Sandia, other labs impress Homeland Security Director Tom Ridge with antiterrorism technologies

By Chris Miller

Homeland Security Director Tom Ridge says he knows what it's going to take to win the war on terrorism. And he saw a perfect example of it recently in Washington, D.C., when Sandia and other laboratories demonstrated for him some of their top antiterrorism technologies.

"In the months and years ahead, technology-based solutions will be a huge component of a comprehensive national homeland security plan," Ridge said at his weekly homeland security briefing Nov. 15, with DOE Secretary Spencer Abraham at his side. "And you [national laboratories] have given me a great deal of assurance, and more importantly, I think you've offered to the public today, all of America, a great deal of assurance that American ingenuity is already at work developing that technology."

Ridge made his remarks following a 40-minute tour at Department of Energy headquarters that featured more than two dozen technologies from the National Nuclear Security Administration’s Sandia, Los Alamos, and Lawrence Livermore national laboratories, as well as from DOE’s science labs — Oak Ridge, Brookhaven, Pacific Northwest, Argonne, and Lawrence Berkeley national laboratories.

Abraham spoke of the “technological wonders” and “wizardry” he and Ridge witnessed. “When I was helping lead this little tour today, I

(Continued on page 5)

Security Police Association, Sandia reach new four-year agreement; bargaining concludes

SETTLEMENT REACHED — Bargaining between Sandia and the Security Police Association (SPA) union has concluded, and a new four-year agreement was ratified by the union’s membership on Nov. 21. "Both bargaining committees are to be commended for the professional approach that was taken to reach an early settlement," says Don Blanton, VP for Human Resources and Protection Services 3000. Contract expiration was midnight Nov. 30. "I believe that the agreement reached was mutually beneficial to both the union and the Labs and enhances a sense of trust and esprit de corps that is building within our ProForce." Pictured in silhouette at left is Sandia Security Police Officer Dennis Carroll. (Photo by Randy Montoya)

Charitable commitments deepen in this year’s LEAP campaign

Kirtland commander thanks Sandia security team

Sandians advance to distinguished, senior ranks

Fourteen Sandia teams, one individual receive DOE Weapon Awards of Excellence

Ceremony carries patriotic theme

By Chris Burroughs

In a ceremony that carried a patriotic theme, one individual and 14 Sandia teams received DOE Weapon Awards of Excellence this month.

On hand to offer congratulations and present the awards were Tom Hunter, Senior VP 9000; Steve Goodrum, Assistant Manager of National Defense Programs at DOE Albuquerque operations; John Stichman, VP 2000; Lenny Martinez, VP 14000; and Al Romig, VP 1000. Rodney Wilson, Deputy Director in 9800 for the Systems Planning & Integration Group 9830, was the master of ceremonies.

During the ceremony Tom emphasized the importance of maintaining a strong national security posture in this country.

“If you are like me, your reaction to the events of Sept. 11, horrible as they were, was to ask how the capabilities of Sandia could be used in the response of this attack on our homeland,” Tom said. “After all, Sandia’s role in deterrence is not simply one of providing support to the nuclear weapons stockpile, because it is not only the nuclear weapons themselves

(Continued on page 8)
Dark day puts Sandia in spotlight — Sandia and our antiterrorism technology have received a huge amount of publicity and other attention since Sept. 11. It’s extremely sad that it took the tragic events of that day to focus such attention on us, but we have been saying since the early 1990s that Sandia is not only a nuclear weapons laboratory, but a true national security laboratory.

Many people understand that better today, including important national leaders such as Homeland Security Director Tom Ridge and DOE Secretary Spencer Abraham. That will be evident when you read Chris Miller’s page-one article that includes some of their comments at the Nov. 15 demonstration of the national lab’s technologies in Washington. Now is not a time to gloat about our accomplishments, but we rightfully share a lot of quiet pride today in our laboratory, and that’s good.

Not exactly profound — At the prompting of Barry Schwartz (3130), I asked Sandians in the last issue to submit “profound” remarks they’ve heard from managers during performance review sessions. Barry submitted this classic to start it off: “You picked a bad year to have a good year.” (See last column item for more about Barry.)

Here’s some of the input from readers, all of whom wanted to remain anonymous (not too surprising).

• A female technician, in the early 1980s in her first review after changing organizations, was told, “You already make more than the guys that have been here for 20 years.” “This statement,” she says, “made me realize that ‘merit review’ [name for the process in those days] was a misnomer.” (Most managers, we agree, have become wiser in recent years. Most.)

• Reporting on a recent discussion, a Sandian notes an early manager early on told her she needed to “become more visible to all the center managers.” Later on, she adds, the manager commented that “her work is well-known among center managers and to keep up the good work.”

• “During my performance review a couple of years ago,” says another Sandian, “I was asked when I planned to retire. Needless to say, I was very taken aback.” (I guess that beats the question I usually get after 20 years.” “This statement,” she says, “made me realize exactly where I was.”)

