

Smart Sandia Sorter Learns Its Way Around the 'Polys'

Ever wonder what those little numbers — 1's, 2's, 3's, 4's, 5's, 6's, and 7's — on the bottoms of milk cartons, liquid detergent bottles, and other plastic containers around your house mean? Most of us know from the accompanying triangle-arrow arrangement that they have something to do with recycling.

But fewer people know that each number stands for a different, chemically distinct type of recyclable polymer. A "1" on the bottom of a plastic soda bottle, for instance, stands for polyethylene terephthalate, and the less common "5" stands for polypropylene. A "7" stands for "Other."

In the recycling industry, recyclers use these numbers to distinguish among seven types of recyclable plastics as truckload after truckload of recyclable material comes rumbling through plants on conveyor belts. Unlike other materials such as aluminum (which arrives pre-sorted), most of the plastics are separated by hand at the plant.

To say the least, hand-sorting is costly and awkward and makes full-scale plastics recycling financially unattractive to many recyclers, particularly in states like New Mexico where the volume of recycled plastics is relatively low. In the US today, only about 10 percent of waste plastics are recycled (versus about 30 percent of aluminum). The rest is discarded.

But that could change if a Sandia innovation is adopted by recyclers.

Light Provides the Clues

A group of Sandia researchers — Suzanne Stanton (2338), Greg Hebner (1128), and Kathy Alam (1823) — has developed an automatic sorting technology that can identify plastics right on the conveyor belt. The approach combines spectroscopy techniques with a computer neural network trained to recognize distinct spectral patterns given off when light is reflected off plastic surfaces. (The basis for the idea — using spectroscopy to identify polymer groups —

(Continued on Page Four)



HOLDING a plastic foam food container up to a near-infrared light source, Suzanne Stanton (2338) demonstrates an automatic sorting technology developed at Sandia that can identify various types of plastics right on a recycling plant conveyor belt. The approach combines spectroscopic techniques with a computer neural network "trained" to recognize distinct spectral patterns given off when light is reflected off plastic surfaces. And it works at a speed of about 13 containers per second.



LAB NEWS

VOL. 45, NO. 14

SANDIA NATIONAL LABORATORIES

JULY 9, 1993

Incident Commanders

New Group Specializes in Emergencies

Mysterious packages, plane crashes, chemical spills, fires, unusual odors . . . these are only a few things Sandia's six new incident commanders are available to respond to, 24 hours a day, seven days a week.

Part of Sandia's recently upgraded Emergency Response System, incident commanders serve as the single authority in command at any incident at Sandia. At least one is on duty at all times. According to Incident Commander Harold Garcia (7029), an incident commander is a field director in times of emergency, assessing the problem and directing the actions of emergency response teams.

Calls to Sandia's Emergency Operations Cen-

ter (Bldg. 801) are responded to immediately by incident commanders. Before heading to the scene of an emergency, incident commanders usually don a bright red jacket and matching cap that easily identify them in the field.

"Sandians who haven't heard of incident commanders wonder who the people in red are," says Harold. "Some might think we're from McDonalds."

Not for long, though. After a few minutes in action at the site of an accident, the role of the incident commander becomes clear. Working from a white Chevy Blazer equipped with a cellular phone, radio, emergency lights, maps, emergency

(Continued on Page Four)



HOT SPOTS — Incident Commander Art Salazar (7029) coordinates the response to a small brush fire at the base of the Manzano Mountains. This is only one of the many occurrences the new incident commanders have responded to since they began work in April.

Is Your Retirement Plan Safe?

Right to Pension Is 'Nonforfeitable'

Editor's Note: During recent weeks, employee concerns about the security of Sandia retirement plans were the subject of several newspaper stories in the Albuquerque and Livermore areas. According to Human Resources Center 7500 Director Ralph Bonner, some employees have expressed unwarranted fear that retirement funds might be arbitrarily taken away.

To clarify the status of Sandians' retirement benefits, the LAB NEWS asked Ralph several questions and received the following answers. References to "plans" (plural) indicate the Retirement Income Plan, generally for salaried employees, and the Pension Security Plan, for employees who are union-represented or are in equivalent job classifications.

Q: What protection do employees and retirees have against some future management and operating (M&O) contractor deciding to terminate the retirement plans?

A: Any decision to terminate the Sandia retirement plans would require the approval of Sandia's Board of Directors, and further endorsement by DOE, the Internal Revenue Service (IRS), and the Pension Benefit Guaranty Corporation (PBGC). As participants in a qualified employee benefit plan covered by the Employee Retirement Income Security Act of 1974 (ERISA), pension plan participants are guaranteed certain rights, and any termination of the plans would have to follow strict guidelines established by the IRS and PBGC. The pension plans are an important part of an employee's benefit package, and Sandia management intends to continue the plans indefinitely.

Q: Is there a legal possibility that vested employees could lose the retirement benefits described in current plan descriptions, or that retirees could lose the pension they're already getting?

A: No. Once vested, a plan participant's right to a pension benefit becomes nonforfeitable. Plan participants include active employees, terminated employees with a deferred right to a future pension, and retirees. Though the incremental benefit that an employee expects to earn in the future can

(Continued on Page Four)

This & That

Anticipation Drivin' You Mad? - I think we're all ready to learn who our new management and operating contractor will be. There's some chance that we'll know by the time you read this, but probably not. As we were finishing the issue early this week, rumors were around that DOE might announce our new contractor late this week, but that the announcement would more likely be made in mid-to-late July. We'll start providing new contract specifics as soon as possible after the announcement, but it may take DOE and our new contractor a while to work out the finer details.

* * *

Acronyms Even I Can Love - It's been several years since someone coined "YUPPIES" to denote young, upwardly mobile professionals. Someone else recently came up with DINK - for double-income, no kids. And last month, I saw the following, originally printed in a Wisconsin Public Service publication, reprinted in the June issue of *Editor's Workshop*. We're "re-reprinting" them here (with permission).

SITCOM: Single income, two kids, outrageous mortgage.

RUMPIES: Rural, upwardly mobile professionals.

YIPPIES: Young, indicted professionals.

GREEPIES: Greedy, rich executives with excessive perks.

LOMBARD: lots of money, but a real dirtball.

SLUMPIES: Slowly losing upward mobility professionals.

WOOFIES: Well-off, over fifty.

* * *

Younger Friends Needed - Speaking of fiftyish folks, I think I need to find some younger friends. When I get together with my current friends (yes, I do have a few) these days, the conversation too often turns to subjects like comfortable shoes and recent surgical procedures.

* * *

Group Activities OK - Many Sandians volunteer their talents and free time on an individual basis to community and school groups, but I was surprised to learn several weeks ago that some Sandians have the misperception that they should not get involved in such activities as Sandia groups. That is FALSE. It is fine for Sandians to participate in community activities and identify themselves as a Sandia group. (For example, Labs writers and communicators joined early this year to take pledge calls during one of KNME-TV's fund-raisers, and we were identified as a Sandia group.) What Sandia groups should not do is to get involved in partisan activities and represent their opinions or agenda as Sandia's.

For more info, call Al Stotts (7161) on 844-2282 or Barry Schrader (8522) on 294-2447.

* * *

More Sandia Stats - More from the "Annual Statistical Charts" (compiled by Accounting Services Dept. 151) that cover FY83 through FY92. The average years of service of Sandia employees remained fairly constant during this period, ranging from a high of 13.8 years in FY83 to a low of 12.6 in FY85. At the end of last fiscal year (FY92), Sandians had an average 13 years of service at the Labs. About 8.5 percent of employees (734) had more than 30 years of service, and about 2.3 percent (145) had less than one year at Sandia.

* * *

Ah! Monday - A Sandian who plans to retire soon told me he decided long ago to retire on a Monday so he'll finally have a reason to look forward to returning to work after the weekend. ●LP

For Your Benefit

Four Albuquerque Hospitals Give Sandia Discounts

Sandia employees, retirees, and eligible dependents covered by the Sandia Medical Care Plan (MCP) can now receive discounts on many services provided by four major health care providers (hospitals) in Albuquerque. The discounts are available when the MCP is the patient's primary coverage for the services provided. Discounts will be computed automatically by Mutual of Omaha - Sandia's MCP claims processor - when claims are submitted for payment.

The four hospitals offering discounts are St. Joseph, Presbyterian, Lovelace, and University Hospital and the University Physician Associates. Jann Levin of Health Planning and Administration Dept. 7543 says the discounts became effective July 1.

How It Works

When a patient receives services eligible for discount from one of the providers, Mutual of Omaha and the patient will receive an itemized statement. Mutual will process the claim and take the appropriate discount on all "usual and customary" medically necessary charges. After the hospital receives payment from Mutual, the hospital will send the patient a statement and Mutual will send the explanation of benefits form reflecting the discount and Mutual's payment. The patient is then responsible for paying the balance.

Patients obtaining services from one of these four "discount providers" should assign benefits to the provider. Most providers will file the claim directly with Mutual. Because Mutual determines the appropriate discount, the amount that the patient owes will not be known until Mutual processes the claim. Therefore, patients should normally wait to pay their part until they receive the "balance due" statement.

