



PARTICLE BEAM FUSION ACCELERATOR—Formal dedication of this new facility, designed for pulsed power experiments leading to the demonstration of inertially confined fusion, took place last Saturday, Aug. 2. Some of the

guests who attended the dedication are shown here looking down into the accelerator. The rubber raft is occupied by maintenance people performing routine checks. Other pictures and related story on page 4.

# LAB NEWS

VOL. 32, NO. 16

AUGUST 8, 1980

SANDIA NATIONAL LABORATORIES • ALBUQUERQUE NEW MEXICO • LIVERMORE CALIFORNIA • TONOPAH NEVADA

## Energy Conservation

### Night Shutdown of Computers Shows Real Potential

Seven of Sandia's 103 departments use 50% of the electricity at the Labs. These startling figures were revealed in a recent Labs-wide survey conducted by Bob Stromberg, head of Solar Technical Liaison Division 4714.

Every organization surveyed estimated its electric power consumption—lighting, equipment, hours of usage, etc. The survey total of 57,959 megawatt hours annually correlated well with Sandia's total use last year of 79,665 megawatt hours—that is, 21,706 megawatt hours are controlled by Plant Engineering for the Labs' overall operations, and the balance is controlled by line organizations.

While emphasizing conservation and ways to save energy, the survey also pinpointed three areas as major electrical consumers—central computing, fabrication, and major test facilities. Organizations (which include all the high-usage

departments) in these three areas will be taking a harder look at their operations. Bob is particularly enthusiastic over the possibilities of electrical savings in the use of computers.

Computers, of course, are an integral part of the Labs. Sandia employs an estimated \$50 million worth of centralized computers, with myriad individual computers placed throughout the Labs. Most are left on continuously because, as Bob says, "Everyone knows computers must be left on all the time. But it's not necessarily so."

Years ago computers were designed around tubes; it was a problem in these computers to stabilize circuits every day. Computers were so costly that it was better to avoid the possibility of malfunction the next day by not shutting the machine down at night. But today, with better quality control and manufacturing techniques,

including use of solid-state devices, this situation has changed.

In fact, after Design Definition Department 2450 completed its survey, Manager Art Eiffert concluded "the only place to make any impact at all was in shutting down our computer systems at night." Sure enough, a few bugs had to be worked out; but the department is now routinely shutting down its 35 computers at night. Sixty kilowatts of electrical consumption now goes to zero every night—a \$20,000/yr. savings.

Since computers as a group consume the most electricity, and since more small-than large-computers are used at the Labs, the indication is that significant energy savings can be achieved if night shutdown possibilities are checked out.

If you have any questions or ideas on the subject, call Bob on 4-8170.

# Afterthoughts

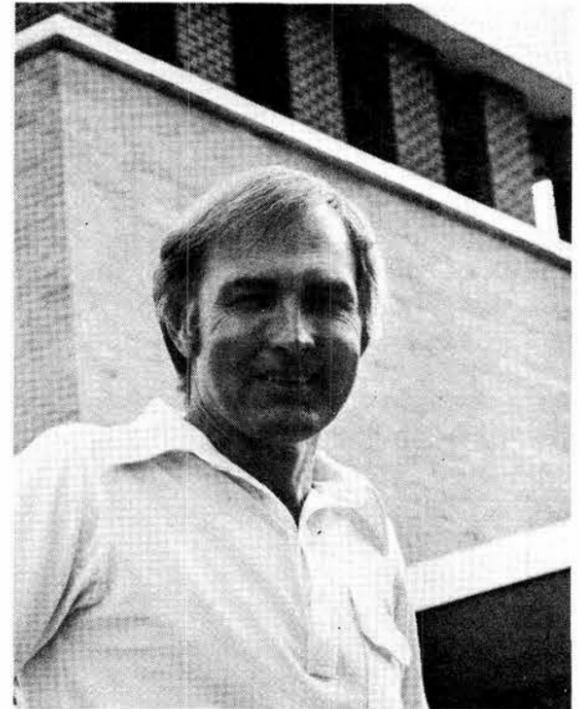
Biking the Big Apple--"I want to see New York look like Peking in the morning," is what Mayor Koch told the press as the 11-day transit strike was about to begin. And, thanks to the mayor's colorful promotion of bicycle riding and favorable media coverage, the Big Apple did look like Peking just a bit. Bicycling magazine, in a report on the strike-bound interlude, states that some quarter million cyclists gave commuting a shot, getting to their destinations with reasonable dispatch, producing in the process some eye-opening numbers, e.g. 70,000 bikers crossed the bridges into Manhattan on one day. Another basis for the successful coup de cycle derived from the mayor's leaning on city landlords to open their buildings to employee cyclists. They complied in droves, and the list included such landmarks as the Empire State, New York Times, Bell Telephone, Citicorp, JC Penney, Metro Transit Authority and all city buildings.

With the mayor vigorously behind the bicyclists, city bureaucrats who consider "No, not now" to be the most beautiful words in the language got the message and pitched in to help or, at least, not obstruct. One innovation was instant bicycle lanes made with traffic cones--an easy and inexpensive technique usable in any city. A surprising aspect of the bike lanes was that they were shared, apparently without much mishap, with runners and briefcase-toting roller skaters.

When the strike ended, the attention given to the bicycle didn't and several firms (Bell included) announced permanent bicycle parking plans. The New York Post called bicycles "the only clear winner in the strike," and the Daily News headlined a post-strike commuter race from Grand Central Terminal to City Hall that was won handily (as any city cyclist would surmise) by the bicycle in 16 minutes, while the taxi took 23, an express subway 24, roller skates 33, a bus 41, and a pedestrian 62 minutes. From all this we conclude that what the cycle movement needs are bigger and better transit strikes.

\* \* \*

Old American Custom--There's been a great deal of hand wringing by newspaper columnists over the significance of opposition to selective service registration. They see in these protests by the young (and some not-so-young) a crumbling of the republic and other dark implications. I suppose that in the best of all possible circumstances, every 19- and 20-year-old in every city would have marched, lock-stepped and humming a martial tune, down to the post office to sign up, but the fact is there never was a draft in our history that was universally popular. Hundreds were killed in draft riots during the Civil War. In 1941, when the danger to the country was clear and present with Nazi Germany overrunning Europe and worsening U.S. relations with Japan, the Congress extended the existing selective service act by a thin margin of one vote--this just four months before Pearl Harbor. Today it's simple prudence to have selective service registration. But don't expect Americans to embrace it like a tax rebate--we never have. \*js



GALEN STUCKY (5154)



BILL ROACH (1474-1)



One result of the heavy-handed anti-smoking campaigns is that some smokers now lie about their addiction. In a recent study of heart patients, 63 percent reported they no longer smoke. Urine assays of this "non-smoking" group showed that 16 to 20 percent of them hadn't given up the habit at all.

## LAB NEWS

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## Supervisory Appointments

GALEN STUCKY to supervisor of Solid State Materials Division 5154, effective July 1. Since joining the Labs a year ago, Galen has worked on studies relating to inorganic chemistry and solid state materials. Before coming to Sandia, he was a professor of chemistry at the University of Illinois for 16 years.

Galen earned his BS in physics and chemistry from McPhearson College (Kans.) and his PhD in physical chemistry from Iowa State. He was at MIT for one year as a post-doctoral associate in the physics department. Galen also spent seven months in 1971 as a visiting scientist at the University of Upsala in Sweden. He is a member of the American Chemical Society, and associate editor of the *Journal of Inorganic Chemistry*.

Galen has a private pilot's license and enjoys flying, playing the piano, skiing and jogging. He and his wife Kaaren have two

children and live in NE Albuquerque.

\* \* \*

BILL ROACH to supervisor of Coil Fabrication and Electronic Apprentice Section 1474-1, effective July 16.

Since coming to Sandia in April 1958 as a messenger, Bill has worked as a plate maker in the printed circuit shop, completed the electronic apprenticeship program in 1966, spent several years in the electronic fabrication shop and, more recently, has worked as an ESA in the micro-miniature component group.

Bill hails from Colorado Springs, and he and his family return to that area often during vacations. His long-time hobby has been antique car restoration, and he and his wife Edie enjoy watching sprint car races. Bill and Edie have four children and live in the SE heights.

# A Matter of Degree

These Sandia Livermore employees have recently completed degree requirements under the Educational Aids Program:

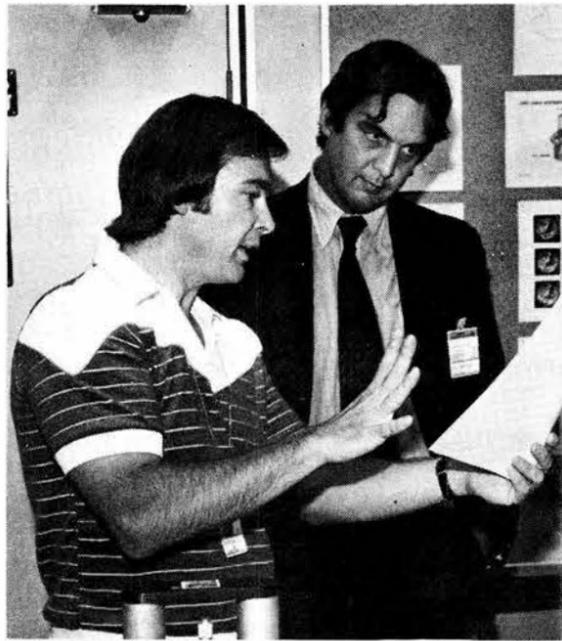
Alice Joyce (8423)	University of San Francisco	BS, Management
Mike Pendley (8333)	Cal State University/Hayward	BS, Math & Computer Science
Jan Vandermolen (8215)	St. Mary's College, Moraga	MBA
Marge York (8215)	St. Mary's College, Moraga	MBA
Cook Story (8152)	University of California/Davis	PhD, Engineering
Russ Miller (8162)	San Jose State University	MS, EE
Bob Marmon (8412)	San Jose State University	MS, Computer & Info. Sciences

## Aerial Photos

A limited number of aerial photos of Sandia Livermore, taken last May, are available for sale in the public information office, Bldg. 911. Cost for a 11" x 14" color photograph suitable for framing is \$3.50. All proceeds go to a charitable organization. No phone orders, please.

## Sympathy

To Dave Kirk (8255) on the death of his mother in Dixon, Ill., July 13.



ON A RECENT VISIT to Sandia Livermore, DOE's Director of Congressional Affairs Richard Wright (at right) gets a briefing on an internal combustion engine experiment from Sheridan Johnston (8352). Mr. Wright was also briefed on the Labs' solar energy work, on the new Combustion Research Facility, and on the weapons program.