Sensitivity bears its ugly head — Finding your keys in the fridge or the TV remote control in the car are bad experiences as you “mature,” but there are even worse ones. You also forget names and misspell names in letters from your own last name and going by “Prine.” Now people will probably ask me whether I’m related to aging folk singer John Prine instead of aging actress Valerie Perrine (my “honorary sister”).

— Larry Perrine, AKA Prine (845-8511, MS 0165, lperrine@sandia.gov)

Benifits statements mailed to Sandians at home addresses

Now that the Open Enrollment period for Benefits Choices 2002 has ended, the Benefits Department has begun mailing out Benefits Confirmation statements to nonrepresented employees, T&D, and OPEU-represented employees, and retirees.

The statements are being mailed to all Sandians at their home addresses, regardless of whether they made any elections or changes through the Open Enrollment phone system.

Each statement lists the Sandian’s Jan. 1, 2002, coverage for medical and dental plans, Voluntary Group Accident coverage, and any elections made under the Reimbursement Spending Account plan. This plan is available for the 2002 calendar year.

SPA-represented employees’ Open Enrollment period runs Dec. 3-16; they will receive their coverage confirmation statements the week of Dec. 17. The Benefits Dept. asks that you review your Benefit Confirmation statement immediately and notify the Benefits Customer Service Center at 845-BENE if there is any problem with the information. (No need to call if correct.)

Open Enrollment appeals

Any requests for exceptions relating to the 2002 Benefits Open Enrollment process must be made in writing and mailed to: Appeals Committee, Benefits Dept., MS H022. Requests must be received by the Benefits Dept. Open Enrollment Appeals Committee by Dec. 17, 2001. Questions? Call the Benefits Customer Service Center at 845-BENE (2366).

Sandians and others will gather at the Sandia Science and Technology Park at 2:30 p.m. Tuesday (Dec. 4) to break ground for the new International Programs Building.

Sanford DeLamater, DNRC Deputy Director, will speak at the ceremony, which will be hosted by Senior VP for National Security and Arms Control Roger Hagern (5600) and Dona Ellis, Director of International Security Center 5300. The new building will provide space for the consolidation of International Security Center programs that are now housed in Sandia’s Tech Area 1 and in Research Park just outside Kirtland AFB’s Eyebank Gate.

International Programs Building groundbreaking

Because of heightened security on Kirtland Air Force Base, the following guidelines from Paul Younick, Manager of Integrated Safety and Security Dept. 3120, are being provided to answer security questions about holiday collection/donation activities at Sandia/ New Mexico, while staying within the intent of current KAFB security conditions.

Assumptions under current security conditions:

• Large unattended vehicles, trailers, semitrailers, collection bins, etc., pose a security risk.
• Unmarked unattended packages, where the contents are not identifiable (e.g., wrapped gifts), will be considered suspicious packages and will likely result in an emergency response.
• Large accumulations of unattended items could potentially be used to hide other suspicious packages.
• The general Sandia population is much more aware of conditions that could pose a security risk, or that look unusual, and may call for a security response.

Given those assumptions, the following general guidance about holiday collection/donation activities will help avoid those conditions:

• Vehicles, trailers, semis, large collection bins, etc., should not be staged on KAFB as accumulation areas to collect donations. (Reminder: Government vehicles are for official use only.)

• Gifts should be left unwrapped to allow for identification of the contents and to facilitate further inspection.
• Local accumulation points should not be allowed to “pile up.” The donation organizers will need to plan for timely movement of items.
• Donation organizers should be aware of conditions that might be viewed by others as suspicious in nature.
• Donation organizations should have contingency plans in case security conditions on base tighten before the holidays; e.g., plan availability of off-base drop off points.

Donation organizations can contact the Ethics Office help line at 844-1744 or visit the Web site at http://www.irm.sandia.gov/organization/ gift2000/ctr21700/ctr21700.html if they have questions about using the Sandia/ New Mexico resources to communicate, collect, and distribute.

If you would like to organize a holiday giving project at Sandia, contact Volunteer Project Coordinator Darlene Leonard at 844-8024 for information about agencies and individuals needing help.

Charitable commitments deepen in LEAP campaign

Donation dollars climb, surpass last year’s total

By Nancy Garcia

Despite an uncertain economic climate and a delayed start to this year’s charitable giving campaign at the California site, preliminary totals indicate that donations have climbed since the previous year, although falling short of the announced goal of $235,000.

Chair Larry Rahn (8351) expects total contributions to surpass $220,000, up from last year’s total of $213,000. When the ini-

tial chair, Taz Bramlette, retired, Larry stepped in, formulating a committee in June with co-chair Tony Chen (8726).