Providers and Services Covered

Here is a list of the services that the four hospitals will discount to Medical Care Plan participants when the MCP is the patient's primary coverage for these services:

University Hospital and University Physician Associates (UPA) - The University of New Mexico Hospital and the UPA physicians there will discount all services except for services provided by the following outpatient facilities: UNM Cancer Center, UNM Mental Health Center, UNM Children's Psychiatric Hospital, and UNM Center for Non-Invasive Diagnosis.

Presbyterian Healthcare Services - Will discount inpatient and outpatient services at Presbyterian Hospital, Presbyterian Kaseman Hospital, Presbyterian Northside Hospital, Presbyterian Day Surgery, six Presbyterian Family Healthcare Centers (including physician charges), and Presbyterian Urgent Care. Effective Aug. 1, Presbyterian Healthcare Services will provide through the Presbyterian Network a list of physicians who will accept the "usual and customary" charges (determined by Mutual) as the allowable charge. The list will be available July 15 by calling 841-1777.

St. Joseph Healthcare System - Will discount all inpatient and outpatient services provided at St. Joseph Hospital, St. Joseph Northeast Heights Hospital, St. Joseph West Mesa Hospital and West Mesa Skilled Nursing Facility, St. Joseph Rehabilitation Hospital and Outpatient Center, and St. Joseph Eye Center.

Lovelace - Will discount all services provided at all of its facilities. In Albuquerque and Rio Rancho, this includes more than 300 physicians, nine Family Practice/Urgent Care facilities, 22 medical specialty clinics at Lovelace at Journal Center, hospital and more than 40 specialty clinics at Lovelace Medical Center, three rehabilitation service facilities, and hospital and outpatient mental health services at ParkCenter. Sandia MCP patients must identify themselves as such in order for Lovelace to file their claims. (Note: the discounts at Lovelace apply only to folks on the Medical Care Plan. Fee schedules and co-payments for Sandia's Lovelace Health Maintenance Organization participants are not affected.)

Medical Care Plan participants who have questions about the discounts can call Jann Levin on 845-8524. Questions related to specific claims can be referred to Mutual of Omaha on 1-800-753-6078. ●

LAB NEWS

Published Fortnightly on Fridays by
Employee Communications Department 7162

SANDIA NATIONAL LABORATORIES

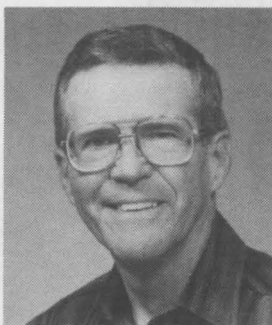
An Equal Opportunity Employer

ALBUQUERQUE, NEW MEXICO 87185-5800
LIVERMORE, CALIFORNIA 94550
TONOPAH, NEVADA
NEVADA TEST SITE
AMARILLO, TEXAS

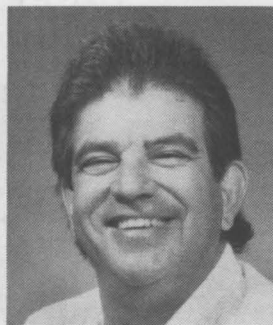
Sandia National Laboratories, a prime contractor to the US Department of Energy, is operated by Sandia Corporation, a subsidiary of American Telephone and Telegraph Co.

LARRY PERRINE, Editor (505/844-1053)
CHARLES SHIRLEY, Managing Editor (844-6210)
JOHN GERMAN, Writer (844-5199)
HOWARD KERCHEVAL, Writer (844-7842)
RANDY MONTOYA, Head Photographer (844-5605)
MARK POULSEN, Photographer and
Production Coordinator (844-0421)
JANET CARPENTER, Editorial Assistant (844-7841)
LISA CHAVEZ, Assistant (844-7522)
DAWN THATCHER, Assistant (844-7522)
LAB NEWS FAX (505/844-0645)
BARRY SCHRADER, California Reporter
(510/294-2447)

Recent Retirees



Jim Clemons
2712



Phil Apodaca
7043 31

Congratulations

To Rachele and Larry (7906) Luna, a daughter, Leigh Christine, April 20.

To Cynthia (7202) and Kerry Turner, a daughter, Meagen Shea, April 26.

To Marsha and Jeff (7615) Adams, a daughter, Olivia Paige, June 2.

To Robin and Peter (2337) Biskis, a son, Bryce David, June 18.



Reducing BART Car Noise**Sandia Gets up to Speed with Rapid-Transit Technology**

There's a complaint often heard — or *almost* heard — from Bay Area Rapid Transit (BART) commuters: Normal conversation in the older "B" cars at speeds of 80 mph is impossible, and even as slow as 50 mph, it's still hard to talk with a seatmate.

Having worked in similar areas, such as submarine noise reduction, Sandia is helping the small BART R&D group solve noise problems. This research is especially timely as BART plans to start refurbishing all of its passenger cars, some of which are 20 years old, during the next few years.

The BART system, which began operating in 1972, has more than 71 miles of track and is adding 35 miles more. BART connects San Francisco with two East Bay counties through an underwater tunnel known as the "tube." The original system cost \$1.6 billion, and extensions have added \$800 million to that cost.

Bill Wilson (5304), Manager of the Transportation Programs Office, says noise reduction

California is usually the first region of the US to run into population predicaments such as traffic congestion.

and several other BART-Sandia projects are good examples of using the California site to identify transportation problems, then drawing on Sandia-wide technical talents for solutions.

Since California usually runs into congestion, air quality, transportation, and other population predicaments before the rest of the country, Sandia/California began a transportation initiative last fall to work with BART, the California Energy Commission, the Air Resources Board, and the California Department of Transportation (CALTRANS) to understand their projects. Transportation research (airlines, rapid transit, and passenger cars) is also a good example of using post-Cold War technology to solve the nation's more mundane, yet no less important, commercial dilemmas.

Noise Canceled by More Noise

One BART initiative involves "active noise cancellation" to increase passenger comfort. Active noise cancellation refers to an electronic technique that silences noise, not by conventional methods (like insulating or muffling sound), but by "canceling out" noise with devices that generate identical sound waves 180 degrees out of phase.

Bill Sullivan (9722) at Sandia/New Mexico,



BART SOUND TEST — Setting up equipment to test the acoustics inside a BART car are Anthony Gomez (2741, left front), BART senior engineer Steve Mullerheim (left rear), and Project Leader Bill Sullivan (9722, beside Mullerheim), along with a BART staffer and Dick Roy (8476, seated at front right).

the project leader, has worked on submarine acoustics for the Navy and the Advanced Research Projects Agency. Bill and Scott Gray (2741) collected data in February that suggests a significant component of the noise is below 1,000 Hz, which is a candidate region for active noise cancellation. Other components showed higher-frequency signatures more amenable to passive, insulating-type correction. These preliminary tests specified necessary instrumentation and identified data collection locations for a more thorough survey.

In May, a Sandia team from centers 2700, 9700, 5300, and 8400 instrumented two BART cars, with calibrated microphones and accelerometers throughout the interior, to collect high-fidelity



acoustic data under operating conditions from Fremont through the transbay tube to San Francisco, to determine sources of sound and their noise characteristics. The next step is to analyze the information from these tests and advise BART of the likelihood of active noise cancellation as a way to increase passenger comfort, and to recommend other technical approaches to reduce noise.

Cutting Time between Trains

Another spin-off from the Sandia weapons program is the safety evaluation of BART's design for a faster "Advanced Automatic Train Control."

To accommodate California commuter congestion (especially at rush hour), BART wants to increase the number of trains going through the tube to San Francisco by reducing the "headway" (the time between two sequential trains passing a common point). BART needs a new control system to handle this and has asked Sandia to do a safety evaluation of the design before a contractor builds it. Time now is about four minutes, and BART would like to cut it to about two minutes.

BART officials asked Sandia to do the safety analysis because of Sandia's expertise in the safety of weapon systems. Safety review techniques for ensuring that weapons are safe can use the same modeling techniques to assess the safety of people traveling in trains through an underground tunnel.

Hop off Train, Jump into Electric Car

Two other areas under discussion with BART are a "station car" concept and preventive maintenance monitoring.

To increase riders without putting down more track, BART plans to offer electric vehicles at the ends of existing lines. Similar to renting a car, a passenger could use a BART ticket to hire an electric vehicle at the San Francisco exit, for example, to drive to Marin County and back. PG&E employees are now using electric vans at the Lafayette BART station to extend the area coverage in Contra Costa County to the PG&E site in San Ramon. Sandia would help BART select the right kind of electric vehicles by criteria such as cost, size, and length of usage.

Preventive maintenance is another area where Sandia might be able to help. When something goes wrong with a train now, BART maintenance staff are called in to evaluate the problem. This

Techniques for ensuring the safety of weapons can also assess the safety of people riding BART trains.

often involves shutting down the train for an extended time. Jim Hogan (5371) has developed prototype hardware for an Emergency Notification System (ENS) for alerting vehicle operators of accident conditions. The architecture appears to be adaptable to BART preventive maintenance monitoring.

