



DOUG BALLARD

# Afterthoughts

Not cheap, just frugal--Last night I stopped at one of those fancy ice-cream places and treated myself to a chocolate mint cone, single dip. It was delicious and it was 52¢ and I made a mental note: scratch ice cream cones that cost 52¢. Someone will say "Don't be cheap ... you can afford it!" Sure enough, thanks to Sandia, I can afford it (maybe even the double dip cone), but that's begging the question which, to my mind, is as follows: When does one refuse to buy, not out of economy but out of principle? If I made twice as much, I wouldn't buy (a) a 52¢ cone (b) a \$10,000 Chevy (c) a hotel room costing \$100/night (d) a big city lunch costing \$40/head or (e) an airline ticket where you walk up to the counter and say "Give me a ticket to \_\_\_\_\_," and she hands you a non-excursion, non-apex, non-whoop-de-do ticket that runs about twice what it should.

Frugal Is Beautiful is a good maxim for the times. Whatever our economic circumstance, we should all take a hard look before we buy at value received in the marketplace. I've recently concluded that a 52¢ single dip cone just doesn't give me 52 cents worth of enjoyment.

\* \* \*

Why we run--Time magazine has discovered what it terms "the fitness craze" and in a recent cover story, tells us in a tone of revealed truth the reason we inflict 5-mile runs upon ourselves: to look younger and thereby to make it in business and socially. Well now, I can't speak for the youngsters in their 40s and the children in their 30s, but my contemporaries in their 50s and my friends in their 60s don't run for cosmetic reasons. Better than most, we've learned to equate fitness with good health, physical and mental. True, our running/biking/swimming lacks the élan of the young athlete, but that observation recalls the dog that walks upright on its hind legs--the wonder is not that it does it badly, but rather that it does it at all.

\* \* \*

At Christmas--Two from unknown (to me) sources:

Ignorance is a voluntary misfortune.

Tener amistad vale más que todo.

(To have friendship is better than all else.) \*js

## Dental Plan Benefits Improved

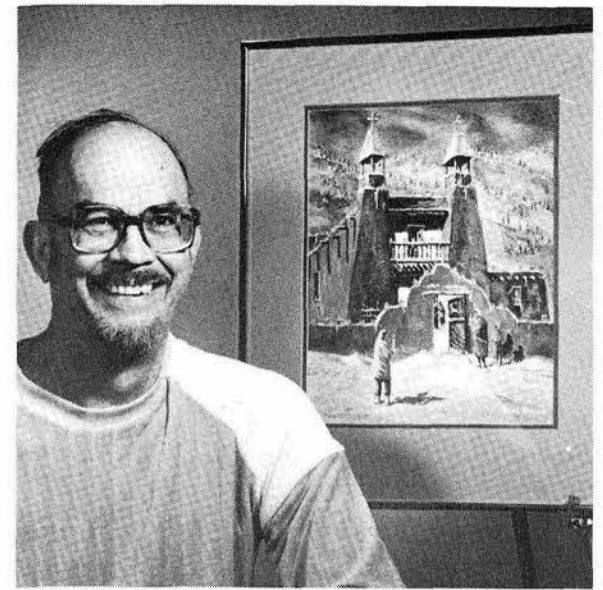
Beginning Jan. 1, Sandia will pay for a greater portion of dental expenses incurred by active and retired employees who are participants in Sandia's Dental Expense plan. The allowance amounts for Type B dental services (such as fillings, bridges, dentures, crowns, extractions and orthodontic treatment) will be increased. These

increased amounts will apply to dental expenses incurred after December 31, 1981.

The increased amounts are contained in the new Type B Dental Services Allowance Schedules which have been developed for all Bell System employee locations. These schedules reflect differences in dental charges by geographic region.

A new schedule of allowances for all areas will be included in the revised Dental Expense Plan booklet, to be distributed in early 1982 to all active and retired employees covered by the Dental Expense Plan.

Sandia pays for coverage under the Dental Expense Plan for all regular, full, and part-time employees with six months of net credited service and for retired employees with at least 15 years of service or, if they retired after August 7, 1977, with at least 10 years of service at age 65. Retired employees who do not meet the above service requirements may continue their dental coverage at retirement by paying the required monthly premiums. Additional information about the plan is available from the Benefits Office in Albuquerque, Division 3543, phone (505) 846-0466, or at Livermore, Division 8216, phone (415) 422-2252.



## Christmas Cover Painting Is Work Of Doug Ballard

The painting of the church at Las Trampas on the cover of this 1981 Christmas issue of LAB NEWS is the work of Doug Ballard, supervisor of Non-destructive Testing Division 1551. Another of Doug's paintings of the same church was chosen by the Easter Seal Society of New Mexico as its Christmas card offering. Purchase of the cards supports the Society's programs for handicapped children and adults.

Largely a self-taught artist, Doug started painting in 1973 and his art quickly progressed from hobby to avocation. Now he paints about 20 hours each week to supply the three galleries which handle his work in Albuquerque, Santa Fe and Taos.

Doug's recent honors include a "Best of Professional" award at the national art show in La Junta, Colo., and being selected as one of the artists contributing to the New Mexico Art League's 1982 calendar, "This Is New Mexico." Fourteen paintings were chosen for reproduction from 900 entries.

## IRS OKs Pension Plan Changes

The Internal Revenue Service has approved the January 1, 1982, split of Sandia's retirement plan into the Retirement Income Plan and the Pension Security Plan as originally announced last April. The IRS has also approved the special increases for eligible prior retirees announced in June. As approved by the IRS, the new pension formulas and the special increases cannot be paid until January 1 when the plans are actually split. Beginning that month, pension payments to eligible retirees will reflect calculations under the new formula. February pension payments will reflect the special increases to eligible prior retirees. The retroactive payments will be made about the same time.

Retirees who are eligible for recalculated pensions and/or special increases will receive letters from Prudential during December and January announcing these changes in their pension payments.



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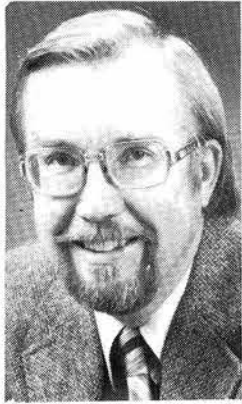
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## Supervisory Appointments



DON NISSEN to supervisor of Materials Development Division 8312, effective Nov. 16.

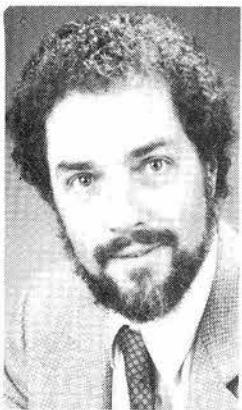
His first job after college was with GE at its Hanford installation. In 1967 he joined Sandia at Albuquerque, working in the thermal battery group. Don and his

family moved in 1977 to Livermore where he joined the exploratory chemistry group.

His education includes a bachelor's degree from the University of Oregon and a PhD from Oregon State in 1964 with a major in physical chemistry.

Don and his wife Sally have two sons and are residents of Pleasanton. Hobbies include racquetball, golf and playing the cello.

\* \* \*



BILL McCLEAN to supervisor of Combustion Chemistry Division 8513 (newly created), effective Nov. 16.

Bill began his career with Aerojet Corporation in Sacramento. Then, after further graduate studies, he joined Lockheed Palo

Alto Research Laboratories in 1972. He was later on the faculty of the School of Mechanical and Aerospace Engineering at Cornell University, serving as an associate professor. Bill came to Sandia Livermore on a sabbatical and, subsequently, joined the Combustion Sciences Department technical staff in mid-1979.

His education was at UC Berkeley where he obtained his bachelor's, master's and PhD in mechanical engineering.

His main pastime is sailing his 27-foot sloop on the Bay. Bill, his wife Suzanne, and two sons reside in Oakland.

## Take Note

Sandians at Livermore contributed 140 pints of blood during a recent Blood Bank drive. Sixty-eight of these pints went to the Kaiser Health Care Plan. Drive coordinator Jim Henderson of Benefits Division 8214 reports that employee participation was one of the highest since inception of the program in 1959.

### Congratulations

Anna Isham (8212) and Joe Furenza, married at Lake Tahoe, Nov. 7.

Sheridan Johnston (8522) and Melissa Youngman, married at Geyserville, Calif., Nov. 7.

Melvin (8411) and Gail LaGasca, a son, Arthur Lamar, Dec. 1, 1981.

Gary Clark (8331) and Lynn Minkler, married Dec. 12 in Livermore.



# SANDIA LIVERMORE NEWS

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SANDIA LIVERMORE was recently visited by national and regional DOE officials. Included in the briefings was a tour of the new Combustion Research Facility. Gathered here, left to right, are Jack Glasy, deputy manager of San Francisco Operations Office/DOE; Joe LaGrone, manager of DOE/SAN; Herman Roser, assistant secretary for defense programs/DOE; George Dacey, Sandia president; Guy Fiske, undersecretary of DOE; Tom Cook, SNLL vice president.

## Heat Losses in Central Receiver Studied

The key to a successful solar central receiver power generating plant is the ability of the receiver to heat the transfer fluid running through its core by insuring maximum use of the concentrated beams of the sun's energy coming from the heliostat (mirror) field.

Sandia has been in the forefront of the development and study of solar central receivers, and an experiment now under way with a large simulated cavity receiver promises to expand our knowledge of convective heat losses from this type of receiver.

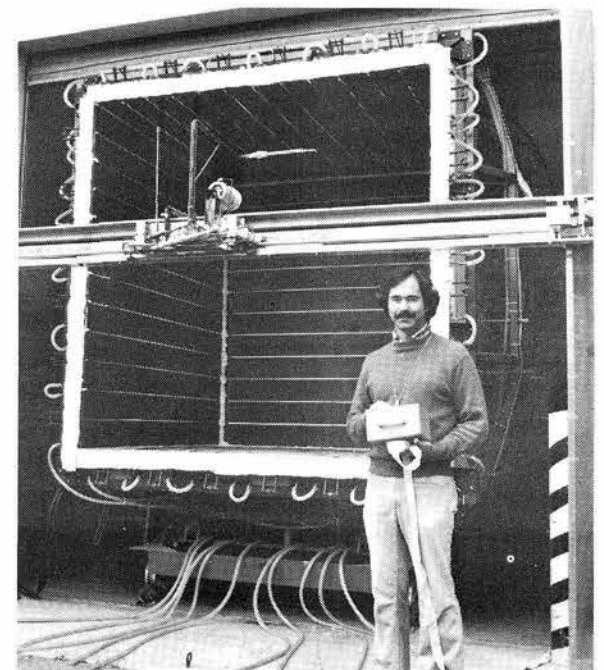
John Kraabel (8124) is conducting the study in what may be the world's largest heat transfer experiment: a cavity receiver is simulated using a cube with 2.2-meter inside dimensions. This is the first study of its kind of heat loss out the front of such a cavity.

The experiment has three goals: (1) to gain understanding of what happens to the air flows inside the cavity; (2) to provide information on convective heat loss to other researchers; and (3) to study different configurations in the cavity opening to aid in more efficient design of future central receivers.

"The importance of this experiment over any others is its high temperature and large scale," John says. "If you look at the governing equations of fluid mechanics and heat transfer, it becomes apparent that it's virtually impossible to get useful results from a scale model experiment of a central receiver."

Results of a year's testing of the large cavity have verified the need for the large size and high temperature. Losses from the large cavity are three times higher than expected and twice as high as the predicted theoretical maximum heat transfer. The reasons for the increases aren't fully understood yet, and further experiments are needed.

The laboratory receiver, lined with Inconel 600 metal sheets, operates at 480 volts and 600 amps, and uses 515 kW of



JOHN KRAABEL (8124) stands before the simulated receiver of a large cavity solar receiver. Control box enables him to move instrumentation checking heat losses to any point within the opening.

power (in one hour it matches what an average household consumes in a month). About 480 kW of heat goes out the front of the cavity receiver, half of it by convection and half by radiation heat loss. Average temperatures on the interior walls of the receiver is 740°C.

Having developed the techniques needed to take measurements and perform data analysis. John has completed the open-end cavity phase of the tests and will now interpret the results. Next step is to construct a lip on the unit, studying how much heat loss is reduced by having a lip at top and bottom, or all the way around.

"An intriguing aspect of experimental work is trying to understand why results don't always match theory," John says. "This experiment has provided a lot of that." Working with him on the project are John Mulligan (8124), construction; Wayne Jacks (8123) programming of the data acquisition system; and Phil Zablocki (8465), set up of the stepping motors on the instrumentation traverse beam.

## South 14 Villagers Get Holiday Boxes

Selling used books as well as caps, T-shirts and windbreakers with the Sandia logo has provided the South Highway 14 Village Project with funds to help families in the villages behind the Manzano Mountains. Now in its 16th year, the Project has a file on some 100 needy families; each Christmas, gift boxes of food and household items are given to a third of the families—the funds won't stretch to cover all of them.

As the accompanying photo reveals, many, if not most of the recipients are persons in their 60s or older. In towns like Manzano, Tajique, Torreon and Chilili, the younger people have moved on to more promising economic horizons. When these old timers die, their villages may go, too, a sad demise for an authentic and historic part of New Mexico.

