

Labs-tested gun residue detection technique will help cops ID shooters right at the crime scene

Colorado company to test field kits with police departments of four major US metro areas this month



INVISIBLE EVIDENCE — Pam Walker (2552) demonstrates use of a fiberglass swab that is part of a new Instant Shooter ID Kit police officers can use to rapidly determine whether someone has fired a gun. Sandia explosives experts suggested, tested, and licensed the technique to a Colorado company. (Photo by Randy Montoya)

By John German

When people gather at the scene of a violent crime, police officers investigating the crime typically hear a lot of “he said, she said.” Either that or nobody saw nuthin’.

Now Sandia explosives engineers, working with a company that specializes in police gadgetry, have come up with a technique that will help officers at the crime scene quickly narrow the list of suspects in a shooting to those who have recently fired a gun.

The field test kit for gunshot residue detection will be available to some law enforcement agencies this month, says Greg MacAleese, CEO of Law Enforcement Technologies, Inc. (LET), the Colorado Springs company that licensed from Sandia the chemical detection technique that makes the kits possible.

“Police don’t have anything today that can tell them instantly whether someone has fired a gun or not,” says MacAleese. “The speed in being able to focus on a more limited array of suspects is really critical to law enforcement’s ability to solve a crime. The faster we are able to ID them, the more likely we are to convict them.” (See “At fresh crime scenes, minutes matter” on page 4.)

In trials at Sandia the technique was effective

(Continued on page 4)

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National labs have large role to play in homeland defense, says Sen. Harry Reid

Reid joins N.M. Sens. Jeff Bingaman and Pete Domenici for Sandia visit

By Chris Burroughs

Sandia and Los Alamos national laboratories have key roles to play in the area of homeland defense and the fight against terrorism.

That was one of the messages Sen. Harry Reid, D-Nev., the Senate’s assistant majority leader, told reporters during a news conference Feb. 1 at Sandia. His remarks came following a morning tour of the Labs and briefings on stockpile stewardship, microtechnologies, explosive detection technologies, and antiterrorism activities.

Joining him on the visit were New Mexico Sens. Pete Domenici and Jeff Bingaman, and John Gordon, DOE Under Secretary for Nuclear Security and Administrator of the National Nuclear Security Administration (NNSA).

The three senators and Gordon had a similar tour of Los Alamos National Laboratory the



SEN. HARRY REID makes a point during a Feb. 1 news conference at Sandia. Behind him is Labs President Paul Robinson.

(Photo by Randy Montoya)

day before.

In informal comments Reid spoke glowingly about the labs’ capabilities and then answered questions, including one from a reporter asking if Sandia and Los Alamos can contribute to homeland defense.

“The answer is ‘yes’ underscored a hundred times,” said Reid, also chairman of the Appropriations Subcommittee on Energy and Water Development.

Both Reid and Domenici have served in that role, they pointed out. Domenici also said that there is no other committee that funds more activities in the state of New Mexico.

Reid added, “We had a threat yesterday that was made public, that al-Qaida has targeted in very specific ways nuclear reactors around the country. I was concerned yesterday because I hadn’t been here . . . I have to say that

(Continued on page 4)

Sandia helps New Mexico child care centers



SANDIA & CHILD CARE — How safe are your kids in child care? Sandia wants to make sure the answer is “very safe.” Several Sandians are helping area child care centers be safer and operate more efficiently using established quality management systems. Read about their work in Chris Burroughs’ story on page 5.

Sandia’s new Truman Distinguished Lecture series to open with Nobel laureate Heeger

By Neal Singer

To elevate the quality and relevance of outside speakers, a new lecture series — the President Harry S. Truman Distinguished Lectures — will begin at Sandia on Thursday, Feb 14, 10:30 a.m. when Nobel laureate Alan Heeger (UC Santa Barbara) will speak to interested Sandians at the Kirtland Air Force Base Theater at First and G streets.

Heeger shared the 2000 Nobel Prize in chemistry for his work demonstrating electrical conductivity in polymers. He is expected to be available during the day to answer questions.

The idea for the lecture series began with Sandia C. President Paul Robinson, who wanted to recommence a prestigious speaker series at Sandia.

“Paul felt strongly the need to bring to the Labs the best minds in national defense, technology, and social policy, and for there to be an opportunity for Sandians to dialogue with [these speakers],” says Chuck Meyers (1030),

(Continued on page 6)



3 Aberdeen-bound: Explosive destruction system gets additional Army field testing

6 Sandia signs RAMPART™ risk analysis licensing agreement with NeoSafety

'Still-no-name' column

We noted in the last *Lab News* that Bruce Hawkinson retired on Jan. 17. Well, with all the affection in the world for him, I have to report to you that it took him less than a week to turn into a geezer.

Working outside around his Sandia Park home just a few days after checking out at Sandia, he fell and broke his hip. But wait. . . although that wasn't fun, Bruce – being Bruce – had a fine time regaling his friends with the details.

A friend found him crawling back to the house, for example, and wrapped him in an old sleeping bag to warm him up. When he got to the hospital and was being admitted – disheveled, scratched up, dirty, and all – he responded indignantly and emphatically in the negative when asked if he was homeless.

And his indigenous impatience was manifested when after a couple of days being cared for at a friend's one-level home, so he could stump around more easily than at his multi-level mountain home, he described himself as part of the menagerie: "Four dogs in crates, a bird in a cage, and Bruce chained to a recliner."

But he's mending, and sure to be back prowling around his home soon – probably on some crutch-contraption of his own design, made of wooden clothes pins, half a roll of duct tape he rescued from a trash can, and other flotsam. Meanwhile, if you want to send him a card, send it to PO Box 205, Sandia Park, NM 87047.

* * *

From Ron Kulju (2663) comes the latest inventive corruption of Albuquerque. When he checked in at the Embassy Suites in Lompoc, Calif., recently, he found that the hotel registrar thought he was from El Pakooky, Mexico. Now, that's a stretch: Sounds like a mix of Mexico and US Midwest.

* * *

Coming soon (see below), the *Lab News* will showcase the Labs' accomplishments over the past year, and the cull is indeed impressive. Be sure to look through it and you'll see why Senate Assistant Majority Leader Harry Reid, D-Nev., was so impressed with his visit to New Mexico last week. Accompanied by New Mexico Sens. Pete Domenici and Jeff Bingaman and NNSA Administrator Gen. John Gordon, he got a look at the work at both Sandia and Los Alamos, and spared no words of praise for both labs at a wind-up news conference at Sandia. You can read about it on page 1.

* * *

We all grouse and kid about how hard it is to get Sandians to return calls to you. A little inventive speculation wonders if you'd get a quicker response if you left a voicemail message ending with: "You will not believe what I heard about your boss." Bet you'll hear back as soon as your callee gets through checking his vacation balance and finishing his doughnut.

– Howard Kercheval (844-7842, MS 0165, hckerch@sandia.gov)

Atomic museum open one last time Feb. 14 before move to Old Town

Sandians, it's your last chance to just walk across Wyoming Blvd. to visit the National Atomic Museum.

The museum, which Sandia operates for DOE, invites you to visit one last time before it relocates. The museum will be open on the afternoon of Thursday, Feb. 14, from noon to 5:30 p.m. for one last chance to view the exhibits that have made the museum a popular tourist attraction for the last 32 years. Docents will be on hand for tours and information. Light refreshments will be available. Admission will be free.

The museum has been closed to the general public due to heightened security measures for Kirtland AFB. It will be relocating to the Albuquerque Old Town area in late spring. Museum staff will begin packing and crating the exhibits and artifacts immediately following Feb. 14. The temporary exhibition site in Old Town will be open until the museum can build its permanent home at the Balloon Fiesta Park, under the name of National Museum of Nuclear Science and History, in 2006.

Copies of the new museum book, *The National Atomic Museum: America's Museum Resource for Nuclear Science and History*, by museum historian Sam Bono (12660), are available for purchase, and Sam will be on hand to autograph copies of this overview of the history of the Atomic Age and the history of the museum.

The National Atomic Museum is America's only official museum resource for the history and science of the atom. It opened in 1969 and was chartered by Congress in 1991.

Recent Patents

George Vernon Sr. (2614): Surface-Micromachined Chain for Use in Microelectromechanical Structures.

Douglas Ruby (6218): Metal Catalyst Technique for Texturing Silicon Solar Cells.

Charles Brusseau and Kevin Linker (both 5848): Target Detection Portal.

