

PHOTOVOLTAICS ADVANCED SYSTEMS TEST FACILITY is now open for business. Located just northeast of the geodesic dome (Visitor Center), the facility is newest of Labs' solar installations and is dedicated to testing of photovoltaic arrays—devices which can convert solar energy directly into

electricity. Here photovoltaic panel and solar reflector is lowered onto carousel-like support which slowly follows daily track of sun. Don Schueler's Photovoltaic Projects Division 4719 operates the new facility.

LAB NEWS

VOL. 31, NO. 20

OCTOBER 5, 1979

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

Production Cost of Radar Fuze Reduced

Cost saving efforts by Electronic Subsystems Department 2340 under George Rodgers have resulted in a projected \$20 million savings in the production of the MC2823 radar fuze for the Navy LMSC Trident missile system. The savings mean a decrease of nearly 18 percent in production costs of the component.

In a recent letter to President Sparks, Herman Roser, manager of DOE's Albuquerque Operations, commended Sandia and Bendix in the cost savings effort. "This initiative is an example of the effort needed throughout the production complex to reduce costs, where possible," the letter said.

"During development of the radar," George Rodgers says, "we set an engi-

neering cost goal of \$20,380 as the average unit cost. At the start of production in 1977, this cost was estimated by Bendix production management to be \$25,244. After a year we expected the cost to go down, but it increased to \$27,759. This demanded that something special be done if we were going to meet our development goal."

The "something special" was a complete review of all costs involved in the program. Don Arquette, supervisor of Product Evaluation and Control Division 2342, headed a team of Sandians that studied the problem. At Bendix, Don Peterson, senior project engineer, headed a similar effort. Jointly, some 90 items were reviewed in a step-by-step effort to reduce costs.

"We had full cooperation," Don Arquette says, "from many organizations at Sandia and Bendix. Working with cost information in great detail, we questioned everything, and implemented changes in a manner that assured that the cost reductions were real. And we didn't sacrifice quality or reliability."

Some of the economies were the result of product design changes and others involved production changes. Over half involved changes to Sandia controlled specifications. Although a few specific changes were "big winners," most of the savings were accumulations of relatively small items. Additional savings are ex-

[Continued on Page Four]

Sandia Medical: Go For Health

How we live, our patterns of eating, exercising, drinking and coping with stress, as well as use of tobacco and drugs, largely determines our health. Good health is really a "do it yourself" affair. Recognizing this, Sandia Medical is sponsoring "Go For Health," a series of programs aimed at helping Sandians make informed decisions about their own health.

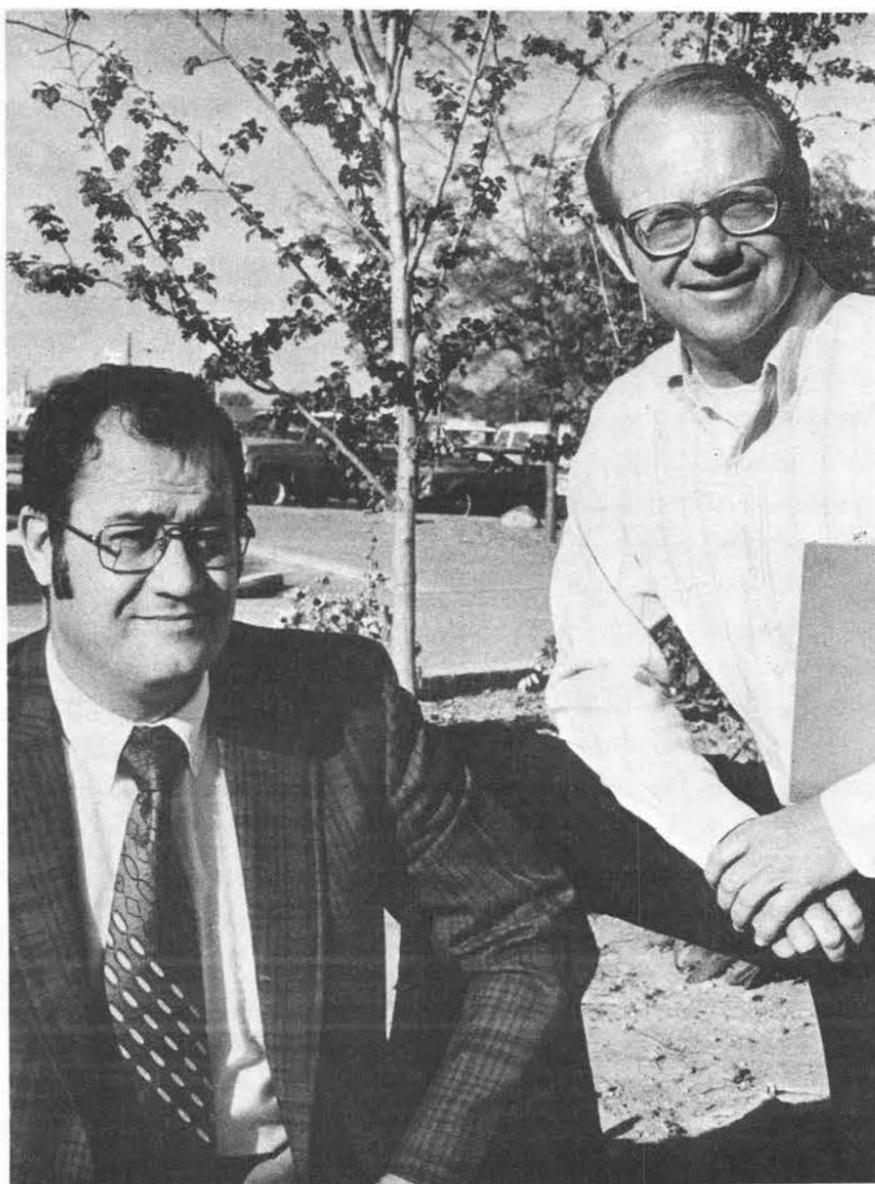
Programs will run in theater bldg. 815 from 12-12:20 (with one exception—the first program is a 60-minute videotape; the time charge number for the additional 30 minutes is A268). Here is the schedule: Oct. 9, Off Your Duff; Oct. 16, On Your Mark, Get Set, Exercise; Nov. 13, Rainbow Nutrition; and Dec. 11, You and Your Alcoholic Friends.

Exercise is the topic of the first two programs. "Off Your Duff" was produced by Boston's public television station WGBH. Points made in this film include: our bodies thrive on exercise; we don't wear out, we rust out; and that in today's "sit down" world we need to make physical activity a part of our daily routine.

You can learn how to start your own exercise program on October 16. Dr. Hemming Atterbom, Associate Professor of Exercise Physiology, UNM, will present "On Your Mark, Get Set, Exercise." Dr. Atterbom will comment on the previous week's program and answer questions about developing a fitness program specifically suited to your age and physical condition. In addition to his work at UNM, Dr. Atterbom is consultant to the U.S. Olympic Committee and consultant to the Swedish race walking team.

Details on the November and December programs will be covered in later LAB NEWS articles. Additional programs will be announced later for 1980.

Bring your lunch to Go For Health programs and learn how to live a longer, healthier life.



JON BARNETTE (2328)
and MARLIN AKER (4452)

Supervisory Appointments

JON BARNETTE to supervisor of Switching Devices Division 2328, effective Oct. 1.

Jon joined the Labs in July 1960 as a staff member under Sandia's Technical Development Program. He worked for two years with a wind tunnel design group and then moved to the electromechanical devices organization, working primarily with coded switches. Jon stayed with this group for 15 years and has now returned as a supervisor. For the past two years, he has worked on drilling research.

Jon received a BS in ME from the University of Arkansas and an MS in ME from UNM. His off-the-job interests include church activities, hunting, fishing and camping. Jon and his wife Judy have

five children.

MARLIN AKER to supervisor of Experimental Systems Design Division 4452, effective Oct. 1. Joining the Labs in March 1960, Marlin worked for the next six years with a group designing quality evaluation systems tests. He then transferred to the field test organization and, since 1972, has worked in the electron beam fusion program. His current division provides engineering support to the reactor programs.

Marlin earned a BS in ME from NMSU and completed graduate work under Sandia's Technical Development Program at UNM. He and his wife Joyce and their three children live on a ranch in Estancia.

Events Calendar

Oct. 6-14—8th Annual International Hot Air Balloon Fiesta, Simms Field (½ mile west of Interstate 25 on north edge of city), free admission, parking \$1/vehicle, 842-0220.

Oct. 7—Performance by Tom Guralnick (solo saxophone) and group "Small Comfort," Downtown Center for the Arts, 216 Central SW, 7 p.m., 243-0531.

Oct. 7 - Nov. 18—Indian Art Show, Indian Pueblo Cultural Center, Mon.-Sat. 9-5, Sun. 12-5, 12th & Menaul.

Oct. 7-Nov. 25—St. John's Cathedral Gallery Invitation Exhibit, works of six artists including Doug Ballard (1551), opens 1-3 p.m. at 318 Silver SW, M-F 9-4, Sun. 8-1.

Oct. 8—Cultural Entertainment Series: 63 Chinese Acrobats of Taiwan, UNM Arena, 7:30 p.m.

Oct. 9-14—UNM Theater Dept., "The Mousetrap," 8 p.m. through 13th, 2:30 on 14th, Rodey Theater, UNM Fine Arts Center, 277-4402.

Oct. 13-14—NM Gun Collector's Association Fall Gun Show, 8 a.m., convention Center.

Oct. 13-14—NM Art League, weekend Arts & Crafts Street Fair, 10-6 p.m., 3401 Juan Tabo NE.

Oct. 15-Nov. 15—Escribiente: Hallmark exhibit of Herman Zapf calligraphy and show of NM calligraphers, CofC Convention Center.