The South 14 Project is run by several volunteers in Org. 3000 and operates out of the LAB NEWS office.



IN the Centro de Ciudadanos Mayores (Senior Citizens Center) in Manzano, Julian Sanchez (3321) explains the South Highway 14 Village Project. Each year the Project helps needy families in the area.

## Speakers

R. L. Iman (1223), "Sensitivity Analysis for Computer Models Used in Risk Assessment Associated with Geologic Isolation of Radioactive Waste," invited paper, 25th Annual Technical Conference of the Chemical Division, ASQC and the Section of Physical and Engineering Sciences, ASA, Gatlinburg, Tenn., Oct. 29.

G. R. Reif (2522), "In-Process Quality Detection of Friction Welds by Using Acoustic Emission (AE) Techniques," invited speaker, Annual Meeting of the American Welding Research Council for University Research, Cambridge, Mass., Nov. 18.

### Sympathy

To Robert (2153) and Frances Sanchez on the death of their infant son Marcos in Las Lunas, Dec. 8.

To Howard Sanders (2121) on the death of his mother in Duluth, Dec. 7.

## Letter to the Editor

Concerning your criticism of diesels (*Afterthoughts*, Oct. 30), I generally agree with your editorials but not this time. It is true that a lot of people who own diesels don't know how to drive them in city traffic; they operate best under steady driving conditions like on the highway and they should not be driven like dragsters.

However, if we had been driving diesels all along and Mr. Ford came out with his new gasoline engine, it would be rejected by the public because: (1) a premium would be paid for the gasoline engine because of its newer technology, (2) it would get one-third lower mileage, (3) people would know how to drive a diesel car and would see no need for jackrabbit starts, and (4) environmentalists would not tolerate the much higher levels of *invisible* harmful pollutants such as carbon monoxide. We would also have developed ways to

reduce the much less harmful, but visible smoke output.

Diesel fuel can also be bought in every "burg" in the country, but there would be no need to obtain it in Polecat, Wyoming, unless you live there because you can drive from Denver, Colo., to Boise, Idaho, on one tank. I have consistently driven from Albuquerque to Dallas in my '78 Olds Delta 88 without stopping for fuel, with plenty of margin.

I have had this car for 39 months, have 50,000 miles on it, get 29-30 mpg on the highway, 20 in town, and have spent \$163 total for maintenance (oil and filters) and zero for repairs.

Although I like my diesel very much, it is clear that people who consider cars to have only three components: ignition, go pedal and stop pedal, should not have one.

/s/ Charles Karnes—5835

## Shoes For Kids

The Weapons Analysis Directorate 1200 people have been providing money for an annual Christmas project—"Shoes for Kids"—for 24 years. John Covan (1233) and Don Rohr (1212) are co-chairmen for this year's activities.

About 100 kids will be provided with new shoes this year from cash donated by

these Sandians. Kinney Shoe Store on Central gives the group a discount on the cost, and schools in low-income districts select the kids and deliver them to the store for fitting.

"After 24 years," Don says, "I think we can say that our directorate does have a Christmas tradition."

### Vista New Mexico

## Letters Reveal Early New Mexico

Most of us are New Mexicans by choice, not by birth—that is, we moved here from someplace else. Do you remember that sense of strangeness, of isolation you felt at first, but which quickly was relieved by fascination with all the new things to see and do? Today such experiences are mitigated by our foreknowledge of what we are getting into as well as by the relative sameness of most American towns and cities. But what would it have been like to move from the Midwest to New Mexico around the turn of the century?

In 1899, a 16-year-old girl moved from Troy, Ohio, to Roswell in the then Territory of New Mexico. Unhappy at leaving her friends and familiar places, she began, almost immediately upon leaving

Troy, a correspondence with a young man which continued until 1904.

The teenage girl newly arrived in New Mexico was Ruth Kessler (1883-1942) and the letters that she wrote to her friend Rollin have been edited and published by her youngest sister, Margaret Reid, in *Letters from New Mexico, 1899-1904* (Albuquerque: Adobe Press, 1981). Ruth is the grandmother of Lucien Rice (2561), who brought this book to our attention.

The book is a rare glimpse into early 20th-century New Mexico and a vanished way of life. Ruth's letters reveal the transition from being appalled by Roswell ("Oh Rollin, I just know that I cannot stand it to live down here, and papa said today that he is never going back to Troy") to a surprisingly quick acceptance of her new home ("Rollin, I don't know what is the matter with me, for already I am beginning to like Roswell.") From this point, Ruth's letters chronicle the daily life of a society just this side of being "frontier." She takes to the outdoor life with gusto and learns to ride and shoot as well as any cowboy. And there is a rather surprising denouement to her correspondence with Rollin.

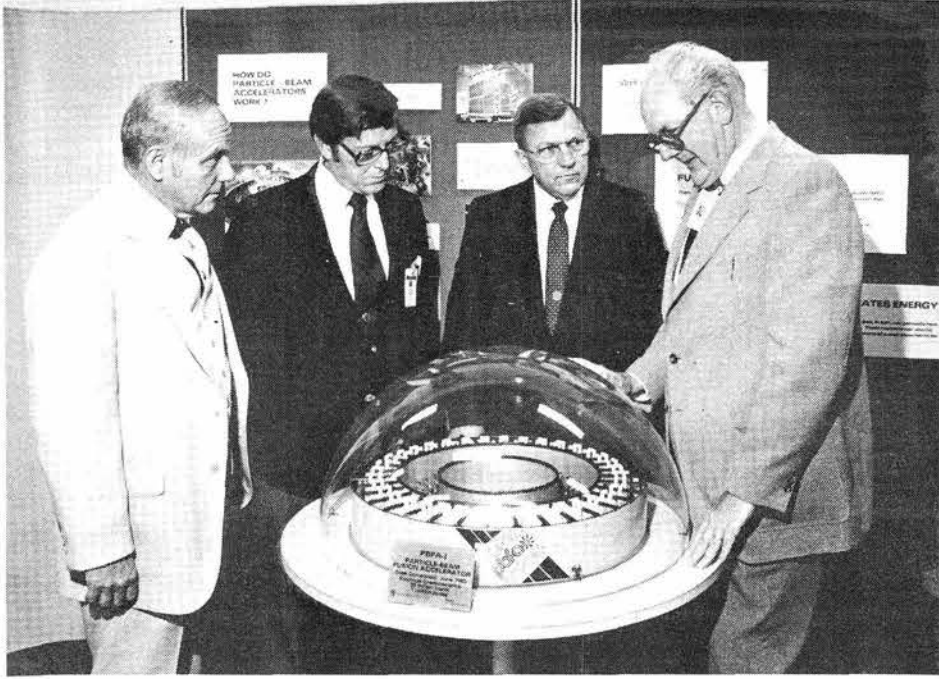
*Letters from New Mexico, 1899-1904* is available at the LAB NEWS office at \$5.95 a copy. Proceeds go to the South Highway 14 Project fund.

### Congratulations

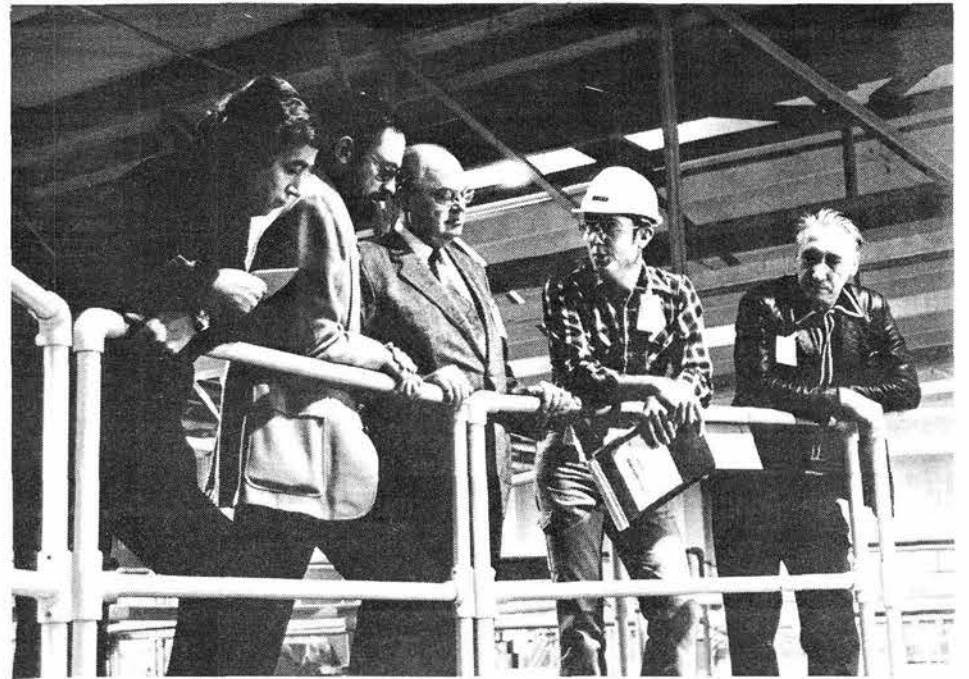
Norm (4753) and Katie Warpinski, a daughter, Margaret Kaye, Sept. 16.

James (2331) and Joyce Caruthers, a daughter, Jennet Christine, Dec. 8.

Allan (4414) and Gail Benjamin, a daughter, Corina Michelle, Dec. 10.



FROM WASHINGTON, Senator Pete Domenici and Secretary of Energy James Edwards came to Sandia to learn about Labs weapon and energy programs. Tom Clark (left), Deputy Manager at ALO, and President Dacey (right) were the hosts and, after briefings, took the visitors on a tour of Labs facilities including here the Particle Beam Fusion Accelerator.



NOBEL LAUREATE Nicolai Basov (center) visited Sandia's Particle Beam Fusion Accelerator recently with two colleagues, Yuri Afanasiev (left) and Gleb Sklizkov (right). Gerry Yonas (second from left), director of Pulsed Energy Programs 4200, was their host. Bob Turman (4252) is explaining PBFA operation. The Russian scientists work at the Lebedev Institute in Moscow, performing laser fusion research.

## Take Note

Does it pay to take first aid and the CPR courses? Ray Lucero (3618) thinks so. Eight-year-old Jennifer Lynn, his daughter, accompanied him to the store where she began to eat some candy. Suddenly, Ray noticed her strange behavior—agitated but no vocal sounds—and concluded she wasn't able to breathe. So he turned her around and applied the Heimlich maneuver. First time, nothing. Second time, POP! and out came the offending candy which had lodged in her windpipe. Ray recalls that he had picked up the technique from one of Sandia Safety's films on the subject.

\* \* \*

Bud Wimber (2334) has been elected Gyro Committee Chairman of the IEEE Gyro & Accelerometer Panel. The Panel, a working group from private industry and government, is responsible for writing standard tests specs and test procedures for state-of-the-art gyros and accelerometers.

\* \* \*

QA Dept. 1420 really has its act together for its annual Christmas party. Ruth Ronan (1423) informs us that the party program includes piano music by four department people for the cocktail hour, singing by a 1420 male quartet, guitar and mandolin selections, a piano soloist, several vocalists, skits "by members and spouses," and it's all home grown, even to the piano. Ruth says the format has produced the highest turnout ever of department people.

\* \* \*

Sanado Women's Club meets Tuesday, Jan. 12, at the NCO Club East. Kerwin Hallowwa, attorney, will discuss legal problems women encounter through death of a spouse or divorce. Social time starts at 12:30, luncheon at 1, and the program at 1:30. Make reservations with Carolyn Hermanson, 266-9927, or Maurine Romme, 299-8765, by Jan. 6.

Dwight Miller (1223) received the Best Student Paper Award from the Human Factors Society at its recent annual meeting. The presentation and paper, published in the conference proceedings, described research completed while Dwight was in a graduate experimental psychology program at Ohio State. The paper, "The Depth/Breadth Tragedy in Hierarchical Computer Menus," was selected as unanimous winner from 35 entries.

\* \* \*

Teller service only, no loans, will be available at the Credit Union during the holidays. And the main office, on Base, will be closed from the 25th until the 4th. The Wyoming/Candelaria office will be open Dec. 28-30 from 9 to 4:30, Dec. 31 from 9 to 2. The Livermore office will be open Dec. 28-31 from 9 to 12 noon.

\* \* \*

The Que Pasa Rec Center has a new twist: Chef's Night, wherein amateur chefs do their thing before the assembled gourmets. Coming up (no pun) Dec. 30, C. J. Jones demonstrates his prize cheese and broccoli dish. Festivities start at 7:30 and if you want to be a chef-of-the-night, call 4-5420.

\* \* \*

Julia Gabaldon (3163) sends us a note about her KABQ program *Somos Bilingües*. Tomorrow, Dec. 19, from 8 to 10 a.m., the program features Rowena Romero who will discuss Christmas customs. She'll be followed by Christmas songs by students from Manzano Day School. On Sunday, Dec. 20, 8:30 a.m., Channel 7, the program presents "Las Posadas" with Garfield Middle School students.