Todd Christenson (1743): Wafer Scale Micromachine Assembly Method.

William Conley (15405) and Kenneth Peterson (14171): Protection of Microelectronic Devices During Packaging.

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State of Labs presentations for employees Feb. 25 in Albuquerque, Feb. 28 in Livermore

Sandians in New Mexico and California are invited to State of the Labs presentations for employees by President Paul Robinson and Executive VP Joan Woodard.

Here is the schedule:

New Mexico: Monday, Feb. 25, 9-10 a.m., Bldg. 962 Auditorium

California: Thursday, Feb. 28, 8:30-9:30 a.m., Bldg. 904 Auditorium

The New Mexico presentation will also be telecast in the Bldg. 810 auditorium in Area 1.

In addition to hearing the prepared presentations, employees will be able to ask questions of Paul and Joan.

In addition to these presentations for employees, Paul and Joan will be making a State of the Labs presentation to Albuquerque-area community leaders on Tuesday, Feb. 26, at the Sheraton Old Town Inn, 5 p.m.-7:30 p.m.

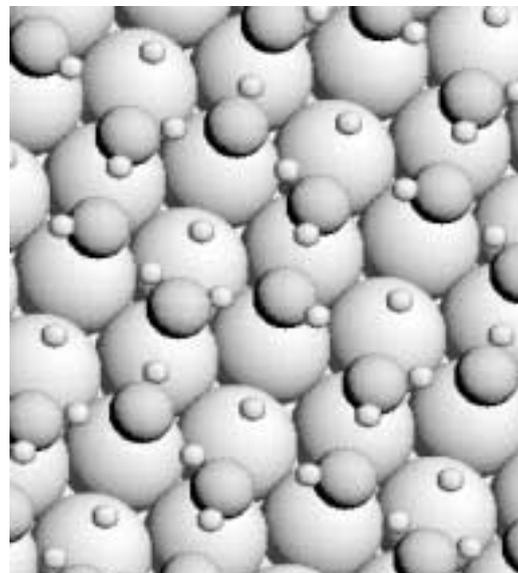
Annual Labs Accomplishments issue coming soon

Our annual special *Lab News* Labs Accomplishments section is nearing final form, and this 12-page full-color compilation of major achievements in 2001 will be distributed to you soon, either as part of the next issue or possibly in a separate distribution.

A forthcoming issue will also feature our annual *Lab News* State of the Labs interview with President C. Paul Robinson and Executive VP Joan Woodard.

For the record

Sandia "detective" Peter Feibelman detected that we goofed in our Jan. 25 issue, printing on page 4 a representation of a puckered layer of intact water molecules, when our caption said otherwise. Here we show the partially dissociated water layer Peter actually proposed to explain Held & Menzel's results. The medium-sized balls, representing oxygen atoms, lie in a single plane above the large balls, which represent ruthenium atoms. Three-fourths of the hydrogen atoms (small balls) are attached to oxygens. The remainder, having dissociated from half the water molecules, are attached to rutheniums.



Explosive Destruction System, take two: After prototype debut, field system getting checkout at Aberdeen

Second system now at Aberdeen for operational testing; first was used at Rocky Mountain Arsenal

By Nancy Garcia

The newest Explosive Destruction System (EDS), built for field deployment, has arrived at the US Army's Aberdeen Proving Ground in Maryland for operational testing.

Designed by Sandia for the Army's Non-Stockpile Chemical Materiel Program Manager for Chemical Demilitarization, the transportable, self-contained system can neutralize recovered, explosively configured, chemical munitions without resorting to open burn/open detonation. Open burn/open detonation involves packing excess explosives around a chemical munition to destroy the chemical agent in the resulting fireball during detonation. While open burn/open detonation is a viable destruction method, it is not desirable near public areas or where the blast can cause environmental damage.

This new EDS trailer becomes the second slated for operational deployment. The first EDS, a prototype, was deployed to the field last year, following engineering development testing at Porton Down, England. Although never intended for field use, the prototype was



HAVE WHEELS, WILL TRAVEL — A fully self-contained EDS system is mounted on a tractor-trailer rig, ready for shipment to the Army's Aberdeen Proving Ground, where it will undergo formal operational testing beginning this month.

chosen to neutralize sarin-containing bomblets unexpectedly uncovered at the Rocky Mountain Arsenal outside of Denver. It explosively opened the bomblets inside the EDS chamber and successfully neutralized the sarin (*Lab News*, March 9, 2001).

The new field system incorporates a few changes from the prototype. For a more rapid and complete mixing in the containment chamber, a

munition (once opened using explosive charges) and its contents are mixed with neutralizing chemicals by a full rotation of the sealed chamber at 2 rpm, rather than the back-and-forth tilt used in the prototype.

In addition, operations management has been improved by consolidating all control subsystems at just one location in the system's process area. The unit itself is a semi-trailer (fifth-wheel, 30-foot, double-drop); the prototype was a two-axle, four-wheeled trailer equipped with a pintle hitch.

In late November, the Army began training and familiarization with the new system at Aberdeen Proving Ground, Maryland. Formal operational testing, which is expected to take four months, will begin this month. The familiarization process has generated "pretty positive comments so far," says John Rosenow (8118), who supports field and operational testing, as he did previously for the system's predecessor.

In addition, a third system, identical to the unit just delivered, is in the final phase of fabrication and will begin acceptance testing at Sandia this month. A fourth system, with higher explosive capability, is also in fabrication. Its delivery date is late this fiscal year.

The design and fabrication work is a joint effort within centers 8100 and 8700 in California and organization 15322 in New Mexico.

Sandia California News

High school science-quiz teams buzz to a finish

Mission San Jose High School of Fremont did it again, besting teams from 13 Bay Area high schools at the 11th annual Regional Science Bowl for a chance to compete May 3-6 among 64 teams at the national-level competition in Washington, D.C.

In a daylong event Jan. 26 at Las Positas Col-



PENCILS POISED, students on the Granada High School team calculate an answer during the morning elimination rounds.

lege, the team of five gave rapid-fire answers to questions spanning astronomy to zoology. Some 35 Sandia/California employees, contractors, and friends coordinated the event, which Sandia co-sponsors with DOE's Oakland Operations Office.

Second place in the regional bowl went to Lynbrook High School of San Jose. Foothill High School of Pleasanton placed third, and Granada High School of Livermore ranked fourth.

Last year, Mission San Jose finished third nationally. Perhaps the biggest winners, however, are the volunteers who find the event so upbeat they offer their time year after year. Coordinators from Sandia this year included Ray Ng (8256), Dean Williams (8945), Iris Gorshen (8945), and Annette Hoff (8935). In fact, eight volunteers helped run the second regional Science Bowl Feb. 2 in Oakland, where 16 high school teams competed. Additional support of both regionals was provided by Las Positas College, Lawrence Livermore National Laboratory, Booz Allen Hamilton, and SlicArt Screenprint.

Royalties continue ramping up from intellectual property at California site

In the less than 10 years that Sandia/California has been collecting royalty revenue, the amount has grown yearly — bringing in \$1.47 million in FY01.

The royalty stream began in 1995, shortly after licensing began in earnest. Forty inventors and authors were recently honored at a luncheon for their contributions to intellectual property last year at the California site. Licensed software and inventions from the site have garnered \$2.54 million overall since 1995.

Filing of technical advances, which can lead to patent disclosures, is encouraged, and to heighten interest in securing intellectual property, a portion of the royalty revenue is shared.

Inventors receive 20 percent of revenue; other contributors, classified inventions, and inventors with new technical advances receive 10 percent of the revenue; and the site division receives nearly 70 percent for re-investment. The site Integrated Science and Technology Council, led by John Vitko (8100), makes decisions about how to use the 70 percent investment pool. Each year that a technology generates more than \$10,000 into the site's investment pool, the program that generated the intellectual property gets 50 percent of what comes to the site.

The largest royalty earner last year,



SOMETHING TO SMILE ABOUT — Division 8000 VP Mim John, left, congratulates inventors Stewart Griffiths (8728, middle) and Bob Nilson (8728) on their semiconductor processing invention, Rapid Insertion Rapid Thermal Processor.

μ ChemLab, earned \$1 million from two licenses, returning almost \$333,000 to Dept. 8101. In Dept. 8920, the Jess software collection generated \$294,127, bringing \$98,000 back to the department. Dept. 8728 received \$20,000 for a semiconductor processing invention, and Dept. 8356 received \$24,000 from the Chemkin software collection.