LAB NEWS

Published every other Friday

SANDIA LABORATORIES

An Equal Opportunity Employer

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LIVERMORE, CALIFORNIA
TONOPAH, NEVADA

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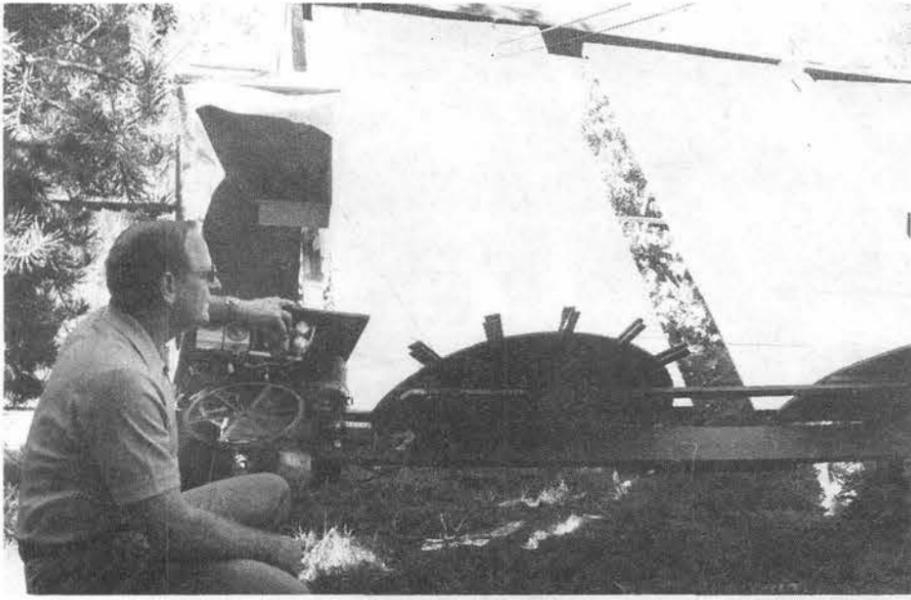
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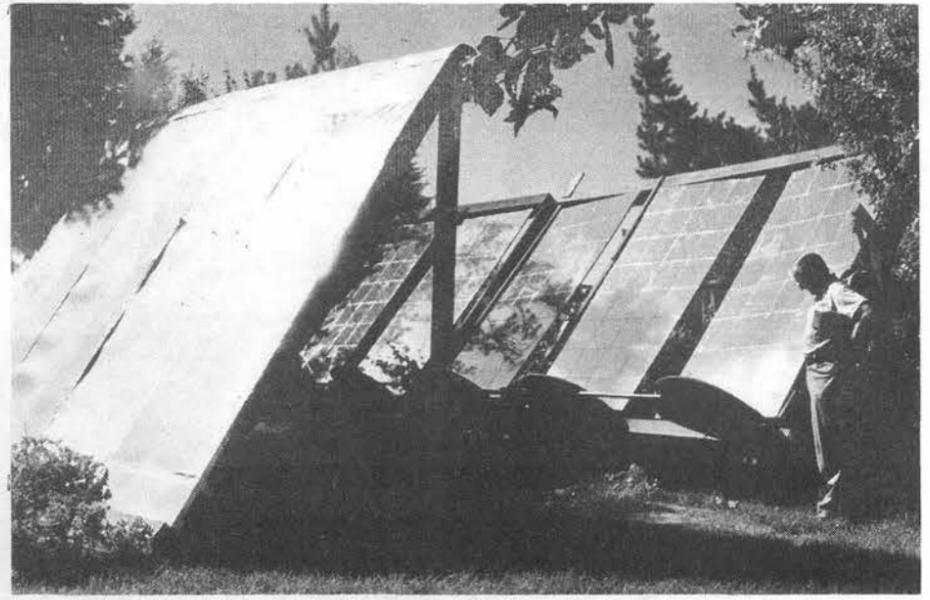
bill laskar does picture work

aided by gerse martinez

bruce hawkinson & lorena schneider report livermore.



MANUAL OVERRIDE permits Clay Mavis (8451) to put his usually automatic heliostat through its sun-following paces. System supplies all hot water,



most heating for the Mavis home.

Feat of Clay

Home Solar Retrofit Works Well

Clay Mavis (8451) finally blew out his pilot lights the other day. His solar water and space heating system has pretty well proved itself through two summers and a winter.

"Oh, I'll have to relight the furnace pilot next winter," he commented, "but it doesn't appear we'll need the hot water heater unless we get a string of cloudy days."

"In the meantime," added Dee, Clay's wife, "it's great to see a zero on our gas bill."

The system, more functional than elegant, has two subsystems. The heat collector portion is in the back yard—six 3 x 10-foot copper panels with six ½-inch copper pipes soldered to each one and connected to headers top and bottom. Each panel is sandwiched between clear fiberglass sheets to reduce heat loss.

A unique feature (among home-built retrofit systems anyway) is a heliostat set north of the collector panels. Its five panels, each containing 32 one-foot-square bathroom mirror tiles, follow the sun and reflect its energy to the backside of the collector panels 12 feet away. The heliostat is much like a venetian blind with only five slats, set vertically, so all move together. While Clay adjusts for solar altitude manually every few months, the daily sweep across the sky is handled automatically by an array of switches, ropes and pulley, a washing machine motor, a winch, and a light sensor to control the motor that turns the mirrors to follow the sun.

Water flowing through the copper tubing on the flat black copper panels is thus heated from two directions and then returns to the second subsystem—a 600-gallon storage tank in the garage.

For space heating, water from this tank circulates through an auto radiator installed in the living room in a box that resembles an end table. A small fan behind the radiator pushes the heated air out into the room.

For water heating, cold water passes through parallel 200-foot copper tubes coiled within the storage tank. This heat exchanger sends the water, now 110° to 140°, depending on the day, into the water heater for use in showers, laundry, and dishwashing.

A 1/20-horsepower pump circulates about three gallons of water per minute from the storage tank through the collectors and back to the tank again. The pump comes on automatically whenever the temperature in the water in the collectors exceeds that of the storage tank by 10° (and whenever cold weather threatens to freeze the water in the collectors).

"I enjoyed putting it together, and it's great to keep our family room temperature at 72° or above on winter nights," said Clay. "It's not inexpensive though—about \$3500 plus many hours of my time, not to mention that of my sons David and Patrick. It will take five years or so to amortize at current fuel prices even with the 55 percent income tax break.

"One other word of caution—I'm not a consultant; in fact, I snarl easily. Every system is different, but the books are there for the reading."

In other words, "don't call me . . ." Read instead. Here are two books Clay recommends: "Other Homes and Garbage," (solar heating chapter), Sierra Club, 1975; J. W. Allred and others, *An Inexpensive Economical Solar Heating System for Homes*, Langley Research Center, Hampton, VA, July 1976 (Report No. NASA TM X-3294).

Take Note

"Felt lucky," says Iona Ratcliff (8273). So she bet a little more than her usual dollar or two on a Keno combination ticket in Reno last month. And won \$15,000.

Dinner for the group that night. Some celebrating with kids later. "And I've got several good uses in mind for the rest." No requests for loans, please.

LIVERMORE NEWS

VOL. 31, NO. 20

LIVERMORE LABORATORIES

OCTOBER 5, 1979

Retiring



Walt Young (8423)

Sympathy

To Les Brown (8341) on the death of his father in Rio Vista, CA, Sept. 9.

To Al Derby (8264) on the death of his father in Atlanta, GA, Sept. 20.

Congratulations

Glenda Day (8256) and Dwayne Mohrman (8111), married in Carmel, CA, Sept. 8.

Death

John Wheelock of Specifications Division 8273 died Sept. 13 after a long illness. He was 64.

He had worked at Sandia/Livermore for almost 21 years.

Survivors include his widow, three sons, a daughter, his mother and three grandchildren.



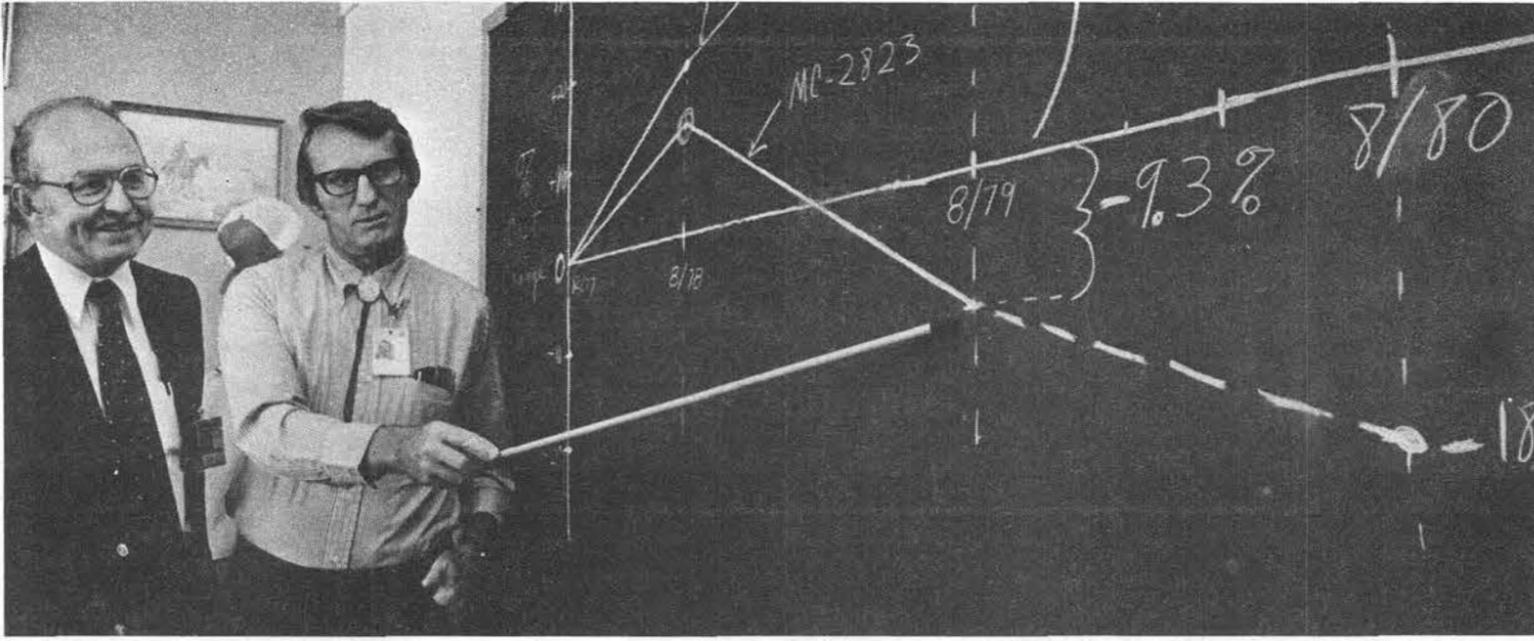


CHART OF COSTS for the MC2823 radar fuze is discussed by Don Peterson, Bendix senior project engineer, and Don Arquette, supervisor of Division 2342. Production costs have steadily decreased since August 1978. This decrease currently represents a program savings of more than \$20 million.

Fun & Games

Running—The Coronado Club's 10,000 metre run, which had been set for Oct. 27, has been cancelled.

Entry forms for the third annual Triathlon of Albuquerque, the Jay Benson Memorial, are now available in the LAB NEWS office, 4-1053. At this writing, we don't have entry forms for the Oct. 21 Albuquerque Marathon but hope to get some.

* * *

Hockey—The Albuquerque 30-30 Hockey Club began its sixth season last Sunday. The league plays each Sunday at 10:30 a.m., at Iceland Arena.

The organization started in 1974 with 30 players who were 30 years or older. The club has since expanded to four teams, and is seeking new members (30 years or older) regardless of experience level. Games are played for fun and exercise with limited contact, as in Canada's "oldtimer" hockey and international competition in senior Olympic hockey. For the past five years, 30-30 members have played in the annual senior Olympic competition at Santa Rosa, Calif.

For more information, call Robert Walston (DOE), 4-7276.

* * *

Skiing—The Coronado Ski Club's dry land ski school will be conducted tomorrow from 1-4 p.m., at the Club's pool/patio area. Tom Long and a group of instructors from Sandia Peak Ski School will be on hand to give beginners a head start on handling and using ski equipment, getting up from falls and performing simple maneuvers and turns. Mountain Sports is providing equipment. Call Lynn Grace (DOE/Atomic Museum), 4-4223, or Al Ortega (5512), 4-6541, for details.