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Joseph Tribble, Assistant Secretary for Conservation & Renewable Energy for the Department of Energy, was a visitor to the Labs last week. After a briefing by Al

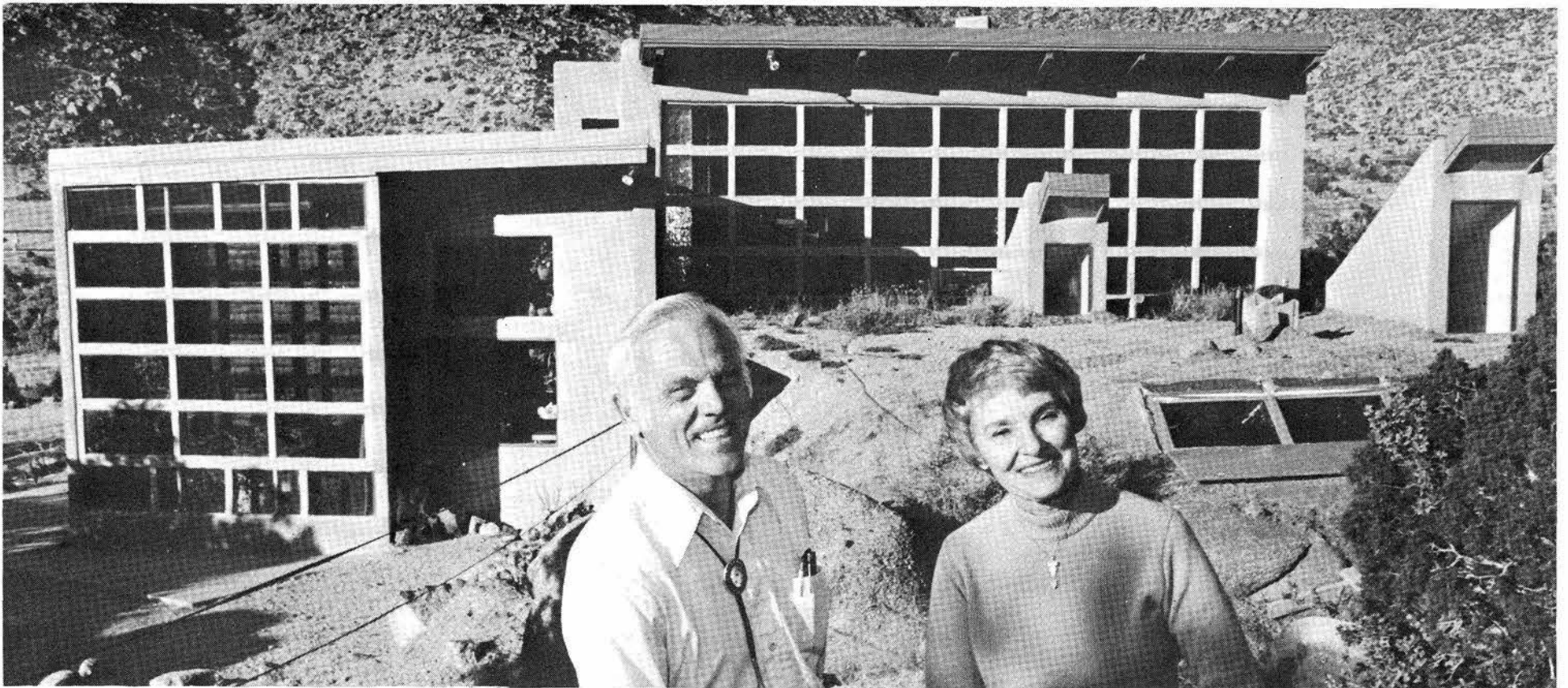
Narath, VP-4000, Mr. Tribble learned about Sandia's geothermal, wind energy and photovoltaics programs and later toured energy-related facilities.

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DOE has awarded Frank Biggs (4231) its Certificate of Appreciation "For innovative and unflagging efforts which were essential for the successful introduction of solar thermal trough technology as an alternative energy source . . ." The accompanying letter notes that the efforts of Sandia Labs have enabled industry ". . . to confidently pursue further development of parabolic trough systems," and it concludes, "Thank you for a job well done."



LAB NEWS searched the Labs for the Christmas spirit and we found it: a gingerbread house with plaque—"Santa's Workshop." Mary Ellen Puckett (2141) insists it was not a Computer Aided Design (CAD), just something she and her sister Linda picked up from *Good Housekeeping*. We think Mary Ellen should consider the construction business.



TWO TROMBE WALLS with four feet of greenhouse space on the south side back of the house provide heating for Mac and Doris McCampbell's 1800-sq.-ft. solar house in Tijeras Canyon. At right, partially buried in an insulated box, is

a solar hot water heater. Small structures over underground bedroom and workshop are skylights which face south. They are more efficient than standard units since not as much heat loss is radiated at night.

### In Tijeras Canyon

## Mac McCampbell Builds Solar House

Mac McCampbell, manager of Electronic Technology Department 2150, and his wife Doris Steider, one of New Mexico's foremost artists, moved into their passive solar home last December. Imbedded in the mountain rock of Tijeras Canyon south of I-40, the house provides sweeping views of both the mountains and the city.

Mac and Doris spent six months designing the house—she did the architectural design while he did the engineering and solar system design. The result is an attractive, 1800-sq.-ft. Southwestern style house, tailored to the needs of a busy, home-centered couple. Doris' large and bright studio, illuminated by north light, is an inviting place in which to work. It commands a view of the Sandias and contains ample storage areas. The walls

display her paintings. An alcove with a built-in bed and sliding doors converts the studio into a guest room.

Mac's workshop with his power tools is in the basement behind the underground master bedroom. The bedroom, workshop and part of the garage were blasted out of the mountain's rock below the floor level of the rest of the house. Mac fired the charges himself.

"There was a reason for putting the bedroom underground," Mac explains. "It never gets below earth temperature—about 65 degrees at our house site."

The solar heating system consists of two Trombe walls of slump rock, painted black and located four feet behind glass walls. This space they call the "sun room" and the "greenhouse," and the areas provide both storage and access to panels of one-inch polyurethane foam, rated R8, which Mac slips into slots each winter night behind the glass.

Heat from the Trombe walls radiates into the interior of the house. Heated air from the greenhouse is drawn by two fans through cinder blocks (the holes in the blocks are aligned for air flow) under the floor to circulate through the house, then return to the greenhouse area to be heated again. The sun room heats the bedroom and workshop. The sub-floor cinder blocks are covered with a thin sheet of steel to provide a base for a one-inch layer of sand which supports brick floors—a large thermal mass.

Except for the windows on the Trombe walls, the entire house is insulated with two and a half inches of polyurethane foam with three and a half inches on the roof. The windows are double glazed and, at night, fabric-covered foam panels slide into place to tightly seal them off. In the underground bedroom, the west wall includes a section of windows overlooking the city. At night, hinged foam panels

unfold from the ceiling to fit into the window frames.

Entrance into the house is through an "air-lock"—the outside and inside doors are never opened at the same time.

"There is no auxiliary furnace," Mac says. "I figure last winter's heat cost me \$15 above my regular electricity bills to run the two half-horsepower motors for the fans."

Mac also built a solar hot water heater which is enclosed in an insulated box partially buried on the south side of his house. Two standard hot water tanks, painted black and surrounded with reflective surfaces inside the box, collect enough heat during the day to bring the water temperature up to 110° before it enters a regular hot water heater inside the house. At night, Mac closes the lid to the box to seal it.

"My electricity bill averages less than \$40 a month," Mac says. "We use no gas or propane. We have been very comfortable. Even our tropical parrot likes it and she gets very uncomfortable if the house temperature drops below 70 degrees."

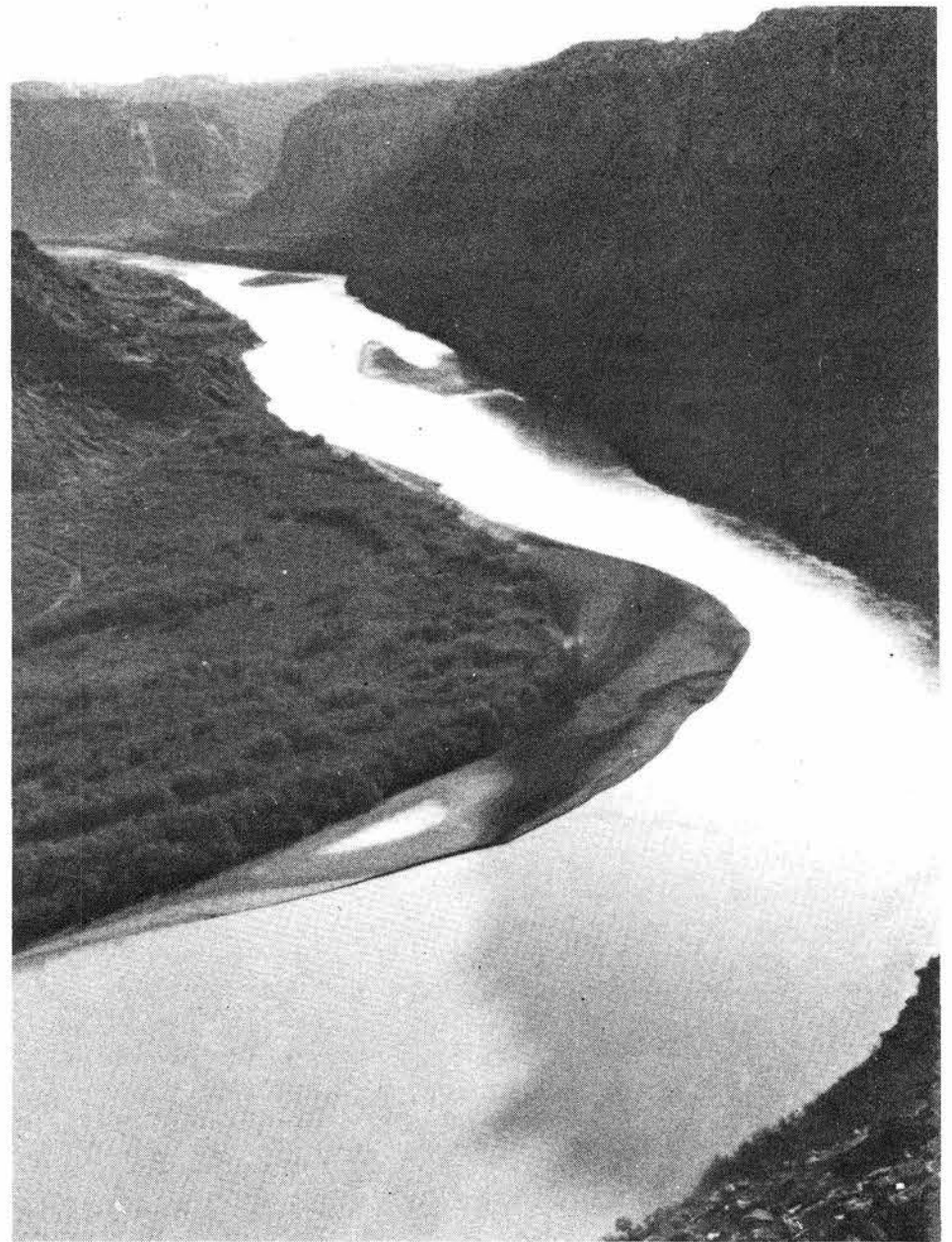
If this happens (and it hasn't yet), Mac can fire up his steel, glass-enclosed fireplace which draws outside air for combustion. The fireplace fan circulates interior air around the firebox and back into the house. Mac burns wood left over from construction, and an ample supply remains for this winter.

"We spent a lot of time researching, talking with people and thinking about the house before we started the drawings," Doris says. "During construction, the contractor's foreman quit so Mac took over the job—an advantage since he paid attention to details, especially maintaining tight seals. To us, the best part of the house is the look and feel of living here—it's a happy place."

The area wildlife agree—squirrels and rabbits inhabit the surrounding rocks while the bird feeder attracts a constant parade.



IN UNDERGROUND BEDROOM, Mac McCampbell drops hinged foam panels from the ceiling to seal windows. Most windows in the house can be covered at night with folding or sliding fabric-covered foam panels. They were designed by Doris' son Tim.



**Unusual Vacation**

**Down The Green, By Canoe**

VIEWS of the Green—the river meanders southward, joining with the Colorado in Canyonlands National Park (Utah). Hal Baxter's (4726) photos show a variety of terrain, including a sand bar camping site. Machinery dates from earlier mining operation, one of many in the area. Since the river is placid, the basket-case boat on the rocks probably died of natural causes.

The Indians called it the Seedskeedee and, in the 1830s, the first mountain men came and trapped for beaver along its tributaries and headwaters on the western edge of what is now Wyoming. The river flows south through Flaming Gorge, through Dinosaur, then into the jumbled and primeval canyons and mesas of south-eastern Utah.

Now it's called the Green River and, among aficionados of river running, to do the Green from where it passes through the small town of Green River down to its confluence with the Colorado River—a straight-line distance of perhaps 60 miles—is high on everyone's list. Hal Baxter, an engineer in Photovoltaic System Applications Division 4726, is the latest in a growing number of Sandians who have done the Green.