This year’s theme, “Lighting the Way in Our Community,” reflects ways that the Livermore Employees Assistance Program (LEAP) connects us to our communities. The committee felt that the theme might appeal to different people in different ways. “Community” could be the Sandia/California site, the employees’ places of residence, or all workers who donate to charitable causes. “All of these are valuable,” Larry says.

This year, the committee organized incentives to draw attention to the opportunity to participate in LEAP. Drawings have been planned for the approximately 18 gifts donated by local businesses with assistance of the Tri-Valley Community Fund, which supports Sandia’s efforts to raise donations for charities at the California site.

The drawings are divided into four categories. Those persons who simply filled out a form indicating they had considered the opportunity to participate in LEAP are eligible. People who participated early, by the time the LEAP fair was held on site, are a second group of potential winners. A third group are employees who donated a percentage of income instead of a fixed amount. The fourth group gave at least 0.6 percent of income.

“Of course,” Larry says, “the most important motivator is the agencies’ work, why it’s needed, and the services they offer.” Incentives are just one more way to motivate employees to take a little time to consider the need and their own response.

Next year, Tony will chair the LEAP effort, providing continuity in the challenge to raise awareness. The committee hopes to get an early start next year, Larry says, and to reach out to the healthy quotient of new hires expected to be brought on board, whose ties to the community are still growing.

This year, Larry says, it appeared that fewer people overall participated in making donations — but the increased total indicates that they increased the amounts they gave. “The commitment for giving is up considerably,” he says. “People are very committed.”
Kirtland commander thanks Sandia security team; two Labs contractors decline standoff pay

Kirtland Air Force Base Commander Col. Denny Eakle has sent a handwritten thank-you note to Sandia President and Labs Director Paul Robinson for the Labs’ support and cooperation during the period of heightened security since Sept. 11. Paul wanted to share the key part with Sandians:

“Once again, I want to thank you and your entire team for your support during this period,” she wrote. “In particular, I’d like to thank the security team for their great professionalism in working with our cops. In addition, your guys have genuinely made a difference to all of Team Kirtland.”

Due to the security concerns on Kirtland AFB immediately after the Sept. 11 terrorist attacks, nonessential Sandians were sent home at midnight. The same was true of outside contractors working on-site. Construction, remodeling, and maintenance work was halted, and the contract workers sent off base. The standdown continued that day and the next.

Sandia management met soon thereafter to decide what to do about its contractors’ several days of mandatory work stoppage. It decided to reimburse the companies for the lost time.

Now something interesting has happened. Several of the companies have declined the offer, out of patriotic grounds.

The presidents of two of the companies have written to thank Sandia for offering to pay them for their employees’ no-work days but stating they will absorb the loss as their own “donation” to the nation’s cause.

Paul wrote to please him not only sent letters thanking the contractors for their “noble” actions but also asked the Lab News to bring them to everyone’s attention.

Here is how Mark Henderson, president of the J.B. Henderson Construction Co. of Albuquerque and Los Alamos (“building New Mexico since 1939!” is the company’s motto) put his sentiments in his letter to Sandia:

“We truly appreciate and recognize your one-time offer to support our firm in allowing employees remain on site and assign employees not available or accessible for the employees that attempted to gain access to work [on Sept. 11 and 12]. It is with clear conscience that we decline to accept your offer.

“As a result of the current national terrorist incidents we believe that future budgets for work at Sandia and related entities may be in jeopardy and although we realize that our offer to decline may not save much money, it is the least we can do in an effort to have every available dollar go to the national defense and other emergency activities.

“Please rest assured that we will pay our employees according to the agreements that we have . . . and will not ask for reimbursement from Sandia for these costs.

“Again we truly appreciate Sandia’s offer to help our company in a manner and hold them in the highest regard as a customer. Please do not hesitate to call me or anyone else at our firm if we need are needed in any way to help out in the protection of our great nation.”

Troy Beall, president of R&D Electric Co., an Albuquerque company that does commercial and industrial wiring and mechanical control, wrote this note of thanks:

“We appreciate and respect your offer to support our company in allowing our employees to get paid for the time missed due to the national terrorist tragedy.

“We have met with our employees and we feel that as a company it is our contribution to Sandia National Labs and to our nation to reject your very generous offer. This is the least we can do to support you in this time of national emergency.”

Paul calls the two companies’ decisions “a remarkable act.”

In letters to Henderson and Beall, Paul said, “It is with heartfelt thanks that I write to acknowledge your very noble gesture to Sandia and to the nation. All of us are here by your spontaneous and unique gesture and your deep sense of patriotism.

“During these difficult times, we must join together to defeat these threats to our way of life. . . . We thank you for your unselfish actions.”

Lab News editor Ken Frazier receives ‘In Praise of Reason’ Award

Sandian Ken Frazier (12640, editor of the Lab News) has received a nonprofit scientific and educational organization’s highest honor, its “In Praise of Reason” Award, for his outside activities on behalf of science, reason, and critical thinking.