* * *

Judo Class—A six-week course in judo is available through the Coronado Club for \$40. Tony Anaya (3613) and his black-belt daughter Darlene, winner of national and international competitions, are instructors. Classes meet Mondays and Wednesdays at 7-8 a.m. or 5-6 p.m. For more info, call Skip Dougherty, C-Club recreation honcho, 4-8486.

Continued from Page One

Radar Fuze Cost Cut

pected to be implemented during the coming year.

At Bendix, interest and cooperation were received at all levels of engineering and production. In one instance in thin film network processing, production methods were changed from individual to batch processing. An electronic assembler suggested a better method of soldering. She received a cost savings award for her suggestion.

"We are convinced," George concludes,

"that the cost of any product can be reduced in the same way. But it takes dedicated people at both Sandia and at the production facility who are motivated to bring costs down."

Bob Peurifoy, Director of Weapon Systems Development 4300, agrees. He recently called for a cost review of all weapon programs in production. "It seems reasonable," he says, "that a 20 percent cost reduction might be achieved if we go at it in a systematic way."



SKI SWAP time is upon us, says Swap chairman Norm Elliott (5627), and that means all that cold white stuff is lurking up there somewhere. The Swap runs next weekend, Oct. 12 to 14, at the State Fair Grounds. Items to be sold should be registered on Friday the 12th between noon and 8; the sale itself goes 9 to 4 on Saturday the 13th, and Sunday is pay-off/pickup day. Many Sandians are members of the Sandia Peak Ski Patrol, sponsors of the Ski swap. Patrol uses proceeds for medical supplies and rescue equipment.

Take Note

LAB NEWS has a limited number of color prints, 9" x 13", of the aerial view of Tech Area I that was carried in an earlier issue on our front page. If you wish a copy, send your name and organization number to "Color Print, LAB NEWS; Org. 3162." No phone requests, please.

* * *

AFS (American Field Service) International/Intercultural Programs offer students between the ages of 16 and 18 an opportunity to experience living in a different cultural setting. For American students, two programs are available. One is living in a foreign country for a summer, semester or school year. The other is living with a family in a different part of the US. AFS also brings foreign students into our community. Eldorado High School is currently hosting a student from Chile. If your son or daughter is interested in living in a foreign country as an AFS exchange student, contact Nancy Shefelbine, 298-1674, for further information.

* * *

Reclamation Division 3426 has a limited number of drafting tables with light fixtures which will be offered for sale at \$25 each in the Salvage Yard from 12:10 to 1 p.m., Friday, Oct. 19. The items will be on display at the Yard Oct. 16.

* * *

The Career Enrichment Center holds its 5th annual open house on Oct. 16 from 6:30 to 8:30 p.m. The public is invited to attend and to meet the CEC staff, to tour the planetarium and to learn more about programs being offered. The Center is located at 807 Mountain Rd. NE, one block west of I-25 on Mountain Rd.



CARL HAWK who retired as a tech artist from the Labs in December 1974 is now a radio talk show host on KZIA (dial 1580). Carl's "Talk with Hawk" is aired on Saturday afternoons from 3:10 to 5. He discusses "philosophy and meaningful matters" with telephone callers. A broadcaster for eight months, Carl enjoys the work and finds it "stimulating—a perfect retirement activity. Let's talk philosophy," he says. "Call 255-8755 on Saturday afternoons."

"The Comedy of Errors" by William Shakespeare, with adaptation and liberties by John Gardner (3140), opens at Popejoy Hall Thursday, Oct. 11, and runs through Sunday, Oct. 14, with curtain time each evening at 8:15. A matinee will be presented Sunday at 2:45. Lou Baker (4267) plays two roles—a merchant and a deputy.

John, director of Classics Theater Company, has kept Shakespeare relatively intact but has moved the locale of the play to a Texas/Mexican port town in the year 1850. He's also added an on-stage guitar player and Flamenco dancers. In other words, "all stops are out," John says. Call 277-3121 for reservations.

* * *

Sponsored by the Italian Culture Club, Santa Fe artist Drew Bacigalupa will present a multi-media slide/tape production of buildings and arts of Italy on Thursday, Oct. 11, at 7:30 p.m., in the First Unitarian Church, Carlisle and Comanche Blvds. NE. No admission will be charged.

* * *

Each Saturday afternoon at 2 p.m., during the month of October, the Albuquerque United Artists will present special entertainment for children at the Downtown Center for the Arts, 216 Central SW. Admission is \$1, but adults accompanied by children will be admitted free.

Here's the schedule:

- Oct. 6—Barnaby, Loren and the Bag Juggling and Hand Puppets.
- Oct. 13—Michael Anthony and Leslie, magic and mime.
- Oct. 20—Marionettes by Michael Montenegro.
- Oct. 27—McCormick's Matchbox Circus presents "Punch and Judy."

* * *

Gun collectors have their annual show Oct. 13-14 at the Albuquerque Convention Center. A number of Sandians are active in the group. They tell us that there will be more than \$2 million worth of rare weapons on display. The show runs from 8 to 6 both days.

* * *



Sandia Laboratories Policy Statement

As President of Sandia Labs, I reaffirm our commitment to the principles of equal opportunity. In fiscal year 1980 we will continue our policy of providing equal employment opportunity in all personnel actions for all persons. This policy extends to all of our activities including recruiting, employment, compensation, training, advancement, promotion, transfer, and termination without regard to race, color, religion, national origin, or sex, and in accordance with the laws and regulations concerning age, physical or mental handicap, and disabled or Vietnam Era veterans. Not only will we comply with all applicable laws, directives, and regulations of federal and state governments and their agencies pertaining to equal employment opportunities, but also we will strive to develop the true spirit of these acts throughout the Laboratories.

The program of affirmative action to which we have pledged our efforts has had gratifying results. These efforts plus our conduct of business have advanced the cause of equal opportunity both in the Laboratories and throughout the communities with which we interact. Internally our progress is reflected not merely in numbers of minorities and women on roll but in their greater representation in the professional and technician classifications. The ultimate objective toward which we continue to strive is the optimum use of our personnel resources. Externally our efforts are focused on community involvement, support of educational institutions, and support of minority owned businesses.

Our Affirmative Action Program has been developed with the view of assuring good faith implementation of our equal opportunity policy by all Laboratories people. Information is regularly disseminated through the policy statements, employee news media, and special meetings. Every supervisor is expected to be familiar with our Affirmative Action Program and to take an active and positive role in maintaining and promoting our equal opportunity commitment.

J. R. Garcia, Director of Personnel, 3500, and staff will continue to monitor all equal opportunity activities and report to me on the effectiveness of our Affirmative Action Program, including recommendations for necessary action to ensure attainment of our objectives.

Morgan Sparks



SANDIA'S 1980 Affirmative Action Plan is the theme of this poster now being displayed throughout the Labs. Text of the AA Plan for 1980 was distributed to all supervisors this week. Each vice presidential organization prepared an individual AA Plan for the year.

ESA Makes Clean Sweep At Fair

Like most of us, Reece Gilmer, an electronics technician in Simulation Instrumentation Division 1126, has been troubled by articles decrying the lack of nutrition in commercially prepared foods—especially bakery products. So a year and a half ago, he decided to do something about it.

What started out as an exercise in nutrition ended up winning him three ribbons in the State Fair—one for the best loaf of whole wheat bread, one for the best loaf of yeast bread (all categories) and one for best of show.

Reece enjoyed winning the ribbons. "But the real pleasure," he told us, "is in making and eating the bread." We asked if he'd share his recipe and Reece obliged:

BASIC WHOLE WHEAT BREAD (Makes 3 1/2 lb. loaves)

3 1/2 cups milk
2 2/3 tsp dry yeast
1/2 cup oil or shortening
4 tsp salt
7 1/2 to 9 cups flour
1 egg (room temp) beaten

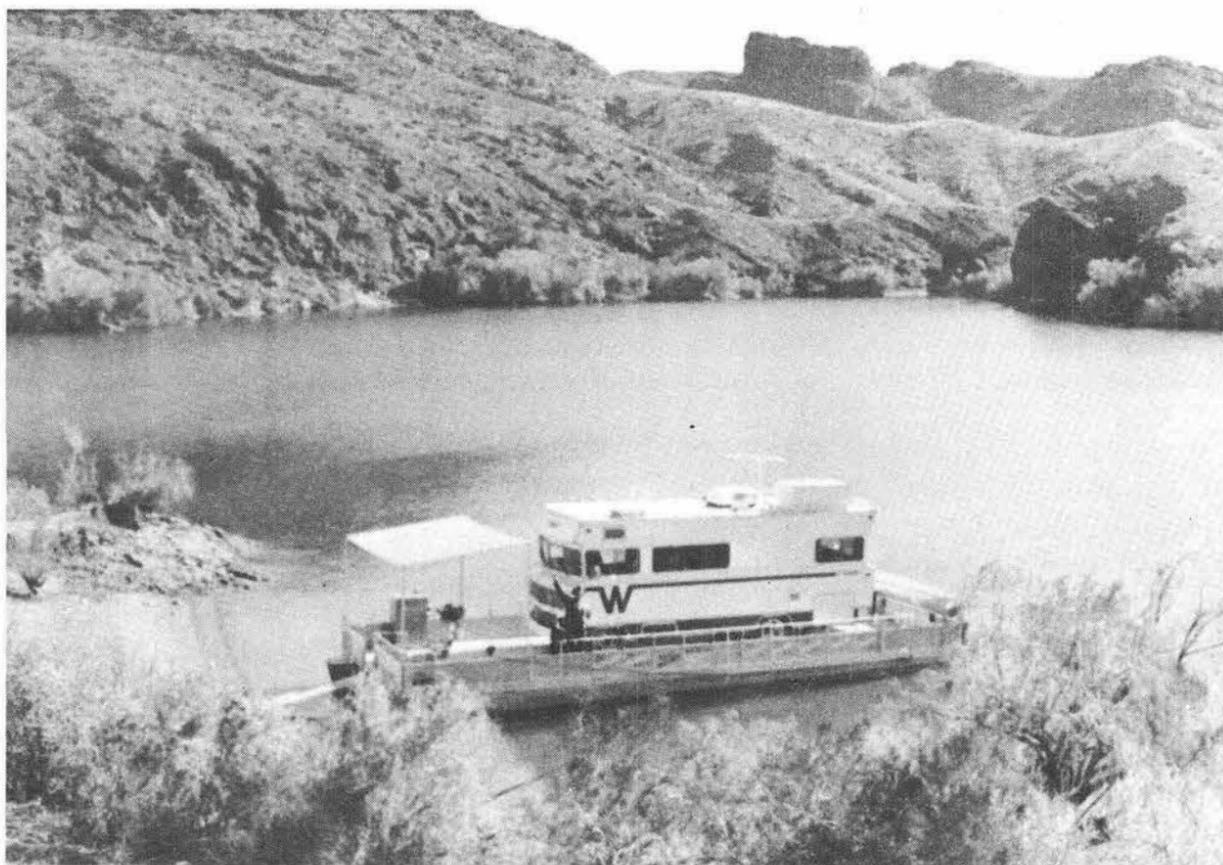
Mix together milk, shortening, sugar and salt and heat to boiling over high heat to scald the milk. Cool to 100°F or less. Mix 2/3 cup warm water (110°F) with 1/4 tsp. sugar; sprinkle dry yeast over this and mix to dissolve. Grind flour. Measure 1 cup; slightly tap the cup with a knife 2 or 3 times, then level it off. If you use packaged flour, fluff it by stirring or sifting before measuring. Using an electric mixer, mix cooled milk mixture. Add beaten egg, mix well, then add yeast and water mixture and mix well. Add flour to liquid and mix until wet. Let the mix rest 10 to 15 minutes, then knead dough for 10 minutes on low setting.