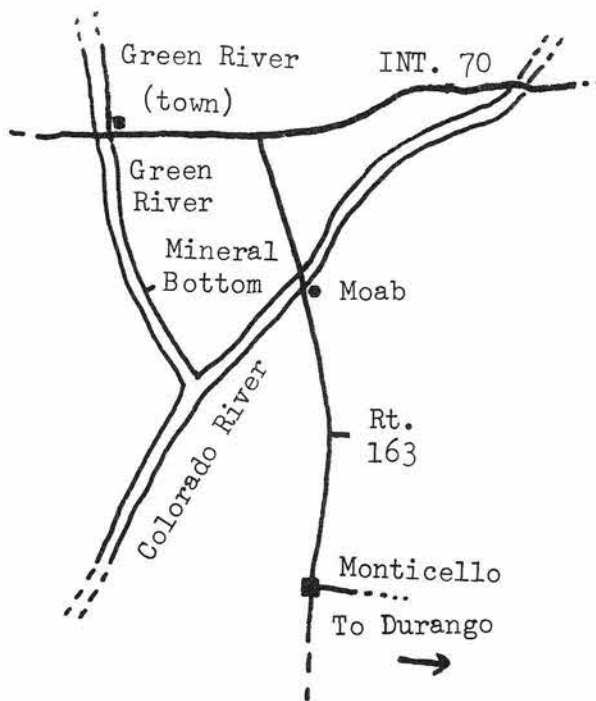
What's it like?

"It's a float trip, really," says Hal. "No whitewater, so it's ideal for canoes. The current moves maybe two or three miles per hour . . . you do a little paddling to control the boat. Most places you can touch bottom with the paddle . . . some places you can run aground.

"The water is as brown as a plowed field and has about as much dirt in it. You can drink it if you're willing to wait for the silt to settle, but we carried our water.

"Great camp sites—frequently on sand bars—and spectacular scenery. All those pastel cliffs, changing colors as the sun crosses the blue sky. Our party of three boats had the river to ourselves for the four days.

"We took out at Mineral Bottom, upstream from the confluence, because that's the last place you can get into with a vehicle—a four-wheel drive vehicle. Other-

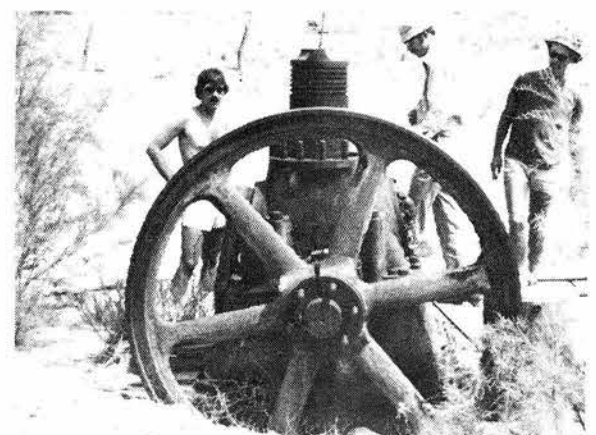
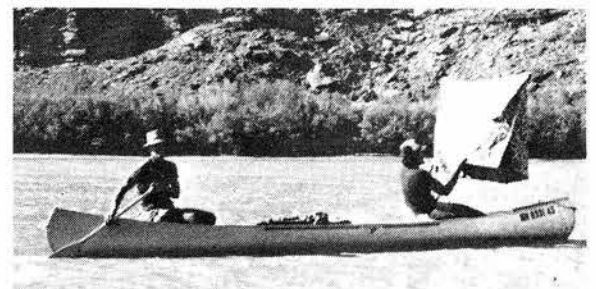


GREEN RIVER and the Colorado meet in south-eastern Utah. Locale is near Canyonlands and Arches National Parks.

wise, if you go to the confluence, you have to arrange for a powerboat in Moab to come and get you. That's expensive."

\* \* \*

*Logistics*—Note the map. One of the complexities of river running is the need for transportation at two locations: where you put the boat in the water and where you take it out. Hal's group put in at Green River, Utah, having previously left a vehicle at Mineral Bottom which he got to via an "interesting" dirt road out of Moab. Of course, once they got out of the river, they then had to return to Green River to pick up the other vehicle. Temperatures in September, when Hall was on the river, were pleasant—in the 70s and 80s. •js



## St. Jude Express Aids Tarahumara Indians

Although St. Jude is the patron saint of lost causes, he is more like a year-round St. Nicholas to the Tarahumara Indians of Chihuahua in northern Mexico. And Santa's gift-laden sleigh appears to them in the form of the St. Jude Express, a Piper Cherokee loaded with medicines, powdered milk, and other desperately needed supplies.

The St. Jude Express—nondenominational, charitable, and based in Albuquerque—supports missions in the southwest United States and northern Mexico. Recently we talked with Sandians active in the Express—José Chavez (3421), Larry Chavez (3741-2), Bob Dawirs (1312), Greg Donohoe (1738), Glenn Elliott (1738), and Walt Henderson (1738).

"The St. Jude Express was founded by Ed Young almost 15 years ago," Walt tells us. "The Tarahumaras became his special project after he landed his private plane in Tarahumara country and was moved by their desperate poverty. Nearly 50,000 Tarahumaras live in isolated communities scattered among the rugged mountains. Centuries ago they retreated to these inaccessible areas to avoid Spanish control and they've preserved their language and unique culture. In the process, however, the Tarahumaras have been cut off from modern civilization. The only way to reach many of their *ranchos*, or mountain communities, is by air, and many landing strips are little better than dirt paths on mountainsides.

"I remember flying to a *ranchito* called Barborigame. Greg and I were taking supplies to a small mission run by three nuns. As I braked to a stop, a bunch of teenagers with machine guns sprang up from the bushes and surrounded us. They were *federales* who said they were looking for smugglers. One of the soldiers found our powdered milk—'Ah, *cocaína*, he said. No, no, we protested—it's milk, go ahead, taste it, we told him. He declined the offer but we finally convinced him—if Greg hadn't been there to translate, I might still be down there explaining about the powdered milk. Finally, a 21-year-old lieutenant commandeered a passing truck and drove Greg up to the nuns' mission to deliver the supplies.



ON A ROUGH LANDING STRIP in northern Mexico (near Creel), supplies are unloaded from the St. Jude Express aircraft by Greg Donohoe (1738), a Jesuit who runs the local mission and clinic, and two Tarahumaras. Greg tells us the wheelbarrow is made using landing gear from a crashed plane.

Walt was left alone with the teenage soldiers. After a while, Greg returned (the soldiers had "accepted" some supplies for their use): "We just left, even though they never really told us we could go—but the soldiers all waved as we took off, so I guess it was all right," says Walt.

Such experiences are the exception, though. St. Jude flies into the Tarahumara country and other points in northern Mexico on the average of once a month. "One of our members, Charles Cullen, is a dentist and he flies down once a year for a week," says Greg. "The first time, in Sisoguichi, he pulled over 440 teeth. We call him our practicing neurosurgeon since he's also called upon to do medical work. Once he treated an Indian who'd been injured in a hatchet fight—his skull was crushed in several places, but he survived.

"The Tarahumaras eat so many roots that most adults have worn their teeth down to the gums. When something is wrong, they generally ignore it, thinking it'll go away. When the condition persists, they go to a *curandero*, or medicine man,

and when that doesn't work, they walk four or five days to the nearest clinic—by that time, they're in pretty bad shape. One Tarahumara had been fishing with dynamite and blew both his hands off. He walked several days to Sisoguichi from where we flew him to Chihuahua City where the surgery was performed."

St. Jude Express also owns a maxivan which makes runs to Juárez, the Navajo Reservation at Chinle, Las Cruces, and other places. "Every Christmas Eve we make a run to Juárez," says José. "We go to the poor areas, the *colonias*, where people live in caves and cardboard shacks. We're asked sometimes why we don't take care of our own poor first—but there's a difference between poverty and destitution. Americans can't imagine some of the conditions existing in certain parts of Juárez. Anyway, we're not concerned with the politics of the matter—we're reaching out to fellow human beings in need and it doesn't matter on which side of the border they are."

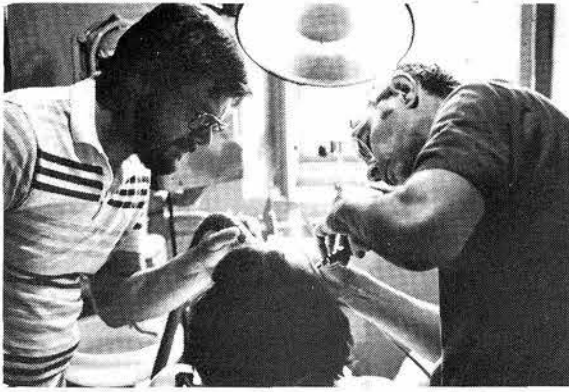
At times, politics can rudely intrude: "Once, while we were distributing food and clothing in a Juárez *colonia*, police cars suddenly surrounded us. The cops came out waving pistols and shotguns, accused us of smuggling, and made us unload everything. Our Mexican guide got mad and told them he'd call some influential people he knew. Evidently he did because the next day the incident was big news in the Juárez newspapers and TV. Four policemen were fired as a result.

"On another occasion, we crossed the international bridge and the Mexican customs wouldn't let us through," continues José. "So we turned back and U.S. customs thought we were trying to smuggle stuff, so they wouldn't let us back in the U.S. There we were, men without a country, stuck in the middle of the bridge with traffic speeding back and forth. Finally, we managed to talk the Mexican into allowing us in."



TARAHUMARAS IN THEIR finery celebrate the dedication of a new cathedral in Sisoguichi in September 1979. The bishop gets around to his parishes in a Piper Cherokee. Note the homemade fiddles.





ALBUQUERQUE DENTIST Charles Cullen works on a patient in Sisoguichi with Greg assisting. Equipment was donated by Dr. Cullen.

"But once the Mexican officials know who we are and what we're doing, they're usually very cooperative," says Larry. "Our plane now flies directly to Chihuahua, whereas before we had to stop at Juárez customs first. And the customs people in Chihuahua know us very well and are always happy to see us."

"There are truly dedicated people, both American and Mexican, who know of our work and help us," says Glenn. "Since the Mexican government pays their tuition, doctors have to give a year of public service after they finish medical school. But many of the remote clinics they're sent to are not adequately supplied with equipment or medicines, and most young doctors are quickly discouraged. But many are moved by the plight of the Tarahumaras and other disadvantaged peoples and stay on after their obligatory year. We've worked closely with Dr. Fructuoso Irigoyen Rascón who spent six years among the Indians, and now teaches at the University of Chihuahua medical school preparing other young doctors to work with the Indians. And in Juárez, St. Jude has built a clinic and a school—the university medical school furnished doctors and we supply medicines."

Greg recalls the time they took a TV crew from Albuquerque to Sisoguichi: "We had to get permission from *Gobernación*—Mexico's Interior Dept. They sent this dapper young fellow from Mexico City—a typical Mr. State Dept.—to meet us at the Chihuahua airport. There he was in his tailored suit and shiny shoes waiting to go to Tarahumara country. The first thing we saw on landing was a funeral procession carrying a three-foot-long casket. By the end of the day, this bureaucrat was literally in tears because he'd never realized that such conditions existed in any part of Mexico. And that points up the problem of the Tarahumaras and other such peoples—not only in Mexico but also in the U.S. and throughout the world. They're victims of their own isolation and of low priorities."

The St. Jude Express has over 700 individual contributors all over the U.S. and Canada—their sole source of funds. A personal contribution can be arranged by calling any member; a monetary donation can be made out in the name of St. Jude Express, Inc., and sent to p.o. Box 5333, Albuquerque, N.M. 87185. And for organizations—churches, clubs, etc.—that would like to know more about the work of St. Jude Express, there is a slide show available.

*Natétaraba* is "thank you" in the Tarahumara language—a word the St. Jude volunteers hear as often as *gracias*.

## feedback

*Q. Why does general stores use so much expensive strapping tape on the orders they send to us? They wrap each order as though it were being sent to the other side of the world.*

A. Your comments in regard to the excessive use of strapping tape by Stores is timely since our present delivery system is in the process of being reviewed. We agree with your comment that strapping tape is expensive and should not be used for all orders, depending upon the weight, size, etc., of the particular order involved. The stockkeepers will be instructed to use the proper, necessary taping, stapling, or tying as required by each individual order.

Thank you for your interest in bringing this matter to our attention.

J. C. Strassel—3700

*Q. I attend out-of-hours classes at Sandia. What's the policy on smoking in classrooms?*

A. Effective immediately, smoking will not be permitted in any classrooms or laboratories under the direct control of the Education & Training Department 3520. Instructors teaching at our request, but in areas not controlled by us, will be asked to adopt this policy. "No Smoking" signs will be posted in our class areas as soon as they are available. However, we should all recognize that some instructors will follow our guidelines, while others will not.

J. R. Garcia—3500

*Q. I like to keep a tab on the approximate number of shares of ATT stock purchased each month by BSSP. Can you tell me about when each month the units are bought?*

A. All participants in the Bell System Savings Plan participate in an assets fund and not an individual purchase plan. The interest of an employee in each type of investment is represented by units. Units are credited to the participant's account at the end of the month following the month of payroll deduction; however, the payroll deductions remitted by Sandia are invested as soon as they are received by Bankers Trust.