The In Praise of Reason Award is given for “distinguished contributions to the use of critical inquiry, scientific evidence, and reason in evaluating claims to knowledge.” Previous recipients include Carl Sagan, Martin Gardner, Stephen Jay Gould, Richard Dawkins, Leon Lederman, and Don Blanton.

The award comes from the Committee for the Scientific Investigation of Claims of the Paranormal (CSICOP), an international organization based in Amherst, N.Y.

CSICOP promotes science, scientific inquiry, and science education and critiques and debunks pseudoscientific and paranormal claims.

Ken was given the award for his “extraordinary contributions to skepticism as editor of the Skeptical Inquirer and other activities.”

“The Skeptical Inquirer, subtitled The Magazine for Science and Reason, is CSICOP’s bimonthly journal. Ken has been its editor, on his own time, since 1976.

CSICOP founder and chairman Paul Kurtz presented the award to Ken on Nov. 10 at the center for Inquiry conference in Atlanta.

Help the homeless

Make First Day of Winter your holiday celebration…we’ll provide the food, entertainment and fun!

• The First Day of Winter is held at the Albuquerque Convention Center
• December 19, 2001, 6-9 p.m.
• Individual tickets are $35 each. Table sponsorships are available. (For more information, please call: 766-5197.)

First Day of Winter is the annual fundraiser held by Albuquerque Healthcare for the Homeless (AHCH) to raise awareness and funds to support programs that help homeless men, women, and children in our community. AHCH is a private, 501(c)(3) non-profit organization.

Norm DeMeza receives major award from Society of Manufacturing Engineers

Norm DeMeza, Director of Manufacturing Science and Technology Center 14100, has been given the Society of Manufacturing Engineers (SME) Desert-Pacific Region 12 2001 Distinguished Manufacturing Achievement Award.

States the award citation: “For distinguished manufacturing contributions to industry, education, and the engineering community with the introduction of dedicated, dynamic technology and innovative programs that impact the needs of industrial productivity and engineering innovation worldwide through the 21st century.”

The award honors not only Norm’s own contributions but Sandia’s support of regional private industry, the Labs’ involvement in SME, Sandia’s manufacturing-related research, and the mentorship and promotion of local manufacturing talent.

RQ: When the 9/80 work schedule was put into place, a policy was made that meetings should not be scheduled on Fridays. I think this is adhered to by most groups. However, one thing I’ve noticed more and more is the number of meetings (VP- or center-wide) that are scheduled to begin at 7:30 a.m. or end at 5 p.m. For people on a regular schedule, this may require making changes for transportation or child care. Is there any policy about honoring the regular schedule? A: The 9/80 Work Schedule is designed to allow people on a regular schedule, this may require making changes for transportation or child care. Is there any policy about honoring the regular schedule? A: The 9/80 Work Schedule is designed to allow people

— Don Blanton (3000)
felt a little bit like Q in those old James Bond movies, with Gov. Ridge as our James Bond,” he said.

Sandia presented decontamination foam, ChemLab™, Hound™ and Hound II™, Rapid Syndrome Validation Project™ (RSVP), robotics, and jointly presented information on the National Infrastructure Simulation and Analysis Center (NISAC) with Los Alamos.

“It was obvious to me that both [Ridge and Abraham] understood the implication and potential applications of a combination of cooperative behavior, advanced mobility, and miniaturization for homeland defense,” says Barry Spletzer (15211), who presented a variety of robotics with Paul Klarer (15252). “One specific area we talked about was using a small cooperative swarm to map out a building’s ductwork, decontaminate it, and assure that the decontamination effort was complete.”

Sam Varnado (6500), who helped present NISAC, which provides computer modeling and analysis of the nation’s at-risk infrastructures, says Ridge seemed very interested in the technology.

“When I mentioned some of the uses for it, such as determining which infrastructures to bring back up after a disaster and its use in identifying critical nodes that should be protected, he broke into a smile,” Sam says. “He impressed me as being a very intelligent man who, although he is not a technologist, understands what technology can do for him.”

Al Zelicoff (5320) says Ridge also showed a great deal of interest in RSVP, an Internet-based collection and response system that enables doctors and health workers to easily report suspicious illnesses to a central point.

“He said he was going to have his people contact my people,” Al says. “Also, a friend of mine saw Ridge on Larry King Live that evening and told me that he specifically mentioned the disease-monitoring program he saw at the DOE.”

Other Sandia presenters were David Hannum (5848), with Hound and Hound II, hand-portable sample and preconcentration devices capable of detecting faint odors (parts per trillion) of explosives, drugs, and other chemicals; Larry Bustard, Mark Tucker, and Rita Betty (6245), with decontamination foam; and Duane Lindner (8101) and Pat Lewis (1764), with ChemLab, the handheld equivalent of a fully staffed chemical/biological detection and identification laboratory.