Turn dough into a greased bowl and turn so top is greased. Cover the dough with plastic wrap and refrigerate. Check in 1 to 2 hrs. and punch down. Turn the dough greasy-side up. Cover with plastic wrap, tucking the wrap between the dough and the bowl to keep out air. Replace in refrigerator for 3 to 24 hours. Remove it from refrigerator 2 to 3 hours before forming into loaves. Then knead for 1 to 2 minutes on floured pastry cloth. Separate into 3 equal parts (I weigh them). To expel air bubbles, roll the dough out on floured pastry cloth. The width should be approx. the length of your bread pan. Then, starting at the narrow end, roll the dough tightly as you would a jelly roll. Pinch across the bottom to seal the dough. Place the sealed edge down and with the heel of your hand, pinch the ends. Shape the loaf and place it in a greased pan. Grease the top of the loaf with Crisco.

Let the dough rise approx. one hour, or until it is double in volume. A good place to do this is in the oven, with an oblong pan of hot water underneath. I pull the bread from the oven in approximately 50 minutes to start preheating the oven. When you do this, cover the loaves or keep them out of a draft. Preheat the oven to 325°F. Bake loaves for 70 minutes. Then remove from the oven and place on racks. Butter the tops, cover the bread with a cloth and keep it out of a draft until it's cool.

After a year and a half of baking bread, Reece has become something of a purist. He grinds his own flour and, as you may have noticed in the recipe, he uses the cold rising method. Both techniques preserve the food value of the ingredients.

For the future? Definitely more of the same. "I don't think we could ever go back to commercial bread," Reece says. "My bread is tastier and more nutritious. And, surprisingly, it's cheaper too. By my calculations, it costs about 35 cents a loaf."



Unusual Vacations

Like a Ferry Boat But Different

When you live in our high desert, you begin to develop an affinity for water, and New Mexicans flock to places like Elephant Butte, Conchas and Navajo Reservoir. Last Christmas, Jim Appel (4325) and his wife and daughter came up with a watery vacation on Arizona's Lake Havasu that took advantage of a singularly novel idea: they drove their RV onto a pontoon motorboat, lashed it down, then took off for several days, living comfortably in the RV while cruising the lake.

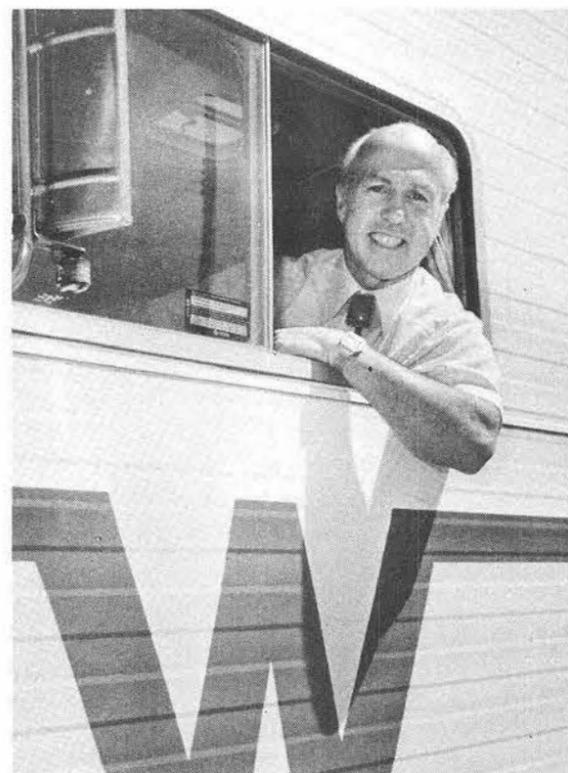
Commercially rented, the pontoon boats are specifically designed for this purpose and can carry vehicles or trailers up to 31 feet long and weighing up to 11,000 pounds. In fact, says one brochure, two vehicles can be accommodated provided both remain within the overall length/weight restrictions.

Power for the boat comes from an 80hp outboard, and the rig is controlled with wheel-type steering and a combination throttle/shift lever. The 40-gallon gas capacity for the engine gives good cruising range. In addition, each boat carries 100 gallons of fresh water and has a 100-gallon sewage capacity. If your camping outfit does not have toilet facilities (required by the Feds), portable marine units can be rented for \$10 for the cruise.

Jim is a little dubious of the performance claimed for the pontoon boats—12 mph. "More like 5 or 6, especially heading into the wind with a large surface area RV. But leisurely cruising is the name of the game, and that was plenty fast enough."

Lake Havasu is well suited to cruising and exploring. Located on the border between Arizona and California, the lake is some 45 miles long and is more than two miles wide in places. Havasu results from the impounding of water by Parker Dam, and its northern tip comes in around Needles, Calif.

AFLOAT in one of Lake Havasu's many coves, the Jim Appel RV (that's Jim below) sits comfortably on the double pontoon craft. The boat is powered by an 80 hp engine. Besides Lake Havasu, boats of this type may also be rented on Lake Powell.



"It's not a place you'd want to cruise in July," says Jim. "In the fall or the spring, or the winter the weather would be very pleasant. In December daytime temperatures were in the 60s . . . couple of times in the early morning I cranked up the heater in the RV."

Typically, the Appels cruised during the day, then pulled in to some inviting spot for exploring and an overnight camp. Jim carried a canoe atop his RV which gave the group additional flexibility.

Besides Havasu, the pontoon boats operate in Lake Powell out of the Hite Marina. Rates in Lake Powell are higher chiefly because that larger body of water makes two engines necessary on the boat as well as other increased capacities.

Jim quoted rates that he had encountered in '78: for Lake Havasu, \$45/day year round or \$280/week. At Lake Powell, it's \$65/day, \$400/week, with a 25% discount between Nov. 1 and April 30. Reservations are desirable, says Jim.

See the Aspens



I like aspens. I like them in any season.

Memories of happy times could be one reason. I recall picnics, fishing and camping trips where aspens were always in the background. Ever

made a campfire of quakie wood? It's clean and white and splits smoothly.

I even like the aspen's many names: *populus tremuloides*, álamo tremblón, quaking asp, quakie. I see an old timer with the Latin name, taller, larger around the middle than the others, with bark a bit more rugged, a shade greyer, a trifle shaggier. Álamo tremblón has a happy sound, like a grove of middle-aged trees chuckling and gossiping together. And, of course, quaking asp and quakie refer to the youngsters—playful upstarts with smooth white trunks and light green leaves.

The American quaking asp, common from Maine to California, extends into Labrador and down to Mexico. It's part of the poplar family, tall and fast growing, with a slender trunk. The bark is white or light grey, becoming darker with age. The leaf, with dark green underside, flutters in the lightest breeze producing an arresting visual effect as well as a characteristic rustling sound. In New Mexico, aspens grow in the Candian Zone (about 8000 ft. elevation).

These are the facts, but there are legends, too. Among the Ute Indians, it was known throughout the land that the Great Spirit would visit the earth at the time of the full moon. All living things awaited him, trembling with anticipation. That is, all things except the haughty aspen. He stood tall and still in the moonlight, refusing to pay homage. This so angered the Great Spirit that he decreed that for all time the leaves of the aspen tree should tremble whenever eyes looked upon them. And so, the legend concludes, that is the reason for the continuous quivering of aspen leaves, even when there is no breeze.

Picture a dark green, forested hillside with, here and there, a cluster of aspens just beginning to show their pale spring green; or the mountain meadow with its stands of aspens whispering in the summer sun; or the trees in their autumn dress of gold; and finally, those bare branches casting stark shadows on the snow.

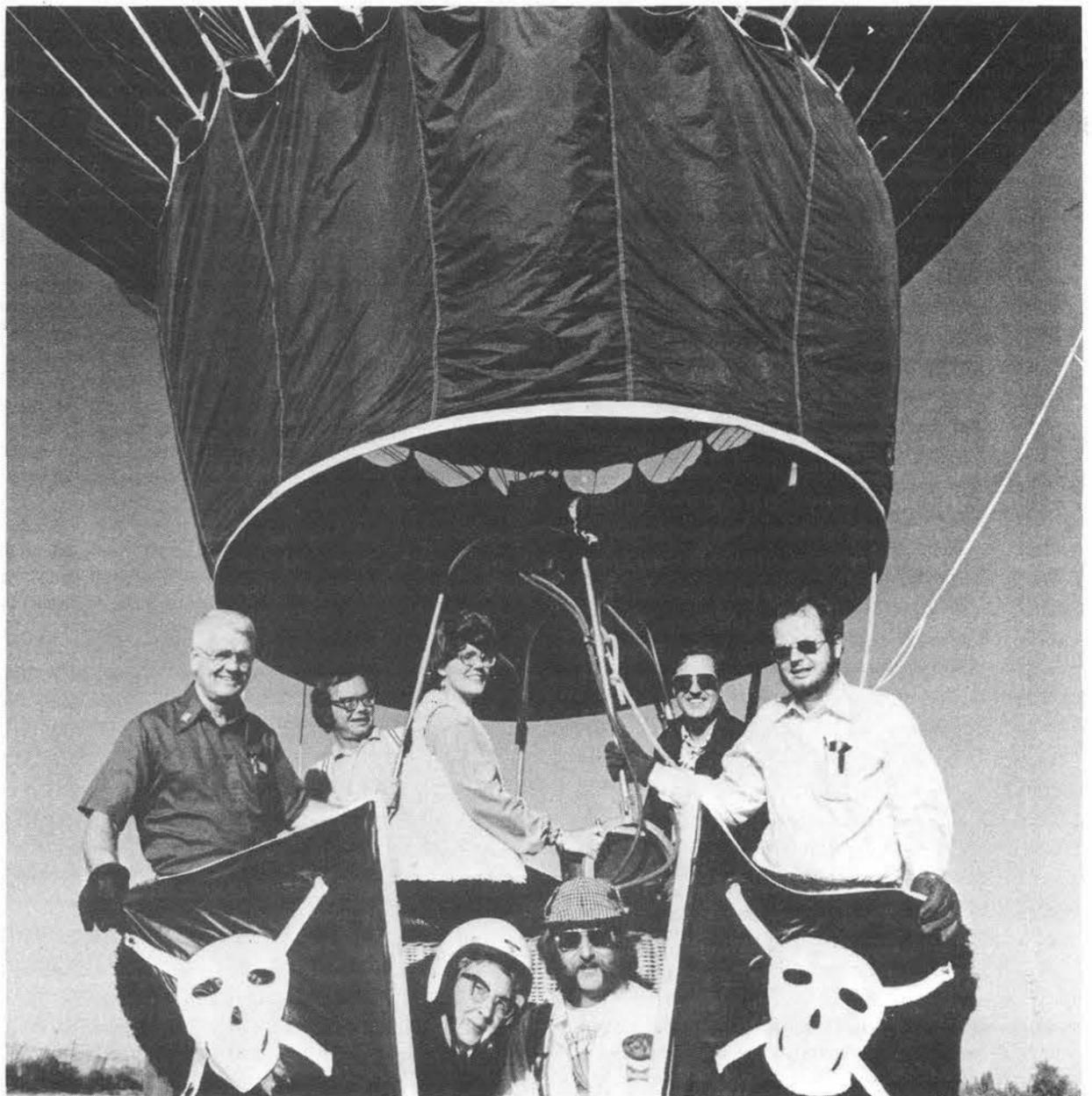
I like aspens. •nt

'Rights of Children' Lecture

"The Legal Rights of Children," a lecture by Prof. Lee Teitelbaum, UNM Law School, will be presented at 7:30 p.m., Wednesday, Oct. 10, in the Anderson Room of Zimmerman Library, UNM campus. The lecture is sponsored by the Friends of the University of New Mexico Libraries as part of their "Year of the Child Lecture Series." The public is invited and admission is free.



