



STRATCOM VI, scientific balloon experiment flown last week, is readied for launch at Holloman AFB. The balloon rose to an altitude of 127,000 ft. (38.7 kilometers) expanding to a volume of 15.6 cubic feet and a diameter of 347 ft. during its 35-hour flight (much of it visible from Albuquerque). Important data for upper atmosphere research was gathered. "Highly successful," is the way Frank Hudson (5443), scientific director, describes the experiment. Balloon launch was featured by NBC national TV. Additional photos on page five.

### **New Affirmative Action Plan**

— Page Six

## **New \$1.6 Million SYNTHOIL Project For Sandia Labs**

Sandia Laboratories was recently awarded a \$1.6 million project by ERDA/Fossil Energy to perform chemical studies for the SYNTHOIL process. Developed by ERDA's Pittsburgh Energy Research Center (PERC), SYNTHOIL is a coal liquefaction process in which coal, subjected to heat and pressure with the addition of small amounts of hydrogen and the introduction of a catalyst, is converted into fuel oil.

The 24-month project calls for Sandia to perform three studies to support the development of the SYNTHOIL process. The first study is to determine the causes of catalyst deactivation and develop techniques

### **'New Urgency' to Drive**

## **ECP Campaign Starts Today**

Annual Employees Contribution Plan drive starts today at Sandia. Directorate representatives and solicitors are holding meetings, contacting co-workers, distributing literature, and showing films throughout the Labs.

"There is a new urgency to this drive," Art Clark (9330), ECP Chairman, says. "The Albuquerque United Way goal this year is up 10 percent — \$2.2 million. This is the minimum amount required for the 30 United Way agencies to continue to function at their current level. Inflation is the problem and we all have to work a little harder, be a little more generous."

Sandia's ECP plan includes United Way agencies plus eight other national health and welfare agencies. Currently some 85 percent of Sandians contribute to ECP. Average gift of contributors is \$83.60.

"Traditionally, Sandians contribute 20 percent of the total downtown goal. This is an impressive figure, and the community counts

on us," Art says. "In the past couple of years, however, Sandians have been falling slightly behind the community contributions. The definition of 'Fair Share' gift, for instance. At Sandia, minimum Fair Share is defined as an hour's pay per month. The community uses a sliding percentage-of-salary scale. For example, a \$15,000 annual salary is pegged as one percent for a Fair Share.

"Our problem," Art says, "is that only about 85 percent of ECP funds goes to the Albuquerque agencies. The rest is distributed among the eight national agencies that are members of ECP. And this is the intent of ECP — one payroll deduction for the major charities. It is still the intent of ECP and will remain so. The problem is that we appear to be 'short-changing' the local agencies. We have to work on this."

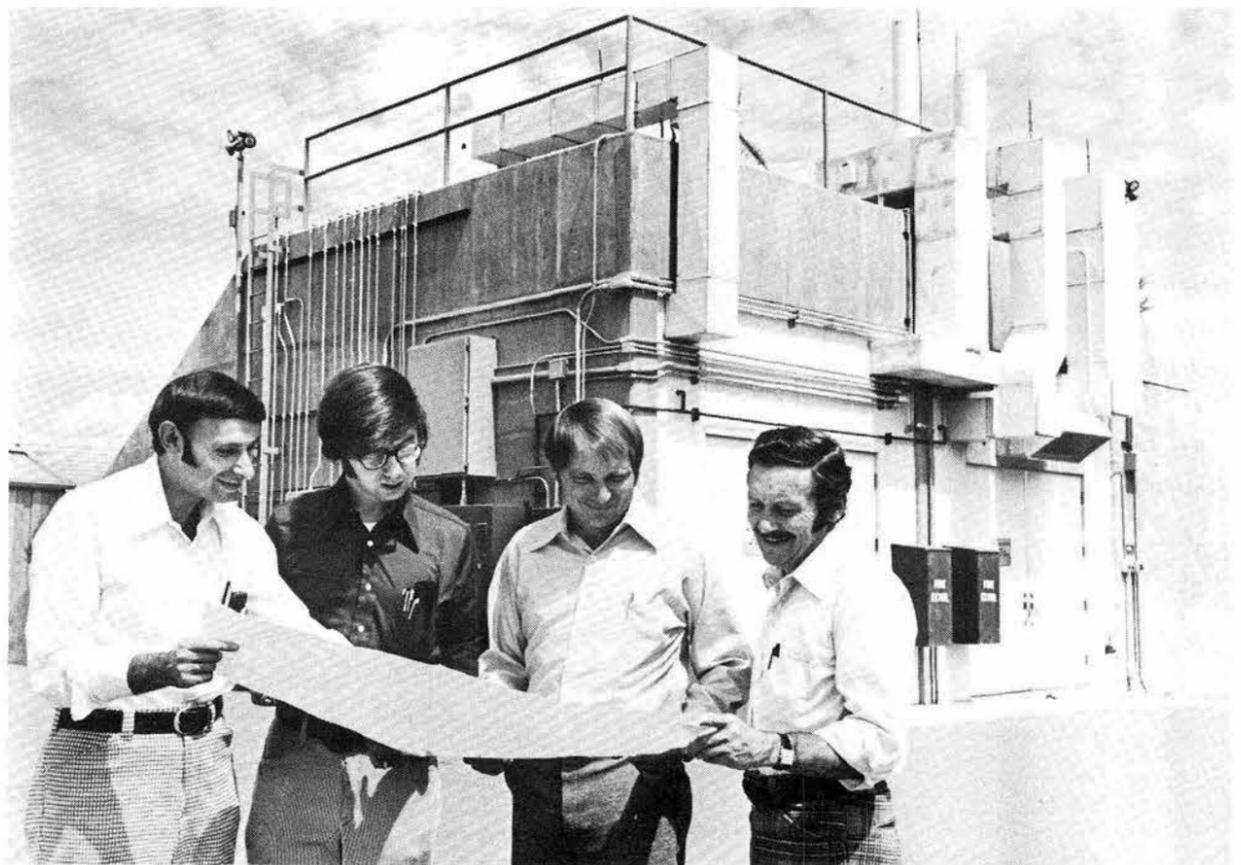
One of the things that the ECP committee has changed this year is the minimum amount required to be a member of ECP. Formerly,  
**(Continued on Page Two)**

# **LAB NEWS**

VOL. 27, NO. 20

OCTOBER 3, 1975

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



BLDGS. 9938 and 9939 in Area Y will be remodeled to house high temperature and pressure apparatus required for a new \$1.6 million coal liquefaction project at the Labs. Principals in the study are, l to r, Mort Lieberman (5731), Barry Granoff (5825), Dick Curlee (5825) and Art Mullendore (5825).

to improve catalyst life in the SYNTHOIL process. Cobalt molybdate is used as the process catalyst. Sandia will characterize the catalyst behavior as a function of SYNTHOIL operating conditions in an attempt to identify longer life solutions such as reformulated catalysts, catalyst

reactivation techniques or removal of deactivating poisons from the coal feed.

The second effort will be to investigate the role of mineral matter (ash) in the process of coal liquefaction and hydrodesulfurization. Sandia will study a wide variety of coals to  
**(Continued on Page Seven)**

# Afterthoughts

Media blues--I used to wince whenever Howard Hughes was a news item in the paper or on TV. The elusive HH simply isn't as interesting as the media people made him out to be. Lately, he's dropped from sight, a felicitous development, only to be replaced by a trio at least equally forgettable: the Mss. Fromme, Moore and Hearst. Does anyone really long to know what Squeaky has to say about the redwoods, or how many hours Patty spent captive in a closet, or that Sarah wears a red sweatshirt over a nightgown? If justice is the aim, then don't inflict cruel and unusual punishment upon the public. Spare us the trio's utterly banal views and the elaborate trivia of their private lives. One senses their longing for public exposure; clearly, a policy of minimal news coverage would be the most devastating retribution for their errant behavior.

\* \* \*

That college education--Most Americans have always held to the bed-rock belief that young people (especially theirs) should go to college. The college education, almost a mystique, appealed especially to parents who didn't go through college themselves. And, thanks to a general affluence and inexpensive state universities, their children are indeed going to college, in numbers that bear little relationship to the numbers of college grad-type jobs available. We see one ramification of this in training and apprenticeship programs that, traditionally, aimed only at the high school graduate. Today, these programs have significant numbers of college trained people, learning to become machinists, plant technicians and the like. This development is simply a response to the imperatives of the job market: more machinists are needed than anthropologists. It would seem to suggest, however, that we may want to re-examine the purpose and form of higher education.

\* \* \*

"Sometimes we have to change the truth in order to remember it."  
Santayana \*js

## Events Calendar

- Oct. 4 — NM Mt. Club, Crest Loop hike, 4 miles, Western Skies, 9 a.m.
- Oct. 4 — Growers Market, Civic Auditorium parking lot, 8-12 noon.
- Oct. 4 — Arts/Crafts Fiesta (with entertainment). Civic Plaza Park, 10-5.
- Oct. 5 — New West Gallery: Fiber & Clay Show, 13 Artisans, opening reception, 2-6, hangs thru Oct. 28.
- Oct. 5 — Road Runners meet at Wilson Stadium at 1:30 p.m.; all runners welcome.
- Oct. 5 — Albuquerque Symphony Orchestra Ensemble, Jean Bellamah Community Center, 1:30. Free.
- Oct. 3-5 — Old Town Studio: Tennessee

- Williams' "Small Craft Warnings," 242-4602.
- Oct. 3-6 — University of Albuquerque: "Black Comedy," 8 p.m. Stage 1.
- Oct. 7 — Club Culturale Italiano: Three Italian films, Reception Center, 146 Quincy NE, 7:30.
- Oct. 8-Nov 9 — Barn Dinner Theatre: "Beginners Luck," reservations 281-3338.
- Oct. 9 — UNM Popular Entertainment: Edgar Winter, 8 p.m., Civic Auditorium.
- Oct. 10 — Albuquerque Symphony Orchestra Ensemble, 6 p.m.; Barelans Community Center. Free.
- Oct. 11 — Albuquerque Youth Symphony, 8:15 p.m., Popejoy Hall.
- Oct. 11 — Football: UNM vs Arizona State, 7:30 p.m., UNM Stadium.