Sandia President C. Paul Robinson, who attended the tour and briefing with fellow lab directors John Browne of Los Alamos and Bruce Tarter of Lawrence Livermore national laboratories, says he was delighted with Ridge’s interest in the laboratories’ counterterrorism technologies.

“We’ve been working on a lot of these things, some for as long as five years. So, there is a lot of pride in having Gov. Ridge see them for himself,” Paul says.
69 Sandians move into Distinguished, Senior ranks

Divisions announce DMTS, DMLS, DTNG, DASA, Sr. Scientist/Engineer, and Sr. Administrator appointments

As has been its tradition for many years, the Lab News presents photographs of Sandians who have received special appointments this year. The special appointments represent employees from all aspects of the Labs operations: Senior Scientist/Engineers, Distinguished Members of Technical Staff, Distinguished Members of Laboratory Staff, Distinguished Technologists, and Distinguished Administrative Staff Associates.

According to Corporate Process requirement documents, “Placement in the Distinguished Level signifies a promotion to the highest level of the Technical Staff, Laboratory Staff, Technologist, or Administrative Staff Associate Ladder. This level is different from the other levels in that it is subject to a 10 percent population limitation to preserve the distinction of the level.”

During a new era of intensive recruitment — Sandia plans to hire as many as 500 new employees each year for the next several years — one of the Labs’ key “total rewards” incentives has been the quality of the folks who work here. The individuals pictured here represent the world-class quality of the Labs workforce at its best.

Employees selected for the new levels have been recognized with a special plaque and a non-base salary award, in addition to this special mention in the Lab News.

The Distinguished and Senior levels are part and parcel of the Integrated Job Structure (IJS) goal of providing multiple career paths for employees. The IJS’s dual-track structure — management and staff — makes it possible for employees to advance in salary, prestige, and recognition without following a management track. Photos of the honorees are shown on this and the facing page.

Not pictured:

Stewart Cameron (15336), DMTS; George Davidson (9212), DMTS; Donald Herron (2256), DTNG; David Jones (14405), DTNG; John Nagel (2103), DMTS; William Morse (15252), DMTS

Laureen Atencio
DASA 6001
Ralston Barnard
DMTS 6804

Lothar Bieg
DMTS 14184

Elaine Boespflug
DTNG 2552

Matrice Bordlemay
DASA 10256

Patrick Brady
DMTS 6118

John Burns
DMTS 6521

Jeff Carlson
DMTS 15212

Rosario Chavez
DASA 2660

Carol Christensen
DMLS 2102

Virginia Clark
DMLS 9902

Richard Conaway
Sr. Admin. 10500

Delene Cox
DASA 6850

Margaret Davis
DASA 12124

Donna Davis
DTNG 8945

Max Decker
DMTS 5743

Grace Delgado
DASA 8511

Lawrence Desonier
DMTS 5323

James Eanes
DMLS 10252

Susan Esfahani
DMTS 2341

Waylon Ferguson
DMLS 10508

Roy Fitzgerald
DMLS 10257

Dave Fordham
DMTS 9813

Michelle Fromm-Lewis
DMLS 3021

Rod Geer
Sr. Admin. 12640

Robert Goetsch
DMLS 2954

Steve Greene
DMTS 2666

Robert Hardy
DTNG 6117

Steve Hatch
DMTS 2131

Tracy Jones
DMTS 10305

Sabina Jordan
DMTS 5838

Tom Kerschen
DMTS 12335

Divisions announce DMTS, DMLS, DTNG, DASA, Sr. Scientist/Engineer, and Sr. Administrator appointments

New Mexico photos by Bill Doty and Walter Dickman
California photos by Lynda Hadley
Sandians advance to Distinguished, Senior levels

To meet the eligibility standards for appointment to the Distinguished level, an employee must:

- Meet all IJS level criteria for the Distinguished level as described in the IJS level chart at www-im.sandia.gov/HR/Compensation/level.html.
- Have a record of sustained high performance/value of contribution for at least the past three years.
- Have five or more years’ Sandia experience in the ladder [i.e., technical ladder, ASA ladder, administrative ladder, or technologist ladder] for which they are being nominated on the effective date of the promotion (early October). Time in the ladder does not need to be continuous.

Senior Scientists/Engineers/Administrators are selective appointments [that] recognize the personal expertise and reputation at a national or international level in a scientific/engineering/administrative field or program. These individual contributors have the proven ability to provide technical leadership and strategic vision to the Laboratories. There is no specific limit to the number of Senior-level staff appointments, but a general guideline would be “fewer than the number of centers in the division.”
but the capabilities represented by the nuclear weapons enterprise to respond to a host of national security needs that contributes to our deterrence. “Thus, as we honor these Sandians today, we do so not only for their contributions to the nuclear weapons program, but, more broadly, to our national security.”