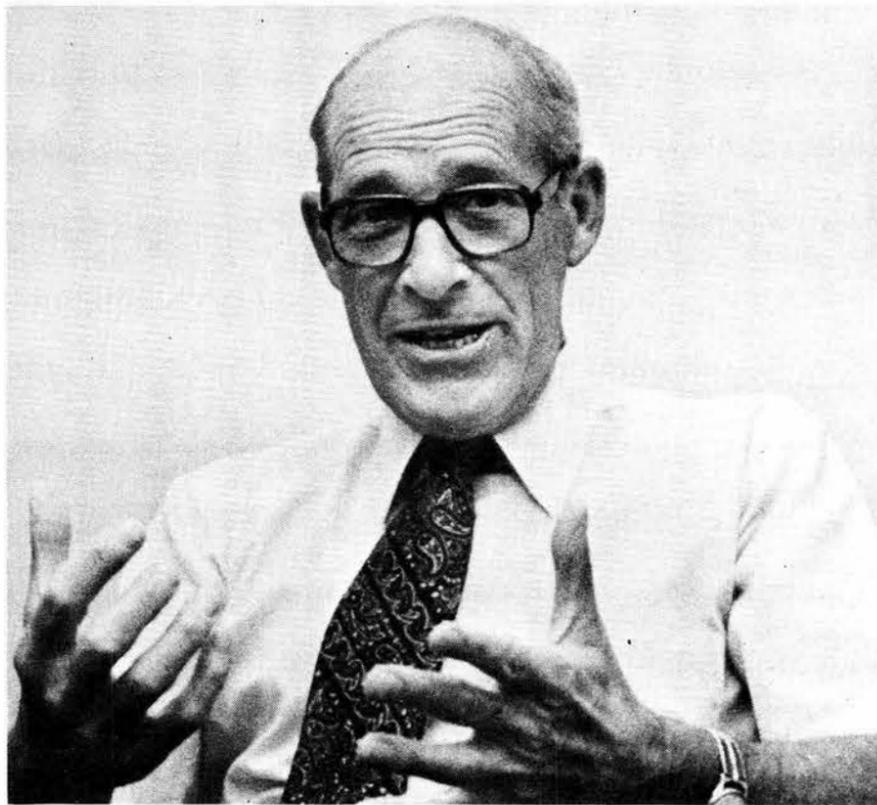
If you have doubts about your self worth, you owe it to yourself to read *The Wine of Life*, a recent collection of essays by biochemist-biophysicist Harold Morowitz of Yale. The opening essay puts the lie to the old high school text estimate that the materials of the human body are worth about 97 cents. Based on prices listed in a current biochemical supply catalog, Morowitz estimates that a single gram of the human body contains chemicals worth roughly \$245—for an average body total of about \$6 million. And that's just the value of the chemicals. To assemble the material into an "entity that can make love, complain and do all those other things that constitute humanity" would be much more expensive. "I can not imagine," says Morowitz, "that the job could be done for less than 6,000 trillion dollars."

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PSYCHOLOGIST Pat Sullivan discusses his role at Sandia Livermore.

## Psychologist At Sandia Livermore

Is on-the-job stress affecting your job enjoyment or job performance? Is an off-the-job problem making you touchy, distracted, dispirited? If so, Medical Division 8214 has a suggestion: Schedule an appointment with Pat Sullivan, PhD, SNLL's recently-arrived psychologist who is at Sandia on Mondays in Bldg. 911, Rm. 117. Since his arrival, he has been meeting with supervisors to acquaint them with his services.

In a LAB NEWS interview, the psychologist emphasized that he is flexible in his scheduling and, while at the Labs only on Mondays, he can always be reached through his answering service at 981-1157. And, if an employee prefers to meet with him outside the Labs, this can be readily arranged.

The psychologist, who has also worked with LLNL and the Rand Corp., explained that he is concerned about the overall health of an organization as well as that of the individuals in the organization. "My services are available both for work-related problems and for personal problems which affect job performance."

For example, he notes that supervisors must concern themselves with their employees' work effectiveness. But if work effectiveness drops, an employee often feels that the boss himself may be the root cause and has an understandable reluctance to broach the subject. "I find many people unduly fearful of surfacing their discontents with their bosses," he adds.

"It can be helpful to talk to the boss about the conflict or concern—if, of course, the discussion is approached in a constructive way. If the person fails to take

some action and instead says something like, 'It wouldn't do any good' or 'I've only got a few years to go,' the stress continues and may get worse. If properly approached, supervisors are usually receptive and even appreciative of frank comment, even critical ones, about the work and their role in it.

"Not all work-related problems, obviously, are caused by the supervisor. Many people I see worry about how well they are doing. They are distracted, they're not well suited to their position, some are bored, and some are disturbed that they aren't Number One." He points out that the Labs tends to attract achievers, and some of these become fretful when their expectations aren't met.

Among the personal problems he encounters, those relating to family life are the most common. Anxieties connected with physical health are also common. His role is not to provide comprehensive treatment, as would a private psychologist or psychiatrist, but rather to help the individual get started on a course which addresses the problem.

Concerning the confidentiality of his contacts, the psychologist stresses that no names are reported to Sandia, and nothing is entered into the personnel files. "To do so would be counterproductive—my value is basically dependent upon people being able to trust me."

He also urges supervisors to be aware of his availability and to be reasonably close to their employees. When something of an adverse or painful nature happens, a suggestion to contact him may be appropriate. His telephone number at the Labs is 2-2200.

# Seat Belts Should Be Around, Not Under You

by Susan Brammer, Sandia Medical



Most people don't wear seat belts. Yet it is estimated that 20,000 lives could be saved each year if everyone used safety belts. In 1977, highway accidents killed 49,000 people and led to 1,800,000 disabling injuries. Many of these tragedies could have

been prevented by the simple precaution of buckling up.

The risk of death or severe injury in a motor vehicle accident is doubled when safety belts are not used. The safety belts do three things: first, they save lives; second, they reduce the number and severity of injuries; and third, they hold the driver behind the wheel, where he can maintain control of the car.

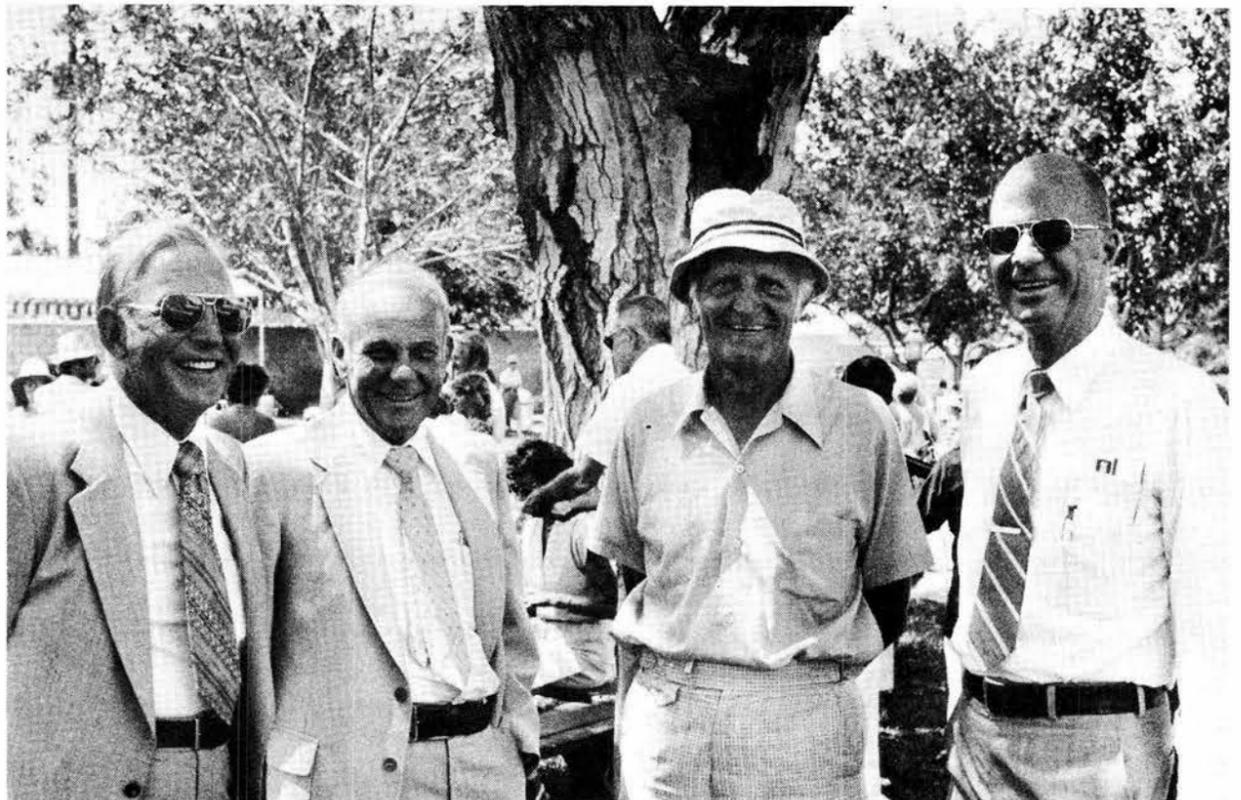
Riding "buckled up" greatly reduces the risk of injury and death by preventing car occupants in a collision from being flung with tremendous force against the windshield or other parts of the vehicle interior—or out onto the highway. Some people believe it is safer to be thrown from the vehicle than to stay inside it. This belief is deadly. The probability of death is five times greater if you are thrown clear of the car. Even in the event of fire or submersion, seat belts will help reduce the severity of injuries and increase your chances of remaining conscious, thereby making escape more likely.

Learn more about the importance of using seat belts and child restraints by attending Medical's next program in the *Go For Health* series, "Buckle Up." It's set for Tuesday, Aug. 12, 12-12:30 in Bldg. 815 (outside the Tech Area). "Are You Convinced?", a short film, will be shown, and a representative of the NM Highway Safety Department will discuss seat belt use in New Mexico and answer questions. A handout listing crash-tested child restraints will also be available.

## Retiring



Jack Carnohan (3611)



PBFA DEDICATION—Principal speaker for the occasion was Duane Sewell, Asst. Secretary for Defense Programs for DOE (at far right), shown here with (at left) Herm Roser and Tom Clark, Manager and Deputy Manager, respectively, of DOE/ALO, and President Sparks. A lunch at the Coronado Club took place after the opening ceremonies.

## PBFA: Looking Good After First Test

The 36 modules of the particle beam fusion accelerator (PBFA-I) at Sandia National Laboratories have been fired simultaneously for the first time, producing 840 kilojoules of energy and 20 trillion watts of power in a 40 nanosecond pulse. The new facility was formally dedicated last Saturday, Aug. 2.