The FY01 revenues contributed \$979,014 for site investment, overseen by the Integrated Systems and Technologies (IS&T) council. Last year, the IS&T council invested \$124,000 in projects, including market studies and plans, patent awards, and new technology development and training (such as a new biotech course).

— Nancy Garcia

Sen. Reid

(Continued from page 1)

we are certainly way ahead of where I thought we were.”

Also during the news conference, he praised workers at both laboratories.

“Since Sept. 11 we’ve focused on people who wear uniforms, as well we should,” he said. “Whether they are first responders, or firefighters, or police officers, or those people who are serving their country in such gallant fashion in Afghanistan. But the people in these labs who don’t wear uniforms are every bit as patriotic as the people who do. They’ve contributed so much to the peace and safety that we now feel in this age. . . . And it’s a place where we are generally safe.”

Reid noted that while he was awed by the technology he saw on his tours of the two national laboratories, what really impressed him were the people who work there.

“During my stay at Sandia, I have learned the many, many things that are going on here,” he said. “Things that are being done here are so important to the state of Nevada, the state of New Mexico, our country, and the world.

“And we refer to Los Alamos, we refer to Sandia, the Nevada Test Site, and other facilities like that really in kind of a non-personal basis — these are facilities. But each of these facilities is made up of people. And today and yesterday



LABS AND HOMELAND DEFENSE — The Labs’ role in homeland defense was emphasized during a Feb. 1 news conference at Sandia. Participating were, from left, Sen. Harry Reid, D-Nev., the Senate’s assistant majority leader; Sen. Pete Domenici, R-N.M.; Sandia President C. Paul Robinson; Sen. Jeff Bingaman, D-N.M.; and John Gordon, DOE Under Secretary for Nuclear Security and Administrator of the National Nuclear Security Administration. (Photo by Randy Montoya)

what has impressed me more than all the many projects that are hard for my non-scientific mind to comprehend is the enthusiasm of the people involved in these programs; people who are working here for a pittance of what they could make on the outside.”

Reid said, if he had a wish, “it’s that every other senator, the other 97 senators [not here] could have been with me the last two days and could see what I saw and hear what I heard.

“It is truly amazing what probably a lot of people in this room take for granted. . . . And it

really is too bad that the other 97 are not here. But the three of us are going to carry forth with the zeal and enthusiasm that we feel to make sure to educate the other 97.”

Bingaman said Reid had planned before Sept. 11 to visit the Labs.

“He [Reid] wanted to come. He initiated the visit,” Bingaman said.

Reid praised Bingaman and Domenici’s strong support for the laboratories.

Sandia President Paul Robinson, Gordon, and Domenici all called the morning’s tours and briefings at Sandia “exciting.”

Domenici emphasized he has worked hard to show colleagues in the Senate how to use the labs — with their “amazing inventories” of technologies — as a homeland defense system.

As for how he expects the defense labs to fare in the 2003 budget, Domenici said they are “not going to go up astronomically” but he’s going to ensure Congress gives the labs “plenty of latitude, plenty of resources.”

Said Domenici, “We want to use the labs more, not less.”

For his part Gordon said he sees the future of the NNSA labs as “brighter and brighter.” He praised the senators’ “strong support to our mission, our labs, and our people.”

Gun residue

(Continued from page 1)

in determining whether someone had recently fired a gun, regardless of whether the shooter had washed his or her hands after the shooting.

LET plans to test the first 2,000 field kits with police departments in New York state and the Los Angeles, San Diego, and Phoenix metro areas beginning this month.

Invisible evidence

Whenever a gun is fired, the shooter gets sprayed with an invisible blast of chemical residues that are byproducts of the incomplete combustion of gunpowder and lubricants.

Each LET gun residue detection kit includes a round fiberglass swab that can be rubbed on the hands, arms, or clothing of someone suspected of firing a gun. When the swab is soaked in a proprietary clear liquid chemical, spots where trace amounts of organic residues are present turn blue against the white swab.

“We routinely do trace detection of explosives in the lab,” says principal investigator Pam Walker (2552), “so we thought why not take this technique and make it a product that can help keep our streets safer.”

MacAleese, a former violent-crime detective who is working with Sandia on several law enforcement technology projects, funded the Sandia test program.

To examine the technique, Pam and Phil Rodacy (2552) lab tested two colorimetric approaches to detecting gun residue on a person, one seeking to detect the organic constituents of gun residues, the other to detect inorganic residues.

Live-fire field tests at Sandia’s Terminal Ballistics Facility in Area 3 and at Caliber’s Indoor Shooting Range in Albuquerque confirmed that the swabs indicated the presence of organic gun

residues on a person’s hands 75 to 90 percent of the time, regardless of how many times the shooter pulled the trigger. Various gun and ammunition types were used.

Cheap, simple, portable

After swabbing the suspect, the officer places the dry swab into a small plastic cube much like a toy bug-magnifying kit. The officer pushes a plunger button, which breaks a vial inside the cube and releases the clear liquid, which soaks the swab. If gun residue is present, the blue spots appear, typically in 40 to 60 seconds.

“The idea is that a rookie police officer without any training could swab somebody right at the crime scene and have a reading in seconds,” says Pam.

Roughly the size of a cassette tape, each LET kit should cost less than \$20, according to MacAleese, who says the kits will be marketed under the name “Instant Shooter ID Kit.”

“We’d like to see these kits not only in every forensics lab and violent crime unit but also in every squad car in the country,” he says.

At this point, says MacAleese, the kit results are not admissible as evidence in a court of law, but pinning the crime on individuals more quickly would help officers convince suspects to confess or to “squeal” on other suspects.

In addition, the same swab used at the scene can be sent to a forensics lab for additional chemical analyses, the results of which could be used in court, he says.

A new capability

“We were surprised to learn that police officers didn’t have a way of detecting gun residue at the crime scene,” says Phil.

Most metro crime labs typically don’t have the expensive microscope equipment needed to detect gun residue. Police departments end up shipping samples out to busy state police crime labs or contract laboratories and waiting weeks for results, and

only in the most high profile cases, he says.

“This technique could make identification and verification of suspects using gun residue detection a common practice at shootings,” adds Pam.

Other Sandians involved in the project include Terminal Ballistics Facility staffers Dave Paul, Mike Bernard, and Roy Dickey (all 2554), who assisted with the live-fire tests; Susan Bender (2552), who assisted with the project management and patent application; and Kevin McMahon of Licensing & Intellectual Property Management Dept. 1321, who prepared the licensing agreements.

At fresh crime scenes, minutes matter

Police officers investigate 13,000 firearm homicides in the United States every year, and 40,000 patients with gunshot wounds resulting from assault are treated in US emergency rooms annually, according to 1997 statistics from the US Department of Justice.

Detectives know that the first 72 hours are the most critical time for the successful investigation of a crime, says Greg MacAleese, CEO of Law Enforcement Technologies, Inc. (LET). Every minute a shooter stays out of police custody is a minute he or she can spend destroying evidence, establishing alibis, or leaving town, he says.

Prior to founding LET, MacAleese worked in law enforcement for 14 years. While at the Albuquerque Police Department as a violent-crime detective, he pioneered the CrimeStoppers program, now an international program in more than 1,000 communities worldwide.

Sandia helps New Mexico child care centers be safer and operate more efficiently

By Chris Burroughs

How safe are your kids in child care?

Sandia wants to make sure the answer is "very safe."

Several Sandians are helping area child care centers be safer and operate more efficiently using established quality management systems.

About a year ago a representative of the New Mexico Child Care Association contacted Sandia seeking assistance in building an organization that could be of greater service to its members. Sandia can help small business owners in the state resolve technology problems or business issues through its New Mexico Small Business Assistance Program. (See "Small business partnerships" below.)

Under the auspices of that program, Shannon Delgado of Manufacturing Science and Technology Center 14112 began her efforts to figure out how the Labs could assist New Mexico child care facilities.

After visiting a half dozen centers in the Albuquerque area and conducting phone and letter surveys, Shannon and her team realized Sandia could facilitate in three areas.

"We determined that the child care centers needed greater security, the child care providers needed quality management training to run the facilities more efficiently, and an alternative to harsh bleach as a disinfectant was essential," says Shannon, project coordinator.

New disinfectants

The first issue tackled was that of bleach. State regulations required that diluted chlorine bleach, and only bleach, be used as a disinfectant.