Sensors and instrumentation would be mounted on BART trains to monitor maintenance needs. A "smart box" control system would relay to the operator or station whether the sensor variation detected is a normal service problem or whether the train should be pulled out of service immediately. The plan is to identify two or three high-frequency maintenance issues and use these in a prototype evaluation on the BART test track. ●

CHALLENGE RACE WINNERS — Perennial winner Jim Reitz (8453) ran away with the first place among men again this year in the 1993 edition of the Sandia/California Challenge Race last month. He is seen second from left, next to Melody Barney (ASI), who captured first in the women's division. With them are race co-chairs Barry Bolden (5361, left) and Dan Dawson (8746). The other top place finishers in the



men's division were John Krafcik (8712), second place, and Rich Larson (8745), third. In the women's class, second went to Shelia Daigle-Beard (8641) and third to Monica Gabbard (8522). In the adjusted times, which includes an age factor, second place for men went to Joe Treml (8453) and third to Dan Folk (8712). For women it was Joanne Lombardi (8271) in second and Shelia in third place. The center winning the "Most Participation" award this year was 8500.

(Continued from Page One)

Smart Sorter

came out of earlier work at the University of Washington.)

In a recycling plant, the system would work like this: A recycled plastic container moves along a conveyor belt as a near-infrared light source illuminates an area of its surface. As the light reflects off the plastic, the plastic's chemical composition selectively absorbs the light in a unique way. Any reflected light carries with it a distinct message about the plastic's composition.

To decipher this message, the researchers use a spectrometer that reads the reflected light's spectral patterns. That information is then fed into the neural network, which is previously "trained" to recognize the possible range of spectral patterns reflected by each type of polymer, Suzanne says.

Neural networks are commonly used methods for pattern recognition that mimic the learning methods of nerve cells. By repetitively holding various polymers up to a spectrometer and then feeding the network the correct, corresponding polymer type for each spectral pattern, the system can teach itself to respond with the correct polymer type.

In laboratory tests, says Greg, the system is 98 percent accurate (100 percent accuracies have been achieved for most plastics types), even for dirty or damaged containers. It's quick too — it can classify containers at the rate of 13 per second.

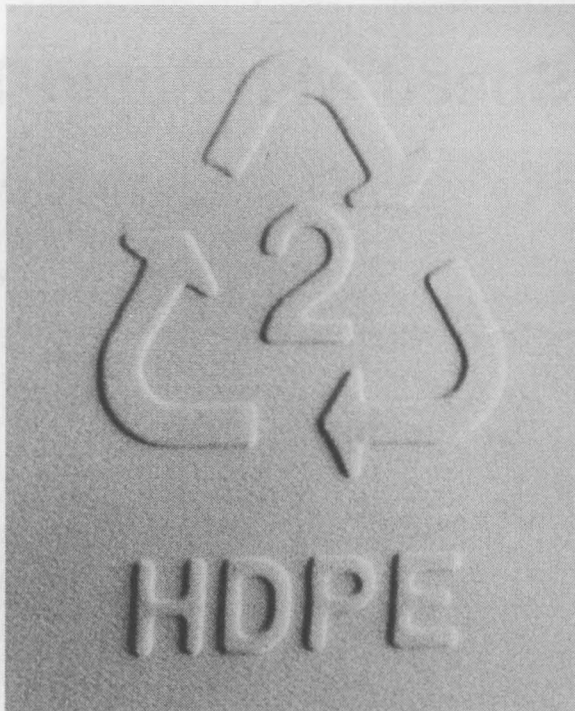
"The beauty of the system is that it classifies any type of plastic or polymer, whereas existing sorting technologies — typically single sensors — may only classify 1s and 2s," he says.

The prototype sorting system built by Sandia cost about \$12,000 in hardware, says Greg, but future versions developed for industry could be made for much less. The system was developed with Laboratory Funded Research and Development (LDRD) funding. Sandia has applied for a patent.

Possible Uses in Medicine

Like many innovations, the sorting concept seems simple, but as Suzanne puts it, the challenge is developing a reliable, robust system that is friendly enough to be used and maintained by a plant worker. "The recycler doesn't want to have to call somebody every time the machine needs to be adjusted," she says.

Already the prototype system has been dis-



FAMILIAR SYMBOL — Little numbers on the bottoms of recyclable plastic containers — soda bottles, detergent bottles, cups, etc. — identify the type of polymer. The "2" on the bottom of this container designates "high density polyethylene," or HDPE, the material most commonly used in plastic milk cartons.

assembled and moved to a commercial recycling plant, where it will be tested this summer. The real-life scenario should provide Suzanne, Greg, and Kathy a better idea of what improvements are necessary before the technology is ready for commercial use.

Several weeks ago, Channel 13 in Albuquerque featured the technique on its evening and nightly news broadcasts, and the system has also been featured in *Environmental Protection Magazine*, *New Technology Week*, and several other magazines.

Suzanne says the technique might have other applications, particularly in laboratory medicine where blood and tissue samples might be examined. The technology might also apply to process control situations in manufacturing where materials might need to be classified automatically. So far, however, no work has been done to determine the feasibility of such applications.

"History shows that people don't want to sort their trash," says Greg. "By reducing the costs of in-plant plastics sorting, maybe this system will ultimately make plastics recycling more attractive to US recyclers and boost the volume of plastics that is recycled." ●JG

(Continued from Page One)

Pension Questions

be changed by some future amendment to the plans' formula, the benefits earned up to the time of a change in the formula is adopted are protected and cannot be reduced.

Q: Is there any reason to believe that either prospective Sandia M&O contractor has plans to drop the retirement plan?

A: No. Neither of the two final bidders [Battelle and Martin Marietta] has suggested in any way that it plans to terminate or immediately alter Sandia's pension plans.

Q: Do both offer retirement plans at their other sites?

A: Both of the finalists offer defined benefit plans at their other DOE facilities.

Q: Why did local media recently say that DOE "could repossess up to half" of the retirement fund?

A: The statement was based on information that Sandia filed with the IRS which showed that as of Dec. 31, 1990, the Sandia Pension Trust contained nearly twice the assets required to guarantee all existing pension obligations on a termination

basis. This data valued assets and liabilities as of that particular date and did not account for benefit improvements or additional pension service earned by employees in the future.

Q: When will employees get details about the new contractor's retirement plan(s)? In what form?

A: We expect that details about the new contractor and its benefit programs will be published in the LAB NEWS soon after the winning bidder is announced by DOE.

Q: Can funds contributed by employees to the pension plans before employee contributions ended in July 1975 revert to DOE?

A: No. (Employee contributions plus interest currently represent approximately \$45 million, or about 3 percent of the total Pension Trust's assets.)

Q: Do all these answers apply to both of Sandia's retirement plans?

A: Yes. ●

Welcome

New Mexico: Richard Thomas (7053).
Elsewhere: California — Linda Bay Chu (611); *Tennessee* — James Forsythe (323); *Texas* — Claire Lundberg (157).

(Continued from Page One)

Emergencies

sector plans, and emergency notification lists, incident commanders call for whatever is needed to remedy a situation, from a medical team to an ES&H group. Once initial problems are resolved, incident commanders are involved in root cause analysis and final clean-up efforts.

"It's up to the commanders to see that the affected area is restored to normal, environmentally safe conditions," says Incident Commander Carol Bonney (7029). "We then initiate the reporting system and make sure facts about each incident are passed on to the proper reporting agencies locally and in Washington."

Volunteers Gave Valuable Service

The position of incident commander was previously shared by captains in the security organization and volunteer duty officers in other organizations. Captains served as on-scene commanders for incidents involving Sandia and were supported by Sandia managers or directors serving as volunteer duty officers. Duty officers were on call 24 hours a day to authorize or assist emergency actions. In April, the jobs of on-scene commander and volunteer duty officer were combined into the incident commander position under Emergency Management Dept. 7029.

"The informal approach worked, and we are very thankful for the service of the volunteer duty officers," says Jim Martin, Director of Safeguards and Security Center 7400, "but it was time to upgrade our emergency response efforts to a more formal, carefully constructed system."

Before taking their seats in the Sandia's Emergency Operations Center, the incident commanders underwent six weeks of training.

"We all have a security background," says Incident Commander Bill Wolf (7029). "We've now been told to take the security blinders off and become involved in everything else, including medical response, ES&H, and hazardous materials."

When In Doubt — Call

Incident commanders can be contacted by dialing 844-6515 to report non-emergency occurrences, 144 for emergencies, or 117 for fires. While the Incident Command System is set up to respond to emergencies, incident commanders can also respond to occurrences such as unusual odors, water leaks, or power outages.

"Anything that has to do with life and the protection of the environment," says Bill, "is what our system is concerned with."

Employees unsure about a situation should call the non-emergency occurrence number. If necessary, the incident commanders will be alerted to investigate the occurrence.

"Basically, the Incident Command System focuses a group of people on as much knowledge and background as possible," says Incident Commander Art Salazar (7029). "It's one source, 24 hours a day, that Sandians can go to for information or help." ●DT

Who Was — and Is — on Duty

Former Volunteer Duty Officers:

Daniel Jones (1903), Kent Parsons (2301), Gordon Smith (6606), Herb Pitts (7100), Judith Mead (7023), Ronald McIntire (7401), Frank Gallegos (7402), Duane Hughes (7443), Stephen Ross (7443), Michael Nielsen (7010). Retirees: Art Arenholz, Ken Harper, Ward Hunnicutt, Bob Kelly, Louis Roper.

New Incident Commanders (all 7029):

Carol Bonney, Harold Garcia, Stephen Heaphy, Art Salazar, Garland Tilley, Bill Wolf.