J. R. Garcia—3500

*Q. Our office gets many phone calls from people on the outside who have tried, to no avail, to reach the Sandia locator's number without success. [We are also listed in the city directory, along with the locator and several other Labs numbers.]*

*More often than not, we are told—usually by very frustrated individuals—that they have tried to reach the locator for a very long period of time [not for minutes, but usually for hours], with only a resultant "busy" signal or a recorded message to show for their efforts. We accommodate their requests for employees' phone numbers by checking our directory*

*and giving them the requested information, but can't a better system be developed?*

A. In the past, our locator services were performed by Personnel Division 3533. Sandia receives 150-180 calls per day and, with only one line available, callers were often forced to call back.

Currently, telephone locator services are being performed under contract by two employees of Career Services for the Handicapped during normal working hours. The reception area in Personnel Bldg. 832 will be soon renovated to provide a working location for the locator function and equipment will be installed to handle all calls efficiently.

With these changes, we hope to improve the quality of our telephone locator services.

J. R. Garcia—3500

*Q. Can anything be done about people who insist on smoking cigars or pipes in crowded offices? One co-worker in my office couldn't care less how many other employees are annoyed by his cigar smoke.*

A. Sandia has no formal policy regarding smoking in work areas. This is a very difficult subject as no one work area is like another. Our Environmental Health Department has investigated a number of complaints regarding smoking, and they have never found any concentration of pollutants sufficient to label the problem as a "health hazard." However, the other aspect of the problem is the irritation that smoking can have on fellow workers, especially where cigar smoke is involved. While I personally do not feel that a ban on cigar smoking in most offices is unreasonable, I do believe this is a decision for the supervisory people in that area, and I would refer the matter to them.

Paul B Mossman, M.D.—3300

*Q. What are the possibilities of a bike path through the Ridgecrest gate similar to that on the Los Altos overpass—basically, a slit in the fence just wide enough for a rider to push his bike through.*

A. The possibility of a bike gate in or near the main Zia Park gate (Ridgecrest) has been a topic of discussion since the main Ridgecrest gate was closed. We again presented arguments for the gate with both Base safety and security. Their answer remains "no" because, they say, it is Base policy to have no perimeter openings without Air Police attendance. The AF went on to state that it does not have the manpower to man such a gate even on a part-time, rush-hour basis. We believe this is about as far as we (Security) can go with your suggestion at this time. Perhaps this is a matter the Sandia bicycle association could pursue through its contacts. In any case, we are forwarding a copy of your Feedback and our response to that organization.

D. S. Tarbox—3400

## Fun & Games

**Vacations**—We checked our "Vacation Rentals" binder recently and found therein summary sheets on 18 condos, motor homes, cabins and the like in places like Taos, Purgatory, Hawaii, the Jemez and northern California. The binder can be reviewed in the LAB NEWS office (trailer next to Bldg. 814). More listings are desirable—you don't have to be Sandia employee to list your place. (But no purely commercial ventures, please.)

\* \* \*

**Table tennis**—A singles/doubles table tennis tournament is scheduled for Saturday, Jan. 16, at Monroe Junior High (Louisiana and Indian School), starting at 1 p.m. Play is limited to the first 40 to sign up, and the \$4 fee is payable in advance. Tournament director is Steve Breeze (2452) on 4-2505 and he or Tom Lenz, 4-8486, may be contacted for additional information.

\* \* \*

**Racquetball**—Glenn Jarrell (5541) wants to start a singles racquetball ladder. (A ladder consists of a list of players in order of skill; the less skillful challenge the more skillful, hoping to advance to the pinnacle.) Call Glenn on 4-4138 if you're interested.

\* \* \*

**Skiing**—Touring trips by the NM Ski Touring Club: on Dec. 20, Sandia Crest, meet at the Aladdin Motel at 8 a.m.; on Dec. 26, Aspen Vista near the Santa Fe ski basin, meet at ANB, San Mateo and Academy, 7:30 a.m.; Dec. 30, Fenton Ridge in the Jemez, meet at ANB at 7:30 a.m.; Jan. 2, North Crest Trail, meet at Aladdin at 8 a.m.; Jan. 3, Peralta Canyon in the Jemez, ANB at 8 a.m. Incidentally, the Coronado Ski Club is offering a cross-country lesson program in conjunction with the Sandia Peak Ski School. Four days of lessons are included. Dale Buchanan (4315) is the contact; registration is needed before Dec. 25.

On the downhill scene, there are still a few openings for the CSC Utah trip, Dec. 27 to Jan. 1; call Barney Barnett, 4-6164.

\* \* \*

**Biking**—We finally gave up on biking to work because of early darkness, which prompted us to look into sunrise/sunset times. Bill Millard (5635) furnished us with an annual table of the events, extracted here for those who have begun to wonder when the tide of darkness turns.

	Sunrise	Sunset
Dec. 16	7 08	4 56
21	7 11	4 58
26	7 13	5 01
Jan. 4	7 15	5 08
10	7 15	5 13
15	7 14	5 18
20	7 13	5 23
25	7 10	5 28
30	7 07	5 33

Sunrise and sunset are considered to occur when the upper edge of the disk of

the sun appears to be exactly on the unobstructed horizon, so make allowances for our mountains.

\* \* \*

**Golf**—The Sandia Golf Association (SGA) wrapped up its 1981 season last month with a banquet and general membership meeting at the Coronado Club.

Newly-elected board members for 1982 are Don Hosterman (4542), president; Cecil Johnson (2331), vice president; Gary Schuster (2112), secretary-treasurer; Bill Lutgen (2452), league director; Bob Nelson (2154), tournament director; and

Don Rountree (1241), handicap director.

Honored for outstanding achievements during 1981 were Leon Chapman (4416), association champion (best tournament gross scores); Gary Schuster (2112), president's cup winner (best tournament net scores); Jim Cordova (1474), most improved golfer award; and Gil Lovato (1474), winner of SGA's hole-in-one trophy.

Association league championship trophies were won by the B-Flight Evening League team of Gerry Esch (2631), Paul Konnick (2154), Grant Claycomb (2626) and Marv Daniel (2113).

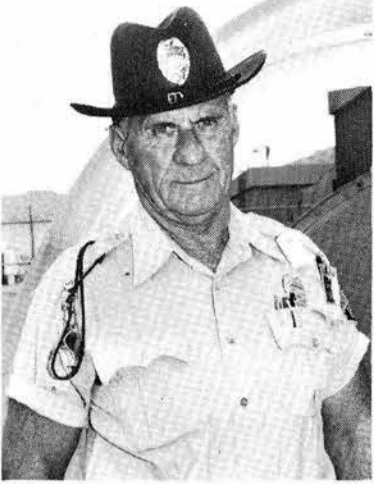


CRITICS of running say you never see a smiling runner—not so! These three smile because they've just completed their first marathons on the prior weekend. From left, they are Kathie Heibert (5642), Jackie Snyder (2116) and Kathe Korak (2122). Kathie and Jackie ran the Dallas 26-miler, while Kathe did the Phoenix. (Ed. note—we may be off-base, but we think these are the first Sandia Albuquerque women to complete the 26-mile event.)



"BETTER WATCH OUT, better not cry," the Mistletoes are singing. The sister act, organized by Cindy Thatcher (3155), center, will present a variety Christmas program—lots of singing and dancing—at a dozen hospitals, primarily children's wards, during the coming holidays. Shows will also be presented at the VA Hospital and Albuquerque Association for Retarded Citizens agency. The sisters are, from left, Becky Brady, Cindy, and Mary Desterhouse.

## Retiring



Les Bauman (3935)



Jim Rabold (3435) and John Toler (3435)



Elizabeth Bookwalter (1485) and Marjorie Michaud (3152)



George Norris (1133), Susana Derado (3422), Marcos Martinez (3423)



Henry Austin (3611), Joseph Boyd (1552), John Haaland (1213) and Ed Zachewicz (1482)

## Events Calendar

*Dec. 19*—Las Posadas de Barelás: Begins at 6 p.m. at the Barelás Community Center, 801 Barelás Rd. SW. Stops at eight homes, ends with services at Sacred Heart Church. The Fiesta de Navidad at the community center follows the ceremony.

*Dec. 20-Feb. 28, 1982*—"Treasures, People, Ships & Dreams," marine archeology exhibit featuring artifacts from Spanish galleons sunken off Padre Island. Albuquerque Museum: Tues.-Fri., 10-5 p.m., Sat. & Sun., 1-5 p.m., closed Mon. & holidays.

*Dec. 25*—Christmas celebrations at various pueblos: dances, maybe, at Picuris, San Ildefonso, San Juan and Santa Clara—matachines; Taos—matachines or deer dance; Cochiti & Jemez—buffalo dance; Santa Ana—bow & arrow; San Felipe, Santo Domingo—variety of dances.

*Dec. 25-27, 30-Jan. 3*—"Kismet," Albuquerque Civic Light Opera Assn., 8:15 p.m., 27th & Jan. 3, 2:15 p.m., Popejoy.

*Dec. 26*—San Juan Pueblo: turtle dance.

*Dec. 29-30*—Lobo Basketball Invitational: Univ. of Penn., Marshall Univ., Fordham Univ., 7:30 p.m., UNM Arena.

*Jan. 7*—The Chamber Orchestra of Albuquerque, annual American music concert, 8:15 p.m., Albuquerque Little Theatre.

## My Favorite Old Photo

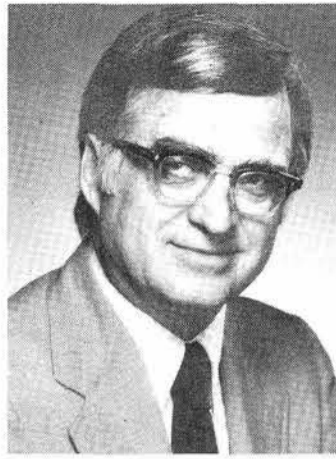


Back in the '30s, people listened to the radio with all the intensity they now focus on television. The big radio shows—Edgar Bergen & Charlie McCarthy, Amos & Andy, Bing Crosby & the Kraft Music Hour, and George Burns & Gracie Allen—had followings as large as those of today's popular TV shows. My father-in-law, Tom Foster, was the critic for a San Francisco newspaper, writing under a pen name—Tom Tyrell. He's shown here with George and Gracie. After the war, Tom branched out into TV criticism and continued his column until the '60s. He died in 1965. (Jim Beaudet—1732)

