

Raising the Lockheed Martin flag at Sandia: Tellep and Augustine visit, talk candidly with employees

Merger makes 'a globally competitive 21st century company'

By Ken Frazier

Lab News Managing Editor

Clouds and crisp early morning air greeted Daniel Tellep and Norm Augustine as they helped raise the flag — physically and metaphorically — March 23 in their first visit to Sandia as the two top officials of the new Lockheed Martin Corp.

But the welcome was warm and the atmosphere amiable, as they initiated the next era of corporate management of Sandia.

Outside Building 800, they greeted Sandia's vice presidents, spoke to Sandians who'd assembled for the ceremonies unveiling the new Sandia Corporation/Lockheed Martin flag, chatted briefly with local news media, and then rushed to the Technology Transfer Center.

There, in two separate, well-attended employee dialogue sessions, video simulcast to Sandia/California, they spoke again about their hopes for the new company that is now the largest defense contractor (and largest DOE contractor, too) in the US. It is also the seventh largest company in America in number of employees (170,000) and sixteenth-largest in annual sales (\$23 billion).

And they answered, with candor and
(Continued on page 4)

Lockheed Martin is the seventh largest company in America in number of employees.



CORPORATE FLAG RAISING — The new corporate flag gets some high-level display before being raised for the first time March 23 in front of Bldg. 800. From left are Sandia President Al Narath, Lockheed Martin Chairman and CEO Daniel Tellep, DOE Albuquerque Area Office Deputy Manager Jim Culpepper, Lockheed Martin President Norm Augustine, DOE Kirtland Area Office Manager Kathy Carlson, and Sandia Executive VP Jim Tegnalia. (Note that this is the new *Lockheed Martin Sandia Corporation* flag; it does not replace the traditional Sandia National Laboratories flag that's still displayed at various locations around the Labs.)

Sandia National Laboratories **Sandia LabNews** Vol. 47, No. 7 March 31, 1995

It's a World Wide 'Webolution'

The whole company ... the whole world, right at your desktop

By John German

Lab News Staff

To many Sandians, the information super-highway is like a mirage on a long, hot stretch of road — the turnoff is just a little farther, but we never seem to get there.

Sure, most of us have had access to the accoutrements of the information age — phones, faxes, personal computers, voicemail, and possibly e-mail. But what's all this talk about bringing the world to every desktop?

Well, it's here. Some 2,000 Sandians now have access to the Internet via the World Wide Web. By October, Sandia's Chief Information Officer Mike Eaton (13100) wants to get 3,000

or 4,000 more employees on the Web.

"The goal is to get the Web to every person's desktop if they have a computer," says Mike. "This is going to become a major part of our corporate information system."

Surfing the Web

The World Wide Web is a relatively new method of accessing Internet information using *hypertext* — information that is directly linked to other information independent of its cyberspace location. (See "Some Web terms simplified" on page 6.)

The Web differs from other Internet interfaces primarily because it isn't site-and-menu
(Continued on page 6)

Employee Recognition Award announcements go out today

This year's Employee Recognition Awards dinner will be held on Saturday, June 3. The employee recognition corporate selection committees have selected 104 Sandians to be honored this year, and employees will be notified of their selection by receiving an invitation to the dinner. Invitations are being mailed today, March 31.

Vice presidents will be notified of all selectees by a memorandum from Human Resources.

Employee Recognition Awards dinners are a long-standing Martin Marietta tradition, and Lockheed Martin continues the tradition this year. This will be Sandia's second annual event. Last year's event (*Lab News*, June 10, 1994) recognized 74 individual Sandians.

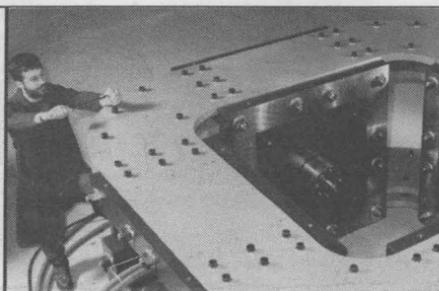
Employee achievement will be recognized this year in the following categories: Management Achievement; Operations and Support Achievement; Technical Achievement — Invention; Technical Achievement — Publications; Technical Achievement — Research & Development; and Outreach Achievement.

Also, a team member representing each of the teams that received a Sandia President's Quality Award in October 1994 (announced in the Sept. 2, 1994, *Lab News*) will be invited to attend.

The May 26 *Lab News* will present names and photographs of the 104 award winners.

Sandia/California test facility exerts big-time stress on materials 3

Narath named to head major DOE secrecy review 9



This & That

Still in business - Reports of our demise are greatly exaggerated. I've observed during my 12 years at Sandia - particularly in my six years as *Lab News* editor - that some people are much too inclined to spread some pretty preposterous rumors. Several weeks ago, one was circulating that the *Lab News* is "going away."

I wasn't able to determine why/how that one got started - whether it's because we're planning some new employee communication projects (we are, more about that in a future issue) or whether it's because the new construction north of Building 800 combined with the work on the parking lot just north of our building (MO 172) several weeks ago made it nearly impossible for people to get to our office. Regardless, I can tell you with certainty that the *Lab News* is NOT "going away." In fact, my boss, Public Relations Center Director Jerry Langheim, assured me last week that the *Lab News* is looked upon by Sandia management as the "flagship of Sandia's communications program." What I didn't completely understand though was the part he added about keeping our life jackets on and not straying too far from the lifeboats.

* * *

E-mail, yes we do - Six months ago, I could barely spell e-mail, but now I'm a real fan. As more and more of us at the Labs "get wired," I'm convinced we'll save ourselves lots of paper and time by communicating this way when practicable, and we'll cut down on the volume of internal mail that our Mail Services folks must handle. Everyone here at the Employee Communications office has e-mail, and we now gladly accept all types of information this way. We're on the cc:Mail system; send news and story ideas to Ken Frazier, classified ads to Nancy Campanozzi, and *Weekly Bulletin* items to Janet Carpenter. Of course, you should continue to send all comments involving effusive praise to me, Larry Perrine. Sorry, but our system just isn't set up to receive complaints.

Speaking of electronic communications, unless you're already an expert on Sandia's internal and external webs and the World Wide Web, I encourage you to check out *Lab News* writer John German's articles about these subjects in this issue (main story begins on page one). Altogether, these articles are an excellent primer for beginning "websters."

* * *

New national pastime? - As New Mexico moves to legalize more kinds of gambling, I thought you might want to know this: Even if the baseball strike gets settled soon, that sport is far from the national pastime today. Gambling has replaced it, according to *The New York Times*. More Americans went to casinos (92 million visits) than to major league ballparks in 1993, the last full year of major league baseball. Legal gambling revenues reached \$30 billion, which is more than the combined take for movies, books, recorded music, and park and arcade attractions.

* * *

They're not stopping me! - With the opening of the latest megahumongous home improvement/building supply place on Eubank, I now have to pass three such places on my way home. I think I'm gonna complain to the City. All the added traffic along that way from you handymen (probably handypersons, today) sure can slow down a fellow who's trying to get home to pick up his golf clubs! I still think that toilet will eventually unclog itself if I just leave it alone. - Larry Perrine

Trinity Site open April 1 and July 16

The Trinity Site, where the world's first atomic bomb was detonated in 1945, will be open July 16 for the 50th anniversary of the historic test. The anniversary opening is in addition to the site's normal dates - the first Saturday of each April and October.

On July 16, the site will be open from 5 to 11 a.m. The early hours will allow visitors to be at the Trinity Site at the same time of day the detonation occurred 50 years earlier (at 5:29:45 a.m. on July 16, 1945), as well as avoid the extreme afternoon heat. On Saturday, April 1, the site will be open from 8 a.m. to 2 p.m.

Attractions at the site include the McDonald ranch house (where the bomb's plutonium core was assembled), a Fat Man bomb casing display, and a small monument marking "ground zero." No ceremonies or speakers are planned.

White Sands Missile Range provides historical photographs and concessions. Portable toilets are available. Cameras are allowed at the Trinity Site, but their use is prohibited anywhere else on the range.

Visitors traveling from Albuquerque may enter White Sands Missile Range through the Stallion Range Center. The Stallion turnoff is 12 miles east of San Antonio, N.M., on Highway 380. Stallion Gate is five miles south of the turnoff, and Trinity Site is 17 miles southeast of the gate. Roads are paved and marked.

For more information, contact the White Sands Missile Range Public Affairs Office on (505) 678-1134, ext. 1700.

New Mexico Symphony Orchestra offers Sandians 'A Night at the Oscars'

Sandia and Lockheed Martin are sponsoring the New Mexico Symphony Orchestra presentation, "A Night at the Oscars," featuring music from Oscar-winning films and songs, including film clips and music from "Dances with Wolves." This concert will be held Wednesday, April 12, 8:15 p.m., at Popejoy Hall. Tickets are \$15.50, \$21, \$24.50, and \$27.

The following two classics concerts are available to Sandians at a special "buy one ticket - get one free" discount:

Beethoven Times Two. Guest conductor and violinist Joseph Swensen will be featured in this program, which will include Beethoven's Symphony No. 2 in D Major and Romance for Violin and Orchestra, and Shostakovich's Symphony No. 5. This performance will be Friday, April 7, 8:15 p.m., and Saturday, April 8, 6 p.m., at Popejoy Hall. Ticket deadline for the special price is Wednesday, April 5.

Romero, with a Spanish Flair. Pianist Gustavo Romero and guest conductor Jorge Perez-Gomez will present Moncayo's Huapango, Prokofiev's Piano Concerto No. 3, Mozart's Symphony No. 40, and Falla's Three Dances from "The Three Corners Hat." This program will be Friday, May 19, 8:15 p.m., and Saturday, May 20, 6 p.m., at Popejoy Hall. Ticket deadline for the special price is Wednesday, May 17.

Tickets for the two classics concerts are \$10.50, \$18.50, and \$28.50; the special "buy one ticket - get one free" discount is good only on the \$18.50 and \$28.50 tickets. Sandians must mention they are Sandia employees when placing orders on 1-800-251-NMSO or to The Symphony Store on 881-8999. Tickets can also be purchased at The Symphony Store in American Square, Suite 4 (Menaul west of Carlisle).

Sandia LabNews

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LOCKHEED MARTIN

Take Note

The 31st annual symposium of the New Mexico Chapter of the American Vacuum Society will be held April 10-14 at the Holiday Inn Pyramid in Albuquerque. The keynote speaker, David Marsing from Intel Corporation, will speak on "Manufacturing Philosophies at Intel." For more information, call Randy Shul (1322) on 844-6126.

* * *

Retiring and not seen in *Lab News* pictures: Lester Sandlin (2664), 36 years; and Laura-Donna Kenna (2700), 20 years.

* * *

The University Hospital Service League's 12th Annual "Family Bunny Brunch and Fashion Show," to benefit Children's Hospital of New Mexico, will be held Saturday, April 8, beginning at 11 a.m. at the Albuquerque Marriott Hotel. Singer Linda Cotton will be the honorary chair, and radio personalities John and the Bean will be emcees. Tickets are \$20 for adults and \$10 for children 10 and under. Call 843-2356.

Congratulations

To Nicole and Mark (6612) Ivey, a son, Noah Walter, Nov. 3.

To Liz and Dan (9215) Kral, a daughter, Gabrielle Anne, Feb. 28.

The *Lab News* is printed on recycled paper and can be recycled again along with regular white office paper.



Big-time stress: Powerful testing system operational

Biaxial mechanical test facility to help Sandia model material behavior

By Nancy Garcia

California Reporter

The force is with Experimental Mechanics Dept. 8746, which recently assembled one of the nation's most powerful mechanical test systems for examining materials used in defense, aerospace, and automotive industries.