Sandia News Briefs

Labs to Exhibit Technology at Senate Office Building

Sandia is joining industry and university exhibitors, along with the Department of Commerce, to showcase big-industry technologies that could be adopted by small American manufacturers. The display will be at the US Senate Hart Office Building in Washington on July 12. The seven participants will demonstrate technological capabilities and business services used by large companies, showing how such tools can be made available to small manufacturers. The exhibit is sponsored by Sandia, the National Center for Manufacturing Sciences (an industry consortium), the Department of Commerce's National Institute of Standards and Technology, the University of South Carolina, EDS (one of the exhibiting companies), and US Senator Jeff Bingaman. Commenting on the exhibit, Bingaman said, "We hope to . . . show how providing modern technologies to all manufacturers can increase US competitiveness in the marketplace."

Sandia Will Co-Sponsor Quality Forum for Small Businesses

Sandia and New Mexico State University will host the second annual Quality Forum for Small Businesses in Las Cruces July 12-13. The forum addresses technology transfer, issues related to product/process improvements, customer and employee relationships, and the New Mexico Quality Award. Sandia President Al Narath will deliver the keynote address, "The Value of a National Laboratory to Small Businesses." Presentations by Charles Tapp of Quality Improvement/Primary Standards Center 4300, John Otts of Technology Transfer Center 4200, and Jon Bedingfield of Supplier Relations Dept. 7203 are also scheduled. For more information, contact Theresa Apodaca (4311) on 271-7924.

Luna Vocational Technical Institute Thanks Labs for Support

The Luna Vocational Technical Institute (LVTI) recently held its annual conference for the Minority Honors Training and Industrial Assistance Program. The program offers students an opportunity to receive hands-on training in a variety of scientific and technical fields. Sandia was presented a plaque of appreciation at the conference in honor of Labs contributions to the DOE-sponsored program.

Each year Sandia sponsors a classroom project for the program in which LVTI students write software to operate Sandia's two mobile robots. Certificates of appreciation were presented to Julian Lovato (35) and Gary Cable (5913) for their individual contributions and long-term program support.

Michael Hannah Receives IEEE Computer Society Service Award

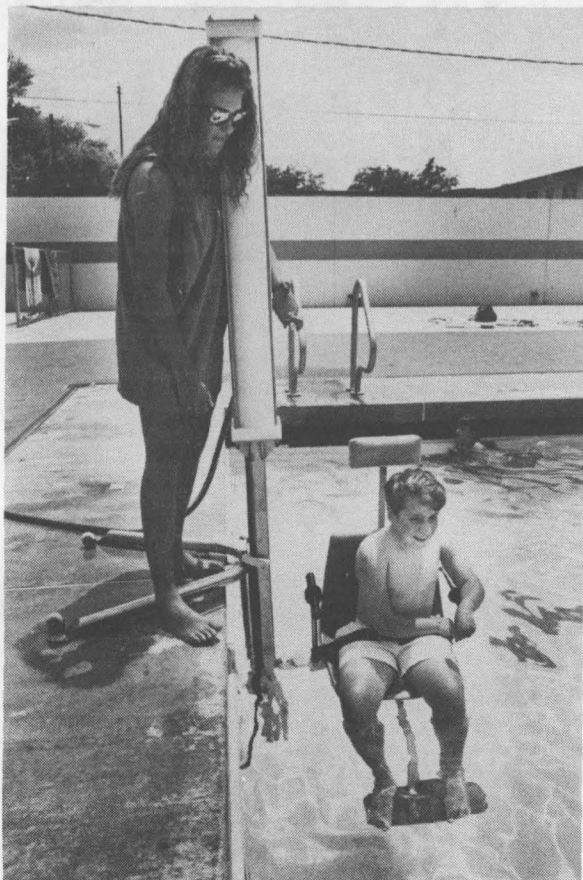
The Institute of Electrical and Electronics Engineers (IEEE) Computer Society recently awarded Michael Hannah of User Support Dept. 1956 a Meritorious Service Certificate. The certificate recognizes his service as Vice Chair of an IEEE work group that developed the international standard for the interface between FORTRAN computer language and UNIX-like operating systems. IEEE is an international society with more than 320,000 members.

Sandia Conducts DOE Workshop for School Administrators

The LAB NEWS reported in the June 25 issue that several Sandians had participated in a DOE-sponsored computational science workshop for New Mexico K-12 school administrators. Sandia actually conducted the June 7-8 workshop, which attracted more than 100 participants. Representatives from Gov. Bruce King's office, the state legislature, and state colleges and universities also participated along with representatives from DOE, the National Science Foundation, and other federal agencies. The purpose was to update administrators on the emerging field of computational science, including high-performance computing and networking, and to identify opportunities for using these technologies in schools. Several US experts presented workshop sessions. Organizers were Dick Allen, Cassandra Shaw, and Lucille Verdugo (all 1400).

Send potential Sandia News Briefs to LAB NEWS, Dept. 7162.

'To the Basement, Please!'



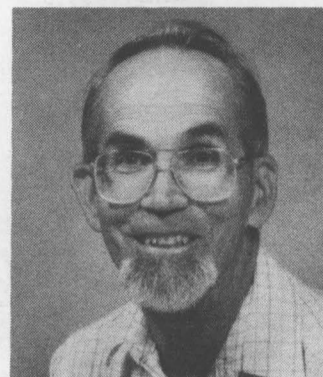
HOT DAY, COOL POOL — Scott Hudson, son of Jack Hudson (5953), gets some help from lifeguard Brandy Greenholt and the Coronado Club's new hydraulic lift to take a slow plunge into the cool waters of the C-Club pool. The lift, powered by an ordinary garden hose, alleviates the strain of lifting handicapped persons in and out of the water and allows them to use the pool more easily. Scott's mom, Susan Hudson, seen with Scott in the photo above, often accompanies him on his swims.

From American Physical Society

Graham Wins Shock Compression Award

Robert Graham of Advanced Materials Physics Dept. 1153 has received the American Physical Society's 1993 Shock Compression Award. The award was presented June 29 at the APS meeting in Colorado Springs.

The biennial award recognizes Bob's technical contributions in shock compression science, his leadership in the community of researchers in that field, and his promotion of shock compression science in condensed matter.



BOB GRAHAM

Bob was one of the people responsible for establishing shock compression science at Sandia. George Samara, Manager of Dept. 1153, says, "His work has deeply influenced the course of research in this field. Many other researchers have adopted the precise experimental techniques he developed. Bob also has a keen sense for the practical implications of his work, and he has made significant contributions to national defense programs."

Work Enabled Family of Stress Gauges

An example of Bob's work is his research — still continuing — on piezoelectrics (materials that produce electricity when mechanically stressed). This research led to highly reliable stress gauges used in laboratory and field studies of shock phenomena in research throughout the world.

Another area of Bob's work is the study of materials' magnetic properties when subjected to shock. His research in this area illuminated several basic phenomena and was also the basis for unique shock-actuated ferromagnetic pulsed-power sources.

A third area he is currently studying involves the chemistry of solids undergoing shock. As a new research area, it is giving important insights into the nature of chemical reactions in a shock environment.

Bob says, "I am pleased and proud to represent Sandia and its efforts in shock science and engineering. The award is truly a recognition of our total effort. I deeply appreciate my colleagues who have contributed so much to my work."

Fred Vook, Director of Physical and Chemical Sciences Center 1100, says, "I am proud that Bob has received this award for his significant and continued contributions to shock compression science. His present work on shock chemistry is opening a new era of science and technology involving the microchemistry of the shocked state."

Bob was a founder and first chairman of the APS Topical Group on Shock Compression of Condensed Matter. "He was the prime mover and worked hard and relentlessly for the establishment of this group," says George.

Besides having nearly 200 publications, Bob initiated the Springer-Verlag book series on shock compression of condensed matter, for which he is editor-in-chief. He is also a managing editor of the international journal *Shock Waves*. ●CS

Sympathy

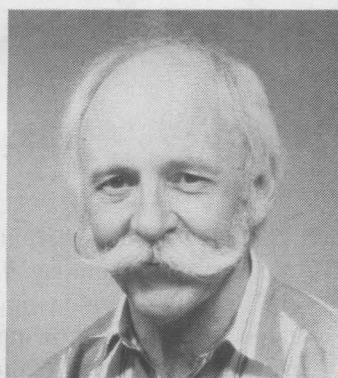
To Oscar Carter (5115) on the death of his son in Albuquerque, June 16.

To Duane Arlowe (9561) on the death of his father in Roseburg, Ore., June 27.

