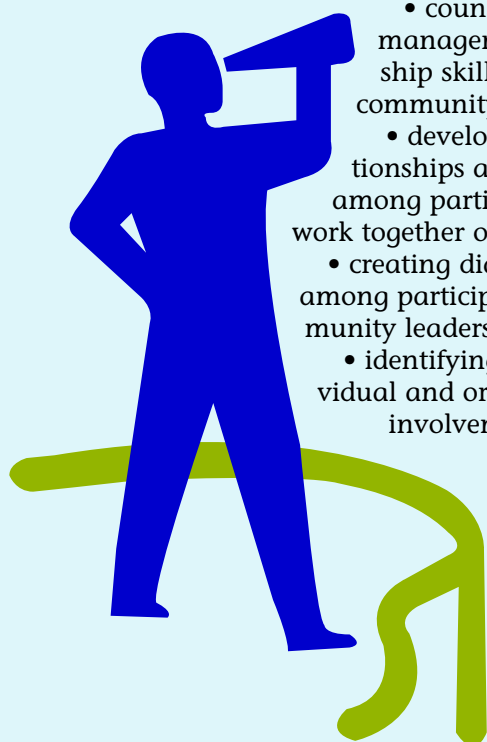
There also are a lot of issues that haven’t been thought of yet. We’re not an island unto ourselves. Our issues in Los Alamos also are related to Northern New Mexico. We’re not in a world where we can afford not to communicate,” said Stein.

In addition to time and dedication, Leadership Los Alamos also requires a financial commitment. Program tuition is \$350. Participants are encouraged to discuss tuition assistance with their employers. Many employers recognize the value of supporting their employees’ endeavors to enhance their skills and community involvement. A limited amount of scholarship assistance also will be available to candidates who demonstrate financial need, Stein said.

Any person having an interest in the objectives of Leadership Los Alamos and who lives or works in Los Alamos County is eligible to participate. The board is aggressively recruiting members especially in the surrounding communities who work in Los Alamos to be more inclusive and to promote regionalism, said Stein.

Program applications are available at the University of California, Northern New Mexico Office located at 1350 Central Ave., Suite 101, Los Alamos, New Mexico, 87544.

For more information about the program, see the Leadership New Mexico Web site at www.leadershipnm.org/index.asp online or call the LLA chapter at 7-3140.



LEADERSHIP
Los Alamos