"Chlorine bleach was the primary disinfectant used in child care facilities because it was the solution required by the state and most trusted for its disinfectant abilities," Shannon says. "It's such a harsh chemical that it ruins clothes of child care workers and the children. And it's a strong irritant to skin."

Bleach also has a short shelf life and its cleaning ability is less efficient than several modern disinfectants.

Shannon turned to Sandia's medical department where Lisa Ramirez (3333), a registered nurse, researched different solutions, comparing them to bleach. Lisa found several chemicals that worked better than bleach and were less harsh.

The child care association approached the New Mexico Children, Youth, and Families Department advising the state agency of the organization's work with Sandia and of the solutions that Lisa identified, suggesting that the regulations be changed.

Shannon then wrote an official of the department reaffirming Lisa's findings and also requesting a regulation change.

"People in the Children, Youth, and Families Department were hesitant at first until I spoke with one of their representatives informing him of the details and providing him with all the proper documentation," Shannon says.

Security

More difficult was the issue of center security. Shannon sought help from Sandia security experts Mary Green (5861) and Richard Sparks (5831). They toured several child care facilities and found both simple and complex ways to improve campus security.

"Child care centers have a lot of the same problems as public schools," says Mary, who is noted for her expertise in school security. "They all have to deal with theft, vandalism, parental custodial issues, and people coming on the campus who don't belong there."

Several of the centers had their front doors well monitored but not their back doors. One had an unlocked back gate that abutted the center's outside play area. A few of the schools did not have anyone watching the front door, which meant that strangers could walk right in — increasing the chance of child kidnapping or theft. In one center, child care workers could not find a child and had no record of him being picked up by a parent. It turned out that the parent came in the center through an open back door, retrieved her child, and left without signing out or telling anyone.

After their site visits, Mary and Richard came up with several suggestions to ensure security at child care centers and will soon be putting them into a security workbook for day care providers. It will be similar to a manual Mary developed two years ago for public schools, only shorter. Among the suggestions:

- Striving for line-of-site on the entire campus. The original design of the facility is the most important factor. However, retrofitting a building — which is what most day cares face — can be done by using video cameras or having staff well-situated.
- Keeping doors locked so children can't wander off and strangers can't get in.
- Putting surveillance cameras in rooms where children are being cared for.
- Installing student check-in/check-out security systems.

Quality management

The third area is to help the New Mexico Child Care Association train child care providers to use quality management systems.

"By implementing quality management systems, day care providers can plan their businesses better," says Ian Bailey, a Sandia contractor specializing in Sandia's Quality Systems who has been working with Shannon on the project. "It gives them a way of better identifying customers' needs, developing effective systems to meet those needs, and tracking progress."

The training uses the Malcolm Baldrige approach to quality management with a focus on child care education processes.

During a recent New Mexico Child Care Association conference, Ian and another associate, John Lorio, presented workshops on the quality management system.

"The workshops were well attended," Ian says.



NEW DISINFECTANT — Amanda Fernandez disinfects children's toys at the Southwest Child Care center while Lydia Gonzales plays in the background. Sandia was successful in getting state regulations to use newer disinfectants other than harsh bleach in child care centers. (Photo by Randy Montoya)

"There seems to be a growing interest in this. We plan to form a quality management group of center directors who will learn the method and then train their staff."

Small business partnerships

Sandia is helping the New Mexico Child Care Association and area child care centers through the New Mexico Small Business Assistance Program, which was created by the Laboratory Partnership with Small Tax Credit Act that was passed by the 2000 New Mexico State Legislature.

The act provides Sandia a tax credit of up to \$1.8 million per calendar year to help New Mexico for-profit small businesses become more competitive. Specifically, the credit pays Sandians for the time and materials they spend assisting these businesses.

Sandia can provide up to \$10,000 a year outside Bernalillo County and \$5,000 a year in Bernalillo County in services to any New Mexico registered small business. Sandia can't use its tax credit to compete with existing businesses, and the service Sandia provides must not be available commercially at reasonable cost.

Smith: Work important

Kyle Smith, executive director of Southwest Child Care and the past president and founder of the New Mexico Child Care Association, says the work Sandia is doing in assisting child care centers is important to the industry.

"That is especially true about the bleach," says Smith, whose center serves as a pilot facility for the Sandia work. "They found a solution we can use as a disinfectant that was an alternative to bleach. Their research led the State of New Mexico to change regulations."

She attended the recent New Mexico Child Care Association conference where two Sandians presented workshops on quality management. "It was awesome," she says.

Smith said she is looking forward to the additional security improvements planned for her facility in coming months. Much of the work slowed after Sept. 11.

"The Sandia people have been great to work with," she says. "We've been treated really well. They want to help the little ones."

Southwest Child Care serves as pilot center

Southwest Child Care Center in Albuquerque is serving as a pilot center of the Sandia child care initiative where new ideas are tried out.

One of the first efforts was the installation of 10 surveillance cameras and a state-of-the-art digital recorder at the facility.

"The cameras and recorders give the child caregivers and parents a sense of comfort. They serve as a deterrent — if an incident happens, the caregivers can play back the videotapes and know exactly what happened," says Mary Green, a Sandia security expert.

In coming months other security initiatives will be added at the center, including an automated system of student check-in and check-out security system and specially designed egress doors with alarms.

As part of the security check-in and check-out system, the main entry doors will be opened from the outside only with the use of a unique magnetic card that will activate a proximity sensor and release the electronic door lock. Each unique card will identify

the parent to whom it was issued, and the name of the parent and child to be picked up. This information would be transmitted via radio frequencies to the main office computer system and to the beepers of the child care provider that child is assigned to.

Another possibility is using "hand geometry" to identify parents entering the center. A parent would slip his or her hand into the device where a light beam measures the width and height of the fingers. Used elsewhere, the device is about 95 percent accurate.

Planning is also under way at the Southwest Child Care Center for a special type of door, door hardware, and egress alarm system. It will have an upper push bar or knob that generally only adults will be able to reach and operate to leave the building under normal circumstances. It will also have a lower push bar which a child can operate if needed. The bar will automatically cause a local alarm to sound, signaling staff that a child is leaving the building.

Labs Day at the Legislature



SANDIA AT SANTA FE — Dave Nokes (5900, left) talks with Senate President Pro Tem Richard Romero during Labs Day at the New Mexico State Legislature. The Legislature honored the two national labs in the state with a memorial thanking them for their “outstanding contributions to homeland security.” Sandia and Los Alamos set up displays and provided demonstrations of homeland security technologies. Information about Sandia’s Rapid Syndrome Validation Project (RSVP), to enable early detection and warning of a biological attack or disease outbreak, is displayed behind them. (Photo by LeRoy Sanchez, LANL)

Truman lecture

(Continued from page 1)

LDRD program manager, charged a year ago with making active the dormant program.

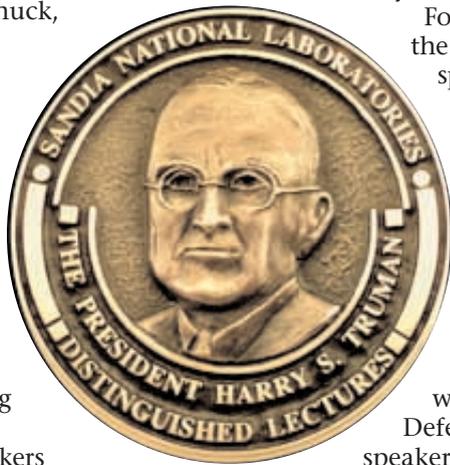
Chuck coined the name of the lecture series and went to Al Romig, Sandia VP and Chief Technology Officer, for advice and funding. The pair decided tentatively on four speakers a year, and studied distinguished lecture programs across the US to find out, says Chuck, “who does it right,” and how to make such events run smoothly.

Says Al, “When the idea for this magnificent series came up, we decided we would select people who have made really significant contributions to science and technology and to national policy — who have significantly impacted the national scene because of their thinking, writing, and lecturing. And we realized the way to get ‘big names’ is through a titled lecture series, because that will draw speakers that an ordinary colloquium won’t.”

A committee of Sandia senior researchers, chaired by Ron Loehman (1843), was asked to

suggest and screen speaker nominees.