# MILEPOSTS

## LAB NEWS

DECEMBER 1981



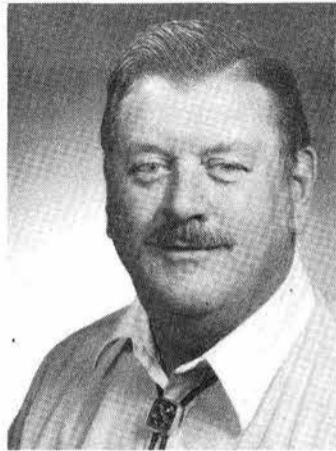
Ken Smith - 3100 30



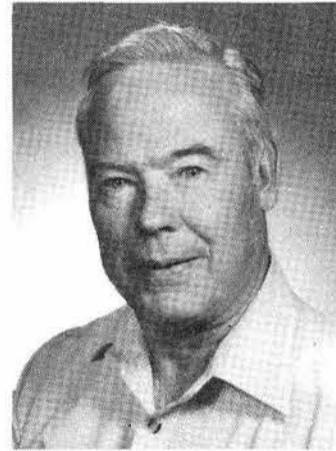
Rose Griffin - 1472 20



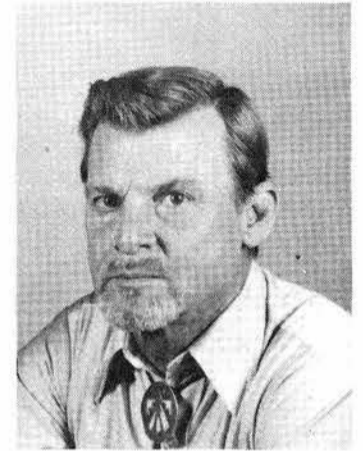
Jim Reid - 1721 25



George Stohner - 3213 25



Jerry Hinman - 1471 30



Leonard Hitchcock - 1414 25



George Dawson - 8423 25



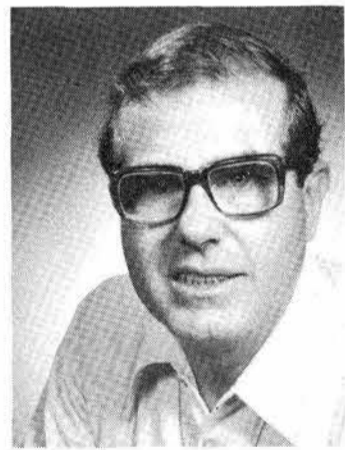
Zip Zipprich - 4451 25



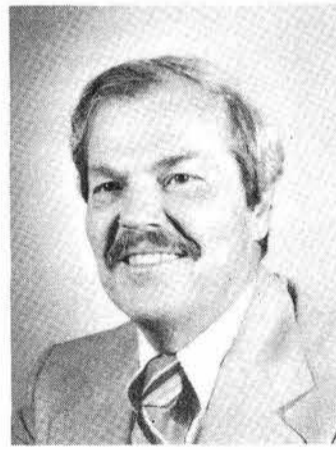
Lyle Porter - 1724 30



Alyce Joyce - 8423 25



Sanders Dolce - 1116 15



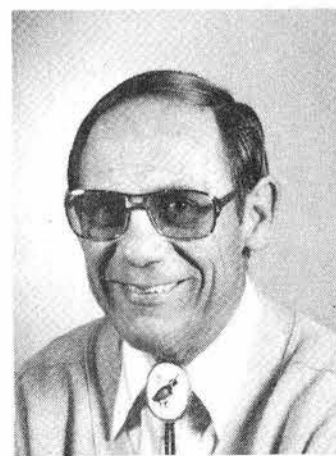
Chris Dalton - 5621 25



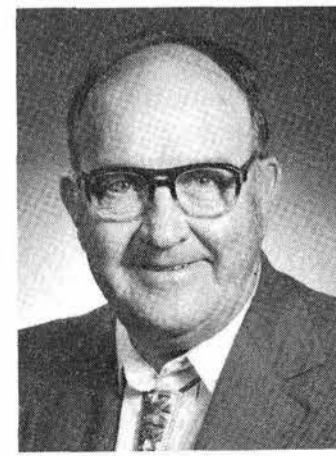
Orlando Sanchez - 3612 30



Jim Taggart - 1714 25



Bernard Kenna - 4544 20



Bobby Schmedeman - 4321 30



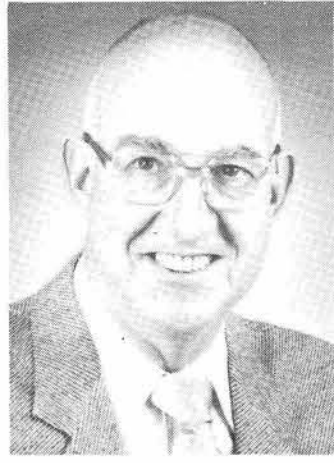
Donald Evans - 4365 10



Carl Zickert - 1222 30



Jerry Priebat - 8161 15



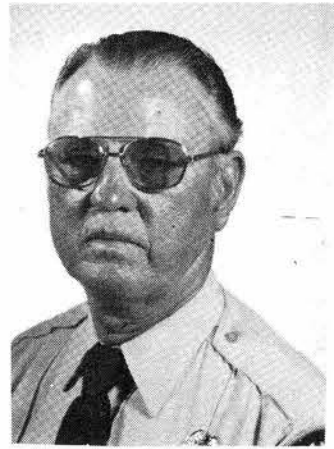
Dan Held - 8262 30



Cis Kelly - 3542 25



Janet Jenkins - 3155 15



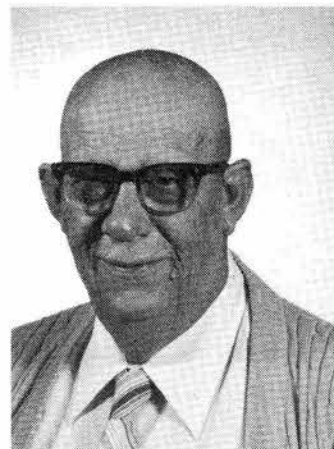
Vance Prutsman - 3435 25



Arnold Strasburg - 2514 25



Lewis Faw - 1414 25



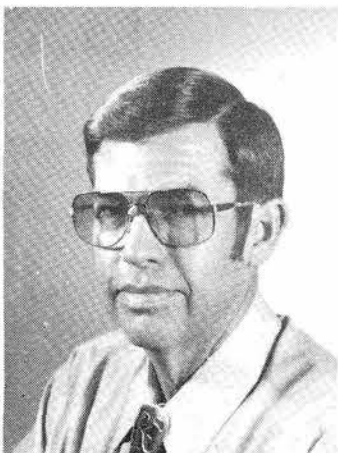
Cecil Tolbert - 5634 30



Mack Deaton - 3651 35



Clif Kinabrew - 1116 25



Ray Fry - 2456 25



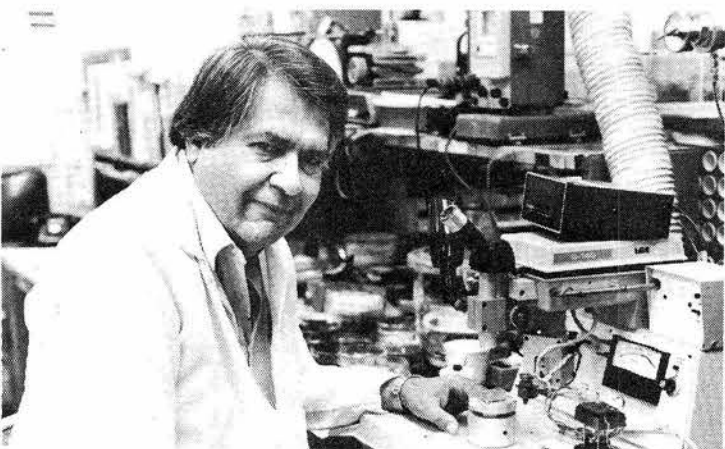
Bill Putnam - 1541 25



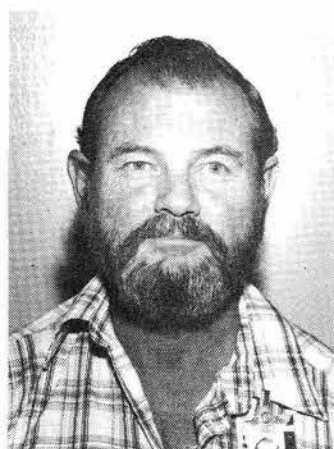
Howard Shaw - 3417 10



Jose Garcia - 3618 30



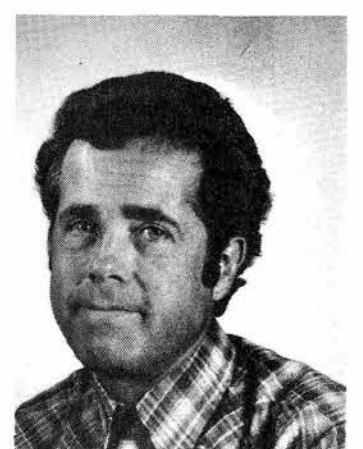
Aquiles Trujillo - 2122 25



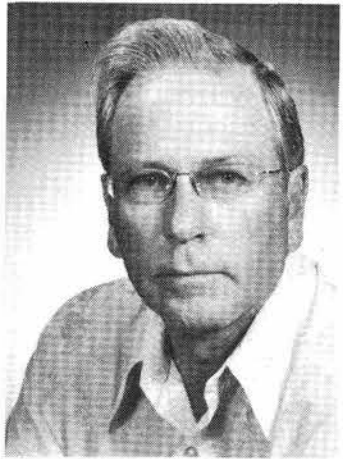
Charles Wimmer - 1131 25



Don Shadel - 1131 25



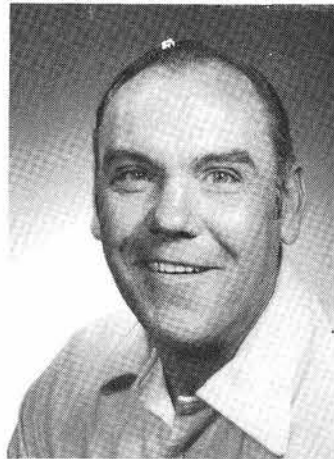
Tom Howard - 2345 20



Bill Nielsen - 1716 30



Bob Shuman - 1543 25



John Smatana - 5838 25



Art Bacon - 1482 30



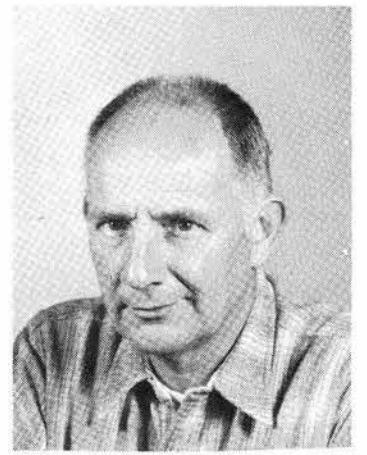
Adelico Cordova - 1482 15



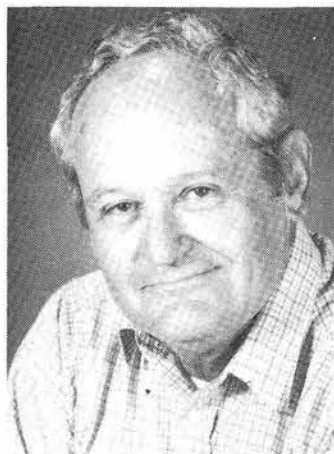
Leo Reynolds - 1212 30



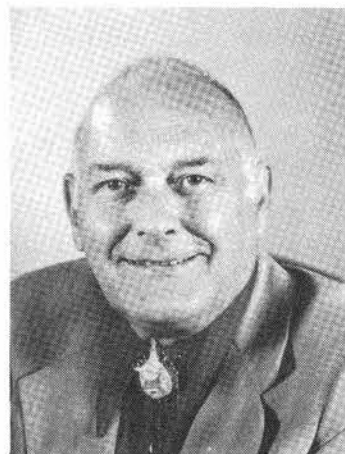
Andy Fuller - 3531 25



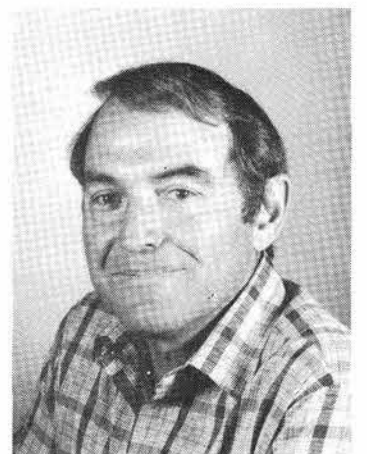
Bill Leisher - 4552 15



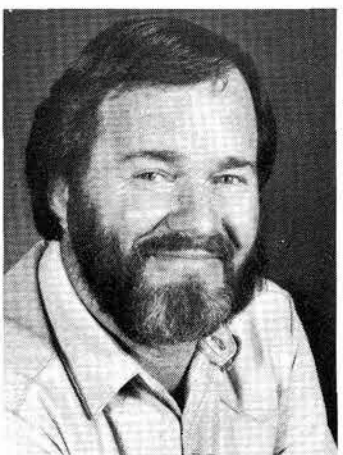
Bob Hofford - 8272 25



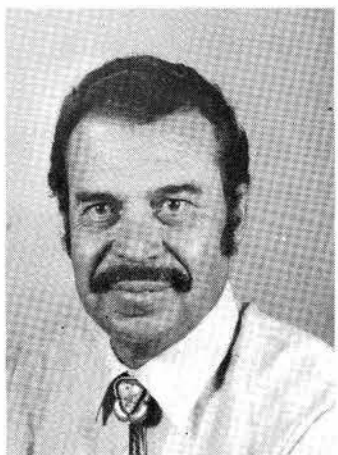
Bill Mottern - 1762 30



Dick Baughman - 5154 20



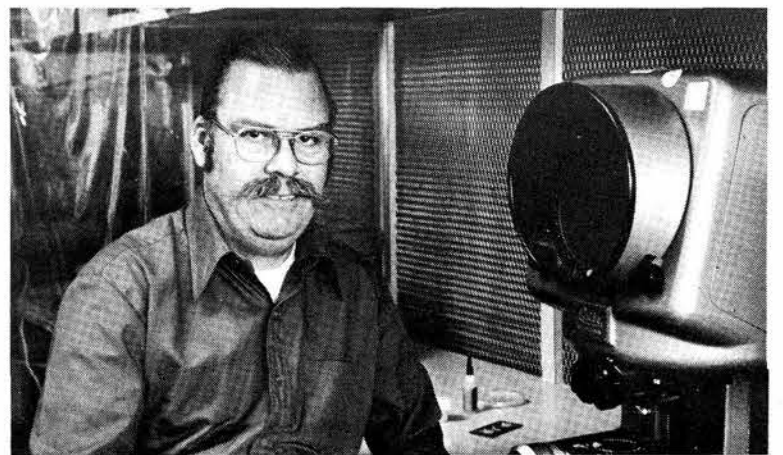
Gale Hudson - 8111 20



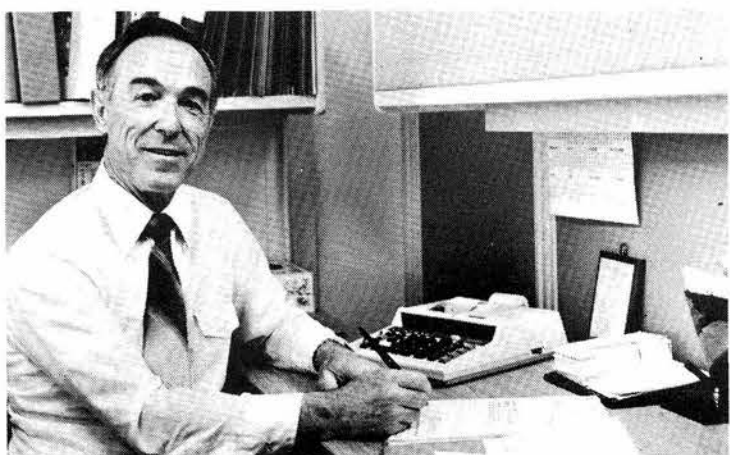
Vic Lopez - 3411 30



Lessie Lee - 4241 25



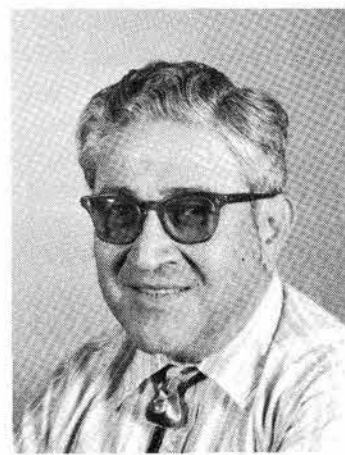
Don Odell - 1471 30



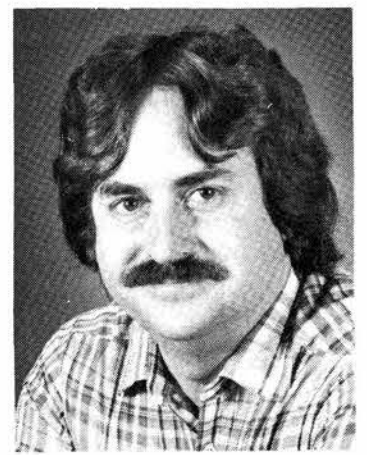
Dolly Dollahon - 3711 25



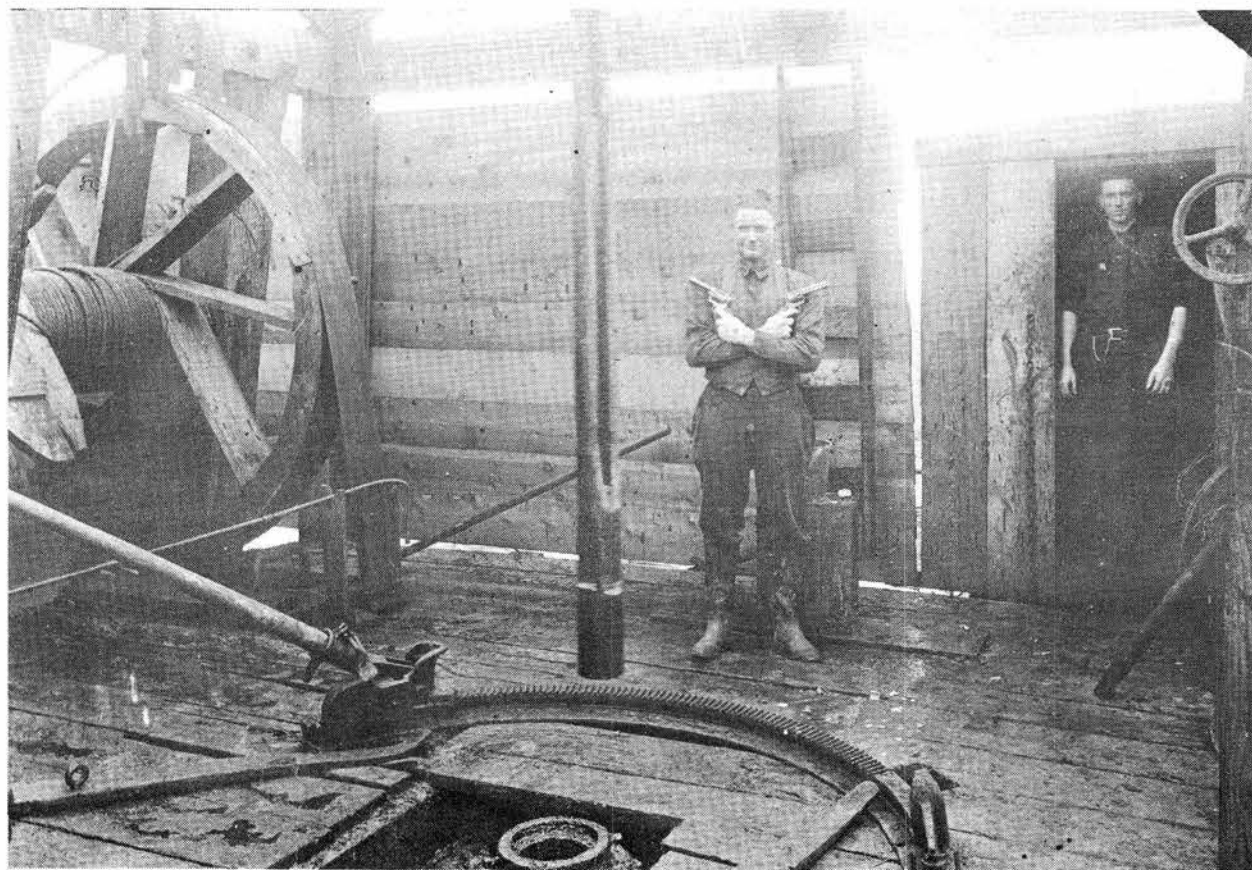
Jack Labrier - 3615 30



Art Troum - 3145 30



Miles Clift - 8315 10



## My Favorite Old Photo

That's my Dad, Cloyd Smith, looking like a shoot-em-up cowboy but, in reality, an oil field worker in east Texas around 1915. He'd come from the farm in Petersburg, Texas, when the oil business began to boom and spent the remainder of his working days doing various jobs around the oil rigs. Later in life, he moved to Eunice in southeastern New Mexico where my brother and I were born and raised. Oil field work was dirty. I remember my mother having to boil his work clothes—aptly called “greasers”—with strong lye soap. Dad died in '75 at age 86. (Alice Morgan—3252)

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

#### CLASSIFIED ADVERTISING

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

SANDIA caps & T-shirts now in stock — \$6. South Hwy. 14 Village Proj., LAB NEWS, MO-125 next to Bldg. 814.

AMPLIFIER, guitar, Kustom III Base, 138 watts, w/15" speaker, \$275. Shipley, 296-5377.

ORGAN, Conn Caprice spinet model, double manual, solid wood cabinet w/bench and instruction manual, \$600. Donohoe, 299-1739.

ROAD & TRACK magazines, 24 issues ('72-'76) incl. 25th anniversary issue, \$8. Smith, 242-9576.

WALTHER PPK/S .22 semiauto., German made, new, extra clip & holster, \$410. Thompson, 243-6513.

BOY SCOUT uniform, size 10; boys' ski jackets, sizes 12 & 16; games; misc., best offers. Scales, 298-6254.

MINOLTA 100-200 mm, F5.6 zoom w/case, \$70. Ritchey, 298-6648.

SHOP MANUALS, 1977 Ford truck, vols. 1, 2, 3, 4 and 5, \$35. Wempe, 884-7325.

PIGEONS, 60 cents ea.; ducks, \$6; Sears portable dishwasher w/ butcher block top, \$100. Lackey, 898-6638.

RANGE, old Roper Supermatic, w/pull-out Hi Broiler, range hood. Trollinger, 268-3414.

SKI BOOTS, ladies', blue, Scott, 9 1/2 narrow, used only 1 1/2 days, \$125. Marrs, 822-0367.