ASPENS in winter. Photographed by Wayne Gravning (3153).



SANDIANS participating in the 8th Annual International Hot Air Balloon Fiesta starting tomorrow include Tommy Thompson (1243), Bill Jacklin (1736), Carole Domres, Ron Domres (2641), and Norm Samuelson (2641). Kneeling in front are Myrtle Domres and John Ashworth (3434). The balloon is the "Jolly Roger" which proudly flies a skull and crossbones insignia. More than 400 balloons are expected to participate in the Fiesta.



PHYLLIS WILSON (3161) and her parents combine effort and share produce like this. The gardens (two) are at Phyllis' home in the North Valley. "I couldn't handle this by myself," she says, "but with what I can do, and my folks coming out several times a week, we have lots of vegetables for the table and the

freezer. My father uses worm castings and manure for fertilizer and we spray with insecticide throughout the season." Zucchini grows especially well in Phyllis' garden. "Fortunately," she says, "I like it. I probably have the largest collection of zucchini recipes in town."

The Sandia Gardeners



DEAN IRVIN (3543) has a healthy stand of red and yellow raspberries. The berry bushes, as well as the entire garden, benefit from his compost box. Dean recycles all garden debris. In the fall, he gathers leaves in plastic trash bags and stores them in the garden. Then, the following spring, he dumps the decaying leaves into the box, adds a little soil, an occasional shot of commercial fertilizer, and grass clippings. He rotates the decaying material a few times and by the following spring has a new supply of natural fertilizer and soil conditioner.



BOB LUNA (4551) says the only way to grow large, worm-free apples, like these Golden Delicious, is to follow a strict routine: spray the tree with insecticide every two weeks from blossom time to mid-July; and prune every year during the tree's dormant stage (December). Bob suggests pruning the tree to ladder height and thinning to let the sunshine in. "Don't let your trees get so tall that you can't spray them or pick the fruit," he cautions.

At work, Sandians are long on state-of-the-art science and technology. Does this trait carry over into leisure time activities as well? LAB NEWS checked out four who garden extensively. Our conclusion: there's more art than science in their approach to gardening, with emphasis on traditional methods of coping with bugs, marginal soil, and other garden challenges.



NO FORMAL GARDEN for Chuck Cockerleas (3162). Along with this eggplant—scattered among the roses, nasturtiums and morning glories—are carrots, beets, beans, tomatoes, broccoli and Brussels sprouts. "We have eggplants in the garden every year," Chuck says. "They have been disease- and insect-free, the foliage and blooms are attractive and the fruit is good to eat!"