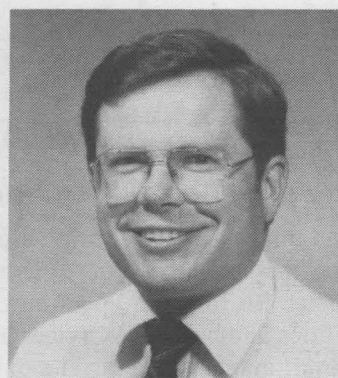
MILEPOSTS

LAB NEWS

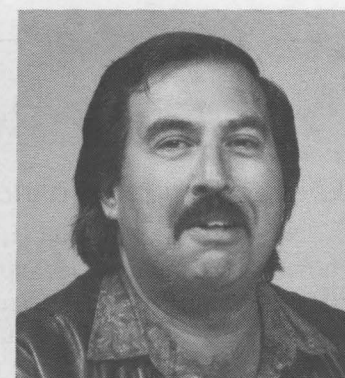
July 1993



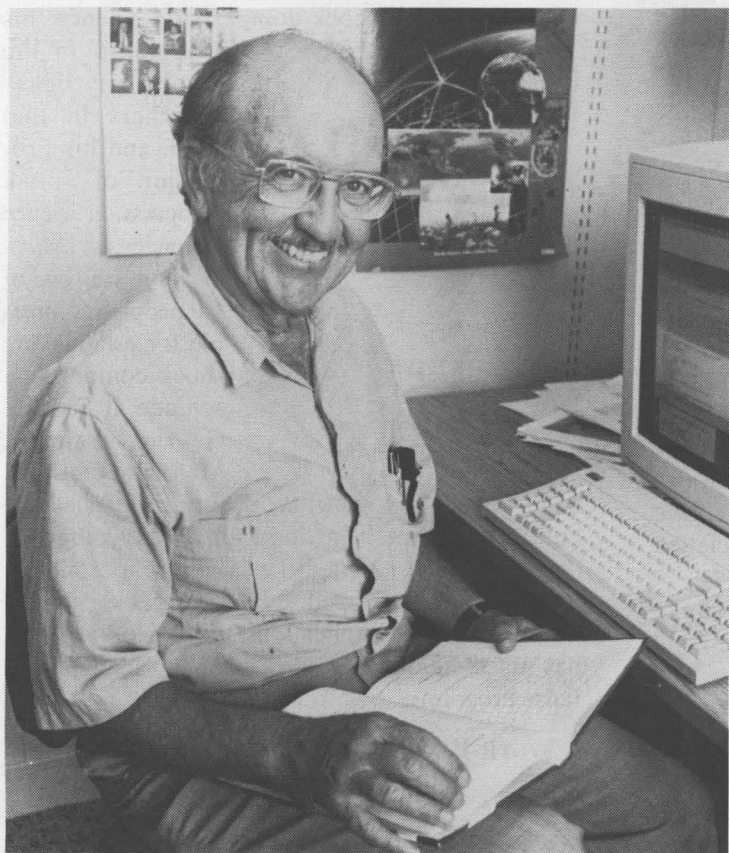
Ron Hill
2756 30



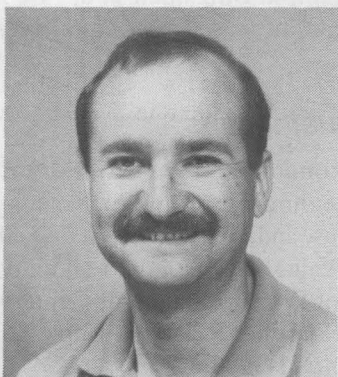
John Williams
9207 15



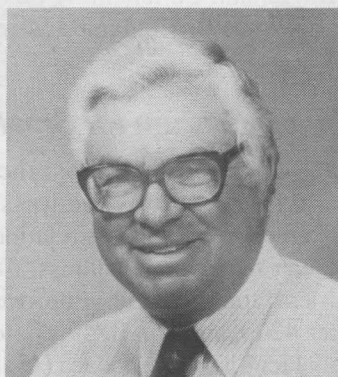
Manny Gonzales
4341 25



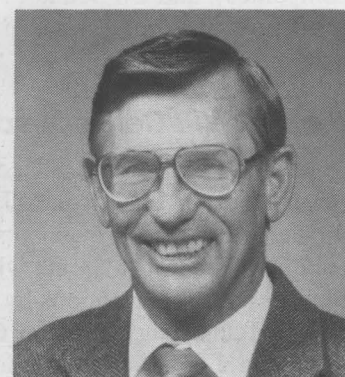
Glenn Elliott
9225 40



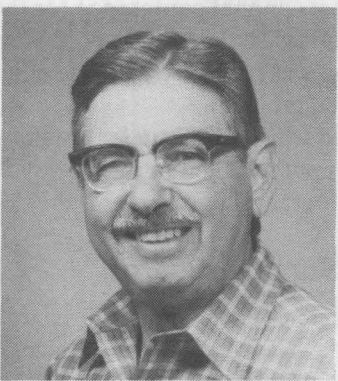
Glen Gabaldon
7612 15



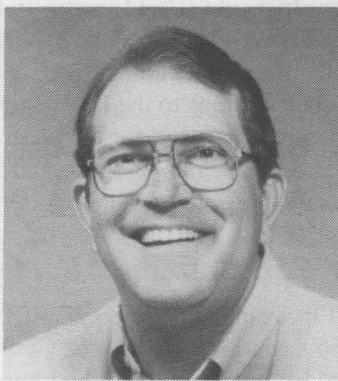
Duane DeWerff
5901 30



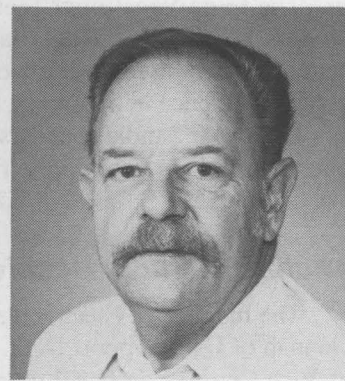
Earl Cummings
7812 15



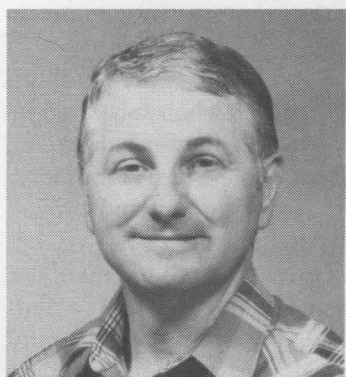
John Smith
2883 35



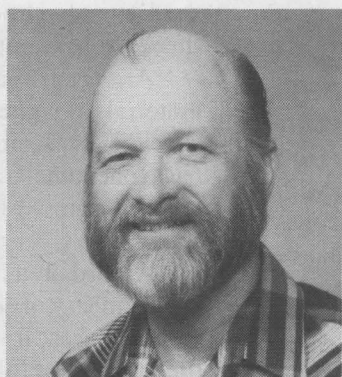
Gary Randall
2645 15



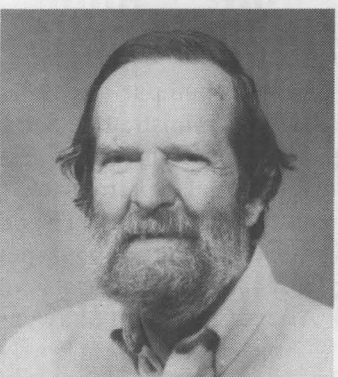
Jim Duggar
8115 35



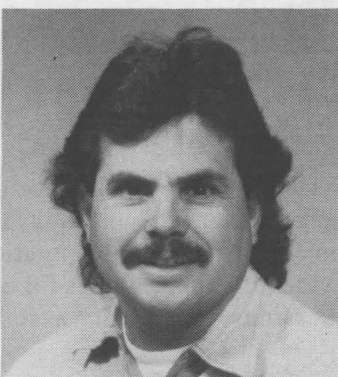
Dale Berg
6214 25



Joseph Sartori
2482 15



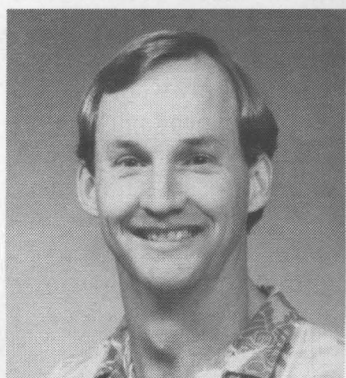
Bill Paulus
9545 35



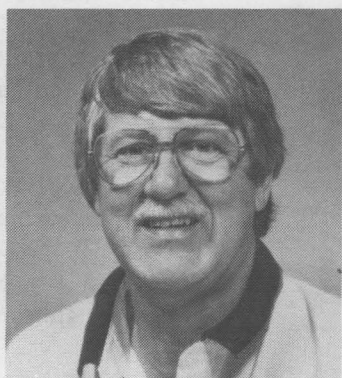
Larry Lesperance
7614 15



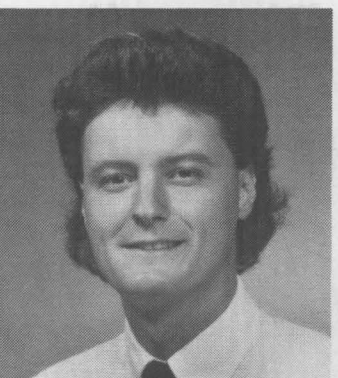
Richard Damerow
2564 30



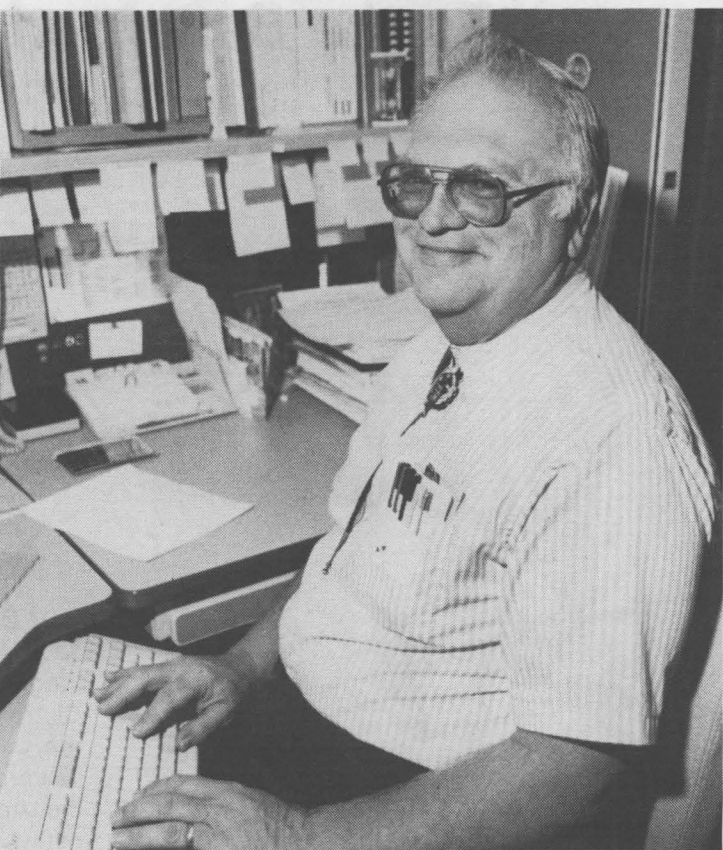
Patrick Knight
9615 15



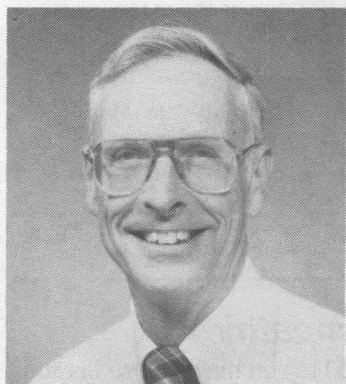
Danny Drummond
7043 25



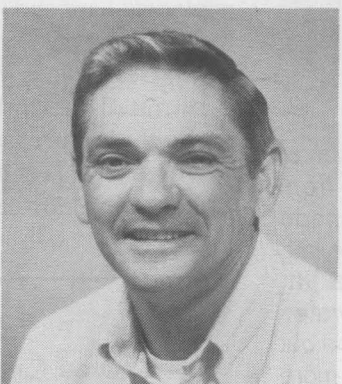
Gregory Neugebauer
2604 15



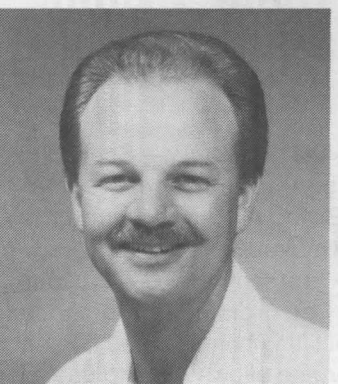
Earnest Roberts
1341 30



Doug Robertson
20 30



Carl Fitzgerald
7811 15



Bruce Reavis
5714 15

Take Note

The National Atomic Museum Foundation was recently organized and incorporated as a New Mexico nonprofit corporation to further the cultural, educational, and scientific programs of the National Atomic Museum, located on Kirtland AFB. The Foundation is soliciting charter memberships from companies and people who want to share in the common goal of seeing the museum thrive and grow. Various types of other memberships, ranging from student through corporate, are also available. The Foundation plans to operate a Museum Store that will feature general scientific and educational items related to energy, while concentrating on those related primarily to atomic energy. If you are interested in becoming a charter

member of the foundation, or to help the museum in other ways, contact Joni Hezlep, Atomic Museum Director, on 845-4633.

Individual Development Dept. 7522 is sponsoring a special program to be presented by the Albuquerque Jaycees titled "Dress for Success" on July 21 at the Coronado Club's main ballroom, 11:30 a.m.-1 p.m. The program includes a demonstration of before and after looks for both men and women. Image consultant Marla Hursig will speak. Everyone is invited to attend. Lunch is available at your cost. The Albuquerque Jaycees is a non-profit leadership training organization for people between the ages of 21 and 40. If you have questions, please contact Irene Montoya (7522) on 4-8605.

Employee Death



JOHN WILLIS

He is survived by his wife Nancy; sons Bill and Chuck; and daughters Barbara Opstedal and Janie Willis.

John Willis of Custom Magnetics, Capacitors, and Intconnections Dept. 2251 died June 22 after a long illness.

He was 62 years old.

John was a distinguished member of the technical staff and had been at Sandia since 1958.

UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS

Deadline: Friday noon before week of publication unless changed by holiday. Mail to Dept. 7162 or fax to 844-0645.

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.

MISCELLANEOUS

- STUNT KITE, 6-ft., dual line control, rip-stop nylon, fiberglass frame, new, \$50. Montoya, 296-4268.
- TEEN BED, Teak, twin-size, w/under-drawer, Sealy mattress, bookcase, nightstand, excellent condition, \$300. Lindell, 299-8452.