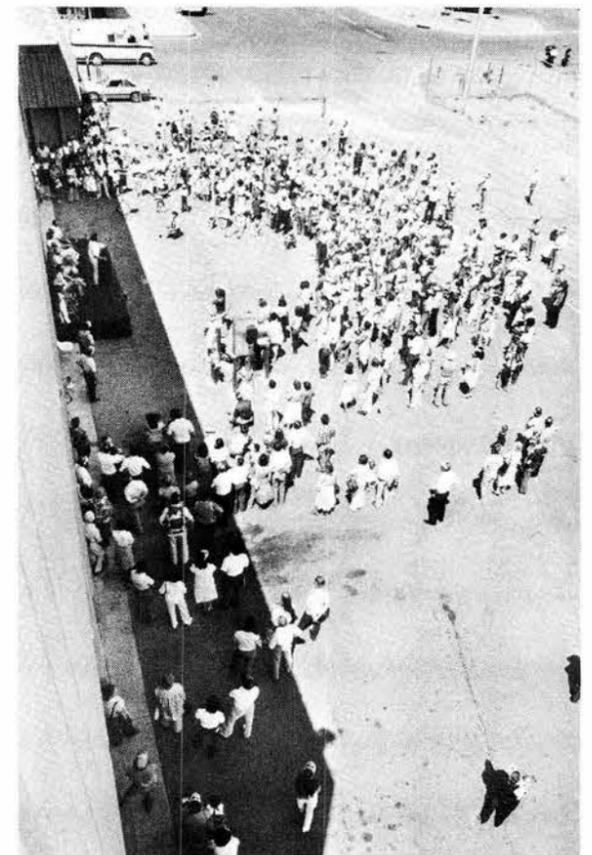
Test firing of the machine—not yet equipped with a central diode or target chamber—marked the completion of the accelerator's construction and assembly phase which began in January 1977. Completion was on-time and within the budgeted cost of \$14.2 million.

"It was a successful first test of the accelerator," said Gerry Yonas, Director of Pulsed Energy Programs 4200, "and we expect no major problems in bringing the machine up to its nominal operating level of 1,000 kilojoules and 30 trillion watts."

Extensive pulsed power testing of the machine is scheduled in the next several months, followed by ion beam formation and focusing. Target experiments will begin in 1981. The machine is capable of irradiating targets with either ions or electrons, although the ion approach will be emphasized.

PBFA-I will operate until 1983, then shut down for an upgrade in which the output of the 36 original beam-producing modules is increased and an additional 36 modules are installed. Each of the 72 modules will produce about four million volts and 350,000 amps, giving the upgraded machine a total output of 3,500 kilojoules and 100 trillion watts in pulses of 40 nanoseconds. Testing will begin in 1984.

The new accelerator, constructed as part of DOE's inertial confinement fusion program, operates by passing electric current through a series of capacitors, switches, and transmission lines, eventually forming beams of particles that impact on the surface of a small sphere filled with



PORTION of the crowd attending the dedication. Photo was taken from roof of PBFA facility.

deuterium and tritium—heavy forms of hydrogen.

Inertial confinement fusion works on the principle that if beams of sufficient intensity are focused onto properly-designed targets, atoms of deuterium and tritium will fuse, releasing excess energy, which, in a full-fledged reactor, would be used to generate heat to power a turbo-generator.

PBFA is an experimental accelerator which will irradiate only single pellets, producing insufficient fusion reactions to explore reactor technology fully. However, success in the experiments could ultimately lead to construction of an experimental power reactor which could be in operation within 20 years after pellet ignition principles are established.

# New Burn Site Fired Up For A LAARC

The new burn site in Coyote Canyon could be called the world's largest barbeque pit. But it's not lean hamburger cooking in there; it's a little goodie called the LAARC.

The LAARC (Lightweight Air-transportable Accident Resistant Container) is the latest in plutonium shipping containers under development by John Andersen of Safeguards Systems Division 1725. The LAARC weighs 70 lbs. and is designed to handle international shipments of small samples of plutonium for the International Atomic Energy Agency headquartered in Vienna. (John's other container, the PAT-1 which accommodates 4.4 lbs. of plutonium was featured in the April 18, 1980, issue of LAB NEWS.)

Survival requirements for the LAARC are the same as those for PAT-1—300 mph impacts, crushing under 70,000 lbs., slashing and puncturing by steel spikes and beams, immersion in water for eight hours, and burning in a jet fuel fire for an hour at temperatures of at least 1850°F.

This last requirement explains the new burn site in Coyote Canyon. John needed a controllable and repeatable fire. Digging a pit, pouring in fuel and lighting it does not give you a scientific test. Temperature and burn time depend on the amount of fuel and the wind velocity—not predictable with the squirrely winds in Coyote Canyon.

Walt Gill, Jesus Mane and Walt Drake of Explosives Testing Division 1533 are responsible for the burn site. Working with John Andersen, Walt Gill programmed the preliminary design through the computer and made refinements, Jesus designed the temperature controls and instrumentation, and Walt Drake guided it through construction. Assembly and construction were performed by men of Remote Areas Maintenance and Test Support Division 3618.

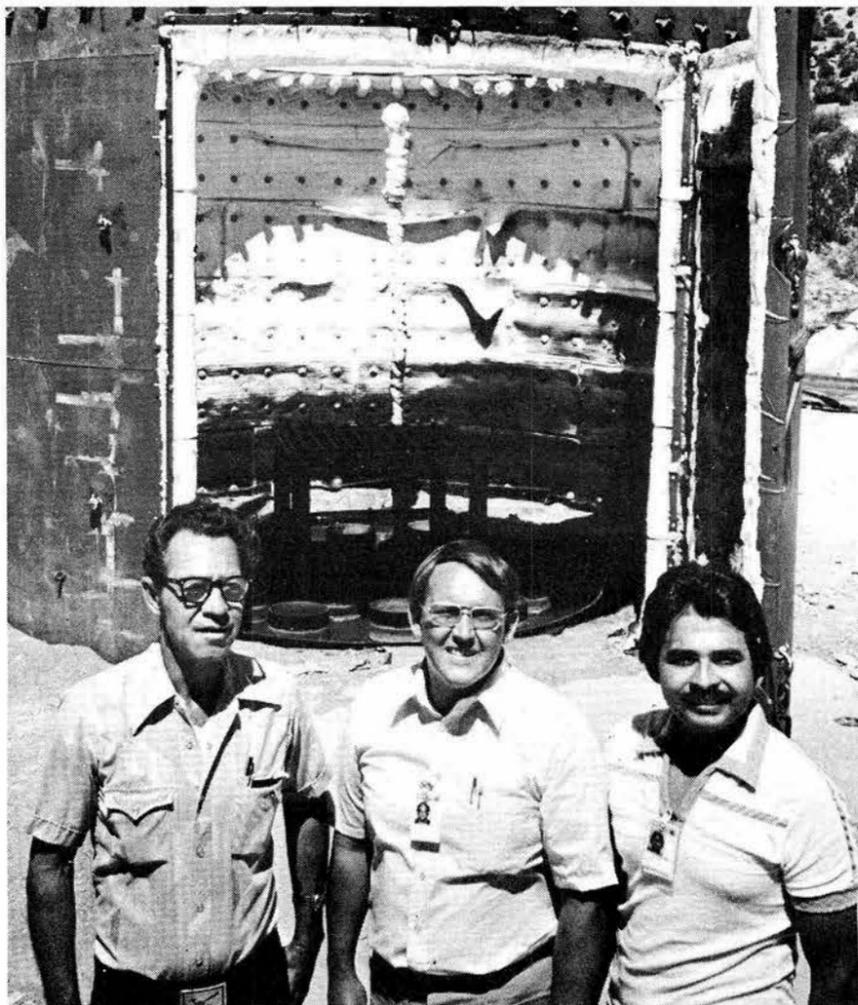
The central element is a 20-ft.-high, 16-ft.-diameter, insulated steel tank with a false bottom. About 20 inches of water with three inches of fuel floating on top are supported by the false bottom of the tank. Open pipes extending from above the fuel level down through the false bottom provide air flow. An air chamber under the tank and a six-ft.-high, 50-ft.-long tunnel with a louvered door complete the air flow system.

From an insulated instrumentation post inside the tank, thermocouples sense temperature while a servo-mechanism reacts to open or close the louvers in the tunnel door to regulate air flow, thus keeping the temperature constant. Fuel flow is also controlled by the sensors and servos.

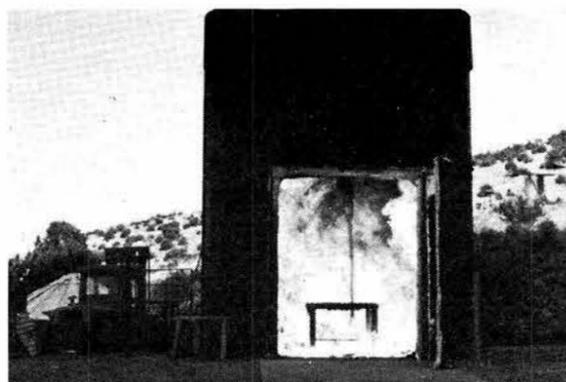
"We might have momentary surges of temperature if the wind gusts outside," Walt Gill says, "but the system reacts quickly and keeps a relatively constant temperature."

To shut the fire off, a valve is opened and the water and fuel are quickly drained off, smothering the fire as it exits the tank.

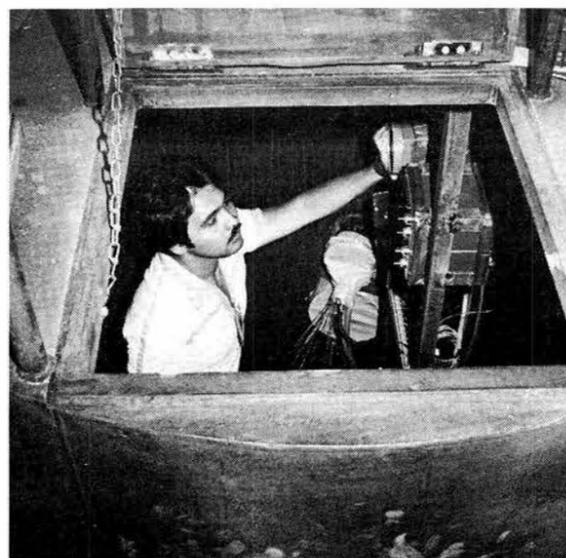
"The tough part," Walt Gill says, "comes immediately after the burn when



RESPONSIBLE for the Coyote Canyon burn site are Walt Drake, Walt Gill and Jesus Mane (all 1533).