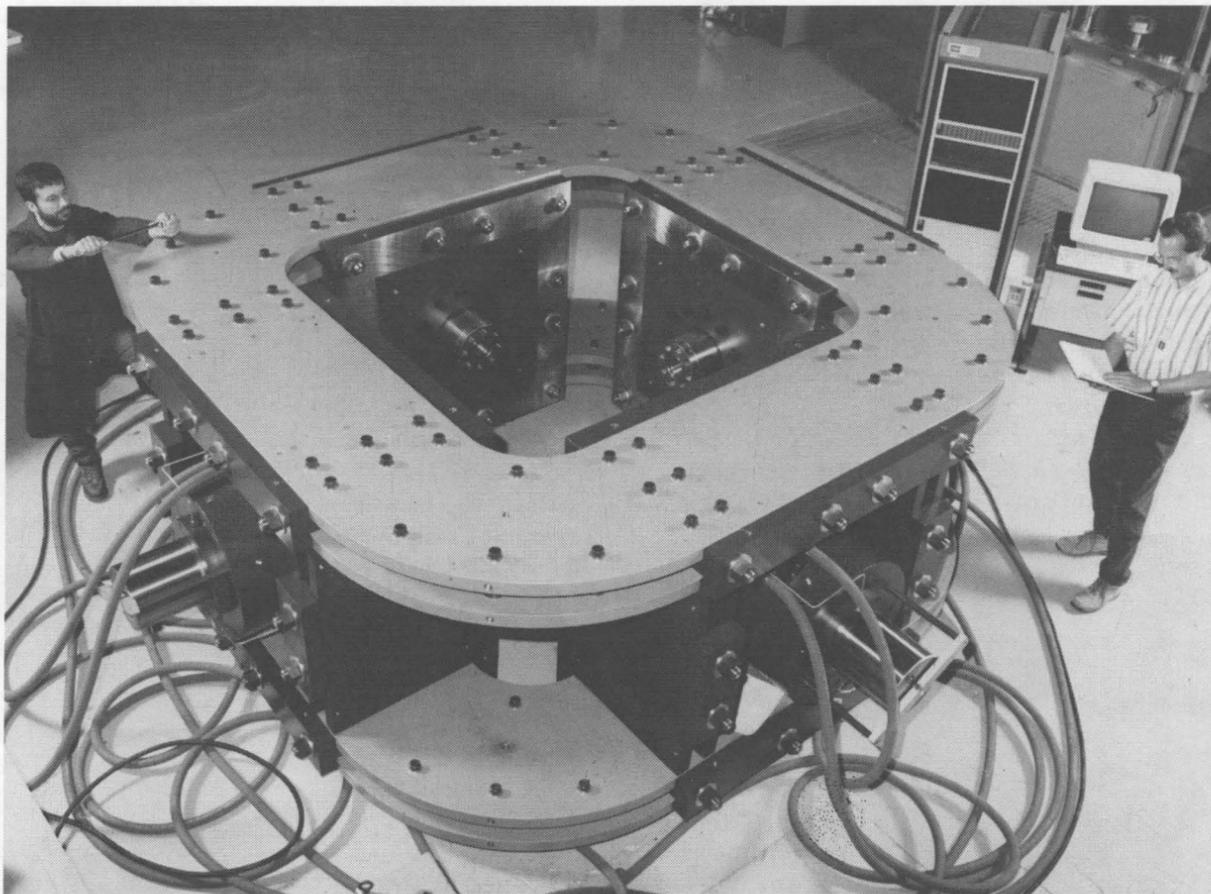
The biaxial test facility, capable of exerting up to 500,000 pounds of force in two directions at once, can realistically test full-size components. Thick composite laminates and other materials whose internal structure varies cannot be faithfully represented during testing by scaled-down replicas. Testing full-size components requires large forces, and the biaxial system joins a high-force uniaxial test system capable of exerting 2.2 million pounds.

The unique testing capabilities give Sandia modelers a distinct advantage, says Dept. 8746 Manager Wendell Kawahara. For example, any number of computer models of metal deformation appear interchangeable when the models have been calibrated with uniaxial data. However, the biaxial tester and other techniques available in the department can distinguish which model best represents realistic conditions in which stress occurs from more than one direction.

The big squeeze (or stretch)

To evaluate computer model predictions for the strength of various combinations of bolted and adhesive fasteners, mechanical engineer Wei-Yang Lu of Dept. 8746 will test graphite-epoxy composite panels supplied by Boeing Commercial Airplane Group. Wei-Yang says experiments with this material should assess the accuracy of various computer models.

Testing takes place inside a rigid frame shaped like a square doughnut and built of construction steel, designed by John Korellis (8746), with an interior test area of six square feet. Two sets of pistons, mounted at right angles, can each move up to 10 inches to squeeze or stretch a specimen. Digital controllers move the pistons in concert so the geometric center of the object being tested will not shift.



TWO-WAY SQUEEZE— John Korellis, left, and Dan Mosher, right (both 8746), check the new biaxial test frame, capable of exerting 500,000 pounds of force in two directions at once.

Sandia California News

The system can be modified to add 250,000 pounds of force from a third direction for truly three-dimensional testing, which will most likely be used for cube-shaped specimens of geologic materials. Normally, geologic samples are tested by placing a cylindrical core sample in fluid under pressure, and pushing on its ends.

The biaxial tester is one feature of a new DOE-designated user facility, the Mechanical Testing and Evaluation Deployment Center, which draws staff and equipment from Experimental Mechanics Dept. 8746 and Test and Evaluation Dept. 8283. User facility designation (*Lab News*, Nov. 11, 1994) gives outside researchers from industry, other government labs, and universities easier access to expertise and unique testing capabilities not available in the private sector.

Supervisory appointment

JEFF MANCHESTER to Manager of Property Management Dept. 8532.

Jeff joined Sandia/California in 1982 as Alcoholism Program coordinator, later taking on the additional duties of Retirements and Benefits counselor. In 1991 he transferred to the Medical Department, where he continued coordinating the Employee Assistance Program (EAP) as well as adding medical administrator duties.



JEFF MANCHESTER

Before joining Sandia, Jeff was assistant vice president and branch manager for Crocker Bank. He is a three-year veteran of the Navy, where he served as an operations department officer on an aircraft carrier. He later spent six years in the Naval Reserves. Before his military service he was a horse and mule wrangler and a rodeo calf roper and team roper.

His education includes a BA degree in history from the University of Santa Clara and graduate work in finance at Long Beach State.

DOE seeks comments on tritium supply document

DOE has published the draft Tritium Supply and Recycling Programmatic Environmental Impact Statement (PEIS), which evaluates alternatives for ensuring a long-term supply of tritium, a necessary nuclear weapons component.

Copies of the PEIS should be available in all DOE reading rooms. Reading rooms are located near the lobby of Bldg. 911 at Sandia/California and in Albuquerque at the National Atomic Museum and at Albuquerque Technical-Vocational Institute.

Public comments can be submitted by mail, phone, fax, or electronic bulletin board by May 15 (see PEIS for details) or at a series of public hearings to be held in six cities in April. The cities are Washington, D.C.; Las Vegas, Nev.; Pocatello, Idaho; Oak Ridge, Tenn.; Amarillo, Texas; and North Augusta, Ga. Specific times and locations are available by calling toll-free, 1-800-776-2765. A summary of comments will be made and considered during preparation of the final PEIS.

Hearing participants may register in advance by calling the toll-free number. Anyone who has questions or needs additional information should call DOE's Office of Reconfiguration on 202-586-1300.

Recent Retirees



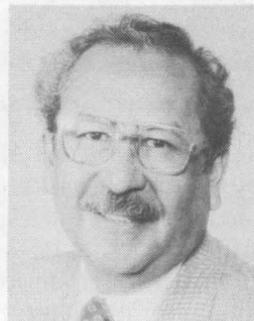
Glenda Muir 28
8417



John Marion 36
5302



Clyde Taylor 27
8483



Gabe Gutierrez 35
8902

Bonuses, pension funds, and the future

Lockheed Martin executives Augustine, Tellep answer Sandians' questions

At two lively employee dialogue sessions in the Technology Transfer Center the morning of March 23, Lockheed Martin Chairman and CEO Daniel Tellep and President Norm Augustine fielded questions from Sandians in both New Mexico and (by live video hookup) California. Sandia President Al Narath also answered several points. Questions were both written and oral, and they covered a broad range of topics. We've selected several that seem of interest to most Sandians, paraphrasing questions and condensing answers (and combining answers to similar questions at the two sessions) for space reasons.

• News reports say 30,000 Lockheed Martin jobs will be lost in the merger. Is that true? Tellep said he didn't know where that number came from. He said the *Wall Street Journal* has carried articles with three different estimates for probable numbers of job cuts from Lockheed Martin: 17,000, 20,000, and 30,000. He referred to these as "press estimates" without any objective basis and said no one can yet know because nothing has been



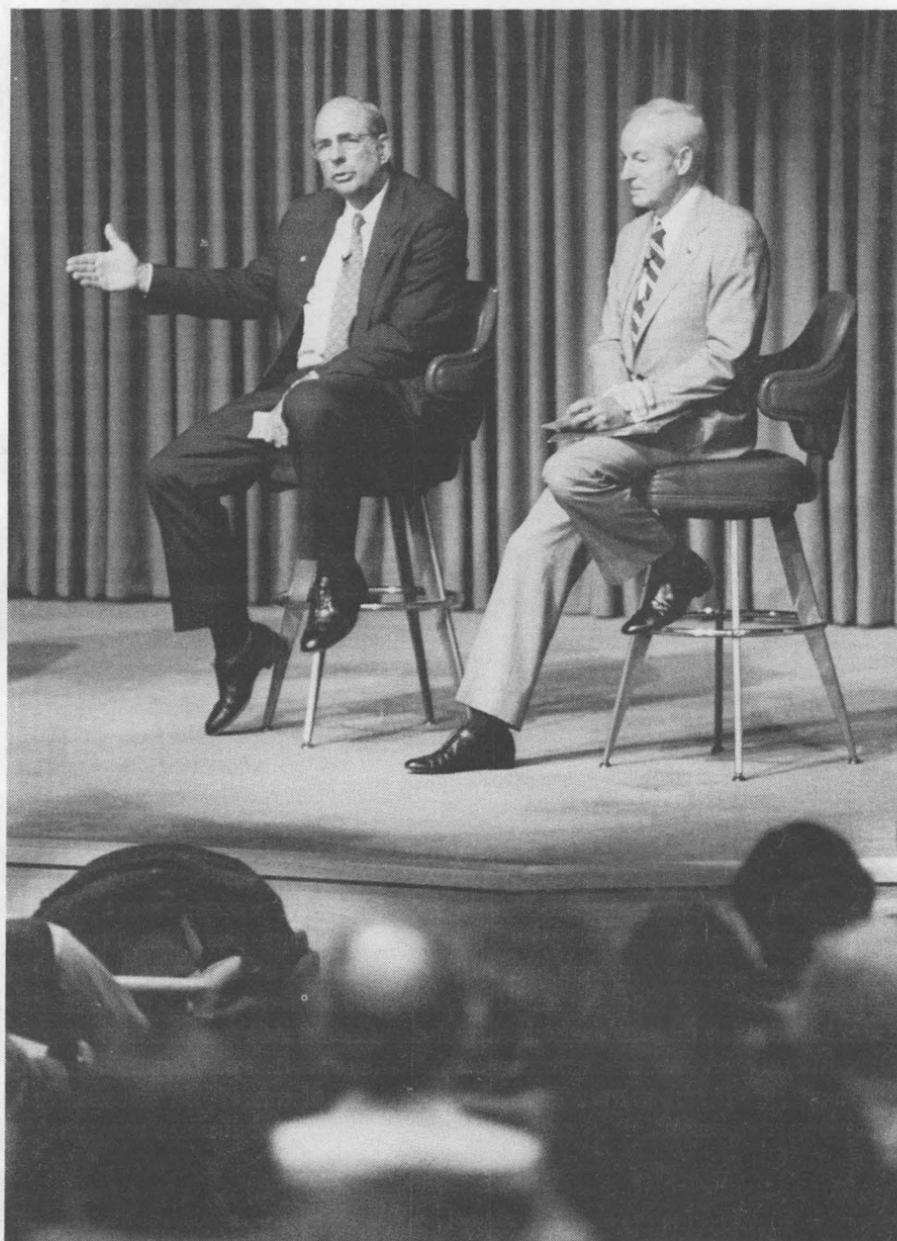
DANIEL TELLEP

decided. Lockheed Martin is looking at options for greater efficiencies — for instance, the new corporation now has four facilities for building solar collectors for satellites. By no later than the end of the second quarter, the company will be prepared to make announcements about such decisions. However, Tellep said, "Had we done nothing, had we remained independent corporations, with the decline in the defense budget we would have had work force reductions no matter what. It was inevitable." But he said he expected a reversal from the now-near-lowpoint in defense spending and emphasized: "The broader dimension is that we did not put these two excellent companies together to cut. We want to extract the synergies and build upon all the talents we have throughout the corporation to build for the future. At least 9 out of 10 jobs will be maintained."

• How does Sandia's future look? "Sandia, I think, has a very bright future," Augustine said.

"The things you are working on are of lasting national importance. Technology, energy, competitiveness — those are your middle names. Furthermore, Sandia is very good. You have a great reputation. I think the future is very bright."