## LAB NEWS

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### SANDIA LABORATORIES

An Equal Opportunity Employer  
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Editorial offices in Albuquerque, N.M.  
Area 505 264-1053  
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In Livermore Area 415 455-2111

john shunny is editor  
&  
don graham ass't. editor

bruce hawkinson & norma taylor write  
bill laskar does picture work  
gerse martinez lends a hand  
&  
lorena schneider reports on livermore



Art Clark (9330)

Continued from Page One

## ECP Drive Starts

\$1 per month was the minimum. It is now \$2. "As a population," Art continues, "Sandians appear to be generous. The \$413,000 total gift of employees is significant. Still, only half of our population gives at the Fair Share level — and that's using the one-hour-per month standard. I hope we can convince employees to re-think their gift. The urgency is great."

Art proudly reports that employees of the Sandia Federal Credit Union have wrapped up their campaign and achieved 100 percent participation at one percent.

"This is the way it is," Art says. "Americans take care of their own. Since pioneer days, we have helped our neighbors. Charity is not a job for other people. It is our job. The difficult thing to explain about charity is that the giver benefits. Because of the United Way agencies, Albuquerque is a better place to live — think of all the programs conducted by the agencies. From neighborhood centers through specialized institutions for health and rehabilitation to the recreation and guidance activities of the youth organizations, the United Way agencies give us a better community, one to be proud of and to support."

### 100% at Pantex

One hundred percent participation at the Fair Share level is the way Sandians at the Pantex Facility at Amarillo responded to the recent United Way drive, reports Bill Sherman, supervisor of Stockpile Systems Test Laboratory Division 9524. Sandians contributed a total of \$1874, an average gift of \$98.64. This is a 12.5 percent increase over last year.

## Retirees Please

About a year ago LAB NEWS undertook a project based on a simple premise: many retirees have skills which they would like to employ from time to time, and many active Sandians have a need for these skills. Thus was born the Retiree Job Reference Service. It consists, essentially, of one looseleaf binder which contains resumés from 40 retirees. Sandians come to the LAB NEWS office, check the binder for the carpenter, TV-repairman, painter, or whatever that they need, and contact is subsequently made.

We're planning a survey of customers (who sign in when they check the resumés) to determine their satisfaction, or not, with the service. In the meantime, here's one who likes it:

"Dear Editor:

Each day I view with pleasure the beautiful wall unit which was made for us by a Sandia retiree cabinetmaker. The workmanship and quality of material are excellent. We have since had some electrical work done by another Sandia retiree, and again the response was fast and the work excellent. In both cases, the price was reasonable and fair. I would not hesitate to use the retiree service again."

Edna Harper (9653)

The LAB NEWS office is located in the east end of Bldg. 832, along with the sunshine people. Come on over — don't call. If you're a retiree and wish to be listed, give us a call on 264-1053 and we'll send you a form to complete.

# LIVERMORE NEWS

VOL. 27, NO. 20

LIVERMORE LABORATORIES

OCTOBER 3, 1975

## Protection for Penetrators

A uranium-alloy penetrator strong and dense enough to pierce armor plate would seem to need little protection from the elements. Larry Weirick, Jack Dini, and Rudy Johnson in Metallurgy and Electroplating Division 8312, know better.

"They corrode," Larry explains. "And that can cause problems. You see the uranium produces an oxide which spalls off. This means a weight loss that can affect the penetrator's ballistic pattern. Ironically, it also can mean a gain in volume that can cause jamming in a gun barrel."

The team received an Air Force Materials Lab contract to solve the corrosion problem associated with two uranium alloys, one an AEC-developed titanium alloy, the other an Army-developed molybdenum/zirconium/titanium material called "3/4 Quad." Both are used in high density, armor piercing penetrators fired by a rapid-fire Gatling gun, the 30 mm GAU-8.

Larry's studies indicated that the weight loss/volume gain problem was a real one. The penetrators are encased in plastic or aluminum windscreens which make them, in effect, sealed capsules. Within such capsules, oxygen is rapidly depleted, and the rate of corrosion rises by a factor of 50 if water vapor passes through the windscreens.

Larry simulated the oxygen-depleted state by exposing the penetrators to a "wet

nitrogen" environment (95 percent relative humidity combined with elevated temperatures) and to a salt fog environment. As expected, severe and rapid deterioration resulted.

These simulation studies were preface to the team's major effort: to develop a metallic coating to minimize corrosion. Electroplated nickel worked well except in the salt fog environment — the sodium chloride accelerated corrosion at any pinholes.

Next, they tried zinc galvanizing (hot dip). This technique protected the units well because zinc is sacrificial — any corrosion destroys the zinc without affecting the units themselves. But galvanizing lacked precision — there was no way to assure that tolerances could be maintained during production.

The team then went to a Livermore-developed "duplex" coating: electroplated nickel coated in turn with electroplated zinc, both then covered with a zinc chromate sealant.

"That worked well," Larry reports. "good protection. Held to tolerances well. But expensive — three times more expensive than the galvanizing.

"So we're recommending the galvanized zinc with a zinc chromate sealant as best choice for the money. And we're recommending further that work toward achieving more exact tolerances be the next step in the study." •bh



**NEW DIRECTOR** of ERDA's Division of Military Application, Maj. Gen. Joseph Bratton (right), visited Sandia/Livermore recently for technical briefings covering current weapons programs. He is shown with Vice President Tom Cook (8000) en route to briefing room.

## Supervisory Appointments



Ray Mar to supervisor of Exploratory Chemistry Division 8313, effective Sept. 1.

Joining Sandia in March 1970, Ray for two years performed studies in synthesis and thermochemical characterization of high temperature compounds and materials. Most recently he has

been involved with chemical use denial schemes for special nuclear materials.

Ray earned a BS degree from the University of Washington in 1964 and his MS and PhD from the University of California at Berkeley in 1966 and 1968, respectively. Subsequently, he did post doctorate work in applied science at the University of Leeds, England, for two years. He is a member of the American Chemical Society and the American Ceramic Society.

His off-the-job interests include playing the guitar and golf. Ray, his wife Joanne, and their three daughters live on San Rafael Street in San Leandro.

## Retiring



Bill Shaffer and Nick Tavone (both 8257)



**PONDERING PENETRATORS** is Larry Weirick (8312). He's subjected all the units to corrosive environments, found galvanized zinc (far left unit) protects well.

## Sympathy

To Herman (8257) and Linda (8312) Armijo on the death of his mother, her grandmother, in Albuquerque, Sept. 20.

To Fred Hohmann (8257) on the death of his father-in-law in Fairfield, Calif., Sept. 16.

To Tom Hunt (8183) on the death of his sister in Hayward, Calif., Aug. 30.

**LAB NEWS**  
**PAGE THREE**  
**OCTOBER 3, 1975**



## Congratulations

Mr. and Mrs. Fred Johnson (8423), a son, Fred Howard III, Aug. 30.



INDIAN representatives of several nearby pueblos visited the Labs last week to be briefed by President Sparks and others about the kind of work done here. From left, Don Shuster (1300), Sam Armijo of Santa Ana, Ray Garcia of the All Indian Pueblo Council, Frank Tenario of San Felipe, John Curiz of Santo Domingo, Frank

Toledo of Jemez, Roland Johnson of Laguna, Al Artiaga (211) and Valentino Garcia of Santo Domingo. Jim Leonard of Solar Energy Projects Division 5712 explains solar collector to group.

## Recreation Notes

### FUN & GAMES

**Coronado Ski Club** — The Great Walkdown is scheduled for this Sunday, the 5th, on Sandia Peak. Members get a lift ride and lunch for free, plus an opportunity to wreak havoc on the rock population as they walk down. Abruzzo says there just may be one or two rocks left, and free lessons in walking are offered. Lift starts at 10:30, lunch at 12:30, and Richard Yoshimura (5432) is running the show. Guests, yes, \$2.

**Howard Seltzer (9651)** took a group of Sandians to Russia this summer under Univ. of Alb. auspices and he's packing his bags again, this time for a tour to the Orient — Tokyo, Kyoto, and Hong Kong — as well as "Itineraries to South America and the British Isles." The U of A is again the sponsor. Call Howard on 299-0284 if you're interested.

**Sandia Runners Ass'n.** — A good turnout of SRA'ers is anticipated for the "M" Mountain Nine Miler at Socorro this Sunday, the 5th. The race starts at 10 a.m. and you can enter on the morning of the race. The 9-mile loop begins and ends on the New Mexico Tech campus.

**Horseshoes** — Pres. Bob Schuch of the Labs Horseshoe Club reports that members took six trophies in the state tournament held at the State Fair: Class A, Leo Bressan (9532), 2nd tied; Class C, Earl Saxton (9412), champion & Bob Schuch (5232), 4th; Class D, Dan Padilla (1247), runner up & Howard Shaw (3734), 3rd; Class E, Jim Fisher (2635), runner up.

Annual awards and elections meeting will be held at the Coronado Club on Oct. 15 at 5 p.m.

**On To Trinity** — The annual pilgrimage to the site of the first atomic explosion takes place tomorrow, Oct. 4. The site is at the northern end of the White Sands Missile Range and is opened one day each year for visitors. The military run the show. If you want to go, be at the Stallion Range Gate, 12 miles east of San Antonio on Route 380

(south of Socorro) at 11:15 a.m. Vehicles will then proceed, in escorted caravan, to the site. Bring a lunch because you won't be leaving the site until 1:15. No pets, no beer, no motorcycles, no photos except at Trinity, no foraging for trinitite & no posting of handbills.