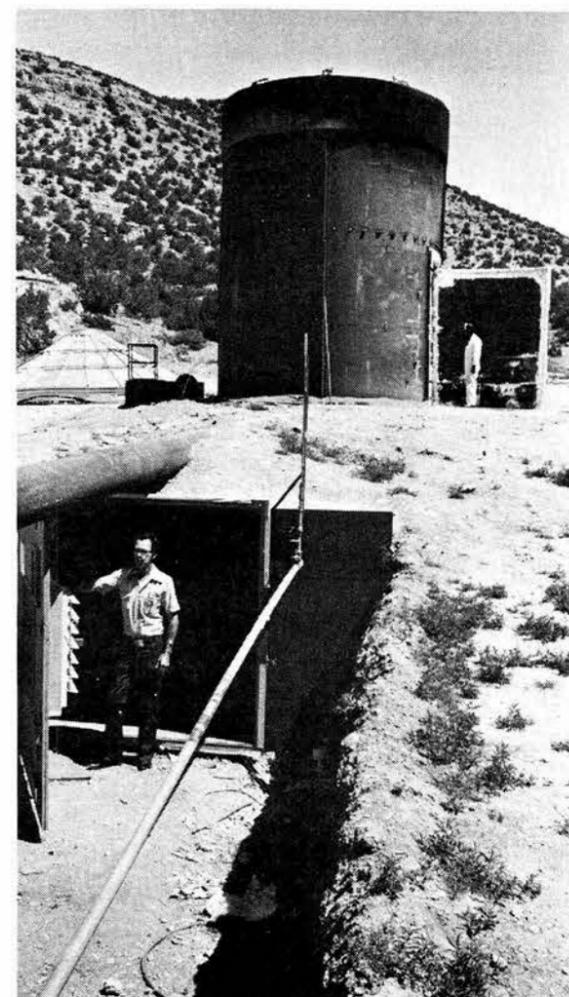
WITH ACCESS DOOR OPEN, inferno inside the new burn site in Coyote Canyon is result of a jet fuel fire. By controlling air flow to fire, desired temperature can be maintained. Note test rack and instrumentation post in center of the flames.



JESUS MANE sets controls for a burn. After fuel is ignited, the burn test is controlled automatically.

Luciano Molino (3618) dashes inside the chamber in his asbestos suit, grabs the LAARC off the rack and brings it outside so we can make some immediate measurements. Now that's hot stuff."

The LAARC program testing will be



WALT DRAKE checks louvered door on the burn pit air tunnel. Tunnel extends to air chamber under the tank where air is then ducted to combustion chamber. Jet fuel floats on water above a false bottom. Large pipe above Walt's head is the drain from the tank.

completed next fall. In the meantime, the Coyote Canyon crew has provided the burn site for weapon environmental testing and anticipates a long and useful life for the world's "largest and most controllable" barbeque pit.

# Field Support/Logistics Division Works a World Beat

The business of Sandia National Laboratories is world wide. From launching rockets near the North Pole to studying eclipses off the coast of Africa, from coal fields in Wyoming to salt mines in Germany, from Barking Sands range in Hawaii to the ice pack of Greenland, from the jungles of Viet Nam to the desert of the Nevada Test Site, nuclear weapons and national energy projects take Sandia people into remote areas of the world. They've worked on mountain tops, in tunnels deep in the earth, on the surface of the ocean and in submersibles on the ocean floor.

Participating in most of the efforts, projects and programs have been the men and women of Field Support and Logistics Division 1135 under Phil Dailey.

"Our group originated back in the early '50s," Phil says, "when Sandia carried heavy responsibilities in atmospheric testing of nuclear weapons. The technical organizations needed people who could handle the administrative load, freeing them to concentrate on the technical job.

Kip Blossom (1135) remembers those days well:

"I was doing the logistics and support work for Operation Castle from a Navy ship off Bikini Atoll. After the shot, the wind shifted and our ship was in the heavy fallout area—we spent the next three days below decks. It was an exciting time—there was a feeling of great national importance shared by all of us." After several years with another Sandia group, Kip is now back with 1135 and recently returned from an African operation.

Phil Dailey continues:

"After the years of atmospheric testing—and in those days an assignment might mean six months away from home—we shifted our support to other projects. Our people worked at NTS (and continue today) supporting underground testing. And we were involved in other projects as Sandia's scientific mission expanded. Pete Seward was on Rarotonga in the South Pacific chasing eclipses and later in the Brazilian jungle and in Australia. Now a section supervisor in 1135, Pete has been much involved in the WIPP project at Carlsbad the past several years.

"The nature of Sandia's business changed when we added some non-weapons work, but our business remained the same—logistics and administrative support for projects in remote locations. Now, much of our work supports energy projects—coal and oil shale field experiments in Wyoming and Utah, and oil and gas well experiments in California, Oklahoma, Texas and Ohio, plus various Safeguards and other reimbursable projects at Air Force and Navy bases around the world. We still have people at NTS on weapons projects most of the time."

Division 1135 people are called in the early planning stages to contribute to a project's scheduling, requirements, site surveys and operational planning.



AT SANDIA last week was this group of Division 1135 people who spend most of their time in faraway places providing support for field projects. From left, Johnnie Garcia, Kip Blossom, Frank Rivera, Phil Dailey, A. V. McFarland, Ed Andrews, Carmel Mares and Alex Griego. In front, Beulah Amole, Barbara Garcia and Katy Gallegos.

During the fielding of a project, the Division 1135 person is the project leader's right hand—handling the myriad details of travel arrangements, local transportation and accommodations, shipping, contract administration, warehousing, timekeeping and reporting, records management, material control, budgeting, safety, security and, sometimes, medical emergencies. Most of the administrators have extensive first aid training.

After the field project is over, they "roll up the site." All local contracts are closed, equipment is packaged and shipped and post-operational reports are prepared.

"Most of our people have been in this business a long time," Phil continued, "some of us for more than 25 years. It's a

great way to make a living—exciting, demanding work in exotic, even glamorous places around the world. And we've done some grubby work in miserable weather in very unpleasant places. It's also caused a strain at home being away for long periods of time. Nowadays, projects are much shorter—a month, maybe two at the outside.

"The gratifying part," Phil says, "is this: up to this year when accounting procedures changed, our services were part of the Labs' indirect overhead. Now, our services are charged to the technical organization's project cost. They still ask for us; they want us on the job." • dg



ALEX GRIEGO and friend near Fairbanks, Alaska.



KIP BLOSSOM is lowered to a schooner off the shore of Kenya, Africa.



ANN HILL at Sandia instrumentation trailer near Hanna, Wyo.



PETE SEWARD in a potash mine on WIPP project.



BETTY LACHER checks miner's lamps at WIPP site near Carlsbad.

## Take Note

Colloquia coming up include "Hydrogen as an Energy Carrier" on Aug. 13 with Gary Sandrock of the Inco R&D Center in New York as speaker. On Aug. 20, the subject is "Chemical Carcinogenesis" and Elizabeth Weisburger of the National Cancer Institute will speak. Both talks begin at 10 a.m. in Bldg. 815.

"The American Farm" opens Sunday, Aug. 10, at the Museum of Albuquerque. The museum's release states that this is "a unique display of black and white photographs from the mid-19th century to the present." It runs through Sept. 21 and was mounted by the California Historical Society. Scheduled to run with the exhibit are several slide lectures and a one-hour film documentary. These performances will run on Sundays only, and times can be obtained at 766-7878.

If you're a computer hobbyist, you're invited to attend the APPLE Computer User's group meetings, one on Aug. 20 and the other on Sept. 2, both at 7 p.m. They

meet at the Computer Technology Associates, 1704 Moon NE, near Indian School.

The New Mexico Assn. of Purchasing Managers presented its first annual Jay Hughes Award to Sandian Jim Giachino (3416) "... as the most outstanding member in the association." The award is named after Jay Hughes, head of a purchasing division at the Labs (3731), and recognizes Jay's many contributions to the Association. An NAPM member for 10 years, Jim Giachino is currently the New Mexico Association's alternate director for national affairs and has served in many local offices as well. Lew Sisneros (3723) is president of the New Mexico chapter.

As part of its membership drive, both East and West KAFB Officers Clubs invite eligible Sandia employees to get acquainted with the facilities and activities during the Week of Aug. 17-23. Stop by either Club office for a calendar of events.

## Events Calendar

- Aug. 8-10—"The Good Doctor"; Aug. 21-Sept. 17—"Spoon River Anthology," Adobe Theatre, 8:30 p.m., 898-3323.
- Aug. 9-10—Annual San Lorenzo Feast Day: Picuris Pueblo—sunset dance (9th); foot races, dances & pole climb (10th). Acoma Pueblo—corn dance (10th).
- Aug. 9, 12, 21—Santa Fe Opera: "The Magic Flute"; Aug. 13, 19—"La Traviata"; Aug. 16, 22—"Eugene Onegin"; Aug. 15—"Erwartung," "Von Heute auf Morgen," and "Die Jakobsleiter"; Aug. 14, 20—"Elektra," 9 p.m. Tickets: 982-3855, Santa Fe; The Broadway, Albuquerque.
- Aug. 10—Albuquerque Museum, Opening "American Farm," 1 p.m.; slide/lecture: Austin Hoover, Rio Grande Historical Collection, NMSU, "A Brief History of Agriculture in NM," 2 p.m.
- Aug. 17—slide/lectures: James Moore, Museum Director, "Agriculture in American Art," 2 p.m.; T. L. Baker, Panhandle—Plains Historical Museum, Canyon, Texas, "Wind Mills and Agricultural Equipment in the Southwest," 3 p.m.
- Aug. 12—Annual Santa Clara Feast Day: corn and harvest dances, Santa Clara Pueblo.
- Aug. 14-17—59th Intertribal Indian Ceremonial, Red Rock State Park, Gallup.
- Aug. 15—Bosque Farms Fair: Old Time Fiddlers' Contest, 8 p.m., Bosque Rodeo Arena.
- Aug. 15—Annual San Antonio/Our Lady of the Ascension Feast Days: Laguna Pueblo—dances; Zia Pueblo—corn dance.
- Aug. 16-17—59th Annual Indian Market, Santa Fe Plaza.

Aug. 22-24\*, 29-30, Sept. 5-7\*—Albuquerque Civic Light Opera, "Pippin," 8:15 p.m., \*2:15 matinee, Popejoy.

## Fun & Games

Not so fun—Dave Kessel (3442) called to report that he'd read our item about thieves breaking into lockers at the gym and, sure enough, his and two others were recently invaded. The padlocks were missing entirely, so it appears that the mysterious padlock snatcher and his friendly bolt cutter are still out there. Air Force authorities are calling for a B-52 strike.

Arts & Crafts—During August, classes are being offered at the Center in ceramics (banding with mineral spirit stains, free pouring, and cotton ball violets), beginning photography, and tole and decorative painting. Schedules are available at the Center, Bldg. 954 (on Kirtland West).

Golf—A tournament has been added to SGA's 1980 schedule. It will be played at the Horizon Country Club in Belen on Aug. 23, and entries will be accepted Aug. 11 to 15 by Neith Pollard, 4-5670, or Don Pipher, 4-6847. If you're not a member and wish to play, call Paul Robertson, 4-7706.

Running—The La Luz Trail Run (plus two) is set for Aug. 24, and LAB NEWS has asked for a supply of entry forms. We should have them by the time this appears.

## Sandians Earn Degrees

From Education and Training Division 3521 comes this list of 35 Sandians who have earned degrees this past academic year under the Educational Aids Program:

Tom Sheives (5622), PhD in EECS, UNM.

Earning Master's degrees in Business Administration from New Mexico Highlands University were Joe Tafoya (3211), Judy Tripp (1524), John Trodden (3711), David Palmer (3713), Georgia Rivera (3241), Juan Griego (3521), Steven Downie (4232), Bruce Davis (3731), Gene Marquis (3141), Raymond Burek (1765).