Prior to announcing the recipients, Rodney gave a brief history of the DOE Weapons Program Recognition of Excellence Award. It was created in the early 1980s to give special recognition to those people at the laboratories and plants directly associated with the stockpile modernization program. “Today the situation is somewhat different compared to the 1980s in terms of the workload at the labs and plants,” Rodney said. “However there should be no confusion anywhere that the nuclear weapons mission at Sandia is no less important today than it was then.”

The awards, he said, honor exceptional contributions to the stewardship and management of the stockpile of the singular responsibility we have to provide ‘exceptional service in the national interest.’ The sole individual award went to Larry Lukens (2614) for his key role in identifying and successfully addressing weapon spin characteristics and their implications on environmental sensitivity. As a result of his efforts, Larry significantly contributed to ensuring the quality and confidence of the B61 program. The following summarizes the achievements of the teams receiving awards.

Del-Cap Team

The Del-Cap (for Deliverables and Capabilities) Team worked to generate more than 6,000 specific demands for capabilities necessary to meet stockpile deliverables, generated estimates of the cost of the stockpile to do so, and did it largely in addition to their primary work assignments — and all within 90 days. This information is already being used to identify skill shortages at Sandia and will be used to assess and inform the distribution of budget to critical nuclear weapons capabilities.

B61 Powder Coat Team

B61 Powder Coat Team showed significant improvements in the B61 program at the Honeywell/FM&T plant through the use of powder paint instead of liquid paints traditionally used on weapon hardware. The team provided a more durable coating, using a process that shortens material flow time and reduces costs.

MC4380 Neutron Generator Design, Qualification, System Integration, and Production Team

The MC4380 neutron generator, qualifying it with out underground testing. The team also integrated the design into the W76 warhead and started the production of the generator.

Sandia Reactor Pit Test Team

The Reactor Pit Test Team accomplished important work on neutron irradiation environment.
Weapons (Continued from preceding page)

ments hostile to nuclear weapons during their use. The work is key to making sure that designs work as intended.

W80 Surety Team

The W80 Surety Team worked to ensure the surety of W80 field operations. In FY99 Sandia’s Air-Delivered Weapons Department conducted testing and analysis that demonstrated the significant contribution to surety. Results were presented to the Air Force at the highest levels, resulting in incorporation of new procedures to allow for all available warhead surety features to be employed by the end of FY00.

W76/W78/W87 Recertification PRT Team

The W76/W78/W87 Recertification PRT Team planned the W87 ALT342 Life Extension Program for the DOE Stockpile Stewardship Program and made technical decisions regarding specific modifications to the Sandia-designed hardware that would be performed. Team members redesigned mechanical hardware, supported the flight and ground test qualification program jointly with Lawrence Livermore National Laboratory, and addressed manufacturing issues with the production agencies.

MDE Design to Manufacturing Team

The MDE (for Manufacturing Development Engineering) Design to Manufacturing Team has delivered more than 40,000 custom components to the nuclear weapons complex since it began in 1992. The team was honored for design-to-manufacturing that encompasses technology development through design and engineering to produce highly reliable products for low-volume manufacturing environments required to support the stockpile.

W87 ALT342 Life Extension Program Team

The W87 ALT342 (ALT for Alteration) or MODS (modifications) Life Extension Program Team was responsible for planning the ALT and making technical decisions regarding specific modifications to the Sandia-designed hardware that would be performed.

B61-11 ALT349 Certification Team

The B61-11 ALT349 Certification Team performed certification of the B61-11 ALT349 through advanced predictive analysis supported with a limited field test effort. The work was conducted in a short time frame to support stockpile entry through a factory retrofit in FY00.

W76-0 SS-21 NESS Reauthorization Team

W76-0 SS-21 NESS (Nuclear Explosive Safety Study) Reauthorization Team re-established disassembly and inspection operations at the Pantex Plant in support of quantifiably safer, more secure, and higher quality weapons handling. Team members are trailblazers because this is the first enduring stockpile weapons system to complete this major DOE upgrade in facility, handling, and procedural safety at the Pantex Plant.

PZ 95/5 Team

The PZ 95/5 Team developed a new source of lead zirconate titanate (PZT 95/5) for neutron generator production.

VPA Renegotiation Team

The VPA (Volume Pricing Agreement) Renegotiation Team renegotiated a volume pricing agreement with a major software vendor, saving Sandia and the nuclear weapons complex millions of dollars.

B61-3,-4,-7,-10 MC3002A Subsystem Qualification Test Team

The B61-3/4/7/10 MC3002A Subsystem Qualification Test Team was responsible for the design margin and qualification tests conducted at temperature extremes for the introduction of the new MC3002A gas generator into the B61 stockpile.