- DAYBED, Simmons Beauty Rest, Premiere mattress, sheets, reversible comforter, matching cushions, 3 mos. old, \$250 OBO. Sanchez, 836-2782.
- SKY KENNEL, Daskocil Brand, 27 x 20 x 19, \$25; air conditioner, Sears window unit, 23,000-Btu, \$250. Alvis, 298-3906.
- STEREO, AM/FM, contemporary-style console, radio and phonograph, 16"W x 40"L, x 25"H, extra needle, some records, \$150. Smith, 299-7151.
- INSULATED WINDOW w/screen & security bars, fits rough opening of 6-ft. x 4-ft., \$300, will sell separately. Gurule, 298-5226.
- METAL STORM DOOR, interchangeable glass & screen inserts, 36" x 72", \$65. Wilson, 265-1613.
- SHEPHERD/LAB-CROSS DOG, neutered, 5 yrs. old, loving & playful, free to good home. Pompeo, 256-9794.
- ANTIQUA BUTCHER CASE, oak, unique, circa 1900, 120" x 40" x 26", 6 doors, \$1,100 OBO. Hansen, 823-9515.
- MOTHERBOARD, 386sx-16Mhz, upgrade your 286, includes 4-meg. RAM, and a math co-processor, \$175 OBO. Rivera, 266-7225.
- CAMERA, Canon AE-1 program, w/50mm and 28-210 zoom lenses, Vivitar bounce flash, Cokin filters, auto-winder, and bag, \$200. Edwards, 899-8634 after 5:30 p.m.

- COUCH & LOVESEAT, flower pattern, beige, ideal for rental apt. or own use, \$125 OBO. Chavez, 842-6374 after 6 p.m.
- PICNIC BASKET, for six, by Jerrywil, "Wov-n-wood," 19"L x 12"H x 9"D, silverware, mugs, plates, \$15. Wagner, 823-9323.
- LINEAR AMPLIFIER COVERS, Heathkit SB200, 80-10 meters, works great, \$295. Erni, 865-8226 after 5:30 p.m.
- GIUITAR, Rickenbacker w/Tremolo, \$200; guitar amplifier, 50-watt, Gallen-Kruger, 250ML head, w/Mitchell 2 x 12 cabinet, \$450. Keller, 884-8304.
- REFRIGERATOR, Whirlpool Mark I Series, 20 cu. ft., frost-free, w/ice-maker, light green, works well, no problems, \$190. Chapman, 296-4321.
- PIANO, Howard Spinet, recently tuned, in good condition. Moyer, 881-3879.
- SEWING MACHINE, w/cabinet, \$150; bunk beds, \$120; color TV, sort of works, \$50. Rimkus, 281-2048.
- PORTABLE SWAMP COOLER, \$40. Layne, 857-0989.
- WEIGHT BENCH, w/weights; chest-type freezer, excellent condition; medium-size doghouse; nine-drawer chest; dorm-size refrigerator. Self, 296-4137.
- REFRIGERATOR/FREEZER, "Hot-point," 11.8 cu. ft., white, \$150. Jogi, 275-0610.
- KENMORE WASHER, and electric dryer, \$35/ea. Roberts, 255-9527.
- WATERBED, king-size, six-drawer frame, w/padded rails, mirror headboard, heater and liner included, dark finish, \$175. Knutson, 299-6183.
- MURRAY LAWNMOWER, w/grass catcher, 3.0-hp, 4 yrs. old, excellent condition, \$50. Meeks, 828-9825.
- SERGER, Bernette 335, 5-thread, w/chain stitch, differential feed, excellent condition, \$400 OBO. Dunham, 828-1755.
- COLOR VIDEO BOARD, Macintosh 24-bit, Rasterops colorboard 364, \$300. Altman, 254-0103.
- FULL P.A. SYSTEMS, two; road hugger tires, four; 15-in. tires, three; Hot Point Dishwasher; 12-string guitar; lots of miscellaneous. Rhoden, 293-5301.
- TIRES, two Empco radials, P215/75R15, about half the tread left, \$25. Jones, 255-7924.
- BEDROOM SET, Lane, oriental black lacquer mahogany, excellent condition, \$1,200 OBO; chaise lounge chair, Thomasville, white, \$800. Sobel, 275-8487.
- SIMMONS SOFA BED, queen-size mattress, good condition, \$70. Picraux, 268-7126.
- PICKUP CAMPER, gas/electric, refrigerator, monomatic toilet, new curtains & drainboards, old but clean, \$800 OBO. Niper, 299-6290.
- COMPUTER, clone, IBM compatible, RGB monitor, 360K floppy, Serial Optical mouse, Epson MX80/Graftrax printer, DOS 3.1, \$850 OBO. Schreiner, 266-6020.
- BRASS BED, king-size, w/underbed drawers & ski store, \$300. Ballweg, 293-3487.