ETHAN ALLEN antique pine table/leaves, \$400; hide-a-bed sofa (plaid), \$75; Norge 18-lb. washer, \$50; in-laid pine bar, \$375. Welling, 296-4173.

BEAUTY REST mattress & box springs set, regular size, \$120 (can deliver). Coleman, 884-5009.

HO GAUGE train set, complete on 4x8' table, \$200 firm or partial trade for piano; 6-gal. water heater, make offer. Gabaldon, 831-1541.

SKIS, 160cm Dynastar, used twice, \$50; Reynolds Cornet, \$80. Stirbis, 821-5344.

HAFNER DH-101 stereo preamp, 3 yrs. old, \$140 or best offer. Booth, 296-3955.

WATERBED, pedestal, king-size, lifetime warranty, heater, two vibrators — one under shoulders, one under legs, \$300. Nielson, 873-2615.

COLOR TV, 10", GE, \$125; stereo system Scott rcvr, CS-12 speakers, JVC turntable, cassette recorder, list \$880, will sell for \$400; Atari game, \$100. Martin, 299-6189.

FREE PUPPIES, to good home, born Nov. 1. Smith, 292-0825.

WATERBED, queen-size, heater, bookcase hbrd, bench, footboard, mattress cover, mattress w/20 yr. guarantee, set-up included, \$300. Mowry, 292-1527.

SKIS, 205 cm Head 360s w/o bindings, \$15; Marker bindings, \$175/pr — both for \$25, will sell or trade. Klarer, 268-9772.

KING-SIZE mattress & box springs, \$135. Zucuskie, 881-4086.

CAMP storage boxes for LWB pickup, includes 3 units, 6' long, 19" high, compartmented with lids, \$50. Wempe, 884-7325.

SMITH & WESSON M17 revolver, .22 LR, 6" barrel, target grips, carry case, \$250. Hannum, 296-2095.

SKI BOOTS, Frye, size 6 B, \$35; Roffe ski overalls, size 12, \$20; folding cot, \$20; tire chains, 165R13-14, \$15. Schwarz, 884-9027.

DRUM SET, 5-piece, best offer. Weaver, 298-6522.

AUDIO equipment, RTR DR-1 speakers w/Crown VFX-2A crossover network, 2 yr. warranty on both, \$2000. Phil, 299-7870.

USED TIRES, Bridgestone 185-14 steel-belted radials, 2 for \$10 ea.; motorcycle tires, 3.00x21, \$12; 4.00x18, \$5. Barnard, 831-4114, evenings.

CRIB, walnut Calico Kids, dbl. drop sides, 3-piece set; crib, springs & Baby-Line mattress, \$80. Lyo, 299-6470.

ASPHALT SHINGLES, one bundle (1/2 square) of three tab, white, \$5; 5-hole, 14" Ford wheel, \$5. Hall, 298-8617.

BUMPER POOL table, \$60; Hidabed, \$35; 6" swing lathe, \$75 or best offer. Long, 296-2590.

GOODYEAR tires, used, P15580/R13, tubeless, WSW, steel radial, 3 for \$5 ea. O'Bryant, 268-9049.

CAR TOP carrier, 1'x4'x6', \$60; bunk beds with mattresses, \$40. Walsh, 265-7498.

GAS HEATER, free standing, 15,000 BTU, insulated pipe and flex gas line, \$50; record player, \$15. Ottinger, 242-7935.

RADAR DETECTOR, Fuzbuster II, original carton & manual, \$50. Fowler, 247-9305.

CHILD'S shoe roller skates and hiking shoes, size 3, \$10 ea. Marder, 268-9643.

ACOUSTIC 402 bass amp w/power booster & equalizer, 8 months old; acoustic 906, 6-channel brain, 8 months old. Garcia, 877-6823.

GIRL'S 16" bike, Sears; children's kitchen appliances; Ford tot guard; GM love seat. Carson, 898-8847.

CLOTHES WASHER, GE, \$50. Perea, 898-8328.

HOFNER electric bass—Beatle style w/extra set of strings, \$150. Skogmo, 296-8869.

COMPUTER, Commodore, VIC-20, 5K memory w/cassette drive, software, etc., \$340. Harris, 344-2815.

SKI BOOTS, women's size 7: 1 pr. Scotts, \$30; 1 pr. Nordica, \$10. Bland, 265-6286.

BAR, decorative wood carved panels, polished top, wine racks, drawer, foot rail, 5x2', \$250. Thomas, 256-1921.

HOTPOINT electric range, 40", \$50; dresser w/mirror, \$65; chest of drawers, \$25; old power mower, Sears, \$18. Mikkelsen, 881-3921.

HOTPOINT electric range, 40" wide, double oven, large one is self-cleaning, white, \$90. Luikens, 881-1382.

Next LAB NEWS  
Issue Date Is  
Jan. 8, 1982

Deadline Is Noon  
Wednesday, Dec. 23

KENMORE freezer, frostless w/power miser switch, 15.6 cu. ft., used about 6 mos., \$300. Gallegos, 865-4024.

SOFA, solid wood, handmade Taos bed style, earthenstone cushions, \$300; San Marco ski boots, ladies' size 6 1/2-7, \$20. Harris, 268-7648.

FIREPLACE screen w/glass doors, 25" x 40". Edenburn, 869-2911.

SAAB 99 parts, blue velour buckets, folding rear from '76 hatchback; 2 wheels, one good tire. Workhoven, 281-3246.

FREEZER, GE 12 cu. ft., upright, \$75. Muench, 867-5115.

TEKTRONIX scope model 555, type CA & D modules, \$295. Myre, 884-5235.

COLOR TV, GE 19", \$95; 19" B&W. McConnell, 268-3109.