Other Master's degrees were awarded to Mary Campbell (3521), Pub. Adm., UNM; Phil Cheromiah (3300), Guid. & Counsel, UNM; Linda Barncord (2552), Management Info. Systems, UNM; Ashley McConnell (3151), Speech Comm., UNM; and John C De Baca (1542), EE, UNM.

Earning BS degrees in Business Administration from the University of Albuquerque were Shirley Wallace (3434), Lew Sisneros (3723), Marge Rico (3434), Mike Barela (3741), Adele Caldwell (4730), Sheila Carr (1137), Margaret Weitzel (1130), and Teresa Blair (5630).

Others earning Bachelor's degrees included Louis Erne (3162), Photography, UA; Terry Burrows (1757), Math, UA; Dorothy Jordan (3521), English, UA; Mike Markely (1522), Info Systems, UNM; Steve Wilcoxon (2331), EE, UNM; Bonnie Conley (4230), English, UA; Nancy Nelson (2457), Math, UA; Wade Atkins (2454), Math, UA; Fred Gleicher (3641), Math, UA; Jim O'Hagan (2352), Math, UA; and Leo Brady (1131), Bus. Adm., U of Nev., Las Vegas.

### Congratulations

Mr. and Mrs. Bill Drotning (5824), a son, July 3.

To Mr. and Mrs. Dave Straub (1254), a daughter, Kristine Carol, July 19.

### Sympathy

To Betty Gray (3531) on the death of her mother in Oklahoma, July 21.

To Gerald McCoach (2332) on the death of his father in Kansas City, Mo.

To R. E. Kent (2166) on the death of his mother in Denver, July 17.

To Wilbur Drake (1482) on the death of his son in Albuquerque, July 24.

## Death

Bennie Chavira, a material coordinator in Maintenance Operations Section 3615-2, died in an auto accident July 23. He was 40.

He had worked at the Labs for 14 years.

Survivors include his son and daughter.



AGRICULTURE SECRETARY Bob Bergland was a visitor to the Labs on July 25. His brief tour concentrated chiefly on Sandia's energy projects, and he's shown here with Bill Marshall, head of Central Receiver Test Facility 4713, as Bill explains operation of the power tower and its heliostats.

# feed n'iback

*Q. Although Reservations Division 3744 is able to make business travel reservations on Southwest Airlines, I understand tickets must be purchased and picked up at the airport. This surely discourages use of Southwest which offers inexpensive rates for flights to Tulsa, Dallas, New Orleans—cities frequented by many Sandians. How come?*

A. Southwest is not a member of the Air Transport Association and therefore does not have interline ticketing agreements with any other carriers. Tickets for transportation must be written on Southwest ticket stock, and the SATO office which, by regulation, can only represent ATA carriers, cannot handle Southwest stock. I might add that this situation exists because Southwest wants it that way; in order to keep costs at a minimum, Southwest prefers to operate as a "bare bones" intrastate carrier even though it no longer is one.

Great savings are certainly to be realized by flying Southwest as opposed to other carriers operating in the same markets and we urge Sandians to utilize it whenever possible. In the future, it may be possible to buy Southwest ticket stock in bulk and issue tickets in-house but, until such a procedure is worked out, we would hope business travelers would put up with the slight inconvenience of buying their own tickets in order to realize the 30% to 54% savings involved.

J. C. Strassel—3700

*Q. At least two types of radiation badges are in use at Sandia. The yellow badge will measure beta, gamma, and neutron radiation, whereas the white badge will only measure beta and gamma radiation. It would seem reasonable that the more inclusive yellow badge be used by everyone.*

A. Both the white and yellow dosimeter badges respond to beta, gamma and neutron radiation. However, the white dosimeter, which contains two thermo-

luminescent dosimeters (TLDs), over-responds to neutron radiation and is not suitable for use by employees whose radiation environment contains significant neutron radiation. In this case, a yellow dosimeter, containing four TLDs, is used, which provides enough information to assign the neutron dose received. The reason yellow dosimeters are not used exclusively is that their high cost and readout complexity limit their issue only to employees needing them. In either case, be it a white or yellow dosimeter, the total dose will not be underestimated, so you should not be concerned about receiving an undetected neutron exposure.

Paul B. Mossman, M.D.  
Medical Director 3300

*Q. A Mardix booth in the vicinity of gate 8 [14 Street & K Street] would be helpful to individuals housed in Bldgs. 887, T27-46, 871, 872. If additional Mardix booths are planned for Tech Area I, please consider this location as a possible site.*

A. Consideration is being given to fencing Bldg. 887 into the Tech Area I. If it is decided to do this, consideration to a new Tech Area gate at 14th and K will be given.

If this does not occur, your suggestion will be evaluated closely. Elements working against another Mardix booth are:

- \$35K cost
- Lack of buried wire conduits to Bldg. 801
- TV monitors in Guard Control
- Guard personnel for additional TV monitoring.

D. S. Tarbox—3400

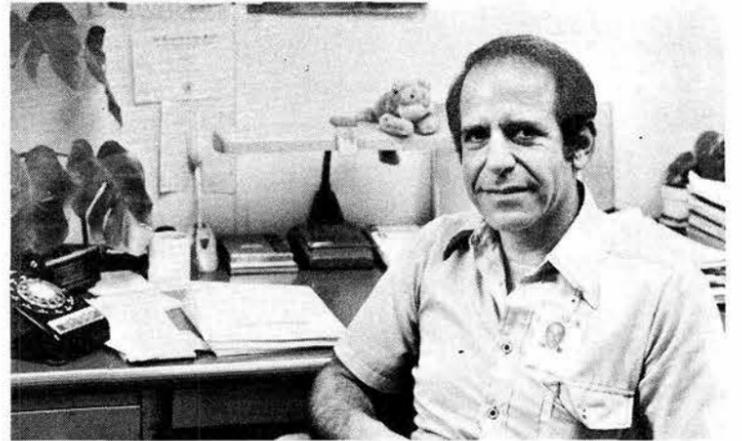


Ice cream shipped in interstate commerce is now checked by the government to make sure that what's inside is listed outside in descending order of importance as required by law. Deceptively labeled ice cream is seized. Under such circumstance, we presume the response of the manufacturers is simple and to the point: "O.K., you guys, cool it!"