• [To Norm Augustine] Are you going to give some of your huge bonus for accomplishing the merger to the US Treasury to reduce the deficit? Augustine said news stories about the bonuses for him and other Martin Marietta managers have not explained this matter correctly. He broke the topic into three parts: (1) His situation. He would receive a payment in two parts. One involves his Martin Marietta pension, supplements, and incentives, and it is independent of the merger. "That's something I'm entitled to," he said, and he plans to take it. In addition, a second, "smaller but not insignificant," payment was to be made to him (upon retirement) specifically for bringing about the merger. Augustine said he has decided to give all that money to charity. "I have said I am going to give that to charity, and I'm going to do that. I won't receive a penny I wouldn't have received had this merger not taken place." (2) Bonuses to 440 Martin Marietta managers.



EMPLOYEE DIALOGUE — Lockheed Martin President Norm Augustine (left) and Chairman and CEO Daniel Tellep talk to Sandians at the Technology Transfer Center auditorium March 23. The two employee dialogue sessions were devoted mostly to questions and answers. (Event photos by Randy Montoya)

He said these bonuses are part of their contractual benefits agreement, they are entitled to them, and after much discussion it was decided it would be legally and morally wrong not to make those payments. (3) Is the government paying subsidies for the merger? "No, not a cent," said Augustine. "There won't be a penny charged to the government due to the transac-

Execs visit

(Continued from page 1)

occasional humor, Sandians' questions — not all of them easy (see "Bonuses, pension funds, and the future" above).

Tellep, Chairman and CEO of Lockheed Martin, and Augustine, its President, have long been friends, as well as competitors, Augustine said. Their relaxed relationship contributed an informal air to the festivities. That was true even later when some of the employee questions got tough.

Two fundamentally sound companies

Sandia President Al Narath called it a "momentous occasion" but joked that when he helped hoist the Martin Marietta flag at Sandia on Oct. 1, 1993, he hadn't expected to be going through another such ceremony only 18 months later. "We're very proud to be members of this large and very distinguished organization and look forward to a mutually

beneficial relationship between Sandia and Lockheed Martin."

The merger of Lockheed and Martin Marietta, ratified by both companies' shareholders March 15 (see March 17 *Lab News*), combines "two fundamentally strong companies," said Augustine, who was CEO of the former Martin Marietta. With this critical mass, he said, Lockheed Martin will be much better and stronger than either company would have been alone.



NORM AUGUSTINE

It's a company that when you include all the talents of Sandia and the other national labs for which we have responsibility, plus the internal laboratories and so on, probably has the greatest, most diversified high-tech capability

of almost any you can think of," he said. "We're very proud of that."

The merger creates "a 21st century, globally competitive, high-technology company," Tellep said. "We're probably now the world's leading high-technology company, with strong roots in aerospace but with burgeoning nondefense roles in the commercial, civil, and international sectors," said Tellep, adding, "And of course that's linked right to Sandia and its capabilities."

Fond memories of Sandia

Tellep said he was delighted to be at Sandia, and he had fond memories of it. "When I was a pup, early in my career," he said, working on the Navy Mark III reentry body program for Lockheed in the late 1960s and early 1970s, he frequently visited Sandia — both in Albuquerque and Livermore. "I worked very extensively with folks at Sandia, I got to know a lot of Sandia people, and as a result I have a very, very high respect for the people, the technical competency, the ethical standards,

(Continued on next page)

Questions

(Continued from preceding page)

tion itself." He said that money comes from the corporation's shareholders, and they approved the merger 99:1. He said he hoped the audience "would try to help correct whatever misimpressions are out there."

• *Why is the Pentagon subsidizing the merger?* "That is incorrect," Tellep said, "We're not being subsidized."

(Also see Augustine's answer to the previous question.) Tellep added that the merger is expected to save the government \$3.1 billion over the coming years. It will cost about \$700 million, he said.

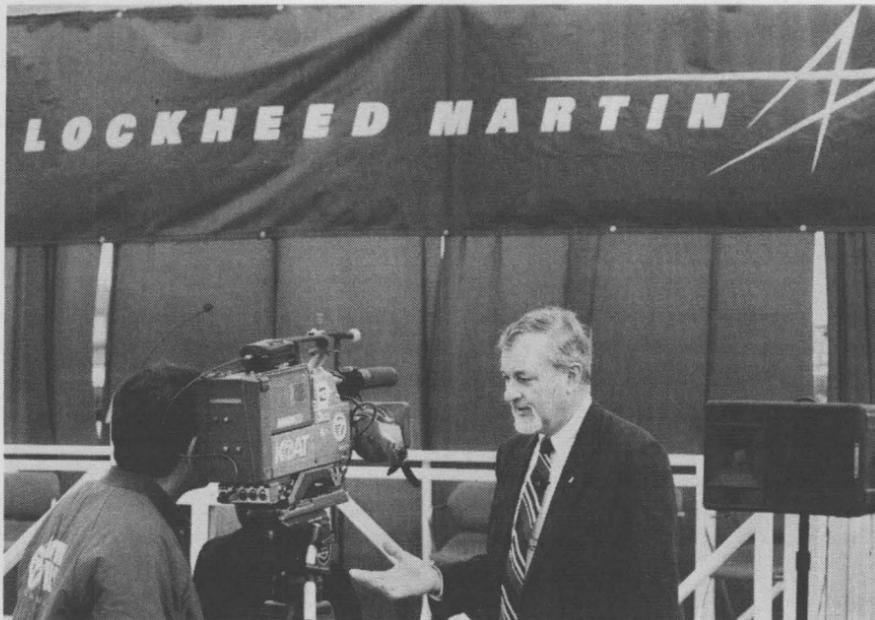
• *Is it Lockheed Martin's vision to manage all the DOE sites?* Tellep noted that the former Martin Marietta has done very well in getting contracts to manage major DOE facilities and Lockheed recently got the contract to manage the Idaho National Engineering Laboratory. "Between us we have [as management contractors] on the order of 33 percent of the total DOE national labs budget," he said. Any future opportunities for DOE contracts "will be evaluated on a case-by-case basis," he said, but added, "No, we will not try to take over DOE."

• *Sandia has \$400 million so-called "excess" in its pension funds that appears up for grabs by entities including DOE, and employees at our sister weapons labs get better pensions and better pay. Will you commit to seeing we get a competitive pension?* We provide competitive pensions, Tellep said. It would not be in our long-term interest to raise pension benefits because then we

"I won't receive a penny I wouldn't have received had this merger not taken place."

would become noncompetitive and in the long run lose jobs, he said. Tellep said Lockheed Martin will honor all benefits that have been accrued so far, and Sandians needn't worry about the surplus in the Sandia pension fund going elsewhere. "There is every reason to believe your pensions will be protected," Augustine added. Al commented briefly about the history and complex specifics of Sandia's pension "surplus." (DOE has recommended against trying to recover what an Inspector General last year called "excess assets" in Sandia's pension plan, *Lab News*, March 17.) "It's a very complex issue that has been looked at time and time again from both legal and other aspects," Al noted. "Under Martin Marietta, Sandia gained DOE approval for a significant improvement in the benefit by adoption of a High 5 formula," said Al. "At this point we are standing firm with the plan as it exists."

• *What about organizational conflict of interest concerns, especially in the satellite program?* "We've been very mindful of the organizational conflict of interest issues," Augustine said. "I think there is something to be brought [to the relationship] as Sandia applies technology more and more in new areas. We clearly have to be careful in doing that so that Lockheed Martin gets no special advantage. We've been at this for about a year and a half, and I think we've been very successful. I'm not aware of any real problem. We have a [conflict of interest] process in place, and I think we can continue it."



MERGER AND MEDIA — Sandia President Al Narath conducts his first interview under the Lockheed Martin banner. Here he talks after the March 23 flag-raising ceremony with KOAT-TV Channel 7 reporter Karen McDaniel (partially hidden by camera), who regularly covers Sandia activities.

Sandia in the News

This is a periodic column listing a selection of recent print and broadcast news reports about Sandia. It is provided by Media Relations Dept. 12621 to give Sandians a sense of what is being said about Labs work in national and international media.

Science featured a five-page article on the DoD counterproliferation initiative, focusing on technologies to detect and, if necessary, destroy weapons of mass destruction. Gerry Yonas (VP-9000) was quoted extensively. *Science* also did an article on vertical lasers, talking in depth about Sandia's work.

Business Week reported on the "silicon wizards" at Sandia coming up with a way to print circuit lines 0.1 micron wide using extreme ultraviolet light.

A *San Francisco Chronicle* article on Intel's success in the supercomputer business mentioned Sandia's use of an Intel Paragon supercomputer to simulate the impact of the Shoemaker-Levy comet on Jupiter.

Mechanical Engineering had several articles on Sandia accomplishments: a device for testing metallic and composite plates under heavy loading conditions (Wendell Kawahara [8746] was referenced), Sandia's Primary Standards Laboratory, and Sandia's development of an electrostatically powered microengine (Paul McWhorter and Jeff Sniegowski [both 1325] were mentioned).

Sandia's TIE-In program (Technology Information Environment with Industry) was reviewed in a couple of publications. *Technology Transfer Week* said Sandia had expanded its technology transfer activities to the Internet, offering TIE-In as a way for companies to access Sandia's data on experiments; *Mechanical Engineering* also discussed this development.

In a feature, "Reinventing Police Work: Keeping Officers Informed and on the Street," *Washington Technology* discussed the many technologies being developed for law enforcement application. A section on the federal labs mentioned Sandia's "smart gun" and "sticky foam."

The latest *Technology Transfer Business* had several references to Sandia work: the cooperative research and development agreement with the Walt Disney Co. to help ignite explosive displays more efficiently and the Multidimensional User-oriented Synthetic Environment. This full-page story quoted Creve Maples (1415) and said the special Sandia virtual reality environment is getting a "flood" of attention from the private sector.

— Kathy Kuhlmann (12621)

Execs visit

(Continued from preceding page)

and the way the business was run. With their talents and capabilities, I couldn't help but have the highest regard for Sandia. It's a competent, capable organization."

"That's why I am so excited about how this merger between two of the leading aerospace companies, Lockheed and Martin Marietta, will be a positive event for you, the people of Sandia."

Tellep told the Sandians watching by video from California that he also very much liked the Livermore Valley (he got his bachelor's and master's degrees in mechanical engineering at nearby UC Berkeley) and looked forward to the chance to visit them in person there.

The merger, both officials emphasized, was a necessity. It had its origin with the fall of the Berlin Wall in 1989. That brought

about a new, rapidly changing world. Companies were forced to change. Defense procurement budgets went into precipitous decline. "The defense industry has lost over 1 million employees since that time, and we're told the bottom hasn't been reached," said Augustine.

Serious discussions about a merger began just over a year ago. "Our conclusion was that by putting together two fundamentally strong companies," he said, the chances of long-term survival would be greatly ensured. "I'm confident that in three to five years we will have a company much stronger than either would have been separately."

"I'm confident that in three to five years we will have a company much stronger than either would have been separately."

Sympathy

To Lou Zelnio (9815) on the death of his mother, Mildred Zelnio, in Albuquerque, Feb. 26.

To Thomas Hobart (2483) on the death of his mother-in-law in Albuquerque, Feb. 24, and his brother-in-law in Albuquerque, March 7.

To Terri Olascoaga (10105) on the death of her mother, March 9.

To Laura Nance (6643) on the death of her father in Albuquerque, March 10.

To Bruce Hawkinson (12614) on the death of his father in Lindsborg, Kans., March 20.

Retirement open house

Sandia is holding an open house for retiree T. J. Williams (2671) in the Coronado Club Fiesta Room on Tuesday, April 4, 4:30-6:30 p.m. Refreshments will be served. Friends and acquaintances are invited.



'Webolution'

(Continued from page 1)

based. In traditional linear access methods, the user climbs an "information tree" to the end of a branch, retrieves a piece of information, and climbs down. At the next tree, the "info picker" starts from the trunk, climbs to a branch, and picks again. On the Web, the picker can jump from tree to tree without ever touching the ground.

Web information is organized into "pages," or individual screen displays. Perhaps the most noticeable feature of a Web page is that some words and icons — called *hyperlinks* — are highlighted with underlines or colors. Pointing and clicking on a hyperlink can take you from a page in a South Dakota database directly to a related page in Salt Lake City or Singapore.

For instance, on the Web you might see the word *astronaut* in mid-sentence; by selecting it, you'd probably learn something about astronauts and find more links that would take you to pages provided by NASA or to other sites relating to space travel.

Another major difference is that Web information can be, and often is, in the form of graphics, animation, and/or sound — collectively called *hypermedia*. You can see a full-screen representation of the Mona Lisa, watch a Mickey Mouse cartoon in Technicolor, or



hear Martin Luther King's "I have a dream" speech, if you have the right software and computer equipment.