A handsome, five-inch-diameter, 1.5-pound bronze medal of a rock-jawed Harry Truman — sculpted in relief by Sandia accounting services manager Neal McEwen (10501) — will be presented to each speaker with his or her name engraved on its back, along with an honorarium. Neal began his study of sculpture in 1994. He collaborated with Frank Fritzges at Advanced Casting, Inc., on McLeod Road NE in Albuquerque, on the foundry work.



For reasons of thrift and to expand the chances of drawing significant speakers, the Heeger lecture pre-dates by one day — as may other speakers — the Director’s Colloquium lecture series at Los Alamos National Laboratory. The two defense labs will exchange ideas for speakers, and joint invitations may be sent to speakers.

The next lecture is slated for April 1 in Sandia/California, where former Secretary of Defense William Perry will be the speaker. Lawrence Livermore National

Laboratory employees will be invited to participate. The intent is to videolink the talk to Sandia/NM.

Sandia awards licensing agreement to NeoSafety

RAMPART™ risk software determines risk to buildings

By Chris Burroughs

Sandia has awarded a worldwide licensing agreement to NeoSafety, a workplace risk solutions company, to market the RAMPART™ method and software and co-develop a suite of complementary products.

RAMPART™, for Risk Assessment Method – Property Analysis and Ranking Tool, is a screening-level software program developed by Sandia researchers to determine the risk to a building by natural hazards, crime, and terrorism (*Lab News*, July 13, 2001). A group of recognized industry advisors found the RAMPART™ method to be a highly effective tool to determine facility risk.

Sandia initially designed the software to help the General Services Administration (GSA) assess the risk of threatening events to the nearly 8,000 federal buildings it manages nationwide.

NeoSafety has been working with Sandia on the project since July.

“NeoSafety performed a company viability study under a Testing and Evaluation Agreement with Sandia to determine market acceptance,” says NeoSafety President Brian Healey. “The RAMPART™ software is our centerpiece solution to a host of integrated applications. Our solution set will provide an intuitive and simplified way to address facility risk vulnerability. We plan to market the RAMPART™ suite of products to government, municipalities, schools/universities and commercial/industry facilities.”

The RAMPART™ software consists of a user interface, a threatening-events database, and an expert system of rules that embody an agency’s

“This agreement will get the software into more hands, giving government agencies, private industry, and other large institutions or companies a way to determine weaknesses of their facilities, make the corrections, and, as a result, better protect their facilities”

knowledge about buildings and tenants and Sandia’s knowledge of risk analysis. Using the software, it takes less than two hours to complete a building risk analysis. Users just point and click their way through an assessment, answering basic questions about the building — location, construction, and security monitoring. The software determines the level of risk.

The software development is part of Sandia’s Architectural Surety® program, which uses technology to make homes, shopping malls, offices, public buildings, and infrastructures safer in a natural disaster or terrorist attack.

Regina Hunter (6804), Sandia’s technical lead for the project, says she is pleased at the prospect of working with NeoSafety to further develop the software.

“This agreement will get the software into more hands, giving government agencies, private industry, and other large institutions or companies a way to determine weaknesses of their facilities, make the corrections, and, as a result, better protect their facilities,” she says.

Founded in 1997, NeoSafety assists government agencies, insurance companies, property owners, and industry to identify and manage workplace risks. Software applications include business continuity planning, compliance and safety training, communication management, and property risk assessment. More information:

www.neosafety.com.

Heeger to speak on polymeric materials

Nobel laureate Alan Heeger (UC Santa Barbara), the first Truman Distinguished Lecturer, will speak at the KAFB theatre — at the NW corner of First and G streets, walking distance from the west side of Sandia’s Tech Area 1 — on “Semiconducting and Metallic Polymers: The Fourth Generation of Polymeric Materials” on Feb. 14 at 10:30 a.m.

A reception will be held at the National Atomic Museum on Wyoming Blvd. immediately following the talk.

When asked to explain the importance of the discovery of conducting polymers, Heeger writes, “I offer two basic answers: First, they did not (could not?) exist, and second, they

offer a unique combination of properties not available from any other known materials. The first expresses an intellectual challenge; the second expresses a promise for utility in a wide variety of applications. I will review the development of this interdisciplinary scientific field and summarize recent progress in the science and technology.”

The National Atomic Museum is putting off its move off base for a week in order to accommodate the reception while the TTC is being renovated. A general open house from noon to 5 pm that day will be the last chance for Sandians to visit the museum before its move to an Old Town location.

Sandia Classified Ads Sandia Classified Ads Sandia Classified Ads Sandia Classified Ads

MISCELLANEOUS

COLEMAN GENERATOR, new, still in box, \$500. Gallegos, 864-1111.

PAINTBALL GUNS, 2; guitar, w/amps, stand, & case. Rhoden, 293-5301, ask for Jon.

FOUR GOODYEAR TIRES, used, Eagle P/185-65-R14, mud and snow, good condition, \$20 for all. Buteau, 856-7705.

DOLBY AM/FM/CASSETTE, Ford, excellent condition. Tode, 821-6641.

SAMSUNG CELL PHONE, flip-up, model SPH-N200, largest LCD display available, \$70 OBO. Wagner, 823-9323.

SOUTHWEST AIRLINE TICKET, roundtrip, anywhere SW flies, expires 5/15/02, \$250. Jackson, 291-0996.

SPINET PIANO, excellent condition, \$275; sofa, plaid, barn red, forest green, \$300; loveseat, country blue, \$175. Payne, 350-5049.

FIBERGLASS CAMPER SHELL, good condition. Dillon, 877-7628.

VHS VIDEOCASSETTE BOOKCASE, 5 shelves, holds approx. 55 videos, mahogany finish, 50" x 15" x 6", \$100. Brion, 298-1761.

CONTINENTAL AIRLINE TRAVEL VOUCHER, expires 4/02, worth \$200, asking \$150 OBO. Amparan, 620-9548.

PASTA EXPRESS PASTA MAKER, like new, \$30; Oster Choice Cut food & meat slicer, \$20; Oster Kitchen Center mixer, grinder, etc. \$5. Lagassee, 298-0977.

TI-83 GRAPHING CALCULATOR, w/user's manual, \$70. Cordero, 839-8600.

FUTON, black metal frame, w/mattress, great shape, \$60; kindling wood, free. Giersch, 899-6005.

MOVING BOXES, very clean, large, medium & small, cost \$150, asking \$75. Ruby, 821-0982.

TRAILER HITCH, Reese-type receiver, \$55. Gentry, 856-9436.

RECUMBENT STATIONARY BIKE, Schwinn 205 P, all functions working, \$75 firm. Jones, 275-5668.

ENGAGEMENT RING, 1-ct. oval solitaire & wedding band, each w/10 diamonds, \$6,000 OBO. Klingler, 232-2606.

VIOLIN, w/bow & case, ideal for beginner student, used only 2 years, \$450 OBO. Newman, 299-6018.

DINING ROOM TABLE, solid oak, w/2 18-in. leaves & 4 oak chairs, \$300. Bauer, 299-0640.

WATER HEATER, 40-gal., for mobile home, brand new, \$200; box trailer, 3' x 5', \$250. Trollinger, 265-1615.

TEAK TWIN-BED UNIT, includes desk, shelves, drawers, ladder, mattress, rails, Scandinavian Interiors, excellent condition, \$200. Spencer, 275-2091.

SOFA & LOVESEAT, like new, beige w/flower pattern, \$500 OBO; 2 4-drawer chests, \$20. Padilla, 873-3870 or 873-0380.

LA-Z-BOY, large rocker glider, mauve, excellent condition. Wilson, 293-2228.

VACATION, 1 week timeshare for up to 6 people, 2 bdr., anywhere in RCI catalog, \$800. Luther, 296-7402, ask for Fran.

MOUNTAIN-BIKING SHOES & PEDALS, specialized COMP size 41, \$35; Nashbar SPD type, \$20, together, \$50. Hesch, 350-9903.

ENTERTAINMENT CENTER, 3-pc., red oak, w/glass doors, holds 46-in. TV, 2 yrs. old, \$1,500; woman's Huffy bicycle, 10-spd., \$85. Beller, 881-4047.

CRIB/DRESSER COMBO, matching white changing table, \$350; crib bedding, gates, car seats, other baby items. Tucker, 822-5560.

TODDLER BED, Little Tikes Racing Car, crib mattress required, \$75. Williams, 797-8912.

SOUTHWEST AIRLINE TICKETS, roundtrip, transferable, anywhere SW flies, expires 4/25, \$265, expires 6/22, \$275. McGee, 857-0661.