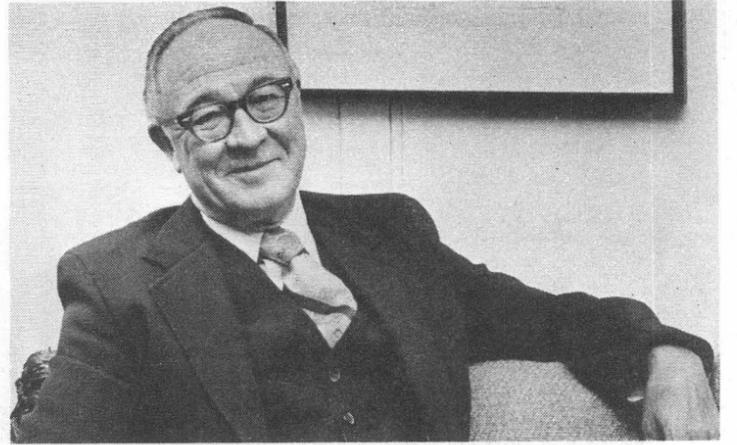
MILEPOSTS

LAB NEWS

OCTOBER 1979



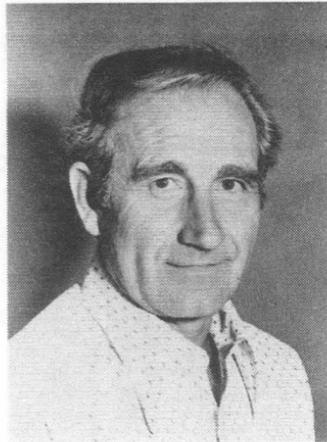
Iona Ratcliff - 8273 15



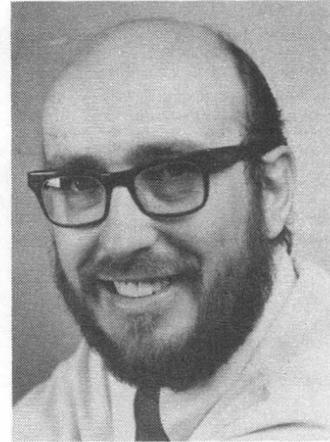
Ray Powell - 3000 35



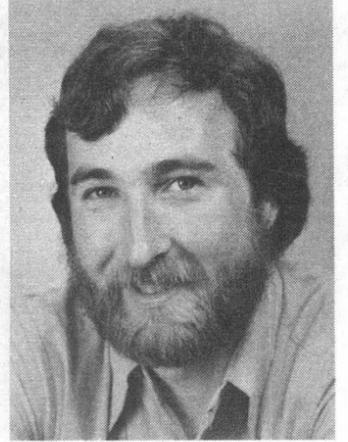
Bill Ryan - 8264 30



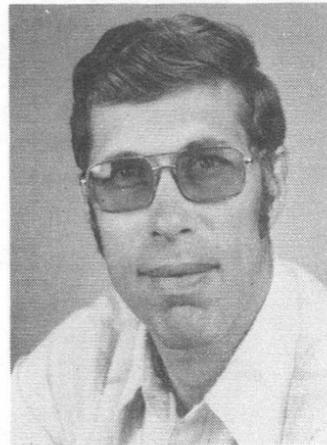
Al Brazda - 1171 20



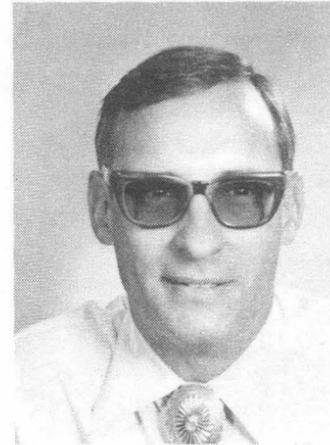
Wil Jorgenson - 8123 10



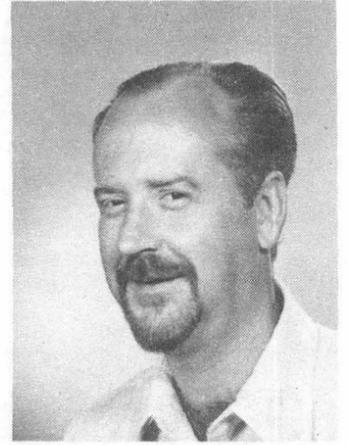
Daniel Morse - 8347 10



Mel Callabresi - 8121 10



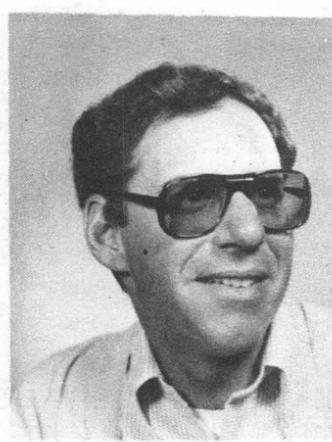
David McArthur - 4423 10



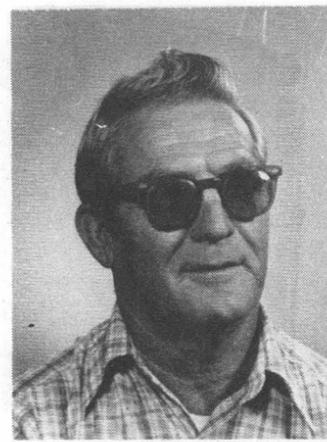
Merle Riley - 4211 10



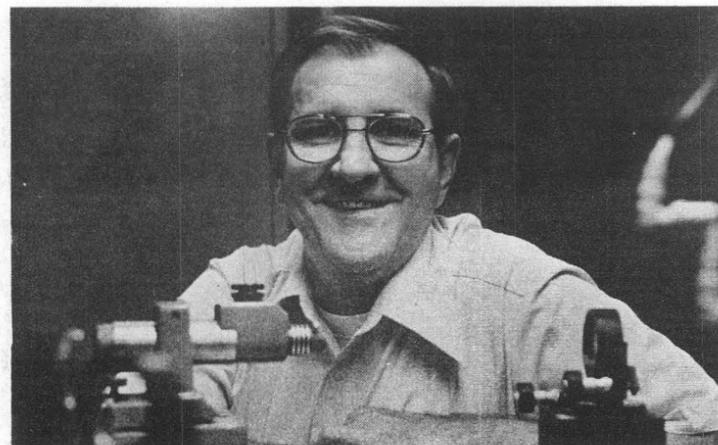
Lou Rosnoski - 8412 25



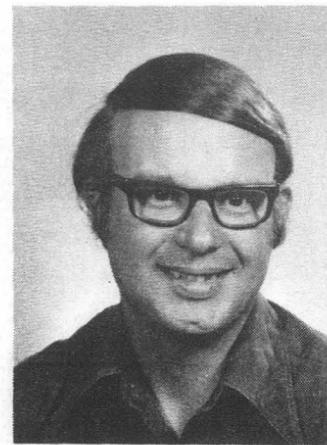
Joel Lipkin - 5532 10



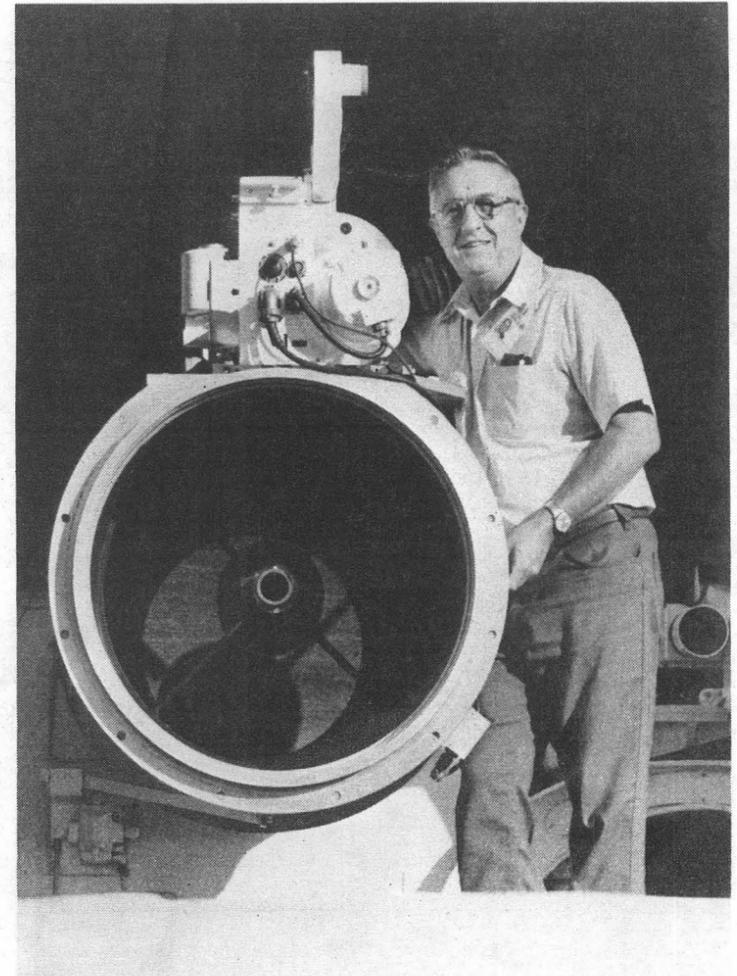
Robert Treharn - 3421 15



Murphy Landry - 2152 15



James Rice - 4212 10



Dave Schafer - 1171 25



Ray Wilkinson - 1541 20



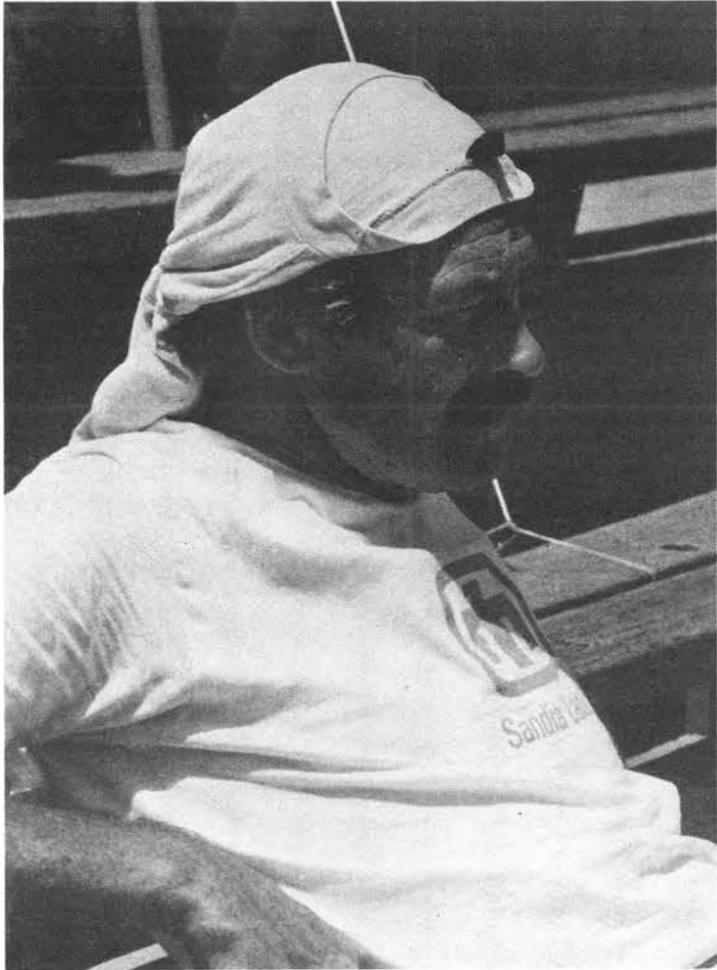
Frank Neilson - 1550 25



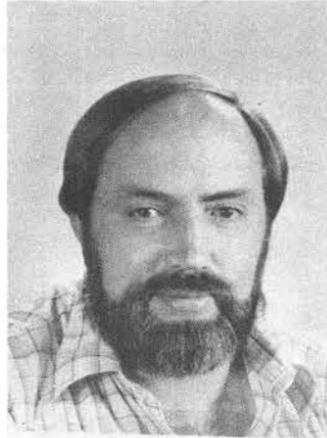
Roger Goode - 1554 10



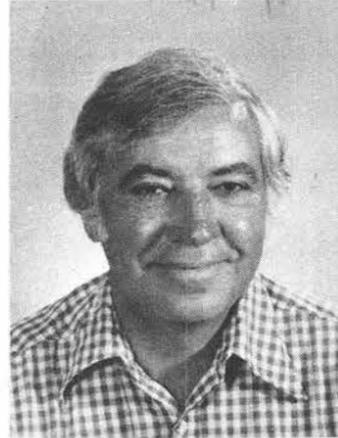
John Brouillard - 1131 25



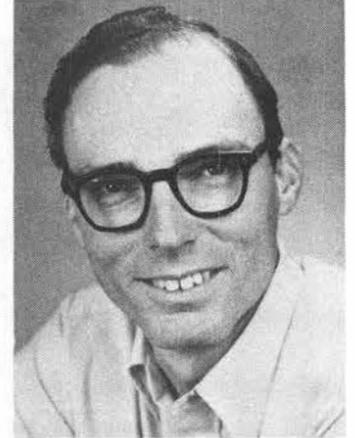
Bill Spencer - 8100 BTL 20



Ronald Ward - 1483 10



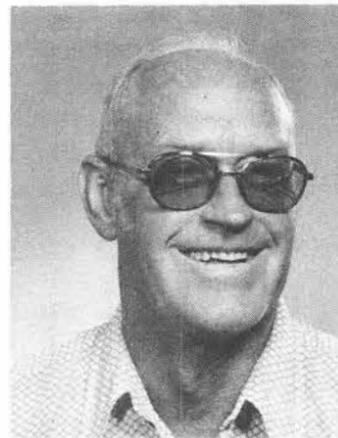
Joseph Valdez - 1471 25



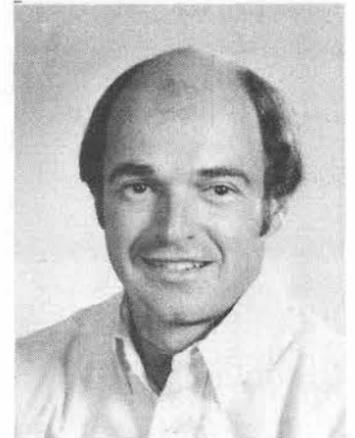
John Keilman - 8122 10



Gary Kirchner - 8465 10



Pat Brinkley - 1541 15



Francis Gerstle - 5844 10



Herbert Stanley - 1585 10



Jess Tidmore - 3521 15



John Walter - 2533 10



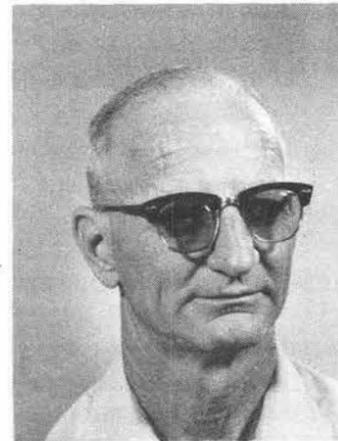
Walter Myers - 3715 25



Judy Hawbaker - 1250 15



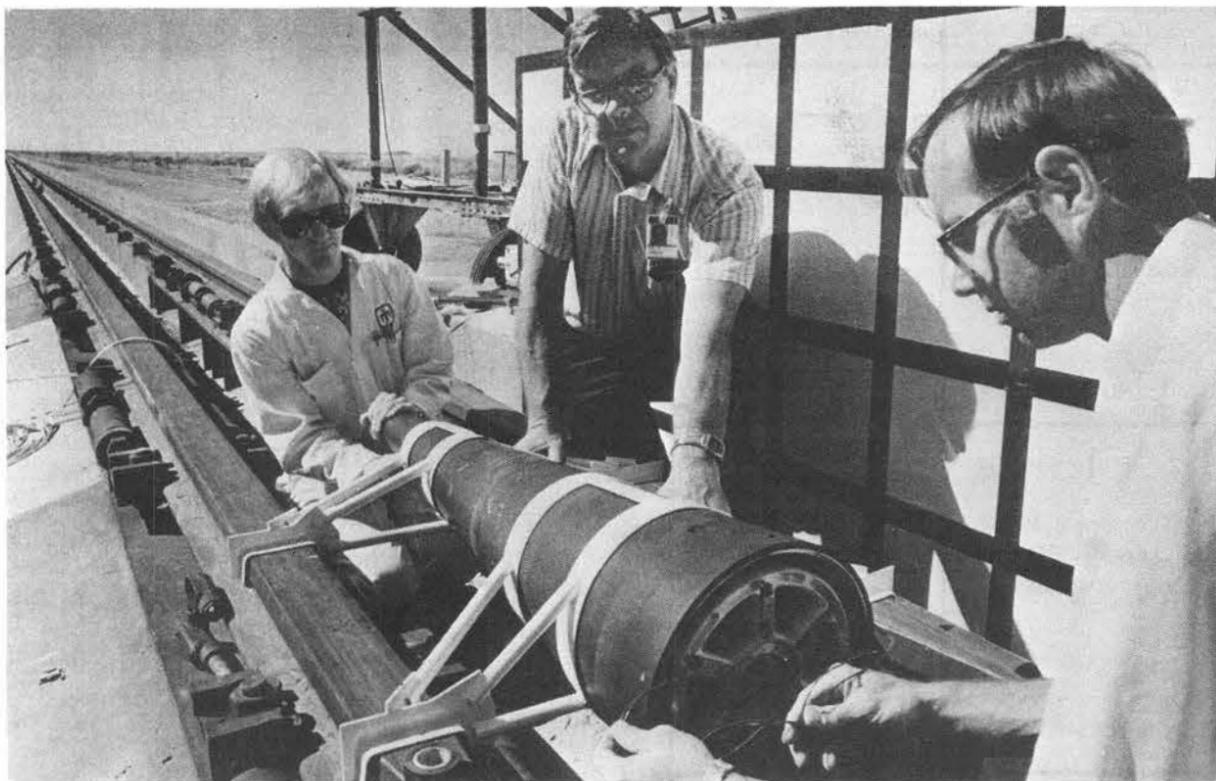
Richard Stratton - 5612 10



Harry Mason - 1732 25



Lucille Cafferty - 2550 20



THIRTEEN YEARS TO REACH ONE THOUSAND—Sandia's 5000-foot sled track has been used to test bomb and missile components and systems since Aug. 18, 1966. Last week, Track and Cable Division 1535 conducted test number 1000. John Arnold, left, and Dave Preston, right (both of 1535), make adjustments for final development test on mass jettison/mass fragmentation system developed by Exploratory Systems Division 5623 under project leadership of Ron Johnson, center.