CAT-H Permissive Action Link Design Team

The CAT-H Permissive Action Link Design Team developed a new category of permissive action link, CAT-H, which uses advanced control that conforms to the absolute minimum volume constraints in retrofitting some existing weapons. The group overcame significant technical challenges and provided a rare opportunity to introduce new technologies into the stockpile.

Recent Patents

Philip Fuerschbach (1833), A. Roderick Mahoney (6215), and John Milewski: Method for Laser Welding a Fin and a Tube.

James Martin (1122), Robert Hughes (1744), and Robert Anderson (1843): Field-Structured Material Media and Methods for Synthesis Thereof.

Brian Dodson (11500), James Fleming (1749), and Shawn-Yu Lin (1743): Photodetectors with Passive Thermal Radiation Control.

Jeffrey Martin (5712), James Redmond (9124), Tammy Henson (5712), and Robert Watson (11500): Electron Gun Controlled Smart Structure.

Mark Savage (1643) and Clifford Mendel, Jr. (1644): Plasma Opening Switch.

Ernest Garcia (2614), David Plummer (2330), and Marc Polosky (2614): Microelectromechanical Timer.


Timothy Boyle (1846): Tridentate Ligated Heteronuclear Tin (II) Alkoxides for Use as Base Catalysts.

Barry Spletzer, Gary Fischer, and John Feddema (all 15211): Steerable Vertical to Horizontal Energy Transducer for Mobile Robots.

Steven Gianoulakis (9117): Crystal Growth and Annealing Method and Apparatus.

Robert Brooks (1733), David Shaw, and John Polland: Adhesive Elastomeric Gel Impregnating Composition.

David Campbell (1736): Microelectromechanical Accelerometer with Resonance-Canceling Control Circuit Including an Idle State.

Congratulations

To Vanessa (2955) and Byron Miles, a daughter, Valerie Christina, Aug. 10.
Feedback

Readers ask questions about student parking, television sets

Q: Please clarify contractor and student parking privileges. We periodically have both park in the visitor parking spaces west of Bldg. 878 and south of the Thunderbird Café.

A: Contractors, students, and employees must follow the same parking rules. They must park in properly designated parking places. To park in a visitor parking slot, the vehicle should not have a Sandia base decal. Also, to park in carpool spaces, the vehicle must display two placards issued by Sandia for carpool parking. Please notify the Security Desk Lieutenant at 844-3155 if vehicles are parked in the visitor slots incorrectly. Visitor slots are limited in number and are located in areas where short-term parking is required for others conducting business at the Laboratories.

— Ed Williams (7849), Chairman, Sandia Traffic Safety Committee

Q: Why are there so many television sets switched on at Sandia? For example, look in the cafeteria. I think it wastes energy and causes distraction. Let’s at least remove them from reception areas.

A: We periodically receive questions similar to yours. A survey in one area shows a 4 to 1 preference to have monitors available. And, based on requests to add additional monitors, we believe employees want this service. More than 14 monitors were installed during the past year — always at the request of customers. The most recent additions are the four in the cafeteria (removed during the renovation) we were asked to reinstall.

The primary purpose of the TV monitors is to convey corporate information. They are useful for corporate-wide events and communication where it is impossible to get everyone into the auditoriums. They are also used to highlight lab accomplishments, as well as to show the Lockheed Martin LM1 video. Announcements of upcoming events, classes, and visitors are available on scrolls on the lower portion of the screen.

Some people consider reception areas as ideal places for monitors since they provide opportunity to catch up on the Sandia news or news of the world. Since watching the monitor is optional, we will continue to have them available for those who are interested.

— Lana Everett (12610)
MISCELLANEOUS

FOUR-POSTER WOODEN FRAME, king-size, 3-drwrs, 6-drawer pedestal, like new, you move, cost $1,000, asking $350. 157-7825.

FIVE CATS, 7 mos. old; Jack Russell Terrier, Maine Coon, Rottweiler. All good home. Mickey. 452-3907.

SUB-WOOFER, JBL Pro, BL 2240 and SoloFlex Home Gym, must sell, $200.

BABY CRIBS: 1 wooden, never used, $20. 1 metal, $40. 1 Spring Air, $140.

MALE SHELTIE, 7-mos., pure breed, $250. Also, 3-D rotocast, $30. 100-1329.

FURNITURE: couch, loveseat, $100; recliner, good condition, $65; coffee table, $20; glass top, $30.

TICKETS, anywhere Southwest flies, $800. 208-7620.

FRAMED OIL PAINTING, 2 white horses grazing, 32" x 44", $40. Plimpton, 275-7456.

SPARE TIRE & RIM, Michelin w/600W drive, 46" x 29" x 21", $125. Vigil, 271-7610.

HEALTHCARE, excellent condition, $100. Carlson, 836-2854, ask for Pat.