**MILEPOSTS**  
**LAB NEWS**  
**AUGUST 1980**



Tony Gabaldon - 3425 30



Ben Bader - 4737 25



Leslie Shope - 2354 25



Vaughn Nogle - 2345 30



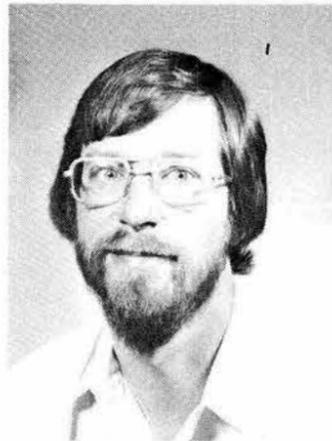
Richard Thompson - 2457 20



James Carmody - 1474 25



David Ryerson - 4733 15



Leonard Hansen - 5133 15



Jean Gaeddert - 3544 25



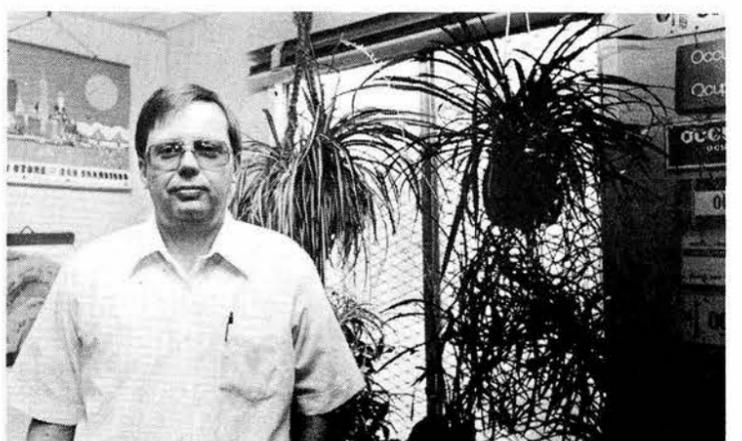
Paul McKay - 4244 10



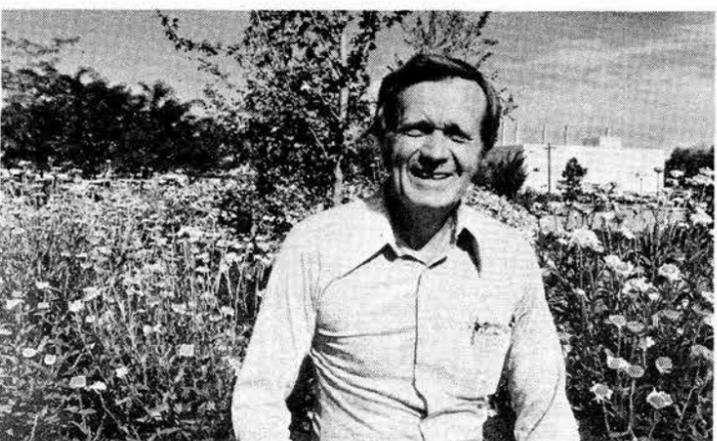
Bill Yates - 3434 30



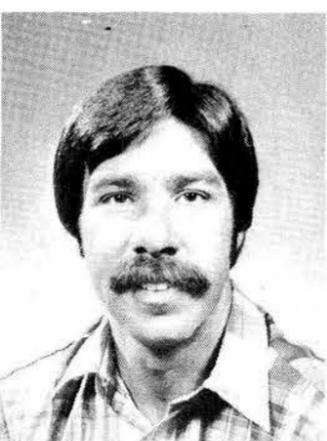
Frank Daut - 2154 30



Bob Luna - 4551 15



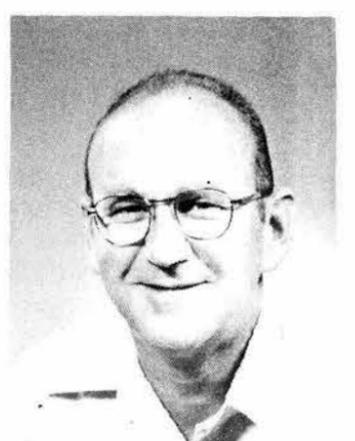
Marvin Ozmun - 2452 30



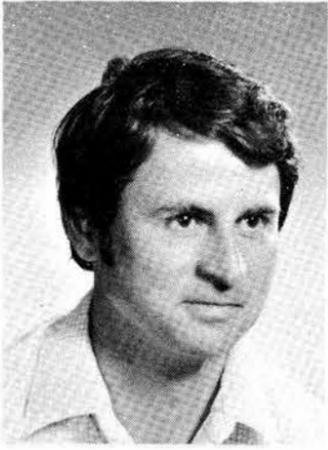
John Lavasek - 4214 10



Don Anderson - 1172 20



George Stone - 1252 20



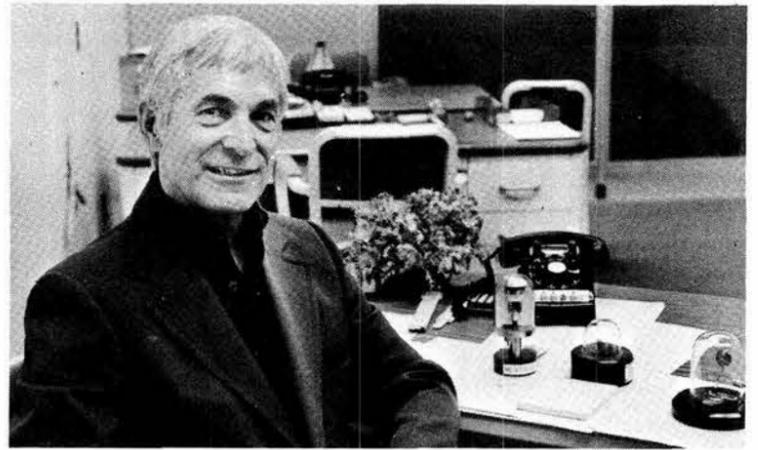
John Curro - 5813 10



Carmel Mares - 1135 25



Gerry Nerton - 8333 20



Paul Syroid - 1414 30



Pete Ortiz - 3618 30



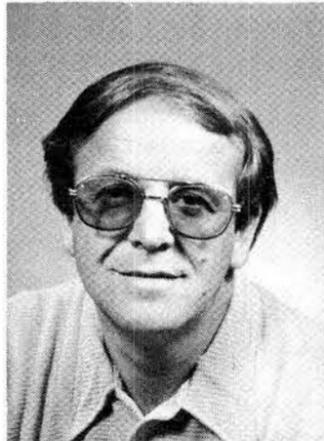
Larry Buxton - 4444 10



Lloyd Barnes - 4322 30



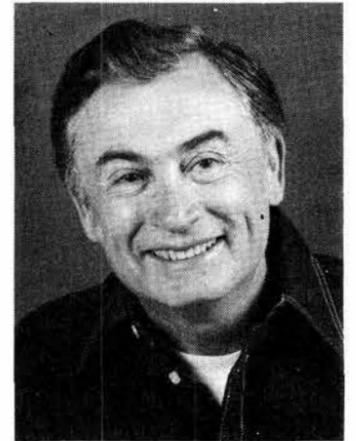
Chester Weaver - 2522 30



Johann Seamen - 4252 10



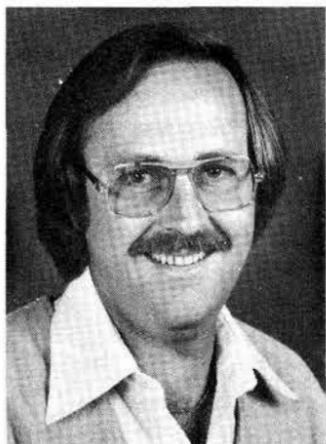
Carl Lundbom - 8273 25



Bill Lavinsky - 8423 15



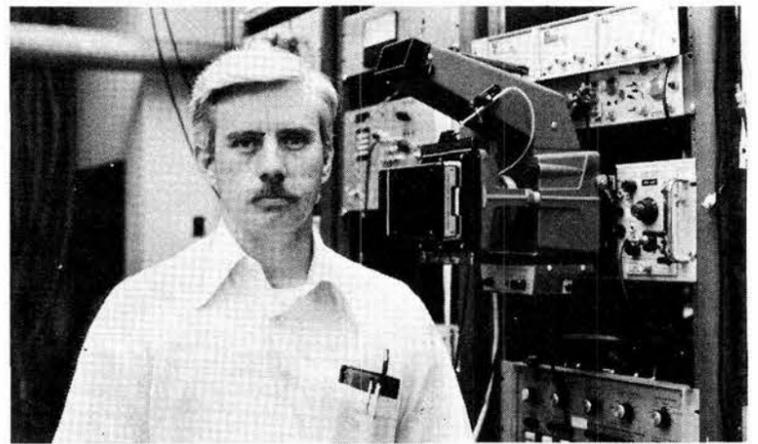
Karen Quock - 8261 20



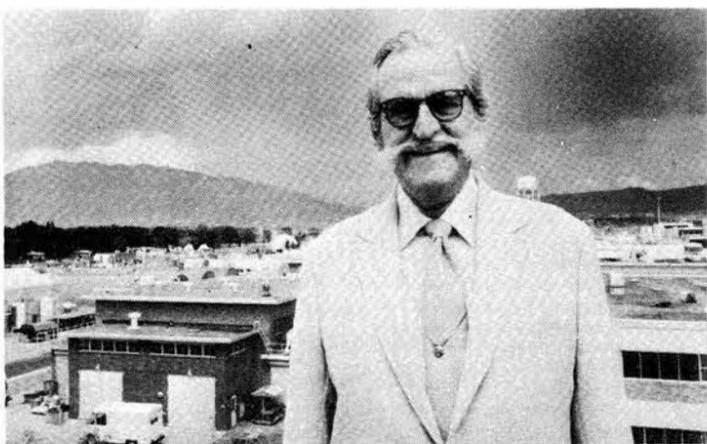
Michael Neuman - 8153 10



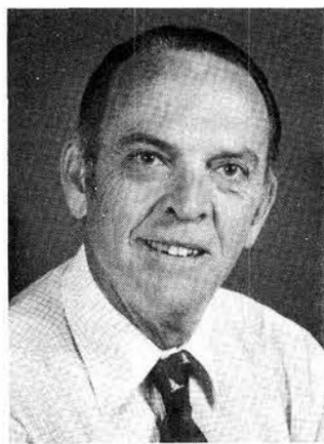
Al Jones - 8116 10



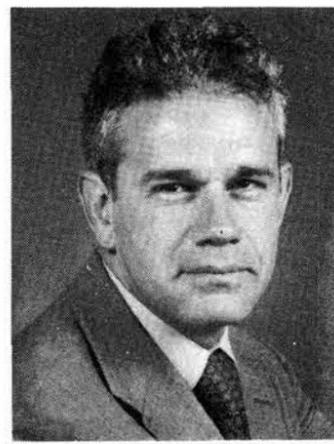
Robert White - 5151 15



Harold Jeblick - 3441 WE 35



Jim Harter - 8254 20



Frank Halasz - 8266 15

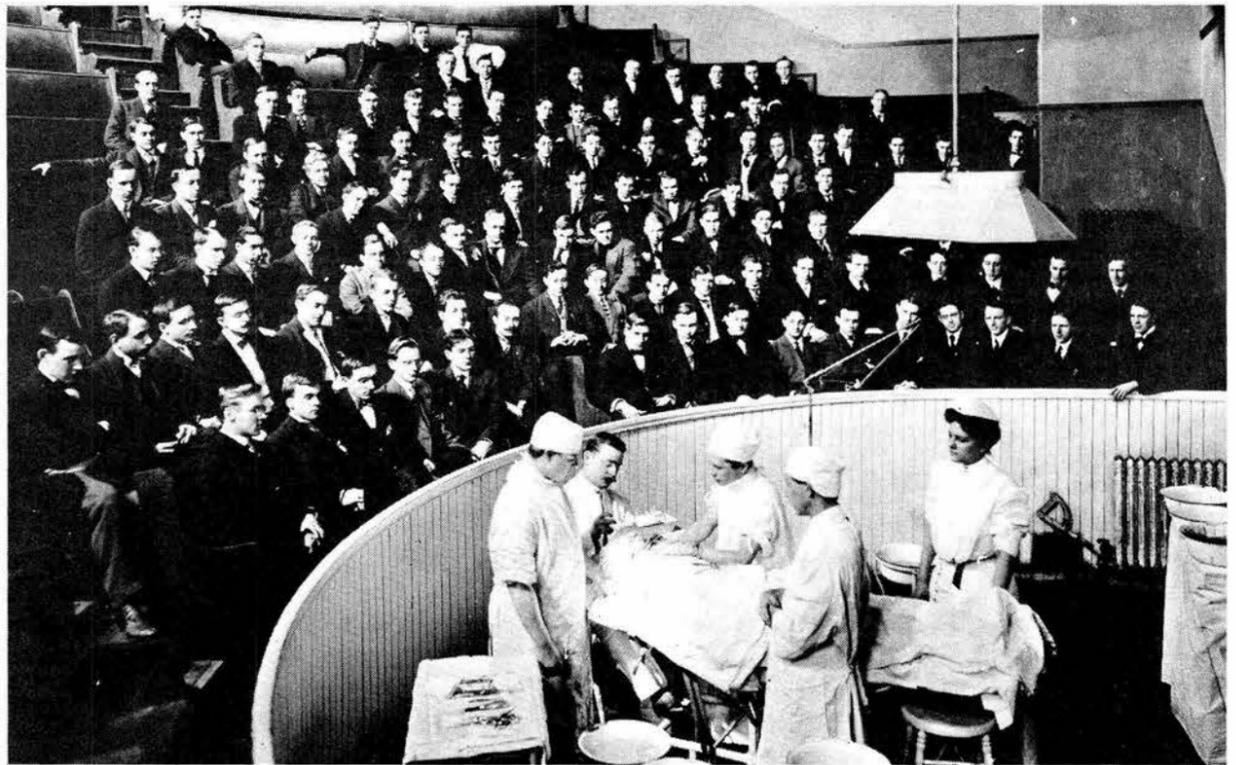


Mike Heiser - 1754 10

# My Favorite Old Photo: Grandad Went To Dental School

[Got an old photo that means a lot to you? Bring it over to LAB NEWS and tell us about it.]

"Don't play cards with strangers on the train," was the admonition my grandfather took with him when he left San Diego, California, to attend the Philadelphia Dental College across the country in Pennsylvania. It was 1907. That's Grandad in the audience—the only one with a white jacket. He liked to recall tea dances in Philadelphia where conversations with the young ladies went something like this: "Well, where are you from?" and Grandad would answer, "Out west . . ." "Oh, Pittsburgh." After dental school, he returned to San Diego and practiced dentistry for many years. He died in 1968. (Ralph Smith—6001)



## JUNK • GOODIES • TRASH • ANTIQUES • KLUNKERS • CREAM PUFFS • HOUSES • HOVELS • LOST • FOUND • WANTED • & THINGS

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Deadline: Friday noon prior to week of publication unless changed by holiday. Mail to: Div. 3162 (M0125).

#### RULES

1. Limit 20 words.
2. One ad per issue per category.
3. Submit in writing. No phone-ins.
4. Use home telephone numbers.
5. For active and retired Sandians and DOE employees.
6. No commercial ads, please.
7. No more than two insertions of same ad.
8. Include name & organization.
9. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

### MISCELLANEOUS

**CAMERA**, Mamiya 645, 1000S w/45, 80 & 210mm lenses, PD-S viewfinder & other accessories, \$1000. Smith, 242-9576.

**RUGER Super Blackhawk w/4X scope**, holster & ammo, \$250; .357 mag. rifle, \$150; 30-30 ammo, \$4. Zamora, 255-1305.

**DRIVEWAY SALE**: scope, amps, elec. parts, bikes, couch, lumber, hardware, misc., Aug. 9-10, Spain to Camino Del Sol, south, follow signs. Switendick, 821-2077.