Wildlife Film Series Set at Popejoy Hall

The Audubon Wildlife Film Series begins its 10th season at Popejoy Hall this month. The series of six nature films, co-sponsored by Popejoy Hall and the Central New Mexico Audubon Society, and personally narrated by the photographer who made the film, begins on Oct. 22 with a film entitled "Into Australia's Red Center."

Other films included in the series: "In the Domain of the Leopard," Nov. 13; "Wildlife Safari to Ethiopia," Jan. 7; "Return to the Tetons," Feb. 26; "Grass-roots Jungle," April 28; and "Gila Wilderness-Western Adventure," May 6.

Information and season (multiple-admission) tickets may be obtained from the Central New Mexico Audubon Society by calling 299-5384.

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 (814/6).

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. Include name and organization.
8. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

MISCELLANEOUS

SANDIA LABS caps, new shipment now in, \$4.25, LAB NEWS office, Bldg. 814, S. Hwy. 14 Village Project.

SOFA 100", green, beige, gold herculon, \$125; 9x12' green area rug, \$55. Bunting, 294-3431.

DECORATIVE fireplace, 220V, 20,000 BTU, 5'x3', thermostatic control, cream top, black base, fire effect lighted log, \$250. Pennington, 256-9506.

SHOP SMITH: table saw, drill press, lathe combination, \$400. Asher, 299-1668 after 6.

DENTIST CHAIR, old, needs base, \$50. McCoy, 821-2509 after 5.

AQUARIUM tanks, 10-gal. metal perforated tops, \$4; croquette set, \$5; 4-tray cantilever tool box, \$10. Shepherd, 299-9066.

GAS RANGE, fully auto., avocado, dbl. oven, Sears, \$250. Lutheran, 293-8364.

DISPLAY CASE, glass w/light, 4' 10" long, 2' 1" wide, 3' 8" high, \$100; bathroom sink, \$5. Peterson, 256-7514.

KENMORE electric dryer, 3 yrs. old, \$125; O'Keefe & Merritt dishwasher, 8 yrs. old, \$25; used 11'x11' shag rug, \$20. Luethe, 292-5328.

SKIS, Rossignol freestyle J 140's w/ Salomon 101 bindings, \$70; Cabor boots, size 5 or 5½, \$20, (fit skis above); 1 pr. Nordica boots, size 9, \$20. Longfellow, 299-7062.

NEW 30-30 shells, super X's 150 grain, \$5 per box. Worden, 298-1915 after 5.

SEIKO quartz chronograph, alarm, date, stop watch, etc., new full guarantee, retail \$250, sell \$170. Underhill, 294-5774 after 5:30.

LOUDSPEAKERS, 1 pr. British Celestion UL-10," cost \$600, sell \$350. Jones, 298-8492.

STEREO GEAR: Dyna FM tuner, amplifier, preamplifier, Garrard turntable, manuals; wide rims, five hole, tires. Pryor, 344-2931.

BEDROOM SET: db. bed w/poster headboard & footboard, chest, dresser, end table, \$75. Garcia, 821-9738 after 5:30.

DOG SHIPPING CRATE, 16"x24"x17", Sky Kennel, \$17. Hendrick, 296-

2163. **AM RADIO, removed from '78 Datsun B210, \$25.** Bogdan, 821-9242.

STEREO CONSOLE: AM/FM w/built-in 8-track & record player, \$250; GE washer, \$150. Aragon, 292-5899.

WHIRLPOOL 17 cu. ft. chest freezer, 4 yrs., \$250 or best offer; 32"x80" exterior door, \$35; several yards carpet pad, \$10. Wilcoxon, 821-1621.

RANGE w/self-cleaning oven, counter top cooking surface & microwave oven, 3 yrs. old, \$500. Katz, 822-0644 after 5:30.

UNITED AIRLINES 50% discount coupon, \$45. Groll, 898-0641.

KITCHEN SINK, white porcelain on cast iron, 21"x32", dbl. basin, complete w/stainless steel rim, \$15. Joseph, 299-6989.

CAPTAIN'S BED, Sears, 3-dwrs. & 2 bookcases under single bed, maple finish, w or wo/mattress, \$100. Beard, 821-0309.

SOFA, 7' & matching chair, black & white velour, \$200. O'Bryan, 292-4273.

BUNK BEDS: triple decker, all metal, complete w/springs & mattresses, \$240. Garcia, 255-3201.

AKC GERMAN Shepherd puppies, black & tan. Kramm, 281-5379.

20" boys' bicycle, 20" girls' bicycle, 3-spd., inch worm. Riley, 869-2119.

SHAG CARPETING: approx. 58 sq. yds., green & gold, \$50. Rivord, 296-9151.

GLASS & BRASS fireplace screen, 36-40" wide, 28-32" high, \$70. Jackson, 265-4562.

KNEISSL Short Magic skis, 180 cm, mounted, \$35. Lipkin, 881-6038 after 5.

FIREPLACE SCREEN, free-standing, brass, w/pull chains & tools; 3 5-gal. glass jugs, best offer. Kubiak, 265-5625.

GOLF CLUBS & BAGS, men's & women's, shoes 8 med. Ambrose, 266-9153.

YARD TRACTOR, 12 hp w/dozer blade, 3-pt. hitch, scraper-scarifier bucket, plow, wheel weights, chains, etc., \$800. Lieber, 298-1101.

AUTO. Whirlpool washer & GE dryer, both white enamel, pair \$200. Clark, 296-3924.

TRACTOR, JD 60, fresh rebore, re-worked trans., new paint, PS, wide front end, powerlift. Risse, 299-5002.

CLARINET, Selmer Signet Soloist, w/case. King, 281-3186.

2 FORD ¾-ton 8-lug wheels, \$15 ea.; 1 wheel w/tire, \$25. Bland, 265-6286.

TWO circular clothes racks, \$45 ea.; elec. typewriter, \$50; adding machine, \$30; jewelry showcase, \$100; check-out counter, \$40. Minor, 865-5117.

SCREENDOOR, 3', unused; Chevy truck wheels. Edenburn, 869-2911.

COMPLETE ham gear. Harvey, 821-9464.

CHILD'S large spring horse, \$15; indoor wooden slide, \$15; Larson, 299-2384.

AKC Dachshund puppies, black &

tan, 6 wks. old, parents on premises, \$125. Puccini, 255-0568.

CARPET, red plush, 13'x17', w/HD pad, cost \$400 new, sell \$115. Smith, 299-1981.

KITTENS, free, male, solid black; tan & white female, ready now. Stevens, 299-6086.

CAMPER TIRES, 2 ea. 1200x16.5 Armstrong 10-ply w/8-hole rims, fit Dodge, Chevy, Ford, 2000 miles, \$250. Martinez, 293-2301.

TWO swivel style bar stools, black & chrome, lg. padded seat & back. Nance, 296-8255.

FIVE TIRES (3 good) w/rims, G78-15 snow/mud from Ford 4WD; floor buffer; drill press & accessories. Lambert, 293-8825.

THREE tires & four rims for VW bug, \$35. Fitzgerald, 298-4143.

MAYTAG WASHER, \$35; Sears elec. dryer, \$25. Baxter, 344-7601.

PATIO COVER, 15x14.5 sectional steel, 3 steel upright posts, rain gutter one side, still standing, price negotiable. Lane, 298-3366.

1951 JOHN DEERE Model A tractor, misc. equipment, trade for smaller tractor, trailer, compostor or make reasonable offer. Windsor, 897-0547.

HO TRAINS, sell or trade any quantity; Photographic print dryer, \$15. Mayer, 294-3368.

ELECTRIC KNIFE, \$7; Clairol hair-setter, \$12; 3 framed needlepoint clown pictures, \$9; garage door hardware, \$9. Joseph, 299-6989.

QUEEN SIZE firm mattress, box springs, frame & headboard, \$200. Johnson, 898-9226.

HOT WATER radiator & baseboard covers: 2 ea. 8', 1 ea. 6', 1 ea. 4'. Bailey, 298-0517.

BACK YARD SALE: 5 families: furn., glassware, clothing, yard, auto tools, junk, Oct. 5-7, 7512 Sky Ct. Cr. NE. Miller, 883-6986.

31 CU. FT. Sears freezer, \$150; refriger./freezer, \$50; coppertone portable dishwasher, \$150. Cooper, 869-2198.

FORD PICKUP WHEELS: 16" split rim, 8-hole, for ¾ ton, have 3, \$15 ea. Souder, 281-3121.

GARAGE SALE: golf clubs, ping pong table, children & adult clothing, misc. household items, tomorrow 9-5, Sun. 10-5. Badillo, 1608 Hiawatha NE, 298-3659.

COLOR TV, GE 19", needs repair, \$25. Boberschmidt, 266-4579.

COLOR TV, Zenith 23", wood cabinet w/fold-down front, guaranteed, \$150. McConnell, 255-2488.

30-06 ENFIELD action w/4/9x variable scope, \$100. Zucuskie, 881-4086.

FRIGIDAIRE auto. 2-cycle washer. Harrison, 883-5411.

TRANSPORTATION

74 PORSCHE 914, yellow, NADA \$4275, sell for \$3500. McCoy, 821-2509 after 5.

77 YAMAHA 360, 6500 miles, royal blue & gold, \$895. Baca, 298-4521.

76 CHEVY Nova hatchback, 6-cyl., AC, AT, PB, PS, white w/blue trim, \$2995. Brooks, 299-1884.

70 VW squareback, low mileage on rebuilt engine, good brakes, new tires & battery, \$1100. Gammon, 268-1032.

77 TOYOTA Celica lift back, 5-spd., AC, AM-FM. Starkey, 877-2717 or 877-7515.

'68 MERCURY Cougar, 302 engine, R&H, \$950 or best offer. Armijo, 877-4749.

'61 AMC RAMBLER Classic, \$700; '72 Plymouth Duster, 318 V8, stereo, 8-T, booster, new tires, mag wheels, CB, air shocks. Bennett, 296-8041.

RV: '78 Brougham model 222A, 22', 440 Dodge, Cruise Control, cab air, AM/FM cassette stereo. Curtis, 881-2440.

70 VW BUS, AM/FM radio, carpeted, \$1200. Anderson, 296-0892.

'67 JEEPSTER Commando Classic, AT, AC, PB, 46,000 miles, top rack, best offer over \$2200. Rainhart, 821-3690.

KAWASAKI KZ-400-D3, custom paint, less than 2100 miles, \$800 or best offer. Monson, 298-7969.

70 BUICK Electra, \$500 firm. Wolfe, 266-1869.

74 DATSUN 610 stn. wgn., \$2200. Harper, 296-2962 after 5.

73 CHEVY Impala, 350 V8, PS, PB, AC, 4-dr., 61,000 miles, \$1150. Jones, 281-3617.

'64 COMET convertible, body very clean, running gear good, engine needs work. Munson, 299-1400.

76 DODGE Aspen, Spt. Cpe., PS, PB, AT, AC, cruise control, 6-cyl., 51,000 miles, \$2550. Smith, 294-3413 after 4:30.

76 CHRYSLER Cordoba, sunroof, AM/FM stereo tape, leather interior, cruise control, new tires, new brakes, reg. gas, 38,000 miles, \$3800. Boyd, 821-8769.