- KNITTING MACHINE, Toyota 858, w/ribber, stand, accessories, yarn, \$650. Arnold, 281-5542.
- SOFA SLEEPER & LOVESEAT, \$250; Magic Motion beds, twin-size, automatic controls, \$250/ea.; Sears Kenmore microwave, \$200. Montano, 292-0137.
- '73 OVER-CAB CAMPER, "Idletime," 9-1/2-ft., self-contained, sleeps 5, fits long wide bed pickup, good condition, \$650 OBO. Chavez, 293-4268.
- PIANO, mahogany upright, G.P. Wagner, \$375; couch, black leatherette, 92-in., \$125. Both in excellent condition. Eaton, 821-1617.
- MOVING BOXES, 40, sturdy, extra-heavy from Alaskan move to N.M., \$45. Locher, 266-2021.
- OAK WATERBED, king-size, semi-waveless mattress, 2 yrs. old, great condition, \$300 OBO. Abreu, 821-0455 evenings.
- WETSUIT, woman's large, Henderson, blue/silver, w/dive boots, size 6-1/2, like new, \$55; Marcy sit-up board, \$50. Pregent, 281-1414.
- SOFA SLEEPER, twin-size, beige, \$50; Zane Grey Collector hardcover books, \$75 for complete set. McDonald, 899-8578 after 7 p.m.
- COLOR TV, portable, 19-in., Sears, standard channels, good picture & sound, good condition, \$75. Norwood, 292-0072.
- COUCH & LOVESEAT, redecorating, must sell, see to appreciate, like new, \$450 or make offer. Luikens, 881-1382.
- GE WASHING MACHINE, Kenmore dryer, both in excellent working condition, \$75/ea. or \$140 for both. Dwyer, 271-1328.
- MICROWAVE OVEN, Whirlpool, excellent condition, \$50. Ruby, 821-0982.
- DRESSAGE SADDLE, w/trimmings; western and English clothing; tack items. All in excellent condition. Siegrist, 293-4148.
- DINING ROOM TABLE, leaf, 4 chairs, like new, \$450; big oak table, \$100; carpeting, 1,200 sq. ft., \$50; free furniture. Duncan, 281-8792.
- JVC COMPACT DISC PLAYER, Model XL-V200B; JVC turntable, Model QL-F4. Schmitt, 291-0878.
- SEARS POOL, 25-ft. diameter x 4-ft. deep, pump, filters, vacuum hose, sundeck, etc., excellent condition, \$100. Pappas, 268-7020.
- COMPUTER, 386SX, co-processor, 4MB RAM, 130MB HD, 2 floppy drives, modem, DOS, Windows, mouse, joystick, games, \$850. Campbell, 296-8304.
- SOFA, brown, good condition, \$200; Brazil Contemps leather chairs, two, \$75. Drotning, 294-4807.
- OAK ENTERTAINMENT CENTER, small, 36"H x 56"L x 17"W, smoked glass doors, 2 shelves, covered TV area, excellent condition, \$135. Rockett, 298-2589.
- IBM PROPRINTER, 9-pin, \$95; Epson RX-80 printer, \$85; cable, \$8. See it work. Dietzel, 294-4702.
- RAILROAD TIES, AA grade, 1-1/2-ft., 2-ft., & 3-ft. lengths, will deliver to Albuq., \$1/ft. Tafoya-Porras, 281-9610.

- WOODWORKING TOOLS: table saw, radial arm saw, shaper, lathe, others. Wartell, 265-3643.
- WICKER SET, w/cushions, includes loveseat, two chairs, and table, \$125. Norwood, 266-2717.

TRANSPORTATION

- '48 CHRYSLER WINDSOR, 8-passenger sedan, great shape, \$5,000 or part trade; '58 Willys Jeep Wagon, w/Ford V8 kit, without engine. \$1,500. Lloyd, 889-8934.
- '91 TOYOTA CELICA ST, AC, AT, PB, PS, air bag, 30K miles, \$11,800. Alvis, 298-3906.
- '87 PLYMOUTH SUNDANCE, 2-dr., AT, AC, PS, 4-cyl., turbo, EFI, cruise, AM/FM cassette, excellent condition. Boyer, 298-4226.
- GIRL'S BICYCLES: two, 26-in., 10-spd., \$30/ea.; one coaster, 20-in., \$25. Behr, 292-0549.
- JEEP GRAND WAGONEER, burgundy leather, AC, 52K miles, Jensen stereo, power windows, locks, & seats, like new, \$8,000. Myers, 271-1525.
- GIRL'S BIKE, Huffy, 24-in., good condition. Hansen, 823-9515.
- '77 GMC MIDAS MOTORHOME, 19-ft., self-contained, awning, six new tires, 350 motor, ready to go, \$5,900. Sparling, 821-5383.
- '79 DATSUN PICKUP, good workhorse, not pretty, \$750 OBO. Knutson, 299-6183.
- '90 DODGE RAM CONVERSION VAN, 8-cyl., AT, AC, 26K miles, power locks/ windows/mirrors, refrigerator, microwave, stove, sink, color tv, like new, \$18,900. Cocco, 296-4159.
- '74 CADILLAC ELDERADO CONVERTIBLE, red w/white top, 60K miles, new paint, good engine & body, \$5,000. Wartell, 265-3643.
- '84 MOTOR HOME, 45K miles, 7K generator, new 12-ply tires, 3 new batteries, twin-size beds, original owner, consider small RV trade, \$23,000. Jackson, 821-2012.
- '92 FORD EXPLORER XLT, 4x4, 15K highway miles, green/mocha, 5-spd., power leather seats, all options, original owner, \$19,200. Dwyer, 271-1328.
- '87 FORD TEMPO GL EFI, PS, PB, AC, AT, AM/FM stereo cassette, cruise, 40K miles, \$3,950. Walker, 292-4389.
- '87 JEEP GRAND WAGONEER, 78K miles, leather, cruise, AC, factory extended warranty transfers to new owner, only \$6,900. Duncan, 281-8792.
- BICYCLES: boy's Schwinn Varsity, 24-in., 10-spd., \$30; girl's, 20-in., w/banana seat, \$25. Stanley, 255-3083.
- '87 PLYMOUTH RELIANT LE, 4-dr., AC, AT, AM/FM cassette, very clean. Dale, 291-9020.

REAL ESTATE

- 3-BDR. MOUNTAIN HOME, 1-3/4 baths, 2,200 sq. ft., electric w/solar, living room, dining room, den, garage, sprinklers, more, North 14, \$140,000. Wheeler, 281-2402.

- 4-BDR. HOME, 1-3/4 baths, 1,930 sq. ft., office, hardwood floors, Berber carpet, established yard, KAFB neighborhood, spacious, light, priced right. Keener, 255-8482.
- 3-BDR. HOME, 1-3/4 baths, 1,250 sq. ft., nice landscaping, 12516 Yarla Linda SE, \$87,900, Open House, July 11, 1-5 p.m. Ballweg, 293-3487.
- 3-BDR. CUSTOM HOME, 1-3/4 baths, vigas, kiva fireplace, deck w/city and mountain views, corner lot, Taylor Ranch, \$97,900. Snyder, 898-2029.
- MOUNTAIN HOME, 1,428 sq. ft., barn, great water, views, 3.6 wooded acres bordering national forest, 12 miles east of Albuq., \$115,000. Duncan, 281-8792.
- SEVEN ACRES, sportsman's paradise, northern New Mexico, stream divides lush, heavily wooded acreage, all utilities, year-round access, \$37,500. Jolly, 1-684-2468.

WANTED

- WASHING MACHINE, automatic, serviceable. Underhill, 294-1775.
- HOME FOR DUCKS, two, both probably males. Ghanbari, 883-3819.
- OAK ROLLTOP DESK, small freezer for cabin. Layne, 857-0989.
- "THE LITTLE MERMAID," Walt Disney version, original copy, will pay retail; truck bed for '75 GMC Pickup Sierra Grande long bed, in excellent condition. Ortiz, 898-2650.
- BABYSITTER, teen/college student, mature, responsible, w/references, for my 2-yr.-old, w/ home, SE heights, occasional evenings. Plank, 296-7919.
- BICYCLE, 16-in., for boy or girl. Ballard, 828-2504.
- ALBUM, Tom Jones' "Darlin'," willing to buy or borrow. Sparling, 821-5383.
- WORD FOR WINDOWS 5.1, and Power Point for Windows 3.0. Schofield, 292-7220.
- PONY AND SADDLE, must be kind, quiet, and sound, may be aged or show retiree. Siegrist, 293-4148.
- PERSON WITH TRUCK, to haul away lockers, usable couch, electronic and computer parts, and other useful items. Duncan, 281-8792.
- TAILGATE, to fit '85 F150 pickup. Romero, 897-2690.
- HOMES FOR DOGS, collie-shepherd cross, spayed, 1-1/2 yrs. old; cocker spaniel, black/white, neutered, 3 yrs. old. Both have shots. Rex, 764-9655.
- USED BICYCLE, 16-in., w/training wheels. Cunningham, 345-0825.
- LITTLE TYKES CAR BED, for twin-size mattress. Stanley, 255-3083.
- HOME FOR DOG, German Shepherd cross, spayed female, friendly to humans, fights with our other female dog. Brown, 294-5445.