**PISTOLS**: Browning 9mm auto., \$300; Colt .38 Detective Special, \$200; both include Biancha holsters. Preece, 293-2557.

**COMPUTER ITEMS**: ASC II keyboards, disk drives, S-100 cards & systems. Belding, 294-7443.

**YAMIKA** 12-string guitar; complete MGB clutch assembly, new in boxes; 36" panel door, painted. Martin, 294-0555.

**FIVE apricot color bridesmaid dresses**, never worn. Washington, 292-4788.

**BAY WINDOW**, 3 glass units, 62"x96", best offer, O'Neill, 898-5753.

**BARBELL SET**, 110 lb. w/bench, \$35; ladies' Redwing hiking boots w/ Vibram soles, size 6 1/2 C, used twice, \$35. Davie, 296-3950.

**TI-58 calculator w/PC-100-C printer**, extra battery pack, charger & manuals, 3 rolls thermal printer paper, new \$323.95, sell \$200. Bailey, 299-0184.

**EXECUTIVE secretarial desk**, walnut, \$400. Jones, 296-0114.

**SMALL animal cage**, \$4; View Master, case & reels, \$6; Crissy doll & clothes, \$4; Instamatic camera, \$5. Robertson, 299-7561.

**STORY & CLARK theatre spinet organ** stereo, Leslie speaker, cassette recorder, auto rhythm, auto. bass & accompaniment, percussion, \$2200. Byrd, 294-2103.

**TWO snow tires on wheels**, 15"; garden tools; file cabinets; hand tools; ladders, 24", 8", 6"; & more. Calek, 883-8739.

**ELECTRIC RANGE**, dbl. oven, \$100; dbl. sink, \$10; self-propelled rotary lawn mower, \$20. Boverie, 255-1071.

**FULL SOFA**, converts to queen bed w/Serta mattress, brown naugahyde upholstery, paid \$725, sell \$325, negotiable. Shortencarier, 292-3575.

**ELEC. clothes dryer**, Kenmore HD, white, \$85. Murphy, 881-1520.

**TYPEWRITER**, manual, Royal, std. carriage, elite type, standard size, \$30. Rakoczy, 881-1372.

**MERCURY prop**, 21" pitch, will trade for 17" pitch or sell for \$30. Cordova, 345-0619.

**AUTOTRONIC controls MSD-6A** multiple spark discharge ignition, provision for magnetic triggering, new price \$128.95, sell for \$65. Brooks, 299-1884.

**CARPET**, Castillian red, approx. 7x11; aqua crushed velvet sofa & chair, vintage '40s style. Pickel, 298-6046 Saturdays.

**MOTOCROSS bicycle w/suspension shocks**, \$50; Reese equalizer hitch (used on 16' trailer), \$75; Winchester Mod 75 target .22 rifle, \$150. Krenz, 298-0619.

**HEADBOARD**, king size, dark wood, \$15; tire, used less than 1000 miles, 6.45-13, \$15. Ezell, 821-1768.

**BOY'S 20" hi-rise bike**, \$30; lg. Samsonite suitcase, \$15; bedspreads: Bates dbl. greed/gold; pair royal blue twin; queen floral quilted. Caskey, 296-6372.

**.243 MAUSER**, National Arms model "NATO 60", 4X scope, case, \$175. Stuart, 299-9190.

**MICROPHONE STAND**, black HD base, chrome adjustable height neck, \$20. Holmes, 836-1428.

**GARAGE SALE**: 9-1 p.m., Aug. 9; recliner, kitchen table, girl's 24" bike, lawn mower, paintings, camera, misc., 1312 Espanola NE. Sutherland, 345-1183.

**STEREO**, Zenith, 2 plus 2 matrix, model E743, 4 speakers, \$50. Daphin, 265-4029.

**2 1/2 HP Johnson outboard motor**, \$185. Casey, 292-4204.

**POLYESTER 4-ply Fulda (West German) tire**, unused, size 6.00-15L, fits Volkswagen Beetle & square-back, \$30. Peterson, 298-1235.

**PURE Arabian filly**, 5 mos. old; sire, Bask breeding Dam, Crabett. Ellis, 869-3582.

**PORTABLE 10" color TV**, GE, 1 yr. old, service contract. Mayer, 294-3368.

**PORTABLE 5-cycle Sears Kenmore dishwasher**, harvest gold w/wood butcher block top, used 4 mos., \$200. Vasquez, 898-3005 after 6.

**TECH AREA aerial photos**, 11"x14", \$3.50; 16"x20", mounted, \$12; Sandia Labs caps, \$4.25. LAB NEWS office, MO/125/Bldg. 814.

**8' OPEN ROAD cab-over camper**, jacks & tie-downs, \$800. Pacheco, 831-5891 or 836-5202.

**TWO Big Foot tires**, A60-13 4-ply, mounted on 4-hole International mags w/adaptors & lug nuts, \$75. Baca, 881-4184.

**PIMENTEL classical guitar w/hard-shell case**, \$175. Sheives, 296-9780.

**2 1/2 HP gasoline engine**, horizontal shaft, \$35; 2 750x16 8-ply tires & split rims for Ford 8 hole, \$20 ea.; 3 hydraulic pumps, 2 gear type, 1 vane. Wright, 296-3850.

**MICROSCOPE**, Swift student model, three objectives (4X/10X/40X), retractable, 10X eyepiece, \$125. Reynolds, 881-5148.

**STREET SALE**: two blocks of Marie Park Dr. NE between Menaul & Apache, Aug. 16-17, trash & treasures. Allred, 294-1333.

### TRANSPORTATION

**'79 YAMAHA YZ250F** pro-ported, motocross bike, new tires, \$1350; Moto-X Fox Mono-airshock, \$150. Navratil, 292-3897, 293-5527.

**'76 MERCURY Comet**, 4-dr., AT, 6-cyl., 60,000 miles, 20-22 mpg, \$2600 or offer. Riddle, 877-5939.

**'79 CAPRI GHIA**, 2800 cc, AT, AC, Cruise, tilt wheel, AM-FM stereo, 20 mpg city, \$5400 or best offer. Martin, 294-0555.

**'71 VW convertible**, all original, 43,000 miles, \$4500. Miller, 255-1324.

**'80 BMW320 ci**, AT, AC, AM/FM/cassette, alloy wheels, Perelli's, bug screen, 6000 miles, white/tan, \$16,500. Rodriguez, 294-0403.

**'76 SUZUKI 500GT**, \$800. O'Neill, 898-5753.

**'70 DODGE Dart Swinger**, AC, AT, PS, PB, 80,000 miles, \$875 or make offer. Davie, 296-3950.

**'71 VW Beetle**, 95,000 miles, \$699. Patrick, 822-0703.

**'74 MUSTANG II**, AT, 71,000 miles, new trans. & timing belt, \$1600; Scuba tanks: Scuba Pro twin 45's, valve, pack, \$110. Mattox, 821-3945.

**'78 MERCURY Grand Marquis**, fully loaded, leather seats, chrome wheels, AM-FM-tape, etc., 23,000 miles, \$2000 below book, \$4800 or best offer. Lyngen, 344-4116, 898-6654.

**'66 CORVETTE**, 2 new radial tires, 327 cu. in. Hawkins, 298-6321 after 6.

**'71 CHEVY Chevelle stn. wgn.**, AC, PS, PB, AT, reg. gas. Timmerman, 298-4587.

**'62 T-BIRD**, air, all auto., \$895; convict fish, \$3 per matched pair. Crooks, 296-6182.

**'76 FORD club wgn.**, 8-pass., factory air, cruise control, below book. Kraft, 299-2157.

**'68 CADILLAC Fleetwood Brougham**, leather upholstery, all power, climate control, auto. leveling shock system, \$1000. Brooks, 299-1884.

**'76 CHEVY pickup**, 3-spd., 6 cyl., low mileage, \$2700. Naranjo, 268-9074.

**'69 COUGAR convert.**, 68,000 miles, new top, AT, PB, PS, AC. Schmitt, 884-7882.

**'76 GREMLIN**, low miles, 6-cyl., std. Gear, 298-7914.

**'79 HONDA Express II**, 950 miles, \$340, baskets, helmets negotiable. Blejwas, 294-2057.

**'56 DE SOTA Firedome**, Hemi engine, running condition, partially restored, original owner, make offer. Newton, 884-4953.

**14' ALUMINUM BOAT**, custom cover, swivel seats, 9 1/2 HP Evinrude motor, Dilly Trailer, all accessories, \$1200. Lloyd, 299-4372.

**'75 VOLKSWAGEN Rabbit**, blue, 2-dr., 4-spd., radio, 55,000, \$1700. Butler, 293-7699.

**'78 TRANS VAN**, 1 ton, AT, AC, 17,000 miles, \$6500. Valtierra, 243-5318 after 5.

**'72 FORD pickup**, V8, Auto, AM-FM, AC, auxil. tank, tool box, \$1700. Clark, 869-2569.

**'65 VW bug**, green w/sun roof, 3 yrs. on rebuilt engine., \$850. Jarrell, 293-9671.

**'70 PLYMOUTH Duster**, slant 6, std. trans., new tires, new brakes, 86,000 miles, \$650. Delnick, 294-4670 after 5:30.

**'78 DATSUN GXB210**, blue 2-dr. hatchback, AC, 5-spd., radial tires, wire wheels, 44 mpg highway, \$500 under Blue Book. Gregory, 268-2022.

### REAL ESTATE

**3-BDR. HOUSE**, 2 yrs. old, view, 1860 Celina Rd., Rio Rancho, \$43,900. Gonzales, 897-1567.

**PASSIVE SOLAR** on 2 acres, 1488 sq. ft., 3-bdr., 1 1/2 baths, covered patio, garage w/workshop, N. 217 & Frost Rd. area, \$73,400, may assume 9 1/2 % mortgage. Curtis, 281-3519.

**MOBILE HOME** at Elephant Butte, many extras, 2-car garage, year-round living w/full utilities, \$23,000. Gallo, 296-0112.

**MOBILE HOME**, 3-bdr., 14x70, partially furnished, set up in family park, loan value \$12,050, asking \$11,500. Sylvester, 256-0404 after 4 on 8/9.

**WOODED LOT** in Manzanito subdivision off South 14, electricity, phone lines, good water area, \$5000. Willis, 299-3697.

**2-BDR.**, 1 bath, 1100 sq. ft., low equity, 8 1/4 % city money, curtains, refrig., range/oven stay, W/D hook-up. Fishel, 255-6892.

**LARGE 3-bdr.**, passive solar, earth-sheltered home on 10 1/2 wooded acres adjoining Nat'l. Forest, 23 miles from Base. Ahrens, 281-3920.