TRAWS, $80; football, 2 tickets for Dec. 9 game w/Seattle, $65 ea. Rutter, 869-6381.

SOFA, loveseat, great condition, $200. $125 OBO. 270-5382.

WURLITZER CONSOLE PIANO, very well kept, excellent family piano, $1,600 OBO. Ozacon, 882-3180.

YJ CHEVY BLAIR AIR, 3-4 engines, 86K original miles, good tires, new batteries, $250; 320; 850. Stamm, 255-2640.

CMC TRUCK, VJX, V8, $4,000 in extras beautiful truck, $9,000. Garcia, 384-8201.


BASS AMP, Hartke B60, zoom BFX-708 bass effects, processing unit, $1,000. Miyoshi, 821-9118.

WURLITZER CONSOLE PIANO, vintage, excellent condition. Aube, 232-2167.

7. No "for rent" ad except for em-
duction, rollin platform, $100. Dey, 271-1238.

OAK BEDROOM SET, queen-size headboard, maple armoire, dresser/mirror, $600, light-beige couch, $200, assorted gold decor, titles, magazines. Cory, 821-4861.

LADIES LACED BOOTS, size 7, good condition, 7 colors, antique style, $25 each. 828-7121.


OSTER JUICER, $25, Corely, 40 pieces, stainless steel juicer. $35; Mephisto hiking boots, size 9.5, $125. J. Fiala, 283-1120.

FURNITURE: matching chair, good condition, $125; round table, $50. Walker, 294-7538.

COFFEE TABLE, glass top, $75; chair without arms, $25; footstool, $25. Walker, 294-7538.

OLYMPUS OM-1 CAMERA SYSTEM, 5-lens kit, very good condition, $500. Lunt, 898-9501.

7. No "for rent" ad except for em-

LAMINATE OAK DESK, w/6 drawers & 2 cabinets, $400 OBO; antique bedstead, headboard, footboard, $160; mirror, $175 OBO Mirabal, 792-0889, ask for Desire.

HALLSHIRT, good condition, will pay up to $100. 2 large room, $150 OBO. 792-0730.

GAMAGE DESK, w/6 drawers, $100; chair for sale, $65. 2-BDR. HOME, Edgewood, views, $750. 294-7599.

MATTRESS & DOUBLE DRESSER, $200 each. 2 large rooms, $110. 2-BDR. HOME, Edgewood, views, $750. 294-7599.

KITCHEN RANGE, Amana glass-top range, w/mounting hardware, $250. Hoffman, 844-7348.

10a.m.-5p.m. 11/30 & 12/1, 3-BDR. HOME, custom by Scott Anderson, study, 2-1/2 baths, open ft., 1-car garage, covered patio, $395,000. Patrick, 281-8291.

3-BDR. MOBILE HOME, 29' x 8', $8,500. Garcia, 384-0013.


SOUTH CENTRAL N.M., 2-BDR. HOME, 1-1/2 baths, upgraded, real nice, $99,000. Ozacon, 384-8201.

SANDIA LAB NEWS is distributed in-
Shoes for Kids: Sandians deliver the shoes, kids deliver the smiles

When Dorothy clicked her heels together in *The Wizard of Oz*, she went back home with a pair of shiny red shoes. That, in a way, is what the Shoes for Kids Campaign is all about. It gives an opportunity to children who do not have shiny shoes to get them and take them home.

Shoes for Kids gives us the opportunity to come together and make economically disadvantaged children in our community happy. This Sandian-created program has been going on for the past 45 years.

With the generosity of Sandians and partners (Sandia retirees, Sandia National Laboratory Federal Credit Union, Albuquerque Public Schools, and Mervyn’s), we have helped more than 7,700 children in our community. There certainly isn’t a tin man in our Sandia community. This community has a heart.

It is amazing what a pair of Nikes can do for a small child, especially one who does not get a new pair very often. Their faces light up and their smiles become unbelievably captivating. They jump, just to make sure the shoes fit, they look in the mirror, and they try to control their excitement.

“Can I get any pair of shoes I want?” asks a little girl at a recent shoe fitting at Mervyns. When the answer came back “yes,” from a Mervyn’s employee, the little girl was beside herself in trying to make a decision. Then, taking her little sister’s hand, she went on to help her find her own special pair. With their shoes in one hand and holding each other with the other, they board the school bus (back to Kansas?). These little ones do not realize they are economically disadvantaged. They just happen to be here getting a new pair of shoes. Let’s keep it that way.

The 2001 Shoes for Kids Campaign has started. Donations can be made at the Credit Union to Account #223180 or call 293-0500 to request a direct transfer. Contact SFC Coordinator Pam Catanach, Community Involvement Dept. 12650, at 284-5211 if you have questions or would like to participate in helping the kids find their new pair of shoes.

*Story by Iris Aboytes*
*Photos by Randy Montoya*