**Sandia Golf Ass'n.** — In the women's 36-hole tournament held Sept. 13 and 20, here are the results: Betty Chappell (ret.), low gross; Pat Anderson (9415), low gross runner up; Clara Gearhart (3141), low net; Judy Tripp (9631), low net runner up; and Eleanor Kelly (4213), low putts.

**Sandia Bicycle Ass'n** — Sunday, Oct. 19 is the date for the annual Bikeathon on Kirtland east, sponsored by the Cancer Society. A two-mile course just south of the Quartermaster laundry on Wyoming provides an excellent opportunity for 100-milers and the less ambitious to do their bit for a good cause. You'll need a sponsor to agree to pay you a specified amount per lap and then turn over the loot to ACS. Valuable prizes will be awarded to male and female winners in various categories. Entry blanks will be available after Oct. 6; LAB NEWS office will have a supply.

Last year the Bikeathon on KAFB raised more than \$7,500 for cancer control.

**Sandia Gun Club** is sponsoring a free sight-in for hunters Saturday, Oct. 25, from 9 a.m. until noon at the KAFB rifle range. The range is located on Perimeter Road opposite the red-topped airport tower on the south side of the airport runways. Targets will be provided. Only hunting rifles will be allowed.

**Soccer** — The Youth Soccer Ass'n., which is going like gangbusters with some 700 young players, urgently needs referees for their Saturday games. Call Kathleen McClellan on 296-7083 if you care to do a little whistle blowing.

## SAMPE Meet Set Oct. 14-16

Some 300 delegates are expected in Albuquerque Oct. 14-16 to attend the 7th National Technical Conference of the Society for the Advancement of Material and Process Engineering (SAMPE), according to Gene Frye (3623), conference chairman. Morgan Sparks will present the keynote address to open the three-day meeting. Nick DeLollis (5813) is program chairman.

Sandians presenting papers include:

Bob Alvis and Charles Huff (both 5718), "Advanced Drilling Research Need and Potential Payoff"; Alvis and Buzz Milton (5844), "The Spark Drill and Electrohydraulic Phenomena"; Marvin Moss (5844), "Reinforced Superconducting Magnet for CTR (Tokomak)"; Larry Weingarten (1544) and Lou Feltz (5623), "Material and Manufacturing Considerations for Vertical Axis Wind Turbines"; Barry Butler (5844) and Ben Blackwell (5628), "The Practicality of Low Cost Blades for Darrieus Type Vertical Axis Wind Turbines."

Dick Braasch (5712), "Sandia's Solar Total Energy Program"; Roscoe Champion (5712), "Approaches to Fabrication of Parabolic Trough Reflectors"; Gerald Nelson (5825), "Surface Analysis by Low Energy Ion Scattering Spectroscopy and Secondary Ion Mass Spectroscopy"; Robert Sallach (5831), "Room Temperature Reaction Between Metals and Water Vapor"; Mike Furney (5831), "Rubber Modified Low Density Encapsulant"; Charles Arnold (5811), "Preparation and Characterization of Several Polybutadiene Based Urethane Elastomers"; and Ken Wischmann (5813), "Self Destruct Casting Resin."

Meetings will be held at the Hilton Inn. Additional information is available from Gene Frye, ext. 4-4733.

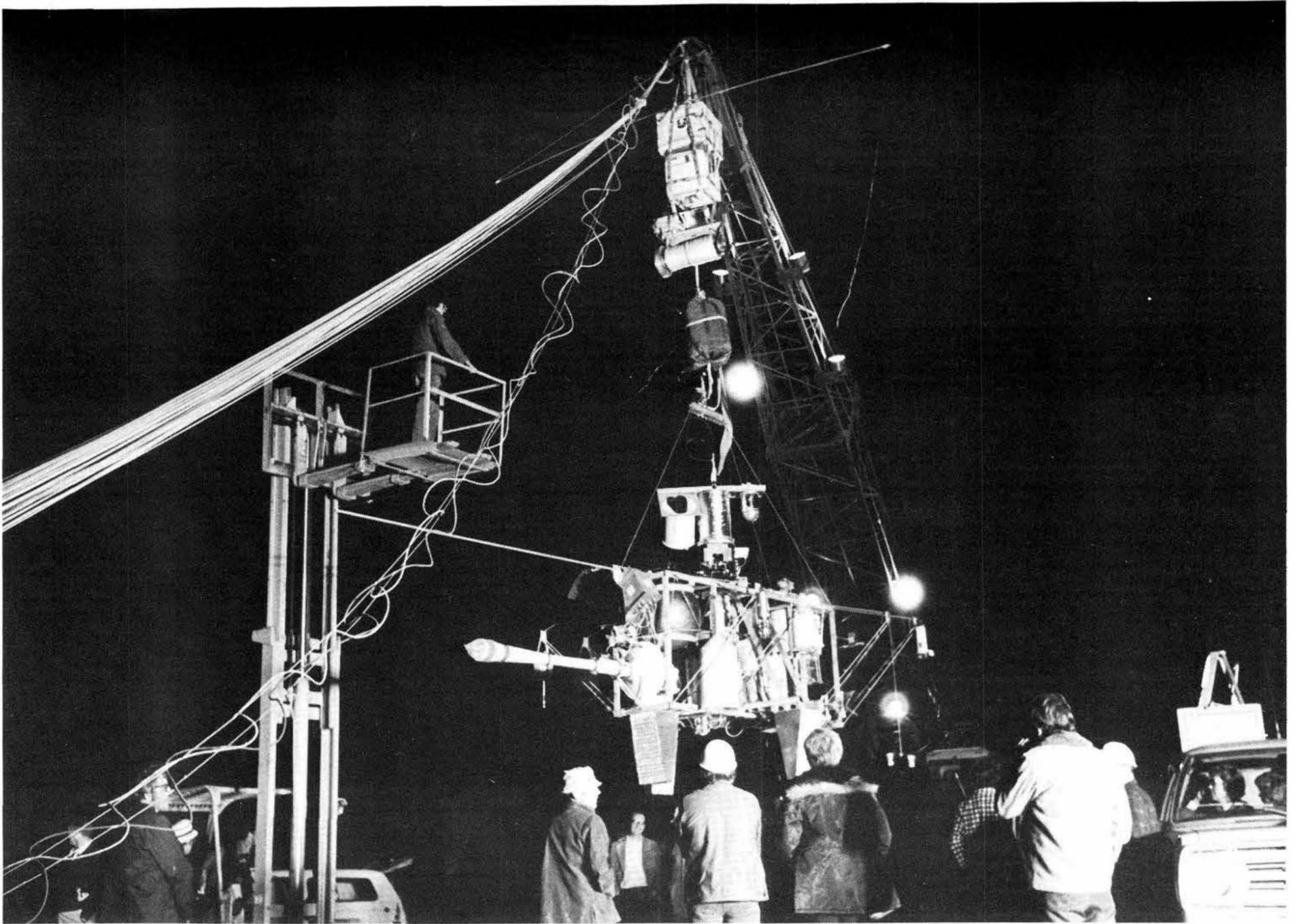
## Death



Pearlina Belew of Development Laboratories Division 3623 died Sept. 21 following an illness. She was 46.

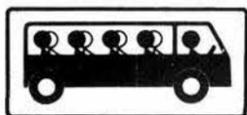
Pearlina had worked at the Labs since October of last year.

Survivors include her husband and two sons.



## STRATCOM VI

MORE THAN 40 scientific instruments to measure upper atmosphere constituents and relationships are readied for launch by balloon at Holloman AFB. Sandia provided scientific direction, engineering of the complex instrumentation package, telemetering, and payload recovery for STRATCOM VI. New data on the protective ozone layer of the upper atmosphere was gathered during the 35-hour flight. Payload was recovered intact 20 miles northwest of Springerville, Ariz., by a Sandia recovery team that arrived about five minutes after the parachute descended. Harold Ballard, Atmospheric Sciences Laboratory, White Sands, was project director. At right is Preston Herrington (1255), the project engineer, at console of mobile telemetering ground station.



## Bus Notes

Albuquerque bus riders can now buy 20 tokens for \$5 — or 25¢ each. Tokens are good, however, only on the regular bus routes, not on the Sandia Specials. Before you protest the apparent dime-a-day extra your Special is costing you, remember that:

1. Riders of regular buses pay an extra nickel each time a zone line is crossed. All of our Special routes cross at least one zone line;
2. While the Specials don't provide door-to-door service, they do get us to our work location without transfers; and

3. With a bus pass, the one-way fare is 27.3¢. So even those few people who live so close to Sandia that no zone line is crossed (and who could therefore ride for 50¢ per day) are paying only 4.6¢ more per day, not a dime a day more. Besides, they should bike it to work.

Therefore, the Employee Transportation Committee is currently preoccupied with other issues:

1. At present there is no inexpensive way to transfer from a regular route bus to a Special. Albuquerque Transit has been asked to propose an equitable method of handling such transfers.

2. The buses used on the Special routes have lately been suffering frequent mechanical failures. Most failures are merely inconvenient, but at least once a bus with less-than-satisfactory brakes has been used.

Admittedly, most of the current 65-bus fleet could be disassembled and the remaining good parts reassembled to make some

dependable buses — three maybe. New (replacement) buses from the Spring '74 bond issue are now ordered, and new (additional) buses will be ordered immediately if the Oct. 7 bond issue passes. But it's likely to be a year before we see the new ones. Until then, little can be done to expand service for Sandians or to make existing service more dependable; private carriers understandably refuse to buy equipment for a route they'll have only for only a year or so.