There's no page like home

When a cyberspace citizen wants to present information on the Web, he or she first creates a customized page called a *homepage* — a top-level screen display sponsored by a person or organization and often linked to pages at other sites or organizations containing relevant information.

For instance, the Department of Energy homepage not only contains information about the Galvin report and other DOE news, it also has links to the DOE labs, to the Department of Commerce, and to research institutions and universities around the world — to any Web site that contains information relevant to DOE's mission.

In the April 1995 issue of *Internet World*, editor Michael Neubarth aptly described the Web homepage as "a combination frontispiece, greeting room, table of contents, hub, launching pad," and "portal."

Sandia has two homepages — an internal homepage for use by Sandians only, and an external site accessible to Sandia customers and anybody interested in Sandia's work. (See "Sandia's Web presence — Much more than marketing" on page 7.)

To use the Web, you need access to one of the Labs' networks. You also need desktop computer software called a *browser*.

Browsers convert Internet information, regardless of language, to something your computer can understand, allowing you to navigate Web hyperlinks and call up graphics and textual displays regardless of their source.

Sandia has multiple-user licenses for two commercial Web browsers: Netscape and Spyglass Enhanced Mosaic, available for PCs, Macintosh, or UNIX stations. Contact your local-area network (LAN) manager to have a Web browser installed and configured at your desktop. (See "How do I get on the Web?" on page 8.)

Web growth

Web use began its exponential rise in mid-1993, when user-friendly Web browsers began to

Some Web terms simplified

The Internet — The international "network of networks," typically referring to the infrastructure, or physical parts (computers, software, phone lines, etc.), that comprise it. Sometimes the term refers to the international community of computer users utilizing the network. The Internet took shape in the 1970s when independent computer networks in government and academia began to mesh.

The World Wide Web — A relatively new standard protocol, or method of accessing and viewing Internet information, employing windows-based browsers with user-friendly "click-and-go" interfaces. Several standard Internet protocols preceded the Web dating back to the 1960s, including Telnet and File Transfer Protocol (FTP).

HTTP — Hypertext Transfer Protocol, the most common protocol, or language, used on the Web and by Web browsers.

Hypermedia — A collection of multimedia documents connected by hyperlinks, including textual, graphical, audio, and animation elements.

Hyperlinks — Access points embedded in Web textual or graphical displays (usually highlighted words or framed graphics) that when selected take the user directly to related information on the Internet, regardless of its location in cyberspace. Hyperlinks are created by homepage owners.

Cyberspace — An imaginary electronic universe where all information available on the Internet resides.

Homepage — A top-level screen display presented by a single person or organization (host) and linked to all pages containing information the host wishes to present.

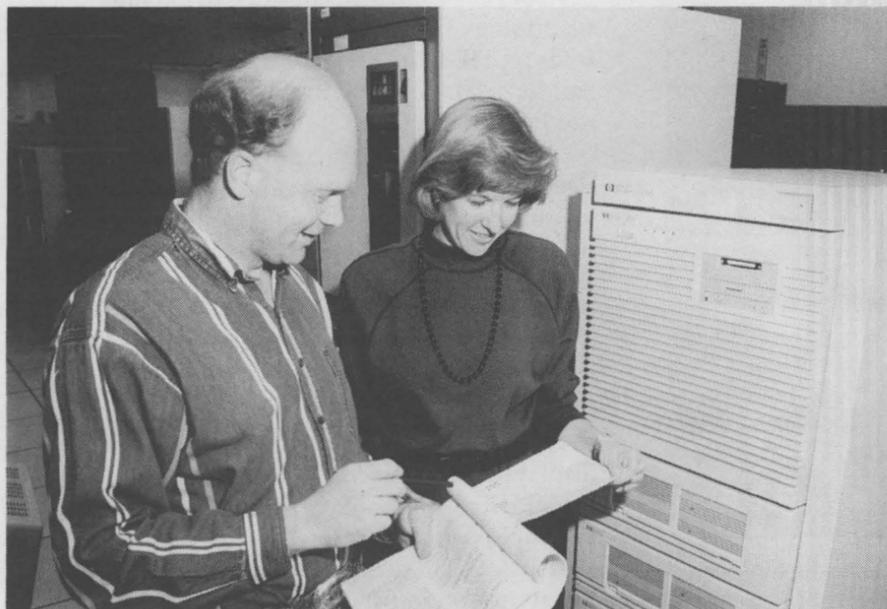
Web server — The central computer, typically a large UNIX machine, through which an organization's or person's presence on the Web is made available.

Web site — A Web server, or Web homepage, through which information from a single host can be accessed.

Web master — The person who coordinates an organization's Web sites and/or Web homepage and hyperlinks.

Browser — Software that allows a personal computer to navigate Web hyperlinks and call up hypermedia files. Because most browsers are descendants of Mosaic, the first user-friendly Web browser, "Mosaic" has become a generic term referring to almost any windows-based browser.

Search engine, spider — A tool available on the Web capable of searching cyberspace for specified keywords or subjects and returning appropriate access points to the user.



SANDIA'S GATEWAY TO THE WEB — Fran Current (13212) and Karen Long (2252) discuss a pending upgrade of the Sandia World Wide Web server. Approximately 2,000 Sandians are currently accessing the Web via two relatively small workstations located in the Bldg. 880 computing annex. During the next few months, Sandia expects to acquire a much larger UNIX-type server like the one next to Karen, which should improve Web access considerably.

Web use and abuse — What's OK and what's not?

Because there's so much information available on the World Wide Web — some useless, some offensive, and most unrelated to Sandia work — eventually Sandia will have to develop some guidance that draws the line between acceptable Web use and Web abuse, says Sandia Ethics Director Jack Dickey (12700).

"At first, we expect people to spend some time on the Web exploring," he says. "It's a good learning experience."

But, he says, Web use now falls under existing waste, fraud, and abuse policies, which prevent Sandians from using government-owned equipment for personal use. As uses for the Web expand, however, the line between right and wrong may

become smudged.

He likens using the Web to using Sandia phones. "It's not OK to use your phone for personal stuff, especially if it causes an undue disruption in your business day," he says. "But it's certainly not frowned upon if you occasionally order flowers for your spouse. So is it OK to occasionally use the Web for personal use? That's something Sandia will have to work out."

Is it possible to check on what employees are calling up on the Web from a central location? Yes, says Karen Long (2252), although that would be rather time consuming.

"For now, people are going to have to be professional and use their better judgment about what they call up," says Jack.

hit the popular marketplace. In just two years, the number of Web sites providing information went from 100 to more than 10,000. Today more than 3 million users worldwide reside on the Web, and its use is growing rapidly. By 2000, that number is expected to be 40 million, says Ed Marek (1434).

Web-accessible information is expanding exponentially, too. One source estimated that the amount of Web data available doubles every three days. The movement has been described as nothing less than a "Webolution." "There will be a day when most people on the Internet are on the World Wide Web," he says.

"The great thing about the Web is that unlike TV, radio, or newspapers, it's an interactive way of sharing information," he says. "Anybody can put information on the Web."

The Web enjoys such freedom, says Ed, partly because like the Internet, no single authoritative body governs what goes on it. "You stumble on some useless and offensive stuff occasionally," he says. "But it's worth it for the amount of good information you can find if you know where to look."

Sandia's Web presence — Much more than marketing

A corporate-wide information system begins to take shape

It's a corporate fantasy come true.

Just point and click to see full-color images of Comet Shoemaker-Levy smashing into Jupiter. Or watch a storm brewing on the National Weather Service's infrared weather map. Or behold US spy photos of former Soviet bomber bases.

Better yet, point and click to check Sandia's per diem for travel to Washington. Or query Sandia's on-line phone directory to call a colleague. Or inspect DOE orders relevant to Sandia. Or peruse today's *Heads Up!* (formerly *Sandia Business Brief*).

This is just a sampling, just a smidgen, of what's available to Sandians now on the World Wide Web. And more is coming. Every day new information about Sandia and relevant to Sandia's work is made available on the Web, says Fran Current (13212). (See "It's a World Wide 'Webolution'" beginning on page 1.)

Recently, Albuquerque Sandians were introduced to the World Wide Web during a day-long Info Day '95 at the Technology Transfer Center (*Lab News*, March 17). A similar Info Day is planned for Sandia/California April 11.

For Sandians only

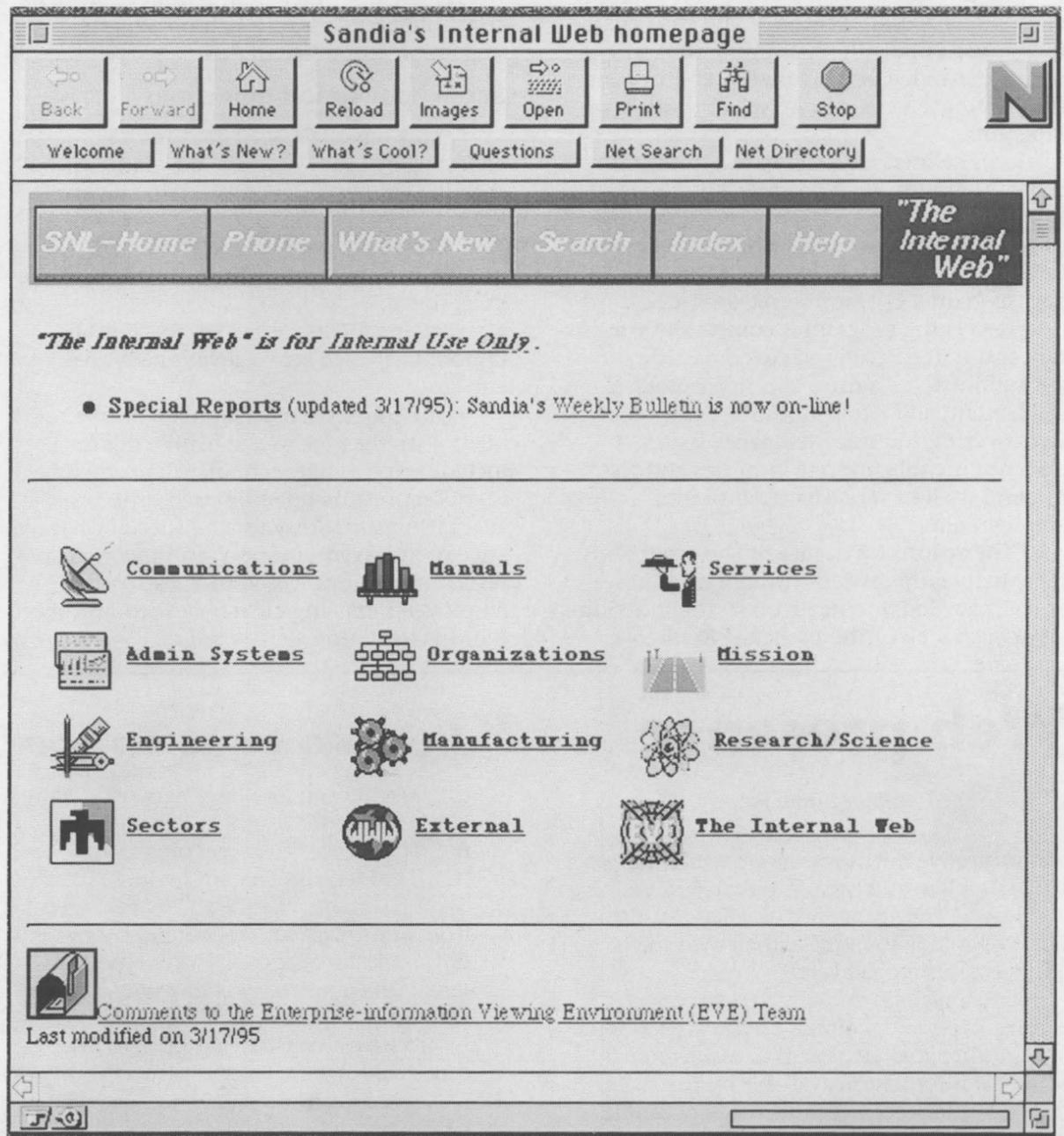
Sandia's Web presence is organized into two facets: an internal homepage for use by Sandians only, and an external homepage for Sandia customers and anybody interested in Sandia's work.

Sandia's internal Web is accessible to anyone with access to the Labs' restricted networks (the internal restricted network at Sandia/New Mexico or the random access network at Sandia/California). Although no classified data is put on the Web, most of what's contained on the internal homepage is useful only to Sandians and contractors. (See illustration at right.)

For instance, internal Web users can select the Communications icon to see what's on Radio Sandia today or read various internal Labs newsletters, including current and previous *Weekly Bulletins*. You can click on Manuals to get on-line access to Sandia Laboratories Policies or Travel Handbook. Or you can choose Mission for information about Sandia's Strategic Plan, the Galvin report, etc.