SHARP CAROUSEL MICROWAVE, 1 mo. old, 1000W, 1.4 cu. ft., white, paid \$100, asking \$75. Simon, 286-6492.

PLAYFUL PUPPIES, 8 mos. old, male/female, spayed/neutered, all shots, \$25. Bertsch, 299-3913, after 7 p.m.

SNOWBOARD 2 yrs. old, 159cm Crazy Creek, good condition, 1 deep (repairable) scratch, w/stomp pad, \$75. Miller, 332-4845.

BOXER PUPPY, 6 mos. old, male, fawn/white, great w/kids, \$150; cock-atoos babies, sulphur-crested umbrellas, bare-eyed gophers, friendly, handled & ready to go. Limon, 877-1508.

FRIGIDAIRE ELECTRIC RANGE, white, glass cook surface, self-cleaning, w/electronic oven controls, 3 yrs. new, \$250. Mickelsen, 821-5036.

CONN TUBE ORGAN, 2-tier, full-size, w/Leslie, good condition, \$1,200 firm; Xerox 5028 copier, needs adjusting, good condition, \$500 firm. Rowe, 286-5432.

DINETTE SET w/extension leaf & 4 chairs, original price, \$1,400, asking \$350 OBO, will deliver. Chavez, 275-0490.

L.L. BEAN HAMMOCK STAND (good condition), hammock (fair-poor condition), \$80. Morton, 899-0617.

ELECTRIC GUITAR, Peavy Tracer LT, excellent condition, includes soft case & Crate GX-15R amp, \$125. Dotson, 281-8335.

YAMAHA 1103 RECEIVER, w/learning remote, Dolby 5.1 surround, 100W x 5; walnut Frazier 3-way floor speakers, horn tweeters, base reflex., \$270 pr. Dybwad, 296-9047.

ELECTRIC MOTORS, 1/4-hp to 3-hp, \$15 to \$50; machinist cart, \$25; circular saw, \$25; loudspeakers, JVC spectrum display, Hitachi 3-head tape recorder/player, \$35; Sanyo AM/FM PPL receiver, \$35. Silverman, 298-1308.

AMERICAN ESKIMO DOGS, registered, w/papers, 2, w/heated doghouse, friendly natured, \$200 for all. Hayes, 299-1200.

SUPER-SINGLE WATERBED, complete, 1 yr. old, pine, light stain, w/book-shelf, mattress pads, sheets, \$100; Sears Cold Spot chest freezer, dryer-size, old, works fine, \$25 OBO. Simon, 286-6492.

KENMORE REFRIGERATOR, 18 Porcelain Plus, brown, good condition, \$75 OBO. Hanselmann, 254-1782.

TWIN CAPTAIN'S BED, w/6 drawers, \$50. Wilson, 293-2228.

ARTS/CRAFTS SHOW, "Cherished Creations" Cottonwood Mall, Feb. 8-14, mall hours, future shows: Mother's Day, Balloon Fiesta, Santa Fe, Thanksgiving. Self, 296-4137.

ADCOM STEREO PREAMPLIFIER, GFP-565, excellent condition, retail \$900, asking \$350. Hammond, 823-9619.

LARGE-DOG-SIZE DOOR PANEL, fits screen of sliding glass door, excellent condition, \$25. Bursstein, 821-6688.

SCHWINN AIRDYNE EXERCYCLE, good shape, \$250. Arlow, 298-1770.

SPECIALIZED SPD CLIPLESS PEDALS, used once, \$200 new, asking \$60; Nashbar ATB shoes, low-top hiking style, w/SPD cleats, size 10, worn briefly, \$20 for both. Dwyer, 271-1328.

FOUR LIVING ROOM TABLES: 2 end, console, coffee, all teak w/white tile top, \$150 OBO. Lininger, 856-0422.

BERNINA 1130 SEWING MACHINE, x-feet, excellent condition, \$925. Davis, 881-1899.

FOOSBALL TABLE, \$80; loveseat, tan, excellent condition, \$100; recliner, purple, good condition, \$50; coffee table, need refinish, \$20. Richardson, 821-0495.

KING WATERBED, 6-drawer, \$100; 11.6-cu.-ft. upright freezer, \$75; both OBO. Stermer, 255-1083.

CAMPER SHELL, custom topper, fiberglass, white, will fit long-wide pickups older than 1999, \$450 OBO; clean, weed-free, 2001 FES grass hay stored in shed, 400+ bales, \$4.50 ea. Shoemaker, 869-2775.

CHRISTMAS TREE, artificial, 7 ft., perfect condition, good deal if you have storage space, \$35. Christopher, 797-0314.

FIREWOOD, mixed cottonwood & mulberry, \$40 for pickup full, no sideboards. Maxam 343-9409.

KING MATTRESS, box spring, frame, excellent condition, \$75; Companion wheelchair, light, strong, \$95; 2 bar stools, \$40 ea. Gomez, 291-1062.

PENTIUM 100 MULTIMEDIA SYSTEM, Packard Bell Legend w/color monitor, speakers, 56K fax modem, & software, \$100. Pryor, 294-6980.

SOUTHWEST AIRLINE TICKETS, 2 roundtrip, anywhere SW flies, expires Oct. & Dec., \$275 ea. or \$500 both. Benjamin, 869-9922.

OAK BABY FURNITURE, crib w/mattress, \$125; changing table, \$125; 5-drawer dresser, \$275; backpack carrier w/raincover, \$125. Hassan, 822-9544, ask for Basil.

COLLEGE STUDENT FURNITURE, couch, \$75; recliner, \$25; glider rocker, w/ottoman, \$45; stereo cabinet, \$50. Williams, 344-9276.

FREE WOOD, leftover scrap wood from building home, good for burning, you haul away. Chavez, 281-4789.

How to submit classified ads

DEADLINE: Friday noon before week of publication unless changed by holiday. Submit by one of these methods:

- E-MAIL: Michelle Fleming (classads@sandia.gov)
- FAX: 844-0645
- MAIL: MS 0165 (Dept. 12640)
- DELIVER: Bldg. 811 Lobby
- INTERNAL WEB: On Internal Web homepage, click on News Center, then on Lab News frame, and then on the very top of Lab News homepage "Submit a Classified Ad." If you have questions, call Michelle at 844-4902. Because of space constraints, ads will be printed on a first-come basis.

Ad rules

1. Limit 18 words, including last name and home phone (We will edit longer ads).
2. Include organization and full name with the ad submission.
3. Submit the ad in writing. No phone-ins.
4. Type or print ad legibly; use accepted abbreviations.
5. One ad per issue.
6. We will not run the same ad more than twice.
7. No "for rent" ads except for employees on temporary assignment.
8. No commercial ads.
9. For active and retired Sandians and DOE employees.
10. Housing listed for sale is available without regard to race, creed, color, or national origin.
11. Work Wanted ads limited to student-aged children of employees.
12. We reserve the right not to publish an ad.

TRAILER, for light motorcycle, \$100. Mendel, 265-3840.

BOSE ACOUSTIMASS 5 SERIES III, speaker system, great for TV & surround-sound system, \$200. Savage, 890-4796.

FISHER PRICE RC RACERS, \$35; & castle, \$15; Disney Babies ceiling fan, \$25; rocking "sheep," \$100. Clark, 281-1243.

ENTERTAINMENT CENTER, 15 mos. old, excellent condition, mission-style, American Home Furnishings, \$700. Lawton, 797-2925, ask for Craig.

ANTIQUA MIRRORED SIDEBBOARD, \$150; large set of English dishes w/serving pieces, \$150; bedroom suite, \$200. Treadway, 345-7302.

COMPLETE DARKROOM SETUP, \$100; ski rack, \$30; 8mm camera/projector, \$50; LawnBoy for parts, \$10; ceiling fan, \$5. Everett, 268-7475.

ANTIQUA KITCHEN TABLE, w/metal top, \$900; couch w/loveseat, \$600; painting by Paul Sanchez, \$400. Trujillo, 344-1259, ask for Lucy.

FREE-STANDING WOOD/COAL STOVE, brick-lined, unique (round w/claw feet), \$500 OBO. Bronkema, 286-0423.

PIONEER CD CAR STEREO, DEH P200 Supertuner III w/equalizer, detachable face w/case, new, \$125 OBO. Burgin, 299-6730.