NOTE: If you plan to call Commuter Info (4-RIDE) with a complaint about a bus, try to get the bus number — the black one painted on it fore and aft.

\* \* \*

One happy note: Larry Horner (9512) lost his Bus Pass. An unknown but persevering Good Samaritan traced it down through the Credit Union and deposited it on his desk. Thanks, whomever you are. The rest of you: print your name (and org. number, if you can remember it) on your Pass.

# 'Equal Means Equal — For Everyone'

In a recent LAB NEWS interview, President Sparks discussed the Labs' Affirmative Action Plan for 1976:

*Lab News: In looking over the 1976 Plan, a couple of questions come to mind. First, why do we write a new Plan every year?*

Pres. Sparks: An updated Plan is required each year by ERDA. But this requirement is based on something positive and meaningful. The annual revision enables us to assess our progress, to set new goals, and to reevaluate our programs for achieving them. As a result, our Plan is kept current and relevant.

*Does the Plan really have to be so long?*

Well, the federal guidelines are quite definite as to what must be covered. We have to consider a long list of specifics and deal with them explicitly in the Plan. Thus, nothing is overlooked; a rather lengthy Plan results.

*What time span does the 1976 plan cover?*

October 1, 1975 through September 30, 1976. The Federal Government is shifting to the new fiscal year, starting with FY 77 on October 1, 1976. ERDA decided, however, that it would be advantageous to shift to the new fiscal calendar for affirmative action plan purposes beginning October 1, 1975.

The interim period July 1 to September 31, 1975, is covered by an extension of the 1975 plan.

*Who gets copies of the new Plan?*

All supervisors and personnel representatives, and the Personnel, Legal and Labor Relations people. The Unions also receive copies.

Because of this wider distribution of the full text, we are not going to put out a summary as we did last year.

I'd like to add that each Vice Presidency, in its own affirmative action plan, covers the disseminating of the Laboratories plan to its people.

Everyone at the Labs, starting with me, will carry out our Affirmative Action Plan. Bob Garcia, my Special Assistant for Equal Opportunity, and his staff carry the major part of the administrative load. The Personnel Representatives act as coordinators for the organizations to which they are assigned. Supervisors, of course, play a key role. But every Sandian shares responsibility for making the Plan work.

*Section 4 on Personnel Procedures discusses, among other things, work conditions and benefits. How do these relate to an affirmative action plan?*

The narrow view of affirmative action is to think of it as largely a program to help women and minorities get jobs. But this program covers the whole of personnel procedures, from recruiting and hiring through active employment and termination. And it applies to all employees. Equal opportunity says that in all such matters as training, pay, work conditions, and benefits, equal means equal — for everyone. This section helps assure that our personnel practices reflect our equal opportunity policy.

*Are Sections 5 and 6, dealing with availability and utilization, as formidable as they sound?*

These areas are difficult to describe concisely. In simple terms, availability figures are based on our analysis of the job markets in which we recruit. We determine the number and percentage of people, by sex and ethnic group, in each occupational category. We compare this with our own work force, and this comparison then provides a basis for planning.

*Doesn't this approach lead to quotas for hiring and promotion?*

No, quotas as such are actually ruled out by federal regulations. But we do set goals on the basis of our analysis of the job markets and the composition of our work force. In setting goals, we try to make realistic estimates of how much we can expect to accomplish. The point I want to emphasize is that both the *goals* and *programs* to achieve them are developed by the Laboratories, not by an outside agency.

*The next section of the Plan is titled Action Plans. Does it outline how we expect to reach certain goals?*

In a broad sense, it does. This section describes a variety of programs in such areas as training, job classification, hiring, benefits, and communications which contribute to making equal opportunity a reality at Sandia. Again, I want to emphasize that these programs benefit all employees. For example, the newly created MAS/MLS and ESA/EDA

trainee positions are open to all qualified employees.

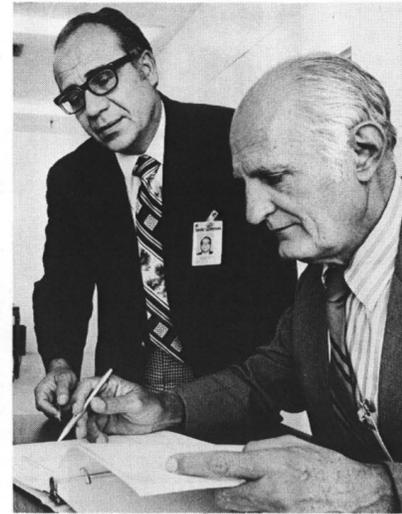
*Is Community Action an important part of the Plan?*

It certainly is. Many of the programs discussed here deal with activities we did before affirmative action came along, simply as a good corporate citizen. We believe we should help promote equal opportunity whenever we reasonably can. Through cooperation with schools, social agencies, service clubs, and the business community, we can enhance our contribution to equal opportunity.

*What progress are we making?*

Our progress has been generally very satisfactory. The Plan has produced results. We conduct our own compliance reviews in key areas to see how we're doing, and ERDA does so as well. These reviews show that despite curtailed hiring programs, we met our hiring goals in the professional and office and clerical categories last year. We are also getting more minorities and women into the professional and higher graded areas. Many of our programs are developmental and will not be reflected in the work force statistics until some time in the future.

Finally, I want to say once again that I'm proud of what we have achieved together, and I'm counting on Sandians for their continued support of equal opportunity.



SPECIAL ASSISTANT to the President on Equal Opportunity, Bob Garcia, discusses soon-to-be distributed Affirmative Action Plan with President Sparks.

President Ford has designated the week of Oct. 5, 1975, as National Employ the Handicapped Week. Sandia Laboratories' Affirmative Action Plan for the Handicapped was signed recently by Morgan Sparks and forwarded to ERDA for review. Dissemination of the plan within the Laboratories will be made as soon as ERDA has had an opportunity to comment.

## Take Notes

*Metrication. Getting There* — Slowly but inexorably the Labs and the country is learning the metric way. Bob Holloway (9623), who works with the Sandia Metrication Committee, reports a speaking engagement on the subject before some thousand students at Sandia High School. Bob also delivers the metric word in lectures in Bob Moll's (9515) course on high pressure equipment and procedures.

*Adios AFSWC* — A fixture on KAFB, the Air Force Special Weapons Center, will close doors by next spring. A significant number of people are affected. Gen. Reilly's memo on the subject states that 976 military people and 391 civilians are involved in the position reductions.

Among visitors last week to the Labs was an ERDA Study Group, chaired by Austin "Cy" Betts, whose mission is "... to appraise the management practices inherited by ERDA ... Since ERDA has inherited vast resources (57 laboratories and plants, employing over 91,000 persons and over 3,400 government employees at field offices) using these resources in the most effective manner in the future is one of ERDA's major challenges." One familiar name in the 14-member Study Group: John Hornbeck.

That 5-Day Stop Smoking course offered by the Labs a few weeks ago attracted more than a hundred puffers and, though statistical data hasn't been gathered yet, it appears to have produced some significant number of quitters. The same course is being offered in town beginning Oct. 6 at 7 p.m. in the Savage Auditorium of the Presbyterian Hospital Professional Building. Cost is 7 bucks. You enroll by showing up.

A paper by Dick Knutson (2152) has been selected as the best paper of the 1975 Electronics Components Conference sponsored by IEEE. Title of Dick's paper is "Analysis of Tantalum Nitride-Chrome-Gold Thin Film Metallization System as a Function of Substrate Material."

Blood donors have been doing their thing in the auditorium behind the Exhibit Center every Tuesday morning, but that space is no longer available and the blood people are now using the KAFB Hospital. Donors are asked to come to the lobby of Bldg. 832, where they will be picked up by the Blood Services van and transported to the hospital (and returned). If you prefer to get to the hospital by yourself, go to room 54 to make your donation. The facility operates every day, not just Tuesday, and while it is customary to schedule donors, drop-ins are welcomed with open arms and empty flagons. Hours 8 to 4, except the noon hour.

Members of the Western Interstate Nuclear Board (WINB) heard technical briefings from Don Shuster (1300) and Orval Jones (1700) during a two-day meeting in Albuquerque this week. Special guest was Victor Gilinsky, Nuclear Regulatory Commissioner.

WINB is the administrative organization for the Western Interstate Nuclear Compact, an agreement between 12 states to promote peaceful uses of atomic energy. Bruce Van Domelen (2523) is New Mexico's representative.

Had a secret longing to know how Toastmasters toastmaster? Be at Reddy's Rendezvous (Public Service Company Building, 414 Silver SW) at 7 p.m. on Oct. 10. Nine Toastmasters Clubs will be competing for the Teller of the Most Humorous Story award. Public is invited. \$1 donations accepted. More info from Frank Gurule at 4-5230.

Sandia's vertical axis wind turbine is missing from the roof of Bldg. 802. It is being relocated on a test bed at a site about a mile east of Bldg. 870. The site, near Bldg. 899, will be used for future wind turbine development.

Continued from Page One

## New Sandia SYNTHOIL Project

quantify their natural reactivity to liquefaction.

The third activity will be to construct a bench-scale process reactor to simulate the SYNTHOIL process and to conduct parametric studies of the process. The reactor will create pressures up to 5000 psi and temperatures up to 500 degrees C. It is anticipated that the results of this study should allow Sandia to make recommendations on optimization of the SYNTHOIL process.

"I'm extremely pleased at obtaining this program for two reasons," says Hap Stoller, Manager of the Geo Energy Technology Department 5730. "This program will allow Sandia to make a significant contribution in helping to solve our shortage of liquid fuels. Secondly, the project is a complete chemical process engineering study which will allow us to address a variety of engineering problems. Much of our surface physics expertise will be called upon as well as our techniques for analyzing special materials. The Labs has demonstrated a high proficiency in fundamental studies concerning the physics and chemistry of solid surfaces. In addition, while our experience in coal chemistry is quite limited, our previous work in carbon chemistry and associated process reactor designs is directly applicable."