Fran says a primary purpose of the internal Web is to meld access to the several existing corporate databases — such as the Financial Information System, the Laboratory Information System, etc. — into a single, unified corporate information system.

"To access all of Sandia's different databases



THE INTERNAL HOMEPAGE — Screen shot of Sandia's Enterprise-information Viewing Environment (EVE) homepage, through which Sandia Web users can access a variety of corporate information. Options include Communications (Labs newsletters, Radio Sandia schedule, etc.), Manuals (Sandia Laboratories Policies, Travel Handbook, etc.), Services (job opportunities, computing support, etc.), Admin Systems (financial, purchasing, property, etc.), Organizations, Mission (strategic plan, Galvin report, etc.), Engineering, Manufacturing, Research/Science, and Sectors. The External icon provides access to the external World Wide Web.

now, you'd need half a dozen accounts and a dozen passwords," he says. "In the future, this is going to be our single interface system."

Part of reengineering

Adopting the Web is part of what Sandia management has been promising through reengineering, says Chief Information Officer Mike Eaton (13100), who is coordinating

improvements to Sandia's communications infrastructure.

"A common, corporate-wide communications infrastructure is something we've needed at Sandia for a long time," he says. "This will help ensure that Sandians have access to corporate information right at their desktops."

The Web also should expedite certain
(Continued on page 8)

The Web folks: Who's behind Sandia's World Wide Web presence

Sandia activities on the World Wide Web began in early 1994 in the Labs' technical community, with initial funding support from Charlotte Acken (8401) and Michael Callahan (2602) and technical projects such as TIE-In (see the March 17 *Lab News*). Ed Barsis (1400), Virgil Dugan (12100), and Paul Robinson (4000) were "catalysts" who helped get the projects started.

Spurred by several Sandians including Lori Parrott (12120), top management decided to begin providing general information about Sandia on the Web, and to explore its use as an internal communication medium. Chief Information Officer Mike Eaton (13100) began to implement the Web as part of Sandia's corporate information system.

Mike Tebo (former Sandian) and Fran Current (13212) organized the Enterprise-information Viewing Environment (EVE) project and began developing the corporate-wide communications

interface. Fran and Karen Long (2252) co-chair the EVE team. Jack Jones (13200) and Herb Pitts (13400) are the EVE "management drivers."

The Web Steering Group (WSG) coordinates Sandia's external Web presence. John Cummings (4000) is responsible for the overall content of the external Web site.

The Web External Architecture Team (WEAT), responsible for the "look and feel" of Sandia's external Web site, is chaired by Dru Popper-Lopez (4202).

Web activities at Sandia began with grass-roots efforts of John Mareda (1425) and Ed Marek (1434). John founded the Web Working Group (snlweb) and Ed is working on advanced technologies for the Web.

Dirk Vanwestrienen (13411), Dave Johnson (1423), Jim Muntz (13911), and David Leong (13212) are the technical consultants for the internal and external Web projects. They maintain and

administer the Web servers and provide general support for Web information providers.

Rich Graham (2782) organizes activities among internal information providers. Tam Orth (13412) coordinates training for local-area network (LAN) managers, Web information providers, and Web users.

Several projects are under way to develop and refine Sandia's Web presence. Charles Shirley (12615) is developing guidelines and a process for Sandians who want to present information on the Web. Larry Perrine (12622) is beginning a major project to redefine how employee communications are handled and coordinated, including information on the internal Web.

Fran adds that the Web project couldn't continue without the help of scores of other Sandians, including the local-area network managers, computer support folks, and information providers.

DOE, Sandia clarify polygraph guidelines, limitations

The director of DOE's Office of Nonproliferation and National Security says the department's use of polygraph examinations will not be expanded beyond that established for the existing Accelerated Access Authorization Program.

John Keliher, responding to a query from Senator Jeff Bingaman prompted by concerns expressed by a Sandian last summer, says the program was designed to speed up background investigations and has "averaged less than 30 days to grant a Q or top secret clearance."

He says the program is completely voluntary and that carefully screened participants are administered a drug test, psychological assessment, and a four-question polygraph test covering counterintelligence issues. It does not include lifestyle inquiries and "is not and shall never be" a condition of employment.

"The voluntary nature of the program is repeatedly emphasized through briefings and acknowledgments given to the individuals at each step of the process," Keliher

wrote. "At any time, an individual may discontinue participation with no adverse impact on employment."

Sandia polygraph guidelines

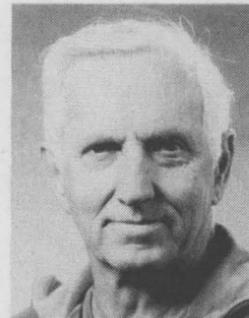
Sandia has established guidelines — approved by Labs President Al Narath — defining employees' submission to polygraph testing. They include:

- The risk to national security requiring quick clearance approval "must be judged to be exceptional,"
- Requirements for such exams must be uniformly applied across government agencies and labs,
- The employee must receive a detailed briefing on the process and his/her rights, including the right to terminate it at any time,
- Test results must be used only in evaluating suitability for the special clearance or access in question, and inconclusive results must not be used to question the employee's existing clearance without further investigation,

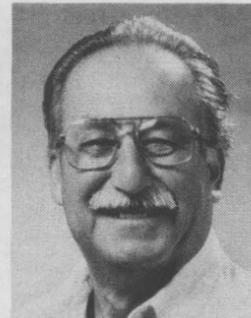
• Unwillingness to undergo polygraph testing for special access will not prejudice continuing Sandia employment.

Any deviation from these conditions requires Al's written approval. For further clarification on the polygraph issue, call Bob Baca (7437) on 845-8288.

Recent Retirees



Leland Stone 37
9825



Onofre Candelaria 16
12615

Web presence

(Continued from page 7)

administrative functions, such as ordering office supplies, as more of Sandia's Purchasing and Just-In-Time functions are made available. Employees may soon make their own travel arrangements too, adds Fran.

Sandia plans eventually to save paper by issuing forms and manuals on the Web as well.

Another goal, he says, is to make more technical information available on the Web. "We'd like to see the technical side of Sandia begin sharing information, such as SAND reports and journal submissions," he says.

Sandia's internal homepage is coordinated by the Enterprise-information Viewing Environment (EVE) Team, which developed Sandia's internal homepage.

"We've tried to make finding information on the internal homepage as intuitive as possible," says Karen Long (2252), who co-chairs the EVE team with Fran. (See "The Web folks: Who's behind Sandia's World Wide Web presence" on page 7.)

The external homepage

Sandia's internal homepage also contains a link to the external Web, which is both a launching pad through which Sandians can explore the Internet, and a window through which outsiders can look into the Labs.

"If we're guilty of anything here at Sandia, it's that we sometimes work in a vacuum," says Ed Marek (1434). "This will help us work with the rest of the world in mind."

For Sandians, the external Web contains direct access to government agencies, universities, and Internet resources. For non-Sandians, a separate external homepage provides information about the Labs that might be of use to potential Sandia customers, or to people who just want to know more about the Labs.

For instance, outsiders could hear a 40-second [Audio Welcome](#) to Sandia, or see an animated introduction to Labs work. They could read recent Labs news releases and fact sheets about technical accomplishments. They could find an employee's phone number and e-mail address. Or they could select [Sandia Technology Transfer](#), where they would find on-line tech transfer services and information, including information about CRADA (cooperative research

How do I get on the Web?

Desktop and local-area network (LAN) customer service at Sandia is being organized based on a customer service unit (CSU) model, says Rick Harris (13422).

A CSU is an alliance of LAN managers from line organizations coordinated by a CSU project manager. Each CSU provides service to employees working in a set of geographically localized buildings.

To have a Web browser installed and configured at your desktop, contact your LAN manager; if you don't know who your LAN manager is, call the CSU project manager (Area 1 listed here) servicing the building

nearest you, or call the central computing help desk on 845-2243 to help locate your LAN manager or CSU project manager.

(Some Sandians do not now have direct access to Sandia's restricted networks. Call the help desk for more information.)

CSU project managers:

Bldg. 890	Pete Warner (13422)
Bldg. 891	JC Kelly (13422)
Bldg. 836	Diane Janni (13421)
Bldg. 821	Tom Klitsner (13421)
Bldg. 802	Kathy Marder (13421)
Bldg. 880	Dave Ortiz (13411)
Bldg. 897	Larry Cox (13421)

and development agreement) opportunities, user facilities, and tech transfer success stories.

"The Web is a good medium for presenting an integrated, balanced view of Sandia," says Ed.

Accurate, useful information only

He says Sandia is trying hard to make the information available to the outside world as findable, accurate, comprehensive, and effective (the acronym is FACE) as possible.

"We're pushing the concept of information ownership," he says. "We want Sandians to make their work available on the Web, but we also want them to be responsible for keeping the information up-to-date and relevant."

What goes on Sandia's Web site, however, represents Sandia's "official viewpoint," and such material needs

to be reviewed and approved in much the same manner as brochures and other official Labs publications, adds John Cummings (4000), who is responsible for the overall content of material on Sandia's external Web site.

"We need to make sure Sandia's Web site is something we can all be proud of, and that material on the Web is in accordance with Sandia's Institutional Plan," he says.

Sandians who want to present information on the external Web should call Charles Shirley (12615) on 844-3652 for more information.

"We need to make sure Sandia's Web site is something we can all be proud of."

Virgil Dugan (12100) adds that Sandia's external homepage has a side benefit: Sandians are able to see what Sandia does, comprehensively, and thereby better understand how they fit in the larger scheme of things.

Still some wrinkles

Mike says Sandia now is trying to get a few wrinkles ironed out, including solving computer saturation problems that arise when a thousand people try to access the Web at once.

Also, says Fran, some employees currently don't have direct access to Sandia's restricted networks and must access the internal homepage via the external open networks (see "How do I get on the Web?" above). "The CIO organization is working on that," he says.

Another challenge will be setting forth an official policy to prevent abuse of the Web. "Eventually some guidelines will be developed," he says. "But there's too much benefit here to let use policies get too restrictive." (See "Web use and abuse — What's OK and what's not?" on page 6.)

Sandia first is focusing on training its local-area network (LAN) managers to install and configure Web browsers at Sandians' desktops, says Fran. "We're also training the info providers, and soon the users," he says. "We'll have to rely on our LAN managers for now."

"We're at a point where we're putting considerable resources into this in terms of people and dollars," says Mike. "But come summer, we should have our Web presence straightened out."

— John German

O'Leary names Narath to chair classification panel

Review team to examine DOE secrecy policies

Energy Secretary Hazel O'Leary has named Sandia President Al Narath to chair a panel responsible for systematically examining all Department of Energy classification policies and recommending changes.

The Fundamental Classification Policy Review, as it's called, will last 12 months and will result in a new set of classification policies that "allow maximum public access to DOE people, plans, and programs without sacrificing critical national security requirements," according to the Secretary's office.

The review is part of the Secretary's Openness Initiative, intended to improve DOE's accountability and earn the public trust by removing a perceived veil of secrecy surrounding DOE and the nuclear weapons complex.

The primary task of the Fundamental Classification Policy Review panel, said O'Leary, is to determine which information requires continued protection, "with the intent of promptly releasing all information no longer warranting such protection." All defense-related nuclear information will fall under the purview of the panel, which will coordinate its review with the Department of Defense and other federal agencies.

"There have been many requests from citizens and professional groups for information in areas such as environment, safety, and health, and historic data," according to the Secretary's office. "It is probable that much of this information may now be declassified with no harm to the common defense and security of the United States or its friends around the world."

Approximately 50 technology and classification policy experts primarily from DOE,

DoD, and the national labs will participate in the review. Individual working groups will address classification policies in seven categories: weapons science, weapons design, materials production, weaponization, weapons production and military utilization, military reactors, and safeguards and security. Input from public policy groups, industry, and universities will be sought.

Several Sandians have been named to participate in the review, says Glen Otey, Director of Strategic Studies Center 4100, who will serve as the review team's deputy chair.

The weaponization working group will be chaired by Jim Wright, Director of California Weapon Development Center 5300. Dick Craner, Manager of Classification and Sensitive Information Dept. 13214, will serve as that group's classification representative. The safeguards and security working group will be chaired by Dennis Miyoshi, Director of the Center for Nuclear Security Systems 5800, with Bruce Green (13214) as its classification specialist.

More Sandians are expected to be named to the working groups in the coming weeks, adds Dick.

Experts urge openness

At a DOE stakeholders meeting March 16 in Washington, the need for a fundamental classification review was endorsed by invited speakers from public policy, nonproliferation, and environmental advocacy groups, as well as government officials and prominent scientific figures.