'78 HONDA 750K, 6900 miles, wind-jammer, luggage rack, \$2100. Fuentes, 255-7692.

'79 FAIRMONT 4-dr., 4-cyl., 4-spd., decor group, 7000 miles, \$400 take over payment, \$114.86, refinance? Babb, 898-8591.

TRICYCLE, all terrain vehicle, w/knobby balloon tires, has 7.5 hp Wisconsin air cooled 4-cycle engine, \$325. Cover, 881-3860.

'65 CORVAIR MONZA, 12,000 engine miles, cherry exterior, \$1000 under book, make offer. Barth, 266-4876.

ALL TERRAIN vehicle - Coot - hill climbing, snow, mud, sand, \$895; 10-spd. bicycle, \$65. Gonzales, 247-9406.

'68 CHEV. truck/camper, ¾ ton, 327 eng., AT, Royal Coachman 8½' camper, range, oven, jacks, sleeps 4, \$1700. Johnson, 898-9226.

'69 MERCURY Marquis, loaded, auto., new front tires & battery, snow tires included. Martin, 296-0941.

73 COUGAR, \$2150; cabover camper, 11' Mobile Traveler, self-contained, \$1500 or trade for small travel trailer. Hansen, 898-3173.

78 YAMAHA IT 175, 1800 miles, \$850. Lassiter, 298-2461.

REAL ESTATE

4-BDR., 1½ baths, den w/kiva fp, near Lomas & Tramway, \$64,900. Baca, 293-8710.

WILL SWAP: 2 acres 7 miles east of Moriarity for motor home in good condition. Danforth, 294-0212.

3-BDR., 1½ baths, lg. LR & kitchen, nice yard, 4913 Ponderosa NE. Weber, 883-0529.

TOWNHOUSE, Little Turtle addition, 3-bdr., 2½ baths, fp, carpeted, dishwasher, disposal. Archuleta, 266-8989.

½ ACRE +, Valencia, 10'x36' mobile home w/12'x42' addition, fp, 2-bdrs., 1½ baths, 2 wells, pumps, fruit trees, pump house w/storage, \$28,000, \$6000 down. Dunning, 865-9479.

SIX commercial lots on Highway 41 in downtown Estancia, next to Co-op Restaurant, \$22,500 w/\$10,000 down. Johnson, 255-2846.

8.2 ACRES irrigated land, cottonwood trees, concrete ditch, 1½ miles south of Los Lunas, \$88,500, trade or terms. Windsor, 897-0547.

'54 MOBILE HOME, 8x39', 1½ bdr., new furnace, \$1950. Sealey, 296-3153.

1950 SQ. FT., 4-bdr., 2½ baths, LR w/fp, FR, ample storage and bookshelves, 9908 Pitt Place NE, \$73,000. Snow, 296-5148.

FOR RENT

3-BDR. HOUSE, 4 mi. from Base, 30x30 basketball court. Martinez, 298-8812.

NE HEIGHTS, tri-level, 2000 sq. ft., 4-bdr., 2 bath, lg. den w/fp, \$465/mo. McCoy, 821-2509 after 5.

NEW 2-bdr. 4-plex, 1000 sq. ft. + storage, carpet, drapes, fp, appliances, fenced yard, near base, W/D hook-up, no pets, \$250/275/mo., water paid, \$150 DD. Chen, 298-2422 after 5.

SKI CHALET, near Taos Ski Valley, deluxe accommodations, fully equipped kitchen, sleeps 8. Peet, 294-1250.

WANTED

FOR SPARE PARTS: Honda Trail 90 motorcycle w/damaged engine or trans. Kidd, 299-0035.

USED PIANO. Tripp, 266-4626.

STANDARD 32" solid door. Harrison, 883-5411 after 5.

TRANSMISSION, 3-spd. for '62 F-100 Ford pickup, must be "long" type. Conrad, 299-3313.

WORLD BOOK encyclopedia set. Beagle, 296-5300.

SLIDE PROJECTOR, 35mm. Mayer, 294-3368.

FORD shop manual covering 1966 or '67 Mustang. Hansen, 898-3173.

TO RENT FOR DAY in October: person powered wheeled transporter for carrying 100-pound load on mountain trail. Stamm, 255-2640.

Coronado Club Activities

Davy Crockett Rides Again

HAPPY HOURS—Tonight La Ultima, featuring Yolanda on piano and Paul Metoyer (3432) on drums, plays for dancing while fried chicken (all you can eat) tops the buffet menu. Next Friday, barbeque beef and pork ribs are the buffet attraction. Country Showmen play for dancing. Happy Hours start right after work on Fridays and swing until midnight with special prices (cheap) in effect. Call the Club office, 265-6791, by midweek to reserve buffet tickets.

SINGLES MINGLE tonight right after work in the Eldorado room. Music and munchables are on the agenda.

TOMORROW at Variety Night the movie is Walt Disney's famous "Davy Crockett—King of the Wild Frontier." Super sandwiches are available at 6, the movie starts at 7. Admission is free to members.

TEENAGERS should enjoy a disco event Saturday, Oct. 13, from 8 to 11. Ricci Dustin is in charge of the music. Member parents should pick up tickets for their youngsters.

SANADO WOMEN hold an Arts and Crafts Fair Tuesday, Oct. 9, from 10:30 until noon or so. It's a brunch with all kinds of goodies.

TRAVEL DIRECTOR Ed Neidel (2160) says that now, *right now*, is the time to sign up for the Disneyland package scheduled Oct. 24-28 during local teacher's convention. Prices start at \$248 for adults (dbl. occy.) and \$147 for children under

Congratulations

Mr. and Mrs. Dave Baldwin (1253), a son Aaron, Sept. 19.

You Bet Your Sweet Lungs
Cigarettes are Killers!
American Cancer Society

FRIDAY	SATURDAY
<p>5—HAPPY HOUR</p> <p>Fried Chicken (All you can eat)</p> <p>Adults \$3.50 Under 12 \$2.25</p> <p>"LA ULTIMA"</p> <p>4:30 SINGLES MINGLE</p>	<p>6—VARIETY NIGHT</p> <p>"Davy Crockett - King of the Wild Frontier" (Movie)</p> <p>Super Sandwiches— 6 p.m. Show - 7 p.m.</p>
<p>12—HAPPY HOUR</p> <p>Western Buffet BBQ Beef - BBQ Pork Spare Ribs</p> <p>Adults \$5.25 Under 12 \$2.60</p> <p>"COUNTRY SHOWMEN"</p>	<p>13—TEEN DISCO 8:00-11:00</p> <p>"RICCI DUSTIN"</p> <p>Members \$1 Guests \$1.50</p>

12. Ed also has packages for a Caribbean cruise in January, Europe and Hawaii tours with flexible schedules. See Ed in the lobby tonight between 6 and 7.

A REMINDER—Coronado Club facilities are available for rental for organizational Christmas parties. Call the Club office, 265-6791, for details.

CORONADO GRANDSQUARES are sponsoring a 10-week "brush-up" workshop in square dancing Monday evenings at 8 in the main ballroom. Cost is \$10 per person for the series or free if you join the

Retiree Deaths

[July—September 1979]

Willard Converse (73)	July 27
Janet Currie (84)	Aug. 3
Huel Brashears (86)	Aug. 16
Jose Montoya (57)	Aug. 21
Julian Jaramillo (76)	Sept. 12
Chester McMillan (84)	Sept. 20

Sympathy

To Bob Gregory (2141) on the death of his father in Phoenix, Sept. 7.

To Don Rost (3442) on the death of his father in Pulaski, Tenn., Sept. 19.

To Margaret Carroll (3443) on the death of her mother-in-law in Dallas, Sept. 20.

To Rosalie Crawford (1) on the death of her mother in Deming, Sept. 21.

To Jake Young (1472) on the death of his mother-in-law in Albuquerque, Sept. 24.

Grandsquares. For more information, call the Club office, 265-6791.

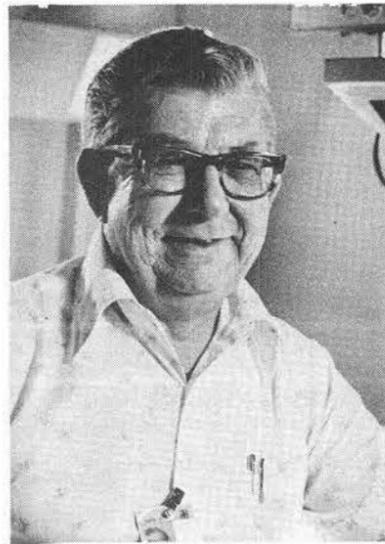
CORONADO SKI CLUB meets Tues., Oct. 16, in the main ballroom. Social conditioning starts at 7, a fashion show by Aspen Leaf Sporting Goods at 7:30. A "giant freebie" goes as a doorprize.

UPCOMING EVENTS—Kids' Halloween Party, Oct. 31; Oktoberfest, Oct. 20.

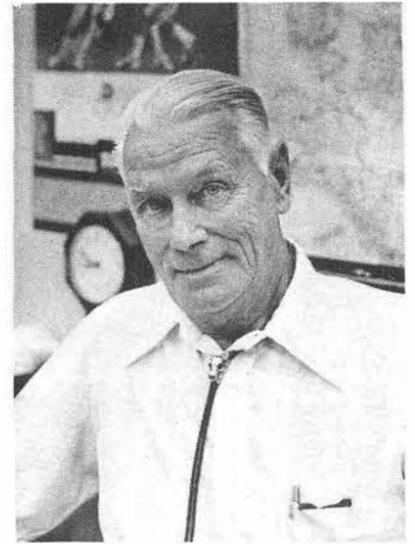
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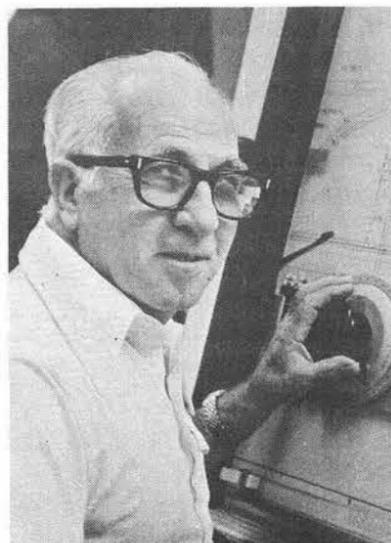
Ruth Bontrager (3532)



J. B. Baskett (2432)



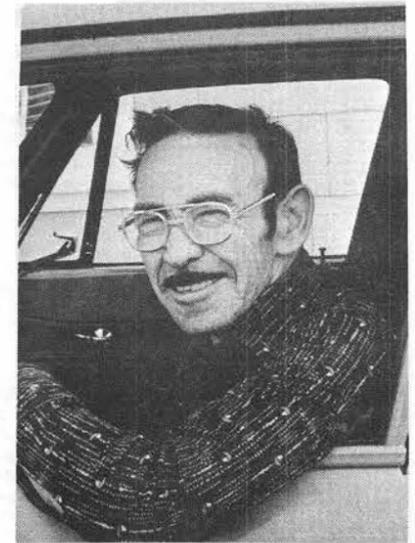
Al Hobbs (3311)



Americo Cianchetti (2451)



Wilburn Walker (3432)



James Sanchez (3614)