The project will be coordinated by Department 5730. Technical direction will be performed by Chemistry and Materials Characterization Department 5820 under Dick Schwoebel. Art Mullendore (5825) is project manager. Paul Holloway and Gerry Nelson (5825) will play a leading role in the catalyst characterization task. Barry Granoff (5825) is Task 2 leader and Dick Curlee (5825) is responsible for design of the process reactor. Mort Lieberman (5731) is project coordinator. Organizations 5110 and 8310 will also participate in the project.

Significant early contributions to Sandia's involvement in coal liquefaction were made by Charles Arnold (5811) while Jack Houston (5114), Art Mullendore and Mort Lieberman conducted the technical discussions with the Pittsburgh Energy Research Center.

# Sandia Laboratories Policy Statement



As President of Sandia Laboratories, I reaffirm our commitment to the principles of equal opportunity. We will continue our policy of conducting matters involving people without regard to race, color, religion, sex, national origin or age. This policy extends to every facet of our activities, including recruitment, hiring, compensation, transfer, training, advancement and termination. Not only will we comply with all applicable laws, directives, and regulations of federal, state and local governments and their agencies pertaining to equal employment opportunities, but we will also strive to develop the true spirit of these acts throughout the Laboratories.

Our affirmative action efforts over the past years have 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 supervisory jobs. The ultimate objective toward which we continue to strive is the optimum use of our personnel resources.

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 policy statements, employee news media and special meetings. Every supervisor is expected to be familiar with our affirmative action program and take an active and positive role in maintaining and promoting our equal opportunity commitment. Accordingly, responsiveness to this commitment will be a consideration in supervisory assessment and review programs.

Mr. Garcia, my Special Assistant for Equal Opportunity, 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 insure attainment of our objectives.

*Morgan Sparks*

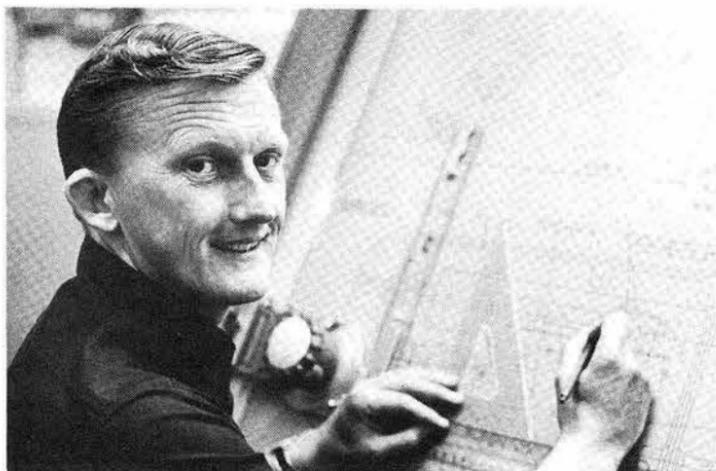


 **Our Spirit of 76** 

# MILEPOSTS

## LAB NEWS

October 1975



Mike O'Bryant - 9654

15



Donna Hodges - 9632

10



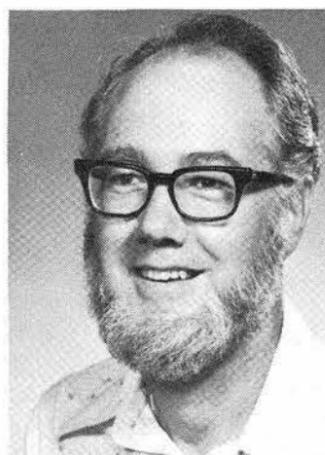
Dean Walters - 2632

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Tim Siegrist - 3645

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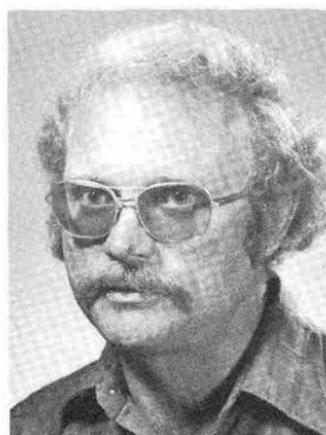
Charles Clark - 1223

25



Mo Robert - 8257

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Neil Horton - 9624

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Eulalio Trujillo - 9713

25



Andy Cardiel - 8423

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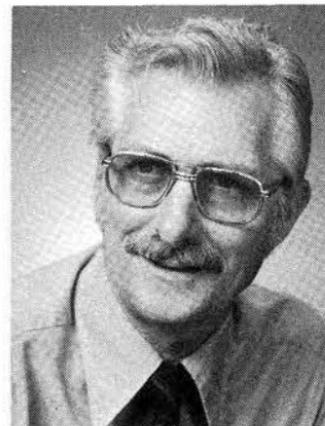
Laurie Krebs - 3160

15



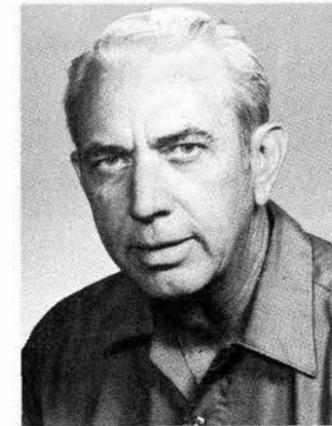
Hugo Flores - 9551

25



Karl Livingston - 8412

15



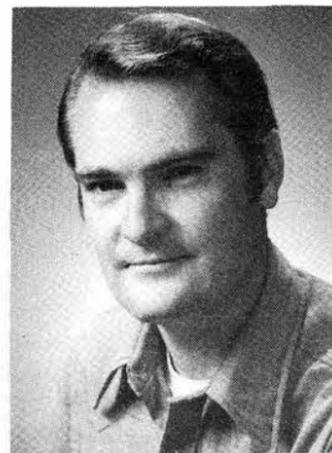
Arthur Wickham - 3613

25



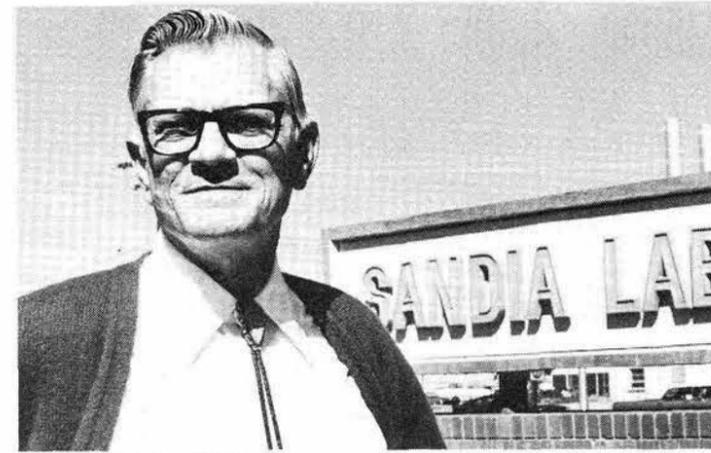
Mearle Hicks - 8324

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Cal Feemster - 8313

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Jeff Gammon - 3733

25



Chris Christensen - 2133

20



Leo Cafferty - 9511 20



Alice Hodyke - 3730 20



Waylan Ferguson - 3727 25



Fernando Lopez - 9550 25



Walter Cihak - 4182 25



Howard Anderson - 3616 10



George Dingman - 9550 25



Homer Ator - 1522 25



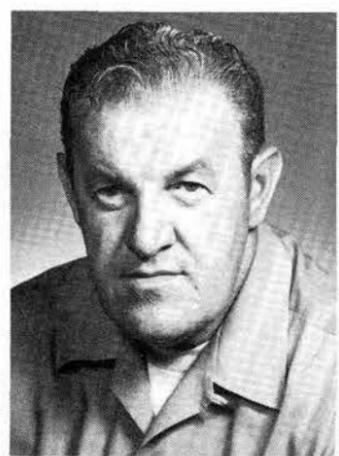
Jay Davidson - 9541 25



Phil Thacher - 9532 10



Doug Ballard - 9351 25



George Uszuko - 9552 25



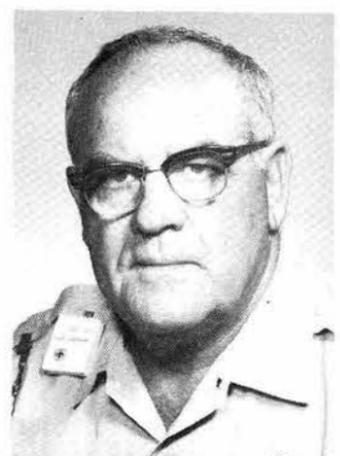
Marion Scott - 3734 25



Irwin Janney - 9412 20



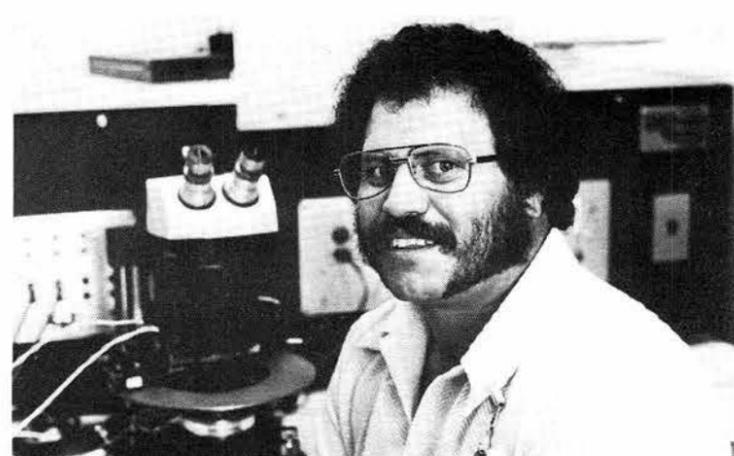
Gloria Smith - 9522 10



Bernard Ellis - 9550 25



Gabriel Chavez - 9718 25



Dennis Gutierrez - 2111 10



Theodore Reed - 2323 25

## Supervisory Appointments



Bob Wilde & Jim Hinson

**BOB WILDE** to supervisor of Transportation Systems Division 1716, effective Oct. 1.

After two years in the Army as an intelligence analyst, Bob enrolled in Montana State Univ. and gained his BS degree in electrical engineering in 1958. He came to Sandia following graduation.