**5 ACRE tract** at Antelope Springs sub-division between Moriarty & Estancia, \$5000. Welch, 255-3842 or 266-2074.

### FOR RENT

**CONDOMINIUM**, 2-bdr., study, 1 1/2 bath, pool, avail. 9/1-10/1, 1 yr. lease, \$290/mo. plus util. Switendick, 821-2077.

**FURNISHED HOUSE** Glenwood Hills, 4-bdr., 2 1/2 bath, 2900 sq. ft., 2-car garage, avail. Sept. 1 for 5 month-1 yr., \$500/mo. plus util. Butler, 293-7699.

**3-BDR. home**, 2 yrs. old, NE, landscaped, carpeting & drapes, dbl. garage, covered patio, near bus, lease, no pets, avail. Sept. 1, \$450. Mortensen, 293-3642.

**LARGE modern house**, 3-bdr., den w/fp, fenced yard, garage/workshop, many extras, near Sandia buses, available Sept. Allred, 294-1393.

### WANTED

**TENT TRAILER**, 1000 lbs. or less. Brock, 865-4055.

**16" BICYCLE w/training wheels**. Cook, 296-3064.

**TO RENT CABIN** in the Jemez Mts. in vicinity of La Cueva for 3rd week in Sept. Carne, 296-4219.

**CAMERAS**: Leica, Zeiss Contax & Contarax, stereo cameras & equip. Mattox, 821-3945.

**DATSUN 240Z or 260Z**, prefer car w/serious engine problems. Prevender, 299-5253.

**YAMAHA PIANO**, used, in very good condition. Chu, 294-5912.

**ROOMMATE(s)** to share nice NE home, \$100/mo & share utilities, Eubank/Menaul area, plenty of living space. Cosden, 296-1220.

**LIGHT utility trailer** about 4x8 w/13" tires & springs. Sanchez, 296-8533.

**PERSON** who can crochet well & would like to make extra money, must be kind of fast. Crum, 299-0282.

**BABY SWING w/both infant seat & bassinette type attachments**. Peterson, 298-1235.

**15" WHEEL** for Ford pickup, 5-hole. Hall, 298-8617.

**TRAILER** for hauling, must be small & lt. wt. enough to be pulled by '79 GM (plastic) car. Andersen, 294-8624.

**SWING SET**, good shape, reasonably priced. Jarrell, 293-9671.

### SHARE-A-RIDE

**START or join car pool**, Kachina Hills area, near Menaul & Tramway, to Bldg. T42, 8-4:30. Blejwas, 294-2057.

**RIDERS or car pool** from McIntosh area to Sandia Area I. Ashbaugh, 1-384-2665.

### WORK WANTED

**PAINTING** by experienced UNM Jr., free estimates, hourly rates or firm quotes. Stixrud, 298-0478 or 292-5002.

### LOST AND FOUND

**LOST**—Leather key chain w/key, 4 keys on ring w/cut glass, 2 keys in CU pouch.

**FOUND**—Men's clothing wrapped in plastic w/rubber band, blue ice pack, mirror sunglasses, Kachina doll tie clip, Rx bi-focal glasses, GM key on silver ring, 3 keys in holder or military CU pouch. LOST AND FOUND, Bldg. 814, 844-5677.

# Happy Birthday, Coronado Club

THE CORONADO CLUB was born in the summer of 1950, and that event will be celebrated Saturday, Aug. 23, with a lot of singing and dancing in the 50s' style. Youngblood will be wired into the bandstand for the birthday bash playing the good old songs—you know, the ones where you can understand the words and recognize the melody.

Dinner will be a special production that evening—the kitchen staff wheels out veal a la Oscar—this is veal cooked with crab meat, topped with asparagus spears and mushroom sauce and served with a baked potato, vegetable, soup and salad.

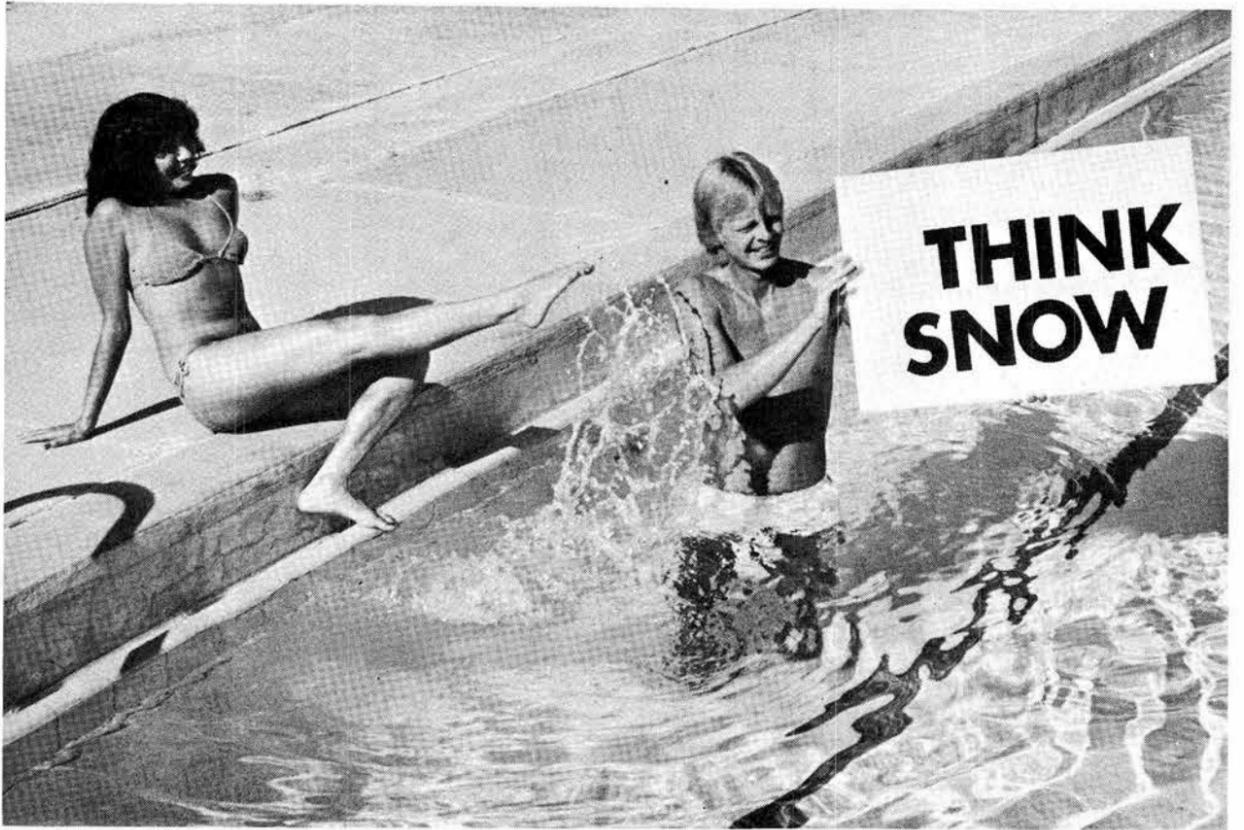
Ah yes, the champagne will flow and there will be a cake with candles. There will be a few memories and somebody might make a speech . . .

"Remember, almost everyone lived on Base. Singles lived in dorms. Held the wedding reception here in the Club. Gad, my kid's wedding reception was held in the Club. How about the old Beachcombers Ball? Remember all the hard-working Club presidents and board members? Big Jim Noonan? The Club has always been two things—a place and a lot of friendly people."

Pick up your tickets (members, \$7.50) by Aug. 16. Join the biggest party in three decades.

HAPPY HOUR tonight features Jeff and Joy Jolly entertaining in the lounge, a group called Together in the ballroom. Breaded veal cutlets tops the buffet menu.

Next Friday, Aug. 15, sees Bob Banks and Trio in the ballroom, Gary Waters in the lounge and an all-you-can-eat fried shrimp buffet in the dining area. Make your reservations early—call 265-6791 by mid-week.



MAKING A SPLASH for the upcoming Coronado Ski Club annual pool party and ski fair are Therese Barela (1723) and Tim Mooney (EG&G/1585). Ski Fair III starts at 4:30 p.m., Tuesday, Aug. 19, features an abundance of equipment displays, ski area reps, movies, the scoop on Ski Club trips and door prizes. Anyone interested in skiing is invited; admission is free.

TEENAGERS should enjoy "Dunn's Dancing Machine" at the teen bash Wednesday, Aug. 13. There will be a lot of door prizes given away and other freaky things are planned. Member parents should pick up tickets for their youngsters.

SKI FAIR III—The Coronado Ski Club is going all out with its annual pool and patio picnic and ski fair extravaganza set for Tuesday, Aug. 19, starting at 4:30. Commercial ski equipment dealers, resort area reps, and other vendor-types will field an abundance of equipment and information displays from 6 to 7:30. At 7:30 the affair moves inside to the ballroom for a presentation of upcoming Ski Club trips, the latest in ski movies and fantastic freebie drawings. Anyone interested in Ski Club membership is invited to attend. Admission is free, and refreshments cost 10 cents. That includes beer and wine.

FIRST ANNUAL C-Club "Fun" Golf Tournament is coming up Aug. 27. Tourney director Ivars Gals (1725) wanted us to plug the event early so that anyone interested could pick up a copy of the rules at the Club office. This is not your standard tournament. The emphasis is on fun, and a number of special features are part of the rules. Tee time is "around noon" at Tijeras Arroyo golf course. Entry fee (includes cocktail party) is \$5, which must be paid at the Club office by 5 p.m. Aug. 22.

QUOTING Travel Director Frank Biggs (4231): "We have a prime-season (Dec. 13-21) air-sea Caribbean cruise package at a price you will never find again. The package includes round-trip air fare to Miami, one week on the T.S.S. Carnivale, eight meals a day while on board ship, transfers, and much more. Ports of call include Samana, Dominican Republic; San Juan, Puerto Rico; St. Croix, Virgin Islands; and Nassau, Bahamas. The price of the package is \$780 per person for the first two people per cabin, \$525 per person



Precursor to the LAB NEWS, the Sandia Bulletin of April 1950 proclaims the good news that the Coronado Club opens soon. Nina Chapman (3531), current C-Club secretary, and Ted Sherwin (3160), first club secretary, are amused by an article Ted wrote about procuring furnishings for the new building. The Club plans a 30-year birthday celebration Aug. 23. Reservations deadline is Aug. 16.

for the third or fourth person per cabin, and \$375 for children 16 and under. We still have a few cabins left. Deposit \$150 per person at the Club office by Aug. 15.

"Don't forget our other trips—Gallup Indian Festival (Aug. 14) for \$26.50, a ruins tour (Aug. 30-Sept. 1) for \$120, Canada (Sept. 25-Oct. 4) for \$941, the Cumbres & Toltec Scenic Railroad excursion (Sept. 27) for \$43, and a Rose Bowl-Parade tour (Dec. 28-Jan. 4) for \$315."

See Frank and Mary Anne in the Club lobby tonight between 6 and 7 for additional details and literature.