Edward Teller, who for decades has advocated government openness, urged the review

panel to adopt a short life span for protected theoretical information. "I think there should be a time limit of five years," he said. "Maybe of two years. In principle, what is known today will be accessible to practically everybody who goes after it in a short time. And by stretching the time limit, we only give ourselves an unrealistic view of the actual situation."

He also encouraged complete openness regarding US plutonium and tritium stockpiles, as well as the current size of the US arsenal of nuclear weapons. But he acknowledged that certain information regarding the practical application of weapons technology should be protected.

Wolfgang Panofsky, director emeritus of the Stanford Linear Accelerator Center, who chairs a soon-to-be-released National Academy of Sciences study on DOE classification policy, said "very high fences should remain around truly important sensitive subjects, but classification and dissemination restrictions on a large volume of less sensitive material should be removed entirely."

He noted that last year's estimate of a backlog of 32 million pages awaiting declassification review by DOE has recently been updated to about 130 million pages.

The first meeting of the 50 members of the Fundamental Classification Policy Review working groups is scheduled for early May at Sandia/New Mexico. Watch the *Lab News* for details.

The review is under DOE's Office of Nonproliferation and National Security and supported by DOE's Office of Declassification.

— John German

Feedback

Q: I have recently reviewed my savings situation and am very concerned over the lack of options offered in the 401(k) plan. At age 43 with 16 years of service, my 401(k) plan is worth approximately \$250,000. This represents approximately half of my overall savings/investments. The options available to me include one growth fund, one fund indexed to the Standard and Poors 500 rating system, one growth-and-income fund, one income fund, AT&T stock (for the next few years only), Lockheed Martin stock, and two interest-oriented/capital preservation funds. Considering that in the most "optimistic" scenario I have nearly 12 years to retirement, my investment portfolio, even in a very conservative environment, should be substantially invested in growth investments. For a portfolio of this size, I should be investing in at least twice the variety of growth or growth-and-income options available to me in this program. Given that I have substantial assets outside this long-term account to cover my shorter-horizon risk requirements, the limitation of growth investments is more constraining.

Fidelity offers a wide variety of investment options. Why is our account so restricted? What plans are in the works to provide enough options to allow responsible management of our savings for our futures?

A: Sandia Corporation Savings Plans currently offer seven investment fund options, not including the inactive AT&T Shares fund. This fund selection was compared to the number of options offered by other corporate 401(k) plans. Data was collected from Buck Consultants and the Hewitt Company, which specialize in employee benefits. The information provided by Hewitt shows that the trend among plan sponsors is moving toward offering more investment options in their 401(k) plans: In

1988, Hewitt calculated an average of 3.0 investment options per plan, 3.7 in 1991, and 4.5 in 1993. Buck said the number of investment funds offered most frequently was four (offered by 29 percent of the companies surveyed) followed by five options (22 percent) and three options (21 percent). The numbers of investment options offered by the other 28 percent were not identified.

The responsibility of a savings plan sponsor is to provide a portfolio of funds that represent varying points on the investment risk/investment return spectrum from which a participant may choose to invest. Funds are analyzed by asset size, longevity, expenses, and historic rates of return in all markets and relative to fund peer groups. The corporate plan sponsor is responsible for communicating these fund characteristics and providing information to participants so they may restructure their retirement portfolio using the new investment option to meet a target level of market risk.

The Sandia Cor-

poration Savings Plans investment team is currently reviewing the possibility of adding a fund to the Sandia Corporation Savings Plans whose primary objective is to invest in international equities. Any other future additional options would offer risk/return objectives not currently available. It may be several years before other additions are considered and they would be a part of a broader long-term strategy for investment option selections.

Ralph Bonner (10500)



MERGING IMAGES — David Skogmo of Security Technology Dept. 5838 demonstrates image merging to students at the Northwest New Mexico Regional Science Fair open house at the University of New Mexico. Image merging is an image processing technique similar to morphing, whereby components of one video image can be lifted from the image and blended onto a new background. Sandia has participated in the open house for the last five years. This year, Sandia's display featured a variety of video, image, and signal processing technologies used in national security applications.

Mileposts

March 1995



Tommie Thompson 15
10251



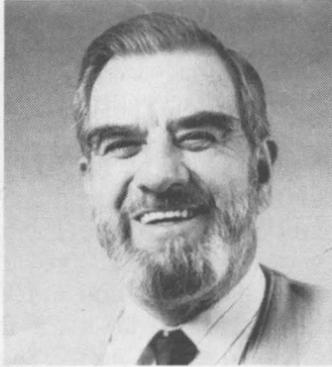
Howard Stephens 25
6212



Sandra Babb 15
13311



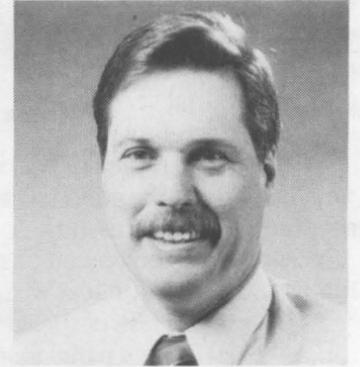
Charlie Ray 35
10248



Keith Taylor 25
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Michael Rouse 15
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Paul Gourley 15
1112



Vicki Malone 15
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Rand Rozelle 35
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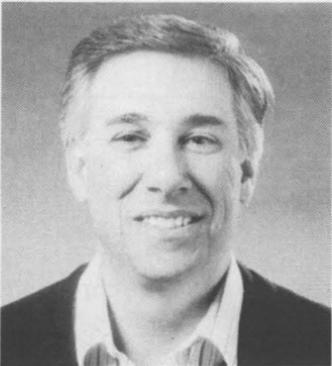
Mary Montoya 15
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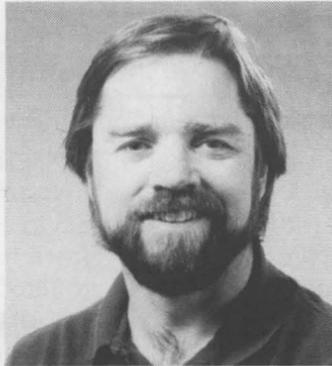
Michael Knoll 15
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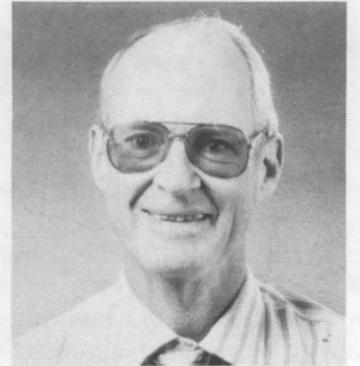
Jesse Allen 35
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Michael Orrell 15
5166



Peter Watterberg 15
2121



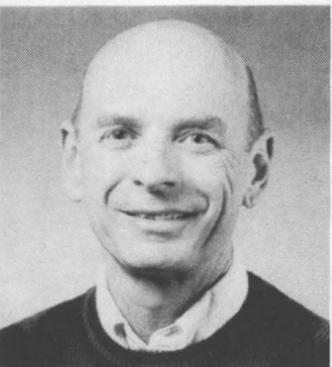
Roger Zimmerman 15
9818



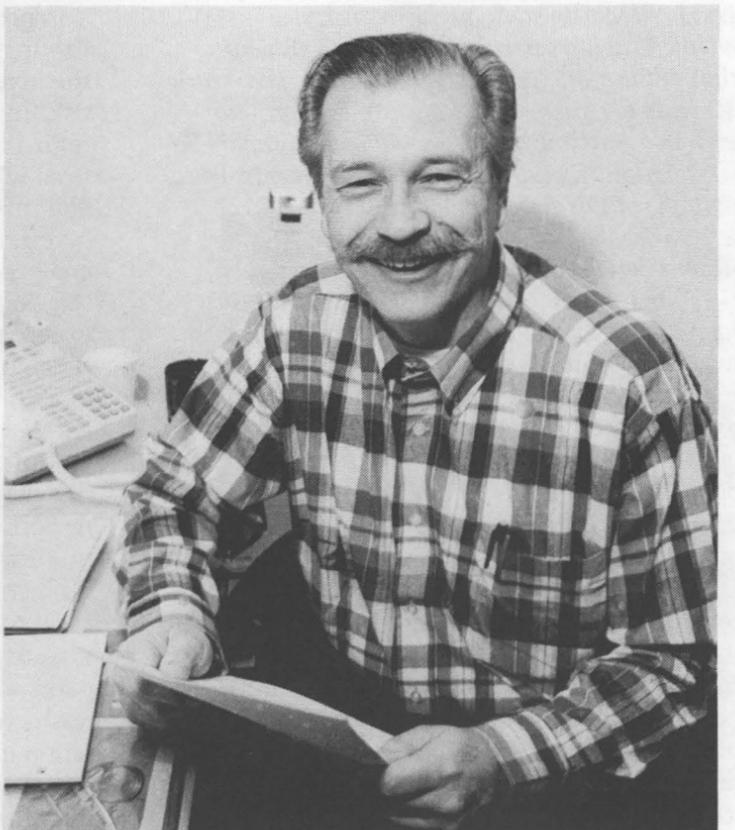
Carlos Quintana 15
13421



Stuart Kupferman 15
1142



William Brigham 15
2654



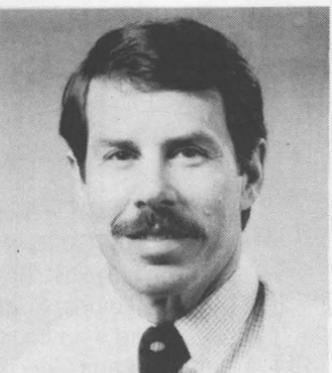
David Straub 25
5932



Milrene Goodloe 15
13213



Brad Godfrey 15
9614



Henry Westrich 15
6118

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

MISCELLANEOUS

TIRE & WHEEL, from Ford Ranger, new, never been used, 4-WD type, size 265R75-15, \$100. Duran, 867-0840.

ROLEX SUBMARINER, '58 oyster perpetual, \$600; pre-40's Plains Indians' beadwork, 19C war club necklace, headband; gold Wittenauer woman's watch, \$250. Dubicka, 296-6557.

LA-Z-BOY RECLINER, woman's, blue, like new, \$200. Canon, 831-5269, after 5 p.m.

JOHN WAYNE STATUETTE, new, in box, Avon collectible, \$35 OBO. Cady, 823-2013.

CHROME DAYTONS, two sets, w/adapters & tires, both excellent condition, \$3,300 for both OBO, negotiable. Archibeque, 877-8818.

MOVING, glass/brass dinette (new); three 30-in. wall units; wrought-iron patio furniture; stereo/speakers, more, Glenwood Hills area. Bliss, 296-3752.

SCREEN DOOR, custom-made, w/grill & screen, 79" x 42", oversize width, excellent condition, \$25. Strance, 298-0258.

SOFA, brown plaid, no obvious rips/tears, \$25. Orand, 275-2255.

SOLID OAK TABLE, (29-1/2" x 48"), \$150; round drop-leaf table, (40" light oak), \$100, both excellent condition. McDonald, 237-2589.

BIG ROCKS, for landscaping, free if you come & get them. Armstrong, 271-8302.

ANTIQUA PIANO, mahogany, '54 Lester; Betsy Ross spinet, \$1,200; antique oak swivel office chair, \$120; walnut rocker, w/back & seat pads, \$50. Roybal, 836-5062.

EPSON PRINTER FX 850, excellent condition, \$100. Edenburn, 869-2911.

SOFA W/RECLINER on each end, Benchcraft, blue, \$300; "Chair" exercise bike, \$200; pine waterbed, w/underneath drawers, \$125. Burkinshaw, 293-7563.

CAMPER SHELL, fiberglass, for full-size Ford or Dodge pickup, cat. 1 trailer hitch, overload leaf, springs for 1/2-ton pickup. Kallenbach, 869-5237.

MATCHING BIKES, his & hers, Fuji Absolutes, puncture-resistant, Slime'd tubes, excellent condition, \$75 ea. or \$125 both. LeTourneau, 266-9214.

OVEN/BROILER, continuous-cleaning, \$20; hard-shell briefcase, \$15; 2-piece pool cue, w/case, \$10; racquetball racquet, new strings, \$10; vaporizer, \$5. Homicz, 294-1676.

CRIB & CHANGING TABLE, (white wood); infant car seat, 1.5 yrs. old, half of original price. Kalina, 275-3299.

WHIRLPOOL WASHER & GAS DRYER, 2 yrs. old, heavy duty, extra capacity, almond, \$440/pair. Weisenbach, 293-1073.

BUNK BED RED FRAME/MATTRESSES, twin top/full bottom, 6 mos. old, like new, was \$350, sell \$250. Johnson, 294-4779.