His initial work here was in firing set design. He then performed weapon design work at the systems level and, more recently, was assigned to an advanced systems development group. In the spring of '74, Bob became involved in the Safeguards program and continues in his new assignment with that program.

Bob likes to camp, to hunt, and to work around the house. The Wildes have three children, two boys and a girl, and reside at 3925 Hermosa NE.

**JIM HINSON** to supervisor of Operational Security Division II 9552, effective Sept. 1.

Jim is a long-term Sandian, having come here in January of 1950 after three years at Arkansa State Univ. He became a member of the Labs' original guard force when it was established in October 1950. In 1954 Jim was promoted to the rank of Sergeant on the guard force and, in 1964, to Lieutenant.

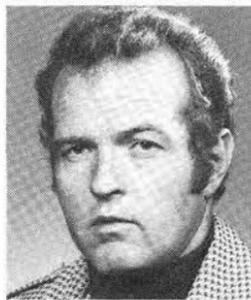
His principal outside activity is the Army Reserve. He was a Green Beret in the Reserve until 1972 when he suffered a fractured back in a parachute drop. He continues to represent the Army in the National Rifle

Matches held annually at Camp Perry. Jim's specialty is the M1 and M14 rifles. Bowling and hunting are additional interests.

Jim and Bonnie Hinson live at 1500 Morris NE. They have three children and four grandchildren.



Virgil Dugan



Michael Eaton

**VIRGIL DUGAN** to manager of Systems Analysis Department 5740 effective Oct. 1.

Virgil joined Sandia in June 1964 as a member of the TDP program after earning a bachelor's degree in EE from Mississippi State University. He was awarded a master's degree in 1966 from UNM and took a leave of absence to complete a PhD degree in EE in 1967-69 from MSU. At Sandia he has worked in advanced data systems, planetary quarantine, biosystems, systems studies and in the Safeguards Program. Since December 1971 he has headed Systems Studies Division IV 4734.

He is a member of IEEE and works with the Boy Scouts. Active in basketball leagues until last year, Virgil "retired" to coach high-school-age boys in city leagues. He also enjoys hiking and tennis.

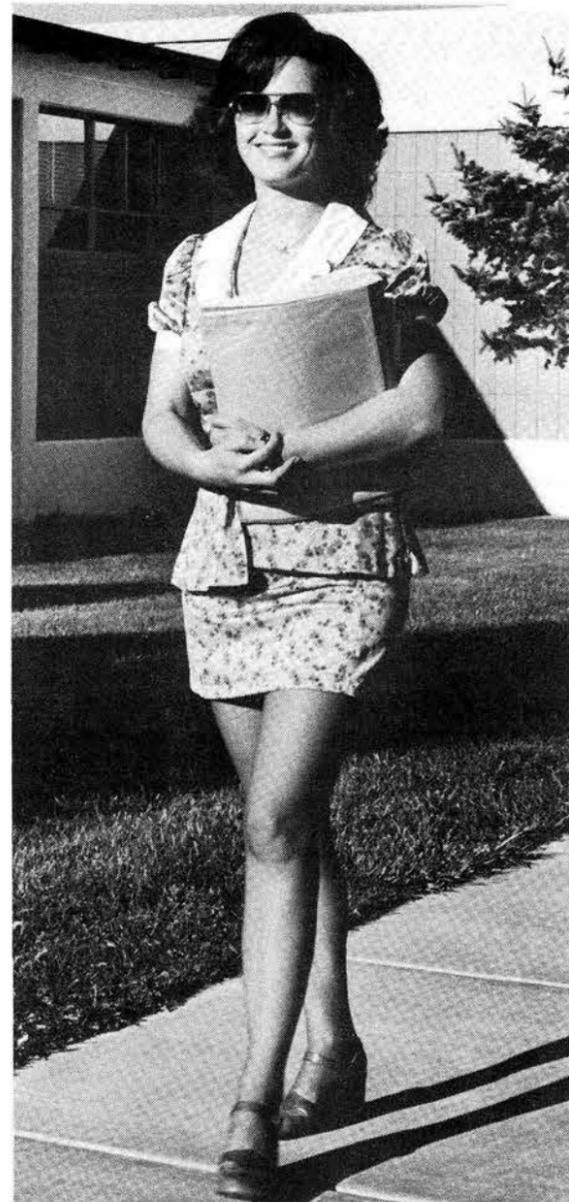
He lives with his wife Sandra and six-year-old daughter at 9200 Avenida de la Luna NE.

**MICHAEL EATON** to supervisor of Technology Assessment Division 1753, effective Oct. 1.

Mike was graduated from Montana State Univ. in June '64 with a BS in EE and came to work at Sandia. His early assignment was in the atmospheric testing program, working as an instrumentation engineer. At the same time he was studying for his MS in EE, which he acquired in 1966 from the Univ. of New Mexico under the TDP program.

In the mid-60's, Mike transferred to the COIN program, working on sensor development until last year, when he joined the Safeguards program. In the latter, his principal concern has been and is currently in the area of fixed site protective measures.

Mike spent three years on a Navy destroyer in the Mediterranean in the late 50's as a fire control technician. The Eatons like to ski and to camp with their two children, and they reside at 7106 Shoshone NE.



Kathy Pitts

### Kathy Pitts Named Women's Counselor

"Women's Program Coordinator" is the formal title, but the substance of the job now occupied by Kathy Pitts in Organization 212 is to talk with any woman employee about the Labs and her place in it.

"We can talk about training, job and promotion opportunities, problems on the present job — just about anything relating to Sandia. I promise a sympathetic — or at least an understanding — ear," says Kathy.

"I will, of course, be trying to solve the problems that are brought to me," Kathy adds. "As I see it, my job is to define problems and work to bring the resources of the Laboratories to bear on them. If patterns emerge, proposals for long range solutions will be prepared for management consideration."

Kathy's experience at Sandia since coming to the Labs in 1970 gives her good perspective for this new position. She has worked chiefly as a division and department secretary throughout the Labs; more recently she entered the staff area, is now enrolled in the MAS Trainee Program, and is attending UNM graduate school. She gained her undergraduate degree from Oklahoma State and taught for a year in a Kansas City high school.

Kathy teaches English in the Labs out-of-hours program. She also does part-time teaching at T-VI. You can reach her on 4-9341.

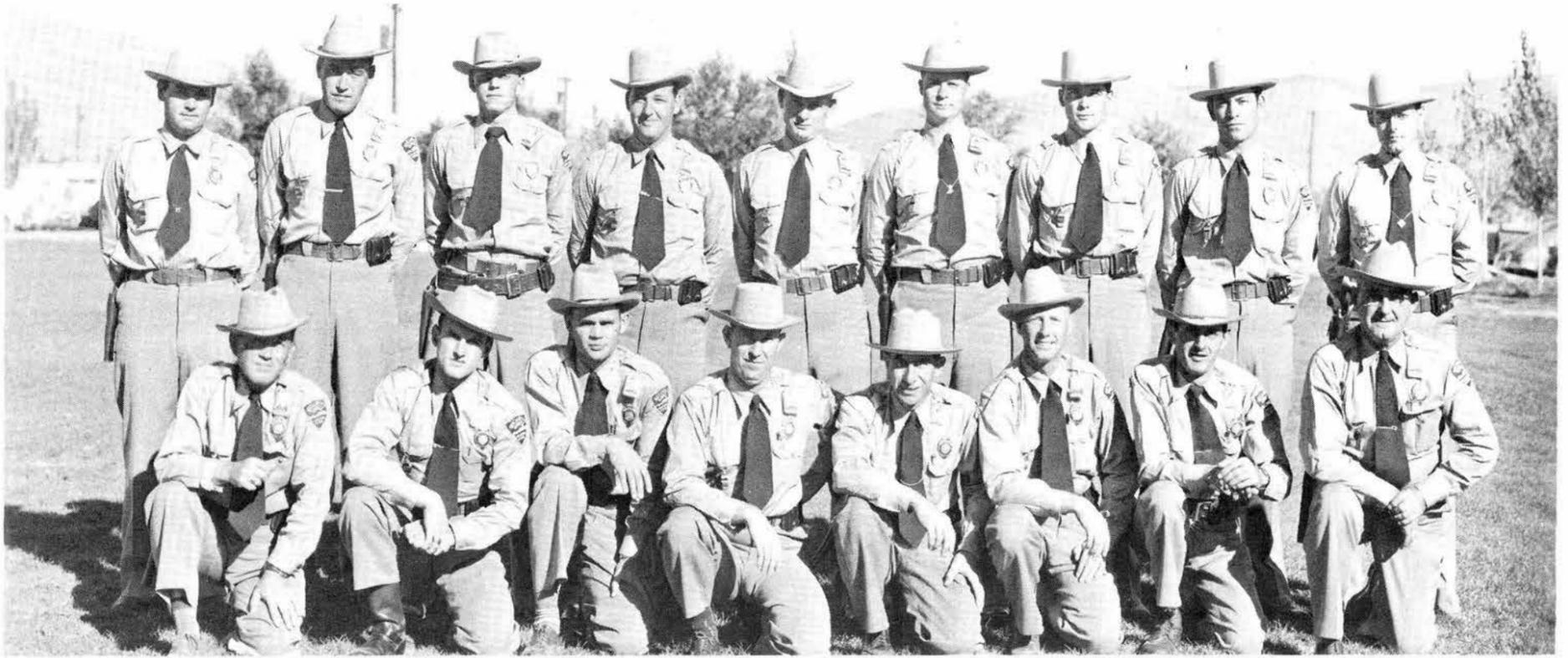
### Sympathy

To B.H. Bright (3617) on the death of his mother in El Paso on Sept. 9.