TRANSPORTATION

'95 CORVETTE CONVERTIBLE w/hardtop, white/red, AT, premium options, 21K miles, excellent condition, \$19,500. Thalhammer, 298-8521.

'99 FORD F-550 CREW CAB, dually, 7.3 diesel, AT, loaded, exhaust brake, duel tanks, 22K hitch, \$35,000. Novak, 286-6218.

'88 ISUZU TROOPER, 4-dr., 5-spd., AC, PS, PB, high miles, but runs super, \$2,200. Lenberg, 238-0362.

'97 FORD F250, 4x4, XLT, 7.3L diesel, HD, LB, AT, reg. cab, towing/camper pkgs., alarm bed liner, 49K miles, \$20,000. Blankenship, 281-2257.

'01 BMW 530i, metallic silver/gray leather, premium package, 5,800 miles, below book value. Sansone, 296-7945.

'01 TOYOTA SIENNA XLE, loaded, denim blue, perfect condition, 9K miles, below trade-in, \$23,000. Lynch, 845-2781, ask for Pat.

'96 FORD F150, 4x4, Pioneer AM/FM/cassette, AT, AC, long bed, regular cab, 96K miles, \$8,495 OBO. Rondelli, 362-2112.

'88 CHRYSLER FIFTH AVENUE, 318 V8, very good condition, leather, well maintained, fully loaded, new tires & shocks, \$4,500. Cordova, 884-9267.

'74 VW SUPERBEETLE, customized, many extras, must see, balanced & Weber-carburated 1776cc engine, \$3,900. Bland, 344-9613.

'00 CADILLAC DEVILLE DTS, pearl white, excellent condition, retail \$32,000, asking \$28,000, estate must sell. Tillman, 798-9080.

'88 TOYOTA COROLLA, white hatchback, 5-spd., good condition, 117K miles, \$1,500 OBO. Bangs, 471-6277.

'78 CHEVY BLAZER, 4WD, AT, AC, 350CID, 185K miles, new transmission & brakes, \$2,000. Plut, 298-3060.

'93 DODGE CARAVAN, seats 7, extra long, great condition, 88.5K miles, \$4,000. Di Palma, 856-0260.

'99 NISSAN ALTIMA, 41K miles, blue book, \$11,315, asking \$500 cash & take over payments. Moore, 294-2912.

'94 HONDA CIVIC DX, 2-dr., AT, AC, PS, PB, black, great condition, 58K miles, \$6,000 OBO. Desjardin, 858-1972.

'98 FORD CONTOUR, white, new tires, tinted windows, AM/FM/cassette, 40K miles, NADA \$7,850, asking \$6,850. Campbell, 294-6000.

'90 TOYOTA CELICA ST, 5-spd., metallic gray, good condition, 64K miles, \$4,000. Eakin, 255-3464.

'87 NISSAN MAXIMA, 4-dr., 6-cyl., 3.0L, AT, power, new timing belt, more, 110K miles, perfect for student, \$2,500. Bemis, 343-8626.

'96 CHEVY SILVERADO 271, extended cab, 4x4, matching shell, bed liner, tow package, CD, green w/tan, new condition, 50K miles, \$16,250 OBO. Dwyer, 271-0741.

'00 GMC YUKON XL/SLE, AT, AC, 5.3L V8 Vortec engine, 4WD, HD towing package, 34K miles, \$30,425. Oglesby, 323-4013.

'49 CHEVY COE TOW TRUCK, all original, rough bed, but all there, \$1,700; '60 Dodge D100 pickup, 318, AT, frame up restored, rare stepside, \$5,000. Pantuso, 865-1597.

'95 PLYMOUTH ACCLAIM, 4-dr., 3.0L V6, AT, AC, PL, PW, AM/FM/cassette, clean, 102K miles, \$3,700. Swanson, 861-3721.

'96 TOYOTA TACOMA PICKUP, 2x4, extended cab, CD, 5-spd., bed liner, very good condition, 63K miles, \$7,500. Alvin, 797-4834.

'98 CHEVY ASTRO, V6, AT, front/rear AC, 44.6K miles, asking \$12,500, \$1,100 under blue book. Smith, 294-5192.

'91 CHEVY CAPRICE CLASSIC, all power options, AM/FM/CD, new Michelin tires & brakes, 127K miles, good car, \$3,700. Weagley, 821-4263.

'85 JEEP CJ7, 4-cyl., 4-spd. manual, hard top, all original, 104K miles, good condition, \$4,800. Robbins, 797-8630.

'93 FORD ESCORT STATION WAGON, 5-spd., AC, PS, PW, PL, 121K miles, one owner, \$2,150 OBO. Demmie, 293-4534.

'94 FORD AEROSTAR XLE, V6, AT, AC/rear air, cruise, all power, AM/FM/cassette, bucket seats, 81K miles, good condition, \$6,200. Lombana, 291-8806.

'67 CLASSIC ALFA DUETTO, good condition but needs some work, \$9,750. Reyes, 296-8518.

'92 LEXUS SC400, red, excellent condition, 2 owners, includes custom car cover & front bra, 89K miles, retail \$15,000, asking \$12,500. Nokes, 269-7604.

'85 HONDA ACCORD LX, good condition, 116K miles, \$1,600 OBO. Lopez, 275-2090.

'90 MAZDA 626, 5-spd., CD & more, 156K miles, very good condition, \$2,200 OBO. Charles, 332-3923.

'00 TOYOTA CAMRY LE, all power options, AM/FM/CD/cassette, T-lift, keyless remote, extra clean, 16K miles, \$14,900. Brown, 872-2103, or 261-4595, ask for Mike or Sue.

'92 FORD ESCORT LX, 5-spd., AC, hatchback, tan, 156K miles, excellent condition, great car, \$1,600. Thomes, 323-7494.

'92 HONDA PRELUDE, white, sporty, 2.2L, 5-spd., AC, cruise, sunroof, alarm, AirCharger, headers, AM/FM/CD, 150K miles, \$5,495. Turner, 292-6819.

RECREATIONAL

'98 FLEETWOOD PROWLER, travel trailer, 27-in. fiberglass super slide-out, sleeps 6, equalizer hitch, brake controller, excellent condition, \$12,000 OBO. Hamberg, 857-9662.

'93 STARCRAFT CAMPING TRAILER, Stardust 21'5" x 6'3", gas grill cook top, spare tire, \$2,250 OBO. Tenorio, 821-9867.

'00 HONDA XR400R ULTIMATE TRAIL BIKE, MXTech suspension, SRC brace, excellent condition, low mileage, \$4,000. Baca, 299-4090.

'99 SUZUKI DR650 DUALSPORT, 2 ea., 1 set-up for smaller rider, great condition, low miles, \$3,850 ea. Keefe, 869-8919.

'00 POLARIS VIRAGE PWC, blue/white, 3-seater, 700cc, good condition, 100 hours on rebuilt engine, \$3,500. Baca, 271-2962.

REAL ESTATE

2-1/2 ACRES in Algodones, all utilities, must sell, \$56,000 OBO, terms negotiable. Martinez, 294-7694.

2-BDR. TOWNHOME, 1 bath, washer, dryer, refrigerator, 1-car garage, close to Labs/base, \$64,900, all financing. Ferrell, 256-2531.

3-BDR. HOME, 1-3/4 baths, 2-car garage, new Trane heater, Master cooler, & water heater, sunroom, 10 min. from KAFB, approx. 1,650-sq. ft., \$135,000. Chen, 299-3031.

3-BDR. HOME, custom Scott Patrick, bright & open floor plan, study, 2-1/2 baths, 2,500 sq. ft., radiant heat, Halbert cabinetry throughout, cul-de-sac lot, central vacuum system, \$259,500. Castillo, 828-9603.

3-BDR. HOME, 2 baths, double-wide modular, 1,350 sq. ft., NE Heights 55+ park, many extras. Taylor, 822-9819.

NE HEIGHTS HOME, near Juan Tabo & Candelaria, approx. 2,000 sq. ft., solid house, poor yard, \$140,000, as is. West, 881-9725, days, or 292-2528, nights.

5-BDR. HOME, modular, 6 x 6 construction, jacuzzi, built-in appliances, Colorado insulation zoned, 2 family rooms, 2 coolers, 2,340 sq. ft., \$68,000. Yawakie, 296-6855.

5 ACRES, in private gated community, expansive views, pinon & juniper, water membership, power, phone, \$62,000. Smith, 281-5096 or 286-8558.