NIKON 2 FAS w/leather case, \$390; Nikkor 24mm, F2.8, \$125; Nikkor 55mm, F3.5 w/Pk-13 x tube, \$125; Nikon mt. Vivitar 135mm, F2.8, \$45. Ritchey, 298-6648.

LIONEL: track, switches, larger transformer, extra cars. Campbell, 299-4830.

AM/FM cassette auto stereo w/2 speakers, \$75; repairable elec. typewriter, \$25; artificial 4 1/2" Christmas tree, used 1 yr., \$10. Wilde, 293-2652.

ANTIQUA furniture: coach & 2 chairs, refinished & reupholstered, \$1000 for the three pieces. Graham, 268-9643.

MICROWAVE OVEN, Amana RR9 model, 3 yrs. old, under warranty, \$300. Biffle, 293-7043.

LASER sailboat, '78 w/trailer; guitar, '81 Ovation Special Balladeer, polyurethane neck; butcher block, 30x60x3 thick. Stixrud, 298-0478.

#### TRANSPORTATION

70 VW Squareback, fuel injected, auto transmssn, seat covers, xtra rims & tires, \$1300. Hannum, 296-2095.

73 POWERWAGON, 1/2 ton, 4x4 stake-bed. Quinlan, 266-3164.

DIRT BIKE, Honda 100, \$300. Owens, 296-8557.

73 FORD Torino, 4-dr., A/T, A/C 302 V8, 40,800 original miles. Gomez, 256-1584.

71 BARRACUDA, 383, V-8, automatic, \$1800 or best offer. Romero, 877-9700.

'80 MERCEDES BENZ, good for parts and runs, \$900. Smith, 299-5060, ask for Heidi after 4.

'78 KAWASAKI Z1R, many performance extras, low mileage; '76 Honda CB-400, many performance parts. Baca, 299-2036.

'80 HONDA CVCC, SW Hondamatic, AC, metallic green, tan interior, radial tires. Roody, 281-1388.

'79 HONDA motorcycle, XL100, 600 original miles, dual street and dirt purpose, \$700 or best offer. Baca, 821-6662.

'79 KAWASAKI, KX80 motocrosser, under 10 hrs., \$475; '74 BMW 900cc motorcycle, complete touring accessories, \$2300. Barnard, 831-4114, evenings.

'79 DODGE, flatbed, 4WD, duals, 9:00x16, 4 spd., Hi-lo range, 360 V-8, 15-ton PTO winch, 110 VAC Conv., 10,000 lb. 6VW, dual gas tanks, 20,000 miles, \$9500. Rarrick, 296-2340.

'57 CHEV, 4 dr., hardtop, \$800. Sanchez, 281-5236.

HONDA Odyssey dune buggy; 8-ft. slide-in camper. Peebles, 877-3942.

'76 PINTO wagon, AT, PB, air, cruise control, \$1995; two bicycles, 20", one boy's, and one with removable bar, \$20 each. Daniel, 268-8335.

'79 AUDI FOX, 4 dr., silver, AC, AM/FM radio, sunroof, 25/35 mpg, 34,400 miles, \$6600. Stone, 821-5070.

'69 CHEV Impala, 2 dr., AT, PS, new tires and battery, one owner family car, \$800. Jones, 299-4776.

BICYCLE, Peugeot PRN-10 MaFac Racer's brakes, Simplex derailleur, Reynolds 531 frame, stronglight crank, 25" frame size, plus extras, \$275. Wright, 296-3850.

'75 HONDA Civic, 4-spdr., AM radio, \$1975. Rea, 292-8054.

'73 CHEV. 1/2 ton pickup, 350 engine, AT, \$2300; '78 Toyota pickup, long bed, 4-spdr.; '64 Honda Dream motorcycle, 305cc. Marquez, 873-1127.

#### REAL ESTATE

10 ACRES in Juan Tomas Valley between S14 and HY 217, tree covered, southern exposure, \$2250/acre. Baack, 296-2312.

NW VALLEY, custom 5-bdr. on 1 1/2 acre, lots of extras, set up for horses. Besson, 897-0906 after 5.

3-BDR. or 2-BDR. STUDY, 2-car garage, enclosed yard, covered patio, near Winrock, 71K, owner financing. Sylvester, 256-0404.

14x72 MOBILE HOME, 2-bdr., 2 bath, 12 1/2% assumable loan, some appliances, available now, adult section near Base, price negotiable. Conrad, 299-5316.

3 ACRES ner Tome, cultivated, irrigated, off route 47, 6.6 miles south of Valencia Y, \$31,500, low down payment & REC. Burton, 869-2541.

#### WANTED

MEN'S wet suit to rent or buy. Either 5'9" or 5'11". Schnetzer, 292-0733.

TWO-DRAWER metal file cabinet, legal size preferred but letter size O.K. Arnold, 898-1467.

WINDSURFER or other sail-board. McConnell, 268-3109.

ANTIQUA FURNITURE to repair or restore, will buy to repair or repair for you. Long, 296-2590.

HO-scale train board layout, with or without train, dual control preferred. Bonzon, 296-3022.

MAGNIFIER LAMP (fluorescent ring, glass in center), adjustable. Mead, 294-2298.

PERSONS interested in joining an informal creative writing group. Altwies, 292-3884.

SKIS, Hart or K2, 180 to 190 cm with or w/o bindings; ladies' boots, size 6-8. Klarer, 268-9772.

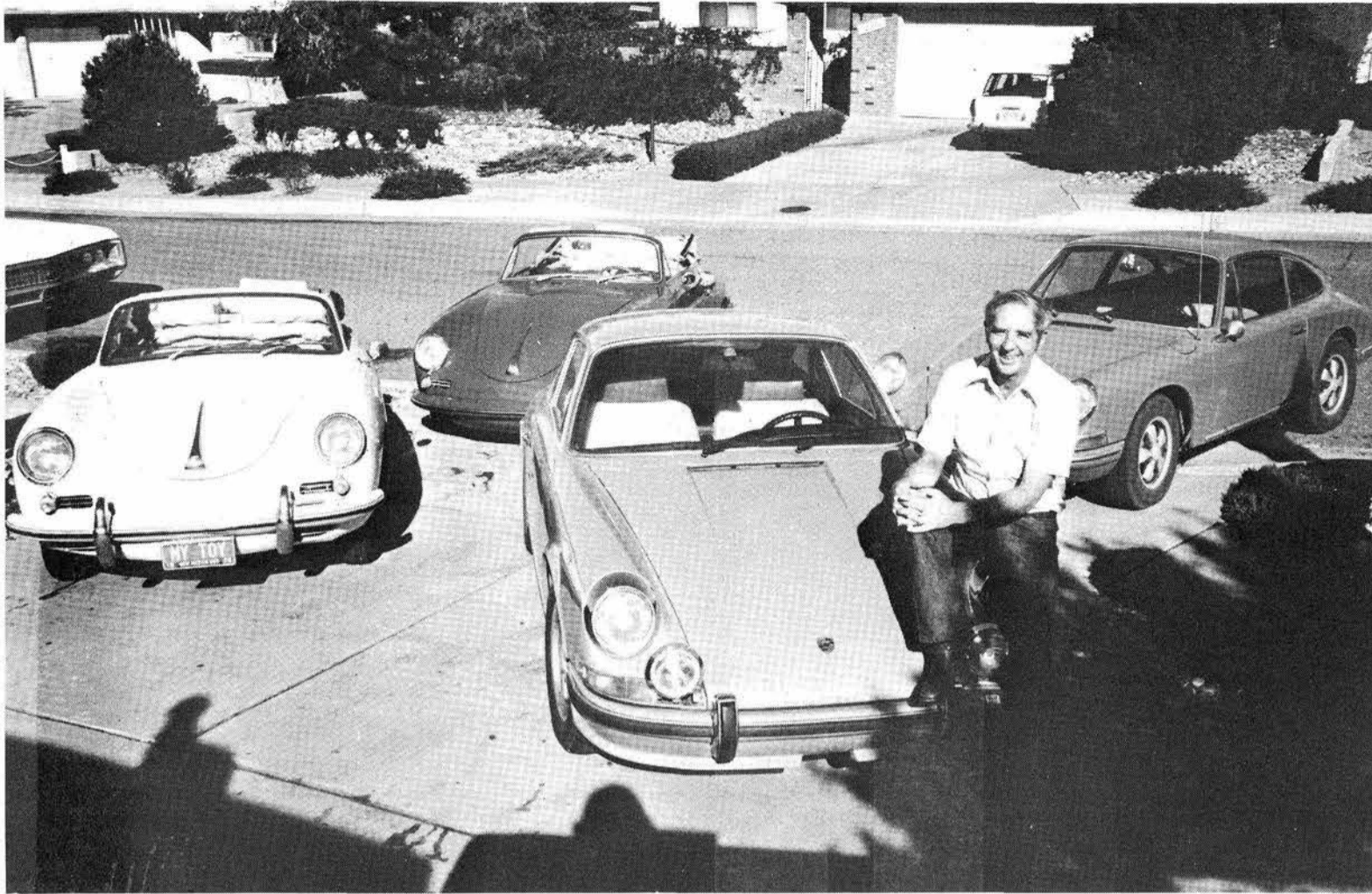
#### WORK WANTED

EXPERIENCED BABYSITTER, St. Pius freshman, 14 yrs. old, \$1.50/hr., lives in NE heights. Wright, 296-7670.

PAINTING BY UNM students, Peter & Mark, experienced w/outdoor, indoor painting, we furnish equipment, will bid on jobs. Peter Shunny, 265-1620.

#### SHARE-A-RIDE

NEED rider-driver from San Francisco to Albuquerque. Leave around Dec. 22-23, car provided, help on gas. Call Dave Pierce, 293-2719 or 4-7064 for information.



CHRIS CHRISTENSEN (4512) displays a portion of his Porsche collection. He's perched on his 1970 Model 911. Behind him, from left, are his 1960 Cabriolet 356B, another 1960 Cabriolet 356B and his 1966 Model 912. Not shown are another 356B coupe, buttoned up and waiting for his in-the-Navy son Kevin, and a 1969 Model 912, a basket case now being restored (most of his collection started this way). He rebuilds the engines and transmissions, hammers out the dents, welds new metal, upholsters the interiors and gets them running as transportation for his family—his wife Joan, two sons and two daughters. He calls his hobby "great therapy" with rewards—the machines are "fun to drive."

### Coronado Club Activities

## Get New Year's Eve Party Tickets Tomorrow

**TONIGHT**, Happy Hour goes full blast in the main lounge and lobby area with special prices in effect from 4:30 on. Private parties are scheduled in the ballroom and dining areas.

**TOMORROW** is the deadline for picking up tickets for the New Year's Eve party. At \$34 per couple, which covers admission, dancing, party favors, champagne, open bar all night and breakfast, it's the best deal in town. As a matter of fact, almost 500 reservations were made by press time so the Club's Board voted to open up downstairs and book another group for dancing. Spinning Wheel plays upstairs. Jim Meek and the Country Showmen play downstairs. Check with the Club office *right now*, 265-6791, about

reservations. There might be a few seats left.

*A SPECIAL HAPPY HOUR* with some special goodies and munchies spread is scheduled Thursday afternoon, Dec. 24. The fun lasts until 7 p.m.

**SINGLES, ATTENTION!** The Coronado Club Singles Mingle is back in business, bigger and better in 1982. The first party is set for Friday, Jan. 15, starting at 5 p.m. Numerous hosts and hostesses will introduce everybody and see to it that singles mingle. Tom Black and the Fugitives will play for dancing. Menu service will be available in the dining room. Singles will meet in a reserved section of the ballroom. C'mon out and meet

everybody. C-Club membership is not required for this evening.

*VARIETY NIGHT STARTS* again on Saturday, Jan. 9, at 5 p.m. when hamburgers, hot dogs or French dip sandwiches are available for the youngsters who love this kind of stuff. The movie is *Aristocats*, a Walt Disney animated classic about a family of felines who inherit a fortune. Admission is free. Bring the kids and enjoy.

*ANOTHER ONE* to mark on the January calendar is the giant shrimp peel scheduled for Saturday, Jan. 16. Dinner—a large boat of shrimp with all the trimmings—starts at 6. Marci and the Talkabouts play for dancing starting at 8. Members pay \$7.95 for the works.

*TRAVEL DIRECTOR* Frank Biggs (4231) announces a second bus for the Las Vegas trip Dec. 27-30. "There is still space on the second bus," Frank says. "This one goes to the fabulous Four Queens Hotel in downtown Las Vegas. The package includes lodging, transportation, a lunch, refreshments and other treats on the bus and optional group dinners and shows. Cost is \$130."

Frank has also arranged another Chaco Canyon trip for April 24 at a modest price of \$20. "We plan to have a speaker from the UNM Chaco Center tell us about the historic site prior to the trip," Frank says. "Sign up at the Club office early—this one was a sell-out last year."

"Don't forget the Washington, D.C., tour (April 3-10, \$300 plus air fare)," Frank continues. "We will fly to the Washington, D.C. area and use a charter bus to take us to the monuments and historical sites."

For more information, see Frank in the lobby tonight between 5 and 7.

"Well, no, it doesn't work on dirt. But it'll do 75 mph on the highway."