To Vera Romero (3610) on the death of her father in Santa Fe on Sept. 20.

RECENT GRADUATES of Sandia's electronic technician apprentice program are (l to r) Margo Crespin, Jim Reck and John Baca. Instructor Gilbert Lovato stands with the group.





TWENTY FIVE YEARS AGO this month, the Labs took over responsibility for internal security from the military, and one shift of the new guard force posed for a photo on the Parade Grounds. Security Inspector Ed Sims uncovered this print for LAB NEWS. Sandians will recognize many: (kneeling, l to r) Toad Sharp (dec.), Frank Treon (term.), Ray Brandenburg (term.), Ed Sims (9551), George Dingman

(9551), Noel Kent (9552), Mike Sylvester (term.), & Pop Jones (dec.). Standing, Clifford Baxter (term.), Willard Jaeck (term.), Jim Hinson (9552), Don Weldon (4252), Homer Ator (1522), Tom Laney (9415), Gene Redic (dec.), Dave Gomez (1135), & Mike McClafferty (term.). Present force numbers 94, including 6 women.

**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.

**RULES**

1. Limit 20 words.
2. One ad per issue per category.
3. Must be submitted in writing.
4. Use home telephone numbers.
5. For Sandia Laboratories and ERDA employees only.
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.

**TRANSPORTATION**

- '71 CHEVY Suburban, factory AC, AT, PS, PB, 350 CID, radials, \$1500. Hawkinson, 281-5239.
- '63 AUSTIN Healy, 3000 Mark II HJ7, blue. Hartenberger, 256-3203.
- '68 DODGE Polara station wagon, \$500 or best offer. Constant, 281-5670.
- '71 CHEVY 1/2-ton, 4-wheel drive, AT, AC, PB, custom cab, extra tanks, low mileage, camper shell, \$2995. Dunn, 345-6466.
- '73 YAMAHA 100 MX, engine overhauled, \$350. Navratil, 293-5527.
- '65 CATALINA Pontiac, 4-dr. Lerke, 821-3286.
- 10-SPD. bicycle, Sears, \$65. Laskar, 299-1024.
- '73 HONDA CB-175, adult-driven, 6800 miles, elec. start, 60 mpg in city, \$500. Greenwood, 298-5268.
- '71 MGB convertible, new top, toneau, wire wheels, \$2650. Finley, 299-0739.
- '72 OPEL GT, 34,000 miles, 1 owner, best offer over \$2500. Hillman, 299-8438.
- 10-SPD. Liberia bike, 57cm frame, 23 lbs, cost \$210 last year, sell for \$160. Shunny, 265-1620.
- '70 INTERNATIONAL TRAVELALL, 345 CID, 4-spd., AC, positraction, 53,000 miles. Draper, 881-9183.
- 10-SPD. Columbia bicycle, \$45; bubble type wheel balancer, \$25. Wilkinson, 299-8327.
- HODAKA 125, needs work, \$85; Honda 70 frame & wheels, \$35; clean bench,

make offer. Rarrick, 296-2340.

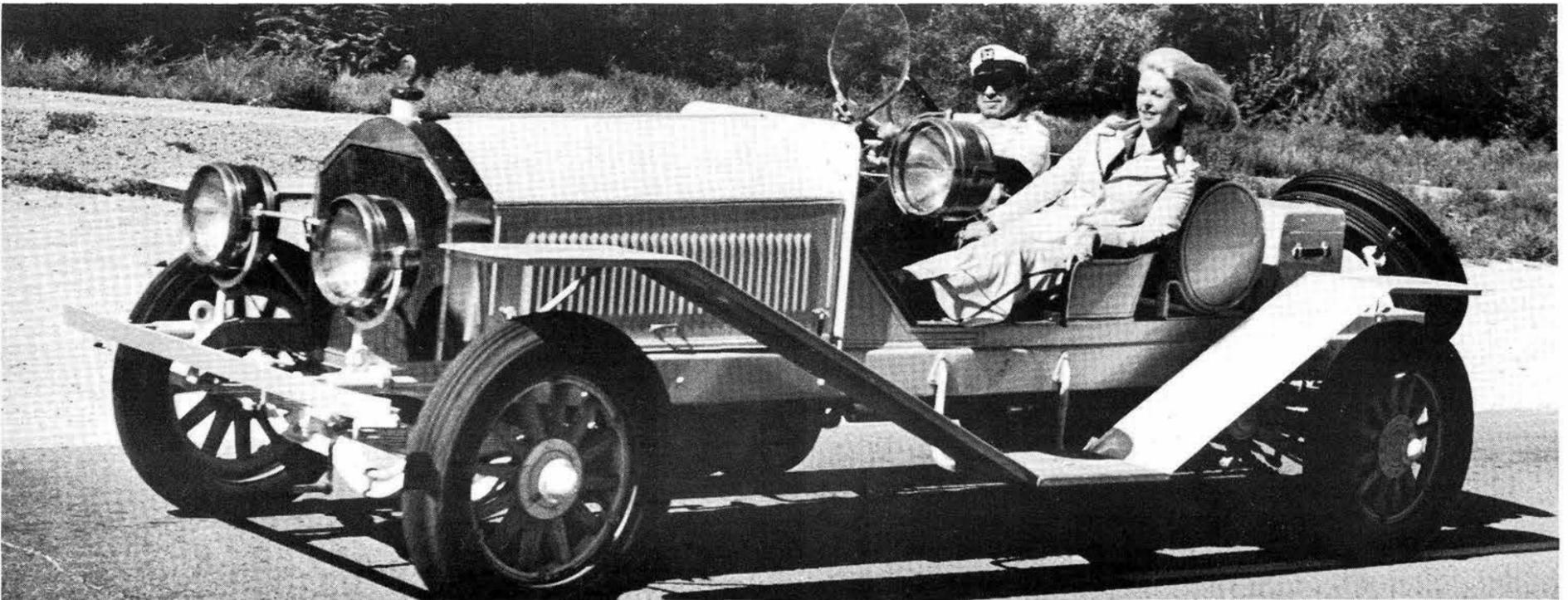
**MISCELLANEOUS**

- 22 CUBIC FT. chest type "Deep Freeze" freezer, \$50. Zucuskie, 881-4086.
- LADIES Henke ski boots, size 8, \$10; rocking horse, \$8; Sears child's bicycle seat, \$8. Harstad, 298-6551.
- HAIR DRYER, Lady Sunbeam w/bouffant bonnet, \$7. Shane, 296-4430.
- TWO gold framed mirrors, 1 49" x 40", \$50; 1 oval shaped, 26" x 21", \$25. Dunn, 298-4185.
- DRUM SET, 4-piece set w/Remo head of extras, \$275. Sisson, 296-3883.
- CHILD'S ski boots, Formula, 1 yr. old, size 11, worn 7 times, \$20. Cowham, 881-7193 after 5.
- LAFAYETTE CB, 23-channel mobile, base, antenna, microphone, \$200; stove, apt. size, harvest gold, \$100; 5000 btu airconditioner, \$50. Buttz, 293-4190.
- 18" YUCCA plants, \$2.50 ea; bathroom sink, \$15; 2 dinette chairs, \$5 ea. Pope, 255-6702.
- 2 PAIR ivory drapes, 144" width, 45" length; pair kitchen curtains & valance, 45" length, 74" width; blue & avocado king-size bedspread. Paul, 299-6382.
- GAS HEATER, wall mount, 30000/24500 btu, \$50; 24" girls 1-spd. bike, \$25. Bryant, 299-8315.
- SLIDING glass door ass'y, 81" high, 71 3/4" width, \$50. Baca, 877-1136.
- BENNET pressure breathing therapy unit w/Puritan heater nebulizer & slip stream nebulizer. Millard, 299-2039.
- REMINGTON 270, scope, sling, 3 boxes ammo & cleaning kit, \$200. Hopper, 292-3059.
- STERNCRAFT Deckboat, 21', Mercruiser I/O, tandem trailer, Hansen, 898-3173.
- 4 TIRES, 8.25 x 15, 2-ply

- Polyglass belted, good racap carcasses, \$4 ea; 2 '57 Ford hubcaps, \$1 ea, Hawkins, 298-3215.
- HUNTING dog, Weimaraner spaniel, \$15. Chavez, 877-7134.
- GAS RANGE, 5-burner, Kenmore, \$60; chain saw, Clinton, heavy duty w/26" bar, \$100; Go-Cart, new wheels & tires, needs engine, \$100. Mozey, 299-0349.
- ANTIQUE Philco radio, console model, works, \$45. Johnson, 255-5427.
- 16' TRAVEL-EZE camping trailer, 7 cu. ft. Servel refrigerator, gas heat, sleeps 4. Owens, 881-0815.
- LA-CHAPELLE beginner's clarinet, \$75; Carl Fisher double French horn, \$250; Autoharp w/case, \$50; Seth Thomas metronome, \$18. Taylor, 266-6837.
- SHREDDER-Bagger, Sears 3.5 hp, used very little, \$65, half new price. Sherwin, 344-1911.
- RABBITS, Dutch miniatures, pet, not food type, mostly black, 10 wks. old, \$2 ea. Fisk, 294-7252.
- KING-SIZE bed, \$100; portable bar, 2 stools, wood & blk vinyl, \$50. Taylor, 292-1458.
- 1 USED E70-15 tire. Reif, 299-4705.
- 20" BIKE w/training wheels. Konrad, 294-2807.
- LOVESEAT, gold plaid Herculon; Zenith b&w console TV. Stoever, 296-3717.
- GLASS shower door for 35-36" opening, complete, \$20; indoor/outdoor nylon carpet tile, 12 x 12", 10c ea., approx. 400 sq. ft. Luna, 299-2488.
- CLARINET, Bundy w/music stand, \$75. Mattox, 296-4149.
- 2 BABY cribs, \$15 ea; 1 upholstered chair & ottoman, \$40. Kelly, 298-8624.
- VIOLA, excellent for student, price negotiable. Church, 299-2175.