4-BDR. HOME, 6-mo. lease, going on special leave, 1-3/4 baths, NE, 1-story, 2-car garage, 2,100 sq. ft., \$1,100/mo. + dep. Hoselton, 323-6374.

WANTED

GOOD HOME for Lab mix, 5-yr.-old male, family moving. Urioste, 341-0452.

SLIDE PROJECTOR, in good working condition. Breeding, 260-0820.

USED TAE BO VIDEOS, Billy Blanks, prefer set of 4. Thomas, 294-2960, leave message.

TENORS/BASSES, The Harmony Project, a community service chorus is auditioning tenor & bass singers, rehearse Mondays. Hansknecht, 293-0287, ask for Christine.

CROSSBRED MALTESE PUPPY, small, female. Valdez, 293-8784.

HOUSEMATE, 3-bdr., near UNM, washer/dryer, dishwasher, hardwood floors, nice neighborhood, \$267/mo., 1/3 utilities. Hunter, 260-4726.

GOOD HOME for 3-yr.-old Siamese female, declawed, spayed; 5-yr.-old female tiger cat, spayed, very affectionate. Duncan, 858-1570.

FEMALE ROOMMATE, large 2-bdr., 1-bath apartment near UNM, washer/dryer, \$300/mo., \$250DD, 1/2 utilities. Atchison, 262-9598.

MICROSCOPE, for homeschooling family, 1000X, fine & coarse focus, prefer mechanical stage, excellent condition. Malone, 286-2464.



Here's how Sandia's change to new dental claims administrator, Delta Dental, affects you

Switch to Delta Dental for dental plans occurred Jan. 1; summary plan description to be mailed soon

As of Jan. 1, 2002, Sandia switched from MetLife to Delta Dental as the claim administrator for the dental plans.

You can obtain a Delta Dental claim form from the internal web at <http://www-irn.sandia.gov/corpdata/corppforms/formhp.html> or the external web at <http://www.sandia.gov/CorpForms/CorpForms.htm>.

The group number for Sandia under Delta Dental is 9550. The address for the submission of claims is Delta Dental, P.O. Box 9085, Farmington Hills, MI 48333-9085. The phone number for Delta's customer service is 1-800-264-2818. Dentists can call Delta's customer service number and obtain information on reimbursement.

If you are having a procedure done that will cost more than \$200, it is recommended that your dentist submit a predetermination of benefits.

What type of dentists participate?

Although you are not required to use a pre-

ferred provider for any service in order to receive reimbursement under these plans, selecting a DeltaPreferred or DeltaPremier dentist will likely lower out-of-pocket expenses. A DeltaPreferred Option USA dentist is a "preferred provider" who has agreed to accept Delta Den-



tal's negotiated fee as the maximum fee they can charge, while a DeltaPremier USA dentist will not exceed what Delta has certified as usual, customary, and reasonable for that region. To access either DeltaPreferred or DeltaPremier dentists, visit www.deltadental.com's "Dentist Search."

Participants may visit dentists not associated

with either network; although participants will likely pay higher costs, they will still receive reimbursement under Sandia's plans.

Summary Plan Description coming

For any expenses incurred prior to January 2002, the claim will need to be submitted to MetLife.

For fixed bridgework, crowns, inlays, onlays, or gold restorations, the expense is incurred on the first date of preparation of the tooth; for endodontics, the expense is incurred on the date the tooth was opened for root canal therapy; for full or partial dentures, the expense is incurred on the date the impression is taken.

The new Summary Plan Description, which will contain a reimbursement schedule of the more commonly performed procedures, along with a claim form, will be mailed to all participants in late February/early March.

Labs' Mentoring program orientations scheduled for February and March

Employees interested in learning about mentoring at Sandia will have an opportunity to ask questions and learn more about the program at orientation sessions scheduled for February and March at Sandia/New Mexico.

California employees are on a different mentoring schedule. Contact Heidi Pope (8522) at 294-3463 for information.

"This is an excellent learning opportunity for both mentors and mentees," says Program Administrator Soila Brewer (3022). "Participants have greatly benefited from the program."



business requirements

- Help employees learn about our culture, policies, and business practices
- Help individuals with career growth and development

To attend the orientation sessions, go to the Web site at <http://www-irn.sandia.gov/HR/Training/ecd/mentor.htm> and enroll. Your division coordinator will send you an invitation with the date, time, and location of your session.

Employees can also contact Mentorship Coordinators for their divisions listed below for more information and to enroll.

- 1000 Claire Evans (1801), 844-9433
- 2000 Abencio Sanchez (2541), 844-4385
- 3100 Bernadette Montano (3120), 284-5250
- 3300 & 3500 Della Vieth (3000), 284-3638
- 5000 Eloy Gutierrez (5001), 845-8318
- 6000 Len Malczynski (6010), 844-7219
- 8000 Heidi Pope (8522), 294-3463
- 9000 Tamara Orth (9522), 844-1430
- 10000 Bonnie Townsend (10001), 284-5244
- 10800 Diana de la Rosa (3115), 844-9570
- 14000 Karen Armstrong (14409), 845-8379
- All other orgs. Soila Brewer (3022), 845-7102

Note 1: California is on a different recruiting time frame. For more information, contact Heidi Pope at (925) 294-3463.

Note 2: The program is available only to on-roll employees, including limited-term.

Joan Woodard to keynote NMSPE Engineers Week event

Sandia Deputy Director Joan Woodard is the keynote speaker at the N.M. Society of Professional Engineers Engineers Week luncheon Friday, Feb. 22, at the Sheraton Uptown.

About 400 engineers from across the state are expected to attend. Prior to the luncheon a variety of seminars and tours are scheduled. Contact: Margaret Keller, NMSPE Executive Director, at 265-9501.



JOAN WOODARD

Take Note

Retiring and not seen in *Lab News* pictures: **Ferne Allan** (6820), 16 years; **Rudy Baca** (9325), 21 years; **Diane Botwinski** (1701), 27 years; **Kathleen Hays** (1800), 27 years; **Julie Rhoden** (10254), 33 years; **Adalbert Smiel** (2616), 25 years; and **James Tentham** (2665), 34 years.

Feedback

Q: I have purchased a cordless mouse and keyboard (Logitech Cordless Freedom) for my office computer in Tech Area 1. A CSU representative noticed the unopened box and asked me if they are radio or infrared devices, and if they are RF transmitters, are they not contraband inside the tech area. I did not know. It is common to see a cordless mouse or keyboard at presentations, and they are very convenient, but it is an RF transmitter. Could you make a clear statement about whether or not these devices are allowed inside Tech Area 1? Thank you.

A: Your question raises several important concerns. Thanks for asking them.

RF equipment in Limited Areas is covered in CPR400.3.1. I suggest you read it. Wireless mice and keyboards are being addressed in a new CPR400.3.10 entitled, "Prohibited and Controlled Items." We expect the procedures in that CPR to be approved by DOE. What we expect to be publishing is this:

Wireless (IR or RF) mice and presentation device controllers may be used for unclassified processing except where there is concurrent classified processing or transmission.

Note: RF keyboards are not allowed since they transmit actual information.

I hope this clears up your concerns. Please contact Del Packwood (9327), Computer Security, dnpackw@sandia.gov, 844-4948, if you have any additional questions or concerns. — *Al West* (3100)

Quality New Mexico conference scheduled March 7-8

In a two-day "Salute to Quality," the 2002 Quality New Mexico conference and awards ceremony will be held March 7-8 at the Sheraton Old

Town in Albuquerque.

A busy round of talks, tutorials, and workshops on everything from performance excellence and tools for success to quality in small business and best practices in health care are scheduled.

The awards banquet is Friday evening, with Gov. Gary Johnson scheduled to be the presenter. For instant online registration go to: www.qualitynewmexico.org.

Quality New Mexico is a nonprofit organization established "to motivate, educate, and congratulate New Mexico organizations for achievement in performance excellence."

Julia Gabaldon (12143), on loan from Sandia, is creator of Quality New Mexico and has served as its president since its inception in 1993.

Coronado Club

Feb 14 — Valentine Buffet Celebration; dining 6:30 p.m.; dancing 7:30 p.m. to the music of Midnight Magic, \$12.50/person.

Club News — C-Club now offers six-month memberships. Price for new members is \$70 for six months; \$60 thereafter.

Summer notes — The C-Club pool opens May 27; pool passes are available at a discount rate Feb. 25-May 18.