LOST AND FOUND

- LOST: Key ring with many keys and blue metal tag that says "Number One Uncle." Apodaca, 299-8515.

Coronado Club Activities

Hot Jazz Tonight at the Club

STRUT ON IN — You'll think you're in the French Quarter when the New Orleans Jazz Gathering strikes up some hot Dixieland jazz at the C-Club tonight, July 9. Great for listening or dancing, the music will go on from 7 to 11 p.m. This five-piece group will be playing later for the annual festival of the Rio Grande Jazz Society, but if you make your reservations in time, you can be among the first in town to sample their sounds. Menu choices will feature some favorites — Cajun catfish (\$10.95), filet mignon (\$11.95), steak neptune (\$10.95), or the scrumptious all-you-can-eat buffet (\$6.95). This one's likely to be a sellout, so call 265-6791 now and reserve your place.

JOIN THE CATS — There's just one Champagne Brunch and Tea Dance on the slate this month, and it's coming up Sunday, July 18. Make sure you're on hand — the month just wouldn't be complete without one of the Club's delectable brunches. Brunch is served from 10 a.m. to 2 p.m., and Bob Weiler and Los Gatos play from 1 to 4 p.m. Reservations required for the brunch (reservations not accepted for the tea dance only) — call 265-6791.

WANNA BE ELECTED to the Club's Board of Directors? If you didn't give your name to the nominating committee by July 6, you still have until Aug. 9 to submit a petition with the signatures of 10 members. Elections are Sept. 13. Only members who are employees or retirees of the Labs or DOE are eligible for election to the board. For more details, call General Manager Sal Salas on 265-6791.

BIRTHDAY BINGO — Do something different next time a co-worker's birthday rolls around: Bring him or her to the Club on a Thursday evening for a bingo birthday bash. Your group will get a reserved table, and the birthday person will get balloons, a free \$5 bingo packet, a \$3 discount on the buffet, and a complimentary drink. No birthdays coming up? Call the Club and schedule a bingo party anyway. Your group will get a reserved table, pizza, soft drinks, and popcorn, and everybody in the group will get a coupon for a free \$5 bingo packet when they buy one packet. Bingo nights are every Thursday, with the early-bird games starting at 6:45 p.m. and regular games about 7 p.m. The buffet opens at 5:30 p.m.

Wanted: Pictures from the Past

Helping Preserve Labs' History

"From our days as Z Division for Los Alamos Scientific Laboratory to the invention of the laminar airflow cleanrooms, laydown weapons, and pulsed power technologies, Sandia has a lot to be proud of," says Sandia's Corporate Historian Karen Shane (7145). "These accomplishments must be preserved."

To do that, Karen and a small group of Sandians have set out to create a photographic history of Sandia, and they will host "photo fairs" in late July and early August at which employees and retirees can offer photos for publication.

Retirees can be of special help to the project, providing photos and valuable anecdotes that might otherwise be lost or forgotten, says Karen.

The first photo fair will be held for Sandia/New Mexico retirees Friday, July 30, 7 a.m.-5 p.m. at the Technology Transfer Center (TTC, Bldg. 825). Sandia/New Mexico employees are invited to another fair, also in the TTC, on Monday and Tuesday, Aug. 2-3, 7 a.m.-5 p.m. Another photo fair will be held for Sandia/California employees and retirees on Thursday, Aug. 5, 7:30 a.m.-4:30 p.m. in the Combustion Research Facility, Bldg. 905, Rm. 209.

Karen is looking for all types of photos, including historical, unusual, and even offbeat ones, for the publication. The photo fairs will feature an exhibit of pictures already collected for the project and an area where Sandians can submit stories and photos. Photos can be black and white or color.

The publication will cover Sandia from its beginnings in 1945 through today. Chapters will record Sandia achievements in the context of national events. They will also illustrate that as Sandia grew, so did Albuquerque. Early photos of Albuquerque are also being sought.

Photos can be returned to their owners at the end of the project. Sandians submitting photos should include their name, phone number, and address written on a label and taped to the back of each picture. If a photo is used, the first person who submitted it will receive a free copy of the publication. Photographers will be credited in the publication.

For more information contact Karen on 844-9180 or Donna Bruce on 844-6315.

Take Note

The recently formed Sandia Singles Club invites single employees to join them for meetings and upcoming singles activities. Officers elected at the club's third meeting held June 7 were Janice Bauer (122), president; Jim Bailar (contractor), vice president; and Sandy Culler (1323), secretary/treasurer. Sixteen members went to Red River, N.M., on a club-sponsored weekend June 25-27. The next event is a water-ski trip to Elephant Butte this weekend, July 9-11. The club has plans for Tuesday night dinners, Friday night movies, Sunday night dance lessons, bowling, hiking, horseback riding, and more. To find out what's coming up next, be at the next meeting on Monday, July 12, at 5 p.m. at the Coronado Club. For more information, contact Sandy on 821-4143.

A new non-profit citizens' group has been formed in response to New Mexico's ongoing DWI problem: Changing DWI, Driving With Intelligence. Nadine Milford, DWI activist, is the group's first president. Paul Cravens, survivor of a recent crash involving an alleged drunk driver, is secretary/treasurer. Changing DWI will provide information and education about DWI to the public. A volunteer base has also been established to monitor New Mexico courtrooms to see that citizens are informed about the judicial process as it relates to DWI issues. For more information, call 266-2394.

Retiring and not shown in LAB NEWS photos: Ken Wischmann (2472).

How to Find Us

Employee Communications Dept. 7162 is now located in Mobile Offices 172 and 173, immediately east of our old location in Bldg. 814, but we are now *inside* Tech Area 1. Call us on 844-7522 or 844-7841 if you can't find us or if you need more information.



This newspaper can be recycled with Sandia office paper

What Do You Think?

Several years ago, the LAB NEWS started a new feature called "What Do You Think?" We posed a question, asked readers to respond, and published responses. Results were disappointing — too few readers responded — so we dropped the idea for a while.

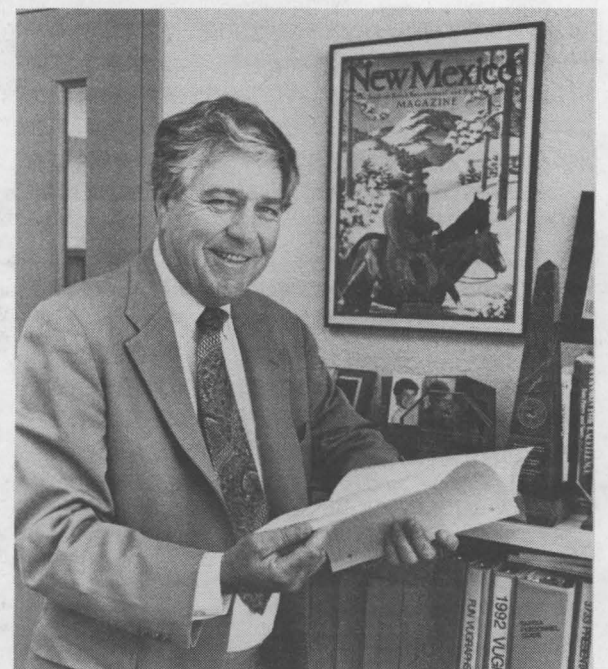
However, we still believe in it, so we're going to resurrect the idea but try something a little different. We'll call 20 or so Sandians (all levels, all sites) randomly at least once a month and ask you personally to respond to a question. If you agree, we'll fax you a form that you can complete and fax back to us. We'll then publish your responses.

Some of our questions will be serious, and some may be a little silly (fun hasn't been outlawed). Regardless, we hope to hear from you.

If things don't get too crazy between now and then, we'll publish the first question in the next issue (July 23), then start calling. One more thing — anyone who wants to answer the question may do so — not just the folks we call. LAB NEWS Editorial Assistant Janet Carpenter (7162) will coordinate the "What Do You Think" feature.

Fun & Games

Women's Distance Festival — The Albuquerque Road Runners are sponsoring the Women's Distance Festival 5K road race on Saturday, July 17, 8 a.m., at San Gabriel Park. This is a women-only event. Advance registration is \$10. For information, contact Terry Bisbee (9538) on 293-0356.



JON BEDINGFIELD, Manager of Supplier Relations Dept. 7203, was recently named a Fellow of the National Contract Management Association (NCMA). Fellowships are limited to "those few who have made significant and outstanding contributions to the field of contract management." Only about 1,700 of NCMA's 23,000 members are Fellows. At Sandia, Jon is responsible for ensuring that all contractors and vendors, especially small, disadvantaged, or woman-owned businesses, have an opportunity to work for the Labs. Sandia's success in this area recently earned the Labs the Dwight D. Eisenhower Award of Excellence from the Small Business Administration (LAB NEWS, April 30). Jon is a Certified Professional Contracts Manager, has been a member of NCMA for more than 10 years, and has served as chair of several committees in the 210-member Albuquerque chapter of NCMA.