- CLARINET, Bundy w/case & stand, \$75. Willems, 298-7261.
- CIRCULAR 42" kitchen table, light finish, 3 extension leaves, \$100. Smith, 299-6873.
- LEFT-HANDED Spalding golf clubs, bag-cart, \$100; men's golf shoes, size 8, \$10, size 7 1/2, \$5. Pickering, 265-3309 after 6.
- GOLDEN retriever puppies, AKC OFA, \$150, available Oct. 10. Stone, 298-4641.
- 9' x 12' green rug, \$10; Caloric outdoor natural gas grill, \$55; 24' alum. ladder, \$35; 14' refrigerator/freezer, \$125. Schubeck, 294-5666.
- GRAPHITE driver (Shakespeare), also, set of woods/irons golf clubs & bag; bedroom Orchid swag lamp. Chandler, 296-3323.
- '74 MITCHELL cab-over camper, 8 ft., sleeps 4, stove, ice box, heater, jacks. Tucker, 255-5335 after 5.
- CAB-OVER camper, sleeps 4, ice box, range with oven. Whittet, 294-7136.
- CHERRYWOOD crib & mattress, \$25; Biltrite collapsible carriage, \$35. McGuire, 345-0539.
- PUROX Union Carbide lightweight welding outfit with accessories & bottle trucks, never used, \$100 or make offer. Lawson, 255-1492 after 5.
- FRIGIDAIRE washer & dryer, \$150; metal storage cabinet w/doors, \$35; child's table & chair, \$15. Campbell, 266-6591.
- PONY, 13 yr. old, Welsh gelding w/bridle, \$55. Waddoups, 865-7952.
- BEDROOM SET, white Italian provincial, triple dresser, w/mirror, 5-dwr. chest, hi-rise bed w/mattresses, use as twins, single, queen, \$190. Trump, 299-5162.
- REAL ESTATE**
- 2-BDR. house on 10-1/2 acres w/fruit trees, alfalfa, 3 drilled wells, 2 water

- meters, 50 mi. to Albuquerque, 27 mi. to Los Alamos. Ruiz, 834-7407.
- A-FRAME cabin, Grass Mountain summer home area, Cowles, NM, \$15,000. Constant, 281-5670.
- 4-BDR., large den on 1/2-acre, heated garage, horses allowed, priced in mid 50's. Lackey, 898-5175.
- 3-BDR. Holiday house, 4630 Cario Dr. NE. Morris, 293-4374.
- 3-BDR. house for lease on 2 acres in El Cerro between Albuquerque & Belen. Sanchez, 864-8494.
- FOR RENT**
- 3-BDR. house available Oct. 1, NE near shopping, freeway, schools, 1-3/4 baths, \$200/mo. Martinez, 881-9396.
- WANTED**
- FORMER ABN or SF NCO's: Reserve A-Team looking for 11Z5S, 11F4S, 11B4S, 12B4S, and 05B4S Wagner, 299-9594.
- NIKONOS II underwater camera; 16" 6-hole wheels for Chevy truck. Mattox, 296-4149.
- 55 GAL. DRUMS, need not be in good condition. Glaser, 293-8110.
- PAIR of used 7:00 x 16 light truck tire chains, in good condition. Causey, 881-7534.
- SKIS & bindings for 5' girl; extra set of bindings. Chandler, 296-3323.
- HOUSE sitting by 2 responsible teen-age boys. 881-3876.
- LOST AND FOUND**
- LOST — 3 keys on string; 12 keys in black leather case; black rim glasses w/belt clip holder; assorted keys; car keys; tri-focal safety sunglasses; black brief case w/book.
- FOUND — Large silver hoop earring; green key; silver and coral ring; man's gray rim glasses; green sunglasses. LOST AND FOUND, Bldg. 832, 4-3441.



WHERE'S THE FIRE? At the Club tonight where the hottest fashions in town will adorn Flair models like Donna Reel. Phil Maloof delivers her in a going jessie — a

1924 American LaFrance Speedster. The vehicle started life as a fire engine.

FRIDAY	SATURDAY
3 — HAPPY HOUR ROAST BEEF BUFFET Adults \$2.95 Under 12 1.95 Fashion Show ERNIE & THE SAINTS Tom McCahon In Lounge	4 — FAMILY VAUDEVILLE Gib Richards, Magician <i>Treasure Island</i> Food Available @ 6 Show @ 7 Free to Members
10 — HAPPY HOUR SEAFOOD BUFFET Adults \$2.95 Under 12 1.95 Thomas & Marcia On Stage NATURAL PERSUASION	11 — SOUL SESSION 8:30 - 12:30 JIMSON Members Free Guests \$1 LOBO BUS @ 6:45

I'M — afraid the Conquistador Cruise got lost in the last issue. But don't assume that's a portent of what will happen December 19-27: Chet Fornero says the Cruise doesn't go near the Devil's Triangle (well, not very near). A day and a night-and-a-half in New Orleans, seven days aboard a new luxury liner with stops at Vera Cruz and Yucatan, the whole package for \$518. Get



your \$100 deposit in by Oct. 15, the remainder by Nov. 15.

SO — your spouse tells you there's no magic in your marriage anymore? Prove him/her wrong. Bring the family to Family Vaudeville tomorrow night. Gib Richards, prestidigitator *par excellence*, will provide all the magic you'll need for a good long time, even a long good time. Add to the package an animated version of *Treasure Island*, and the evening becomes an extended exercise in euphoria for everyone.

USED — her ungentle, did you, cad? Kiss, make up, and promise her one of the fall-winter outfits at tonight's Happy Hour Fashion Show. Flair models will show up, show off, and show-er (the latter privately). Marcy's Apparel will supply the clothing, Rosario Ayers the coordination. That's not all — roast top round of beef to flatter your platter, Ernie and the Saints go marching in and, later in the lounge, Tom McCahon.

TO — the lovers of shrimp creole, fried fish, cod mornay, and other maritime munchies: survive till the 10th. That's the Seafood Spectacular night at Happy Hour. Then there's Thomas and Marcia with soft Spanish soul on stage. And finally, the finale, Natural Persuasion, naturally.

BEING — as to how the Club has all this stuff lying around underfoot and overhead, it's time for one of them there auctions. Some fair patio furniture, a jimdandy jungle gym, tables, lots more. Every piece sold separate, so nobody hauls off the whole pile. Look it over at 9:30, bid a bit at 10 on the 25th. Members only.

CONSTANTLY — haunting you, that trip to glorious Switzerland? Relive it at the post-Switzerland meeting at 7:30 on the 8th.

TENSE — cranky, irritable? Take two aspirins and a good night's relaxation — at Soul Session on the 11th. Jimson does things good for souls, hard on soles.

THAT — C-Club Ski Club Sandia Peak Walkdown is useful, spectacular, and fun. Good time to join the Club too. See Fun & Games elsewhere this issue for details.

WHEN — Oktober comes, Oktoberfest can't be far away. And it's not. German food,

German music, German customs (practice your "Gesundheits"). It'll be such a realistic experience that, if you live in the town 30 miles south of here, you'll have an urge to mount the stage and declare "Ich bin ein Belener." Try to resist. Tickets at least by the 11th.

I'M — happy to announce a great deal for flick freaks who think a great deal of movies but hate to shell out \$2.50 a ticket. Good old Luke (what a saint!) Stravasnik has arranged for the Club Office to sell you tickets for \$1.75. They're good at any of the town's 10 screens upon which Commonwealth projects, and they're good anytime no roadshow rents the theatre. See great movies (like the sequel to *Jaws*, the one with the elderly shark; it's called *Gums*), and see them cheap.

CALM — cool, collected. That's how taking the bus to the Lobo games leaves you. Be at the Club before 6:45 on the 11th for the Arizona State game, before 12:45 on the 18th for the Utah (homecoming) game. 50¢ for members, \$1 for guests, Happy Hour before and after.

I'M — pushing another bus (figuratively) too: the C-Club/Wolfpack Weekender on Nov. 21-23. A wet bus leaves here Friday around noon, arrives in El Paso (Holiday Inn downtown) for passenger-freshening purposes, heads for the dog track that evening for passenger-wagering purposes, returns to the Inn, goes to Las Cruces Saturday for Aggie-agonizing purposes, returns again to El Paso, and finally heads Clubward Sunday. Costs? About \$57 (dbl. occ.), less without the ballgame.

NERVOUS — about your fall and winter wardrobe, Sanadoes? What's in? What's out? What's exposed? What's the cost? These questions and others as yet unformulated will be graphically answered at the meeting on the 14th when fashions from Lillyan's, jewelry from the Wood & Iron Shop, and hair styles from the Hair Shoppe will take to the runway. Theme is "Sanado in Style for the Season," commentator is Joan Anderson, decorator is Marlene Foesch, coordinator is Millie Gannaway, reserver is Sandra Ruth. How is a Sanadoe like a Thanksgiving turkey? Both are best dressed.

MORE INFO — 265-6791.