TWO LAMPS, creamy w/gold trim, approx. 34-in. high w/up-to-date shades to match, like new, \$45. Burstein, 821-6688.

TRAILER, for small motorcycle or bikes, ready to go, \$150; bathroom or kitchen ceramic tile, \$70 all. Aragon, 888-3473.

DALMATION, free to good home, 2 yrs. old, all shots, needs lots of space & playmate. Alvarez, 831-3978.

FUTON, finished pine, queen-size frame (no mattress), \$215; small matching table, \$20. Schkade, 292-5126.

EXERCISE BIKE, \$70; motorized treadmill, \$100; glass/oak coffee table, \$75; end table, \$40; pink table lamp, \$10. Kelly, 237-9709.

USED WHEELCHAIR, good condition, \$125; adult walker, almost new, \$50; shower chair, \$30. Schamaun, 255-3593.

COLOR TV, 25-in., \$100; washer, Kenmore 70 series, \$100; component stereo, AM/FM, dual cassette/record player/speakers, \$100; microwave, \$85; trumpet, \$25. McAnamney, 293-0794.

GOLF CLUBS, Persimmon #2 wood, \$30; all-graphite driver, \$30; metal driver, \$25. Dwyer, 271-0741.

JENN-AIR, 2 burners, 1 broiler, down-draft exhaust, brushed stainless finish, electric, free. Key, 856-1588.

TRICYCLE, Playskool 1-2-3, adjustable seat, excellent condition, \$15. Meeks, 828-9825.

STAIR-STEPPER, CSA "Alpine Flexstep", brand new, assembled, paid \$120, asking \$80. Herrick, 831-1220.

FUTON COUCH/BED, w/Southwest slip cover, \$250; small drafting table w/T-square, mechanical pencils, compass, scales, \$75. Dennis, 299-3763.

INVERSION TABLE, exercise machine for back pain & body fitness, complete, like new, 70% off new, \$125. Dybwad, 296-9047.

TWO SWIVEL BARSTOOLS, 30-in., wood w/padded seats & chair backs, \$40 ea. Kinney, 242-3670.

CARTOP LUGGAGE POD, excellent condition, used one time. Mead, 869-6124.

BUILT-IN OVEN, GE, single, 27-in. self cleaning, black, 4 yrs. old, \$125. Holmes, 292-0898.

STUDY TABLE, 67" L x 29" W x 29" H; tabletop bookcase, 66" L x 66" H x 12" D, four adjustable shelves, wood, white, very sturdy, \$50. Beard, 821-0309.

WORD PROCESSOR, Brothers, WP-55, w/built-in daisywheel printer & floppy drive, perfect for student, \$175. George, 821-4349.

ENGLISH BUTLER'S COFFEE TABLE, \$30; solid oak, stained dark, hexagonal end table, \$50; both good condition. Tilgner, 821-7551.

ANTIQUA SOFA, Harvey House dinnerware from Belen; Frankoma dinnerware; wrought-iron gates; Singer sewing machine; basket-weaving materials. Sharpton, 897-2883.

RED DOBERMAN/CROSS PUPPIES, will be mid-sized to large adults, free to good home. Vandewart, 298-4741.

BIKE RACKS, two, Yakima upright, cross bars, towers, locking jaws, instructions, used once, third less than new, \$225. Church, 281-5215.

MOVING YARD SALE, 2 families, April 1, 9 a.m.-4 p.m., Paradise Hills, 5225 Russell Dr. NW. Hauber, 898-0997.

ROTOTILLER, Montgomery Ward, 5-hp, \$150. Madsen, 294-3235.

DOGHOUSE, new, never used, medium-sized, \$75. Balonado, 248-0241.

WOOD STOVE INSERT, Arrow, 2 electric motors, like new, glass & solid door, \$700 OBO. Benton, 877-2473.

ALUMINUM SUSPENSION FORK, AMP Research F-2/DH, 1-1/8-in. threaded steer tube, \$300 OBO. Sartor, 858-2554.

CHIPPER/SHREDDER, 5-hp, heavy-duty engine, used 2 seasons, like new, \$300. Greer, 281-4514.

LAWN FURNITURE SET, 6-piece, w/cushions, glass-top table, chaise, \$150. Ayers, 888-8922.

LEADING EDGE 286 COMPUTER, 30MB HD, 3-1/2 & 5-1/4 floppies, mouse, Sound Blaster, speakers, Word 6.0, VGA color monitor, \$300. Lockwood, 821-6331.

TELESCOPE, 4-in. Meade SCT, w/clock drive, eyepiece, finderscope, \$400 OBO; Maximat 7-in. turning lathe, w/4-in. 3-jaw chuck, \$500 OBO. Scott, 281-4332.

CHICKEN-WIRE FENCING, 38" x 77" roll, \$20; wall blocks, 10 ea., 16" x 8" x 8", \$5; 30 ea., 16" x 16" x 6", \$18.50. Stang, 256-7793.

SOFA SLEEPER, 3-cushion, light brown, good condition, \$225; coffee & 2 end tables, \$75; 145 sq. yds. plush-beige used carpet, w/pad, \$2/sq. yd. Yagow, 899-0854.

REFRIGERATOR, new GE spacemaker, 3.8 cu. ft., \$100. VanLeeuwen, 296-6767.

SOFA SET, 3-piece, \$200; twin bed, \$50; queen waterbed, \$50; small desk, \$35; table, \$30. McCrory, 292-7516.

WHEELS, 195/70R14 tires, mounted on 5-star Progressive rims, lots of miles remaining, previously used on Chev. Cavalier, \$400. Bouchard, 831-4766.

STEREO SPEAKERS, sound great, look terrible, tri-amped, active crossover, \$100 OBO for the pair. Strip, 292-7490, ask for David.

KING-SIZE MATTRESS, box spring, frame, top-of-the-line Sealy Crown Jewel, 1 yr. old, excellent condition, \$350. Rockett, 298-2589.

SOFA & LOVESEAT, from Heritage House, Chippendale style, blue & creme plaid, no apparent wear, no stains, \$450. Mauldin, 293-3763.

WATER SOFTENER, for whole house, old, works, take it away, \$15. Horton, 883-7504, call after Saturday.

KITCHEN TABLE, w/6 chairs, \$90. Corona, 344-1837.

Deadline: Friday noon before week of publication unless changed by holiday. Mail to Dept. 12622, MS 0413, or fax to 844-0645.

ATTENTION: Department 12622 is now on cc:Mail. You may send classified ads to Nancy Campanozzi. Any questions, call Nancy on 844-7522.

Ad Rules

1. Limit 20 words, including last name and home phone (the Lab News will edit longer ads).
2. Include organization and full name with each ad submission.
3. Submit each ad in writing. No phone-ins.
4. Use 8 1/2" by 11-inch paper.
5. Use separate sheet for each ad category.
6. Type or print ads legibly; use only accepted abbreviations.
7. One ad per category per issue.
8. No more than two insertions of same "for sale" or "wanted" item.
9. No "for rent" ads except for employees on temporary assignment.
10. No commercial ads.
11. For active and retired Sandians and DOE employees.
12. Housing listed for sale is available for occupancy without regard to race, creed, color, or national origin.
13. "Work wanted" ads limited to student-aged children of employees.

NATURAL PEARL NECKLACE, GIA-certified, appraised at \$14,500, sell for \$5,000; Victorian chair; Jemez storyteller, Corn Maiden. Frames, 344-6451.

QUEEN-SIZE SOFA BED, brown Naugahyde, \$175, matching recliner chair, \$75, ottoman, \$25; all \$225 OBO. Montoya, 881-6898.

GARAGE SALE, April 1, 8 a.m.-1 p.m., 11701 Molly Brown NE, baby items, exercise equipment, toys, PC, printer, miscellaneous. Krause, 299-0931.

CONCRETE BLOCKS, 193, standard 8", \$100; medium-sized dark-lava landscaping rock, free. Vaughan, 291-9857.

LAWNMOWER, 21-in. cut, w/mulching option, Briggs & Stratton engine, 1 yr. old, \$160. Detry, 293-9056.

EASEL, excellent shape, wood construction, w/foldable legs, call w/offer. Schulz, 294-5195.

LAB/CROSS, black, 9 mos., spayed, playful, good w/children, \$40. Marco, 275-0276, call after 6 p.m.

FORD RECEIVER HITCH, "Reese" Class III/IV, for full-size truck, \$50; German Shepherd, 2 females, 6 & 8 yrs. old, spayed, free, AKC. Gonzales, 898-8728.

STEREO RECEIVER, 72 watts, turntable, Stromberg Carlson speaker cabinets, \$135; queen brass bed, \$150; antique bureau, 4-drawer, \$95. Lambert, 344-9012.

CAMPER SHELL, LWB, free; Oxyacetylene welding setup, w/cart, \$375; flagstone, 2-full pickup loads, \$200. Zirzow, 281-9896.

COLOR TV, 24-in. Sears console, works great, \$100. Lundgren, 281-1564.

CHILD BACK CARRIER, L. L. Bean, excellent condition, \$25; Nintendo, 2 games, 2 controllers, gun, \$25. Sniogowski, 294-7329.

SOUTHWEST BEDROOM SET, white-wash finish, queen headboard, dresser w/mirror, armoire, two night stands, excellent condition, \$1,500 OBO. Castillo, 898-7405.

CERAMIC MOLDS, for small Southwest pots, six, approx. 4" x 5" x 10", \$20. Hesch, 298-4902.

DISHWASHER, GE, good condition, \$90; electric range, double oven, many extras, good condition, \$495. Deller, 298-5705.

AMERICAN RACING RIMS, 14-in., \$400 OBO. Abeyta, 864-3670.

TRANSPORTATION

'89 CHEV. BARETTA GT, loaded, white, 2-dr., AT, excellent condition, \$6,500 OBO. Chavez, 271-1520.

'84 CADILLAC ELDORADO, diesel, 20-mpg, 190K miles, 90K on GM remanufactured engine, excellent condition, doesn't need anything, \$2,400. Winowich, 255-2611.

'91 MAZDA 626 DX, 4-dr., 5-sp., AC, PS, AM/FM cassette, cruise, 48K miles, 1 owner, new tires, \$8,399 OBO. Clauss, 822-8101.

'87 SUBARU GL WAGON, 4-WD, excellent condition, Michelin tires. Summers, 881-7765, ask for Gary.

'87 GMC JIMMY S15, 4-WD, fully loaded, very clean, excellent condition, 55K miles, AM/FM cassette, \$8,000 OBO. Johnson, 294-4779.

'89 TOYOTA COROLLA DX, 4-dr., PS, AC, tilt, 39-mpg, 76K miles, very good condition, maintenance records, \$5,600. Milkawa, 281-7245.

'85 MAZDA RX-7 GSL-SE, 1 owner, well cared for, maintenance records available, 85K miles, great car, \$5,000. Armstrong, 286-1128.

'83 TOYOTA TERCEL SR5, white, 85K original miles, outstanding condition, 5-sp., AC, new tires, \$1,750. Wallace, 256-1643.

'87 TOYOTA CAMRY, 4-dr., AC, 5-sp., gray, new tires, AM/FM cassette, 97K miles, reliable, \$5,500 or trade for van/sport utility. Dubicka, 296-6557.

'94 CHEV. FLEETSIDE 271, 4x4, 14K miles, tinted windows, 6-disc CD changer, AM/FM cassette, Silverado loaded, AC, ALB, PS, CC, \$21,000. Ortiz, 899-8983.

'91 FORD F250 XLT LARIAT, 3/4-ton, 10K miles, fully loaded, 1-ton pkg., towing/brake system, grill, bed liner, running boards, \$15,500. Harrison, 246-0530.

'83 CHEV., 3/4-ton w/utility bed, work truck, runs well, rough body, AC, PS, PB, \$1,500 OBO. Underhill, 294-1775.

'89 ACURA INTEGRA, excellent condition, 5-sp., AC, PS, great interior, CC, AM/FM cassette, champagne gold, new clutch, \$7,200. Eberle, 293-4472.

'88 HONDA SHADOW, 1100CC, 17K miles, excellent condition, new battery, new front tire, Plexistar fairing, \$3,200. Gutierrez, 856-7462.

'93 CHEV. SILVERADO, 1 owner, blue, V6, PW, PL, cruise, tinted windows, bed liner, 21,560 miles, excellent condition. Torres, 275-3184.

'87 FORD F150 PICKUP, 15,571 miles, but turned over at least once, 8-cyl. standard, bids taken through April 5, needs repairs to be serviceable, reserve right to refuse all bids, subject to prior sale, sold as is. SLFCU, 293-0400, Ex. 344.

'88 NISSAN PATHFINDER, 6-cyl., approx. 75,913 miles, 5-sp., 4x4, bids taken through April 5, reserve right to refuse all bids, subject to prior sale, sold as is. SLFCU, 293-0400, Ext. 344.

'87 NISSAN MAXIMA, white, 4-dr., V6, 5-sp., all power, AC, sunroof, ground effects (\$1,500), 62K miles, asking \$6,900 OBO. Maokhamphiou, 296-5095.

'92 GEO METRO LSI, 5-sp., AC, stereo radio, 33K miles, excellent condition, \$5,000. Greer, 281-4514.

'84 NISSAN 300 ZX, 5-sp., all power, excellent condition, \$3,800 OBO. Clark, 884-8266.

'67 VW BUS DELUXE, excellent condition, new interior, new parts, 35K miles on rebuilt 1,641cc dual-port engine, 25-mpg, driven daily, garaged, \$2,500. Sturgeon, 281-9035.

'94 CHEV. SUBURBAN, loaded, power everything, kept garaged, beautiful condition, \$24,000. King, 899-1770.

'91 CAMARO Z-28, 9K miles, all options, showroom condition, sell at wholesale price. Cross, 897-1580.

'73 VW BUG, 1 owner, low mileage, 4-sp., runs great, has rust, \$1,500. Roeschke, 266-8988.

'85 JEEP CHEROKEE, AC, 4x4, new paint, new tires & rims, V8, must sell, \$5,500 OBO. Roybal, 255-2909.

'84 CHEV., 4-dr., AT, AC, PS, one owner, full spare, service manual, \$1,200. Barnaby, 255-5624.

'71 MERCEDES BENZ 280SE, 4-dr., decent shape, looks good, needs some TLC, \$2,100 OBO. Spiak, 884-6036.

'84 BOAT, Bayliner Capri Bowrider, 19-ft., OMC, 225-hp, tandem trailer,

low usage, lots of extras, \$6,000. Schowers, 822-8494.

CESAR CHAVEZ CELEBRATION, March 31, 6-10 p.m., Cornstalk Institute, live entertainment, tickets \$5 to benefit the Tarahumara. Garcia, 244-0757.

MOUNTAIN BIKE, 18-in. Huffy, good condition, recent complete overhaul, \$60. Stewart, 281-7906.

'88 DOLPHIN CLASS A MOTORHOME, 32-ft., Chev. 454, loaded, 30K miles, excellent condition, \$32,000, below NADA. Cummings, 884-3602.

AVID MOUNTAIN BICYCLISTS, spectacular scenery, breathe pure oxygen, Tibet to Nepal, via Mt. Everest, Fall 1998, interested? Yip, 294-8124.

SAILBOAT, Balboa 22, fixed shoal-draft keel, roller furling, EZ Loader trailer, 8-hp outboard, many extras, sleeps 4. Rodacy, 293-2668.

BALBOA-16 SAILBOAT, fixed keel, cabin, spacious cockpit, British Seagull outboard, E-Z Loader trailer, many extras, fully equipped, \$4,500. Nicovich, 299-1430.

REAL ESTATE

4-BDR. CUSTOM HOME, Cedar Crest, views, decks, extras. Sleaf, 281-4103.

4-BDR. HOME, great Mossman, 2,200 sq. ft., near Arroyo del Oso golf course, \$182,000. Gallegos, 881-5309 or 345-6252, by appointment.

3-BDR. MOUNTAIN HOME, 5 acres, 1,600 sq. ft., formal dining room, baseboard HW heat, horse facilities, 17 miles to Sandia. Grandjean, 858-0659.

3-BDR. HOME, on cul-de-sac, 2 baths (Jacuzzi), 1,500 sq. ft., completely remodeled, 1/2 mile north downtown, must see, \$110,000. Harrison, 246-0530.

NEW CORRALES HOME, Southwest style, vigas, tile, radiant heat, great views, 2,600 sq. ft., paved road, natural gas, CTV. Karler, 298-3265.

VARI-KENNEL, or similar indoor kennel for medium/large dog. Orand, 275-2255.

LEASE/RENT HOME, in Albuquerque, summer months June-August. Montoya, 281-0679.

HOUSE SITTING JOB, for at least one yr., young missionary couple, available July 10. Chinn, 296-5172.

BATHROOM SINK, white, round; brick, new or used, standard and/or paving. Lucero, 296-2473.

TO RENT, unfurnished, 3-bdr., 1-3/4 baths, available May 1 or June 1. Archibeque-Guerra, 256-1356.

MALE GOLDEN RETRIEVER, to breed, must be AKC, prefer light golden w/pedigree, hips check, fee negotiable. Klamers, 294-3398.

ARTISTS for "Cherished Creations" craft show, Fri., April 7, 9 a.m.-6:30 p.m., Sat., April 8, 9 a.m.-3 p.m., Four Hills Country Club. Self, 296-4137.

THREE MOTORCYCLISTS, congenial, iron-butted, bilingual, 3,000-mile July Divertido Odyssey, Old Mexico, informal interview. McKinney, 281-9289.

BUTANE GAS GRILL, preferably w/side burner. Bouchard, 831-4766.

TREADMILL, electric, must have pulse monitor. Walker, 294-2293.

NOSE COVER, for '83 Mazda RX-7; cinder block. Lucero, 296-2473, after 7 p.m.

AIR COMPRESSOR, electric, 3-hp or greater, 20 to 30-gallon tank preferred. Zirzow, 281-9896.

FREQUENT FLIER MILES, from American Airlines, Healing the Children needs them to transport needy children to the US for medical treatment. Blanford, 292-6494.

FOUND: Pair of eyeglasses in Bldg. 802, 3rd floor, Room 3116, supply room. Rael, 844-6448.

LOST: White Avia "hammock" aerobic shoe, w/Sorbothane graphic insert, Coronado Club parking lot, Tues., March 21. Tatro, 281-9285.

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Sandia News Briefs

Sandia rates 'satisfactory' in DOE Safeguards and Security survey

DOE's Albuquerque Office conducted its annual survey of Safeguards and Security Programs at Sandia/New Mexico and Tonopah Test Range Feb. 21-March 3. The survey team, consisting of 41 federal and contractor auditors, assessed 46 findings and numerous observations. Sandia received a "satisfactory" overall evaluation. (The other rating options are "marginally satisfactory" and "unsatisfactory.") Frank Gallegos, Director of Safeguards and Security Center 7400, says, "We were very pleased with the results. The audit involved many Sandians from many centers."

This survey is critical because it is a precursor to an Inspection and Evaluation (I&E) at Sandia/New Mexico of the Safeguards and Security Programs from the Office of Security Evaluations, DOE Headquarters. The I&E will stretch over a four-week period in July and August. It will involve about 50 auditors and local DOE and Kirtland Area Office security staff.

Records Retention and Disposition Schedule classes begin next week

National Records Management Day is April 5, and Sandia's Recorded Information Management Dept. 13213 will observe the day by offering classes, starting Thursday, April 6, on how to use the Records Retention and Disposition Schedule, found in Section II of the Information Management Manual. This records schedule, difficult to use in the past, has been rewritten and expanded. According to Anna Nusbaum, Manager of Dept. 13213, it is "designed to be user friendly and describes the company's records in Sandia vernacular." Records management involves managing recorded information, regardless of media, from creation, maintenance and use, through disposition. Class schedules will be published in upcoming *OAA Newsletters* and *Weekly Bulletins*. For more information, call Linda Cusimano (13213) on 844-4980.

Sandia develops new fiber optic sensor to measure liquid levels

Sandia holds the US patent for the new Fiber Optic Liquid Level Sensor (FOLLS) technology, invented by Jonathan Weiss of Optoelectronics Characterization/Sensor Development Dept. 2231. FOLLS uses glass or plastic fiber optics to detect the hydrostatic pressure of a body of liquid. Because the sensor's optical components do not contact the liquid, the sensor can accurately function in hostile environments such as fuel tanks, underground storage tanks, and chemical storage tanks. Sandia is currently seeking potential partners through licensing and cooperative research and development agreements to help develop applications for the sensor.

Dick Fairbanks appointed to Commission on Institutions of Higher Education

Dick Fairbanks, Manager of Community Partnering Dept. 3610, has been appointed a commissioner for the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. Dick is one of three public members of the commission, which accredits 1,000 higher education institutions throughout a 19-state region that includes New Mexico. Dick officially began his commissioner term on March 15.

Send potential Sandia News Briefs to Lab News, Dept. 12622, MS 0413, fax 844-0645.

Fun & Games

Tennis — The Pre-USTA League Tennis Tournament will be held April 8-9 at the Coronado Club tennis courts. Events will include men's and women's singles and doubles. Gift certificates will be presented to winners and runners-up. SERP and Coronado Club members and military personnel are invited to participate, and participants' guests may play doubles. Entry deadline is April 6. For more information and entry forms, contact the SERP office on 844-8486.

Bowling — The SANDOE Bowling Association January Bowlers-of-the-Month include R. E. Sonny Peppers (9341), who bowled a 702, and Bess Domme (2011), who bowled a 604, in the scratch category. In the handicap category, Bowlers-of-the-Month Steve Winters (9312) bowled a 600/687 and Dee Schumpert (DOE) a 556/652.

February Bowlers-of-the-Month include: Scratch — Reyes Chavez (7433), 585, and Dora Gunckel (6400), 555; handicap — Ray Letourneau (ret.), 577 and 643, and Trinie Chavez (spouse), 545 and 668.

Winners of the Best Ball Tournament, held Jan. 14-15 at the Holiday Bowl: First-place honors went to Tomas (2481-1) and Micki Archuleta, with an 816 handicap series. Second went to Jerry Long (ret.) and Joe Monack (guest), with a 778 handicap series.

The 5-Person Team No-Tap Tournament was held Feb. 4-5 at Fiesta Lanes. First place went to Mike Brandon (7433), Reyes Chavez (7433), Trinie Chavez, Annie Garcia, and Marty Garcia, with a 3,407 handicap series.

Diana Dobias (6622) and Dee Schumpert (DOE) won the No Tap/Scotch Doubles Tour-

namment held at Holiday Bowl March 11-12 with a 1,477 combined handicap series. Second went to Fred Gunckel (ret.) and Micki Archuleta (guest) with a 1,472.

Special congratulations to Ron Husa (ret.) for bowling a sanctioned perfect "300" game and a 753 scratch series at Fiesta Lanes March 4.



YOUNG SCIENTISTS — Daniel Puetz (9616) demonstrates an RBSX robot to high school seniors from around New Mexico who toured the vehicle robotics range and the solar power tower as part of National Engineers Week. Dave Church (right), a science teacher from Rio Grande High School, says he has accompanied students on the tour for the past few years. He says that several of those students have gone on to study engineering in college. "It's a great program," he says. "It gets the students excited about science and engineering."

Coronado Club

March 31 (tonight) — Friday night dinner/dance. Dinner, 6-9 p.m. T-bone steak or fried shrimp, \$11.95; all-you-can-eat buffet, \$7.95. Music by Isleta Poorboys, 7-11 p.m.

April 2 — Sunday brunch buffet, 10 a.m.-2 p.m. \$7.95 adult members, \$8.95 guests, \$2.95 for children 4 to 12, free for children 3 and under. Tea dance, 1-4 p.m., music by Bob Weiler and Los Gatos.

April 7 — Friday night dinner/dance. Dinner, 6-9 p.m. T-bone steak, \$11.95; grilled halibut, \$10.95; all-you-can-eat buffet, \$7.95. Music by the Isleta Poorboys, 7-11 p.m. Reservations requested.

April 15 (Saturday) — Children's annual Easter Egg Hunt and Party, 9 a.m.-noon. The Easter Bunny will be on hand to visit with the kids. Cartoons and movies shown continuously. Bring an Easter basket so your kids can join in the egg hunt. Members only, no guests. Admission free.

April 16 — Traditional Easter brunch. Ham, baron of beef, turkey and trimmings, breakfast items, green chile stew. Adult members \$8.95, guests \$9.95, children 4-12 \$4.95; children 3 and under free. Reservations are required and will be taken for 10 a.m., 12 p.m., and 2 p.m. slots only.

April 23 — Sunday brunch buffet, 10 a.m.-2 p.m. \$7.95 adult members, \$8.95 guests, \$2.95 for children 4 to 12, free for children 3 and under. Tea dance, 1-4 p.m., music by Bob Weiler and Los Gatos.

Help us recognize Sandians

The *Lab News* wants to recognize Sandia employees and retirees who receive honors and awards. Give us a call on 844-7841, or send a note with a few details to Department 12622. In Livermore, contact Barry Schrader (8502) on 294-2447.