

LOOKING MORE like modern sculpture than sheet metal learning projects for structural technician apprentices, these shapes with their complex geometry were the result of 100 hours of sheet metal classwork instructed by Tony Gallegos of T-VI. Apprentices are (from left) Dennis Feeney (3618), Reggie Tibbetts (3613), Claudia Jeffery (3618), Bob Wittet (3618), and Lonnie Trujillo (3613). At top right is Mike Pacheco (3618). All are completing their fourth year in the five-year program.

## New Calibration Facility Operating At Power Tower

A new facility built primarily for calibrating instrumentation used on the Central Receiver Test Facility (CRTF) tower recently became operational.

Essentially a horizontal axis solar furnace, the facility may be used for calibrating sensors for high solar flux densities, for evaluating high temperature materials and coatings, for doing solar chemistry research, and for determining thermo-physical properties of materials and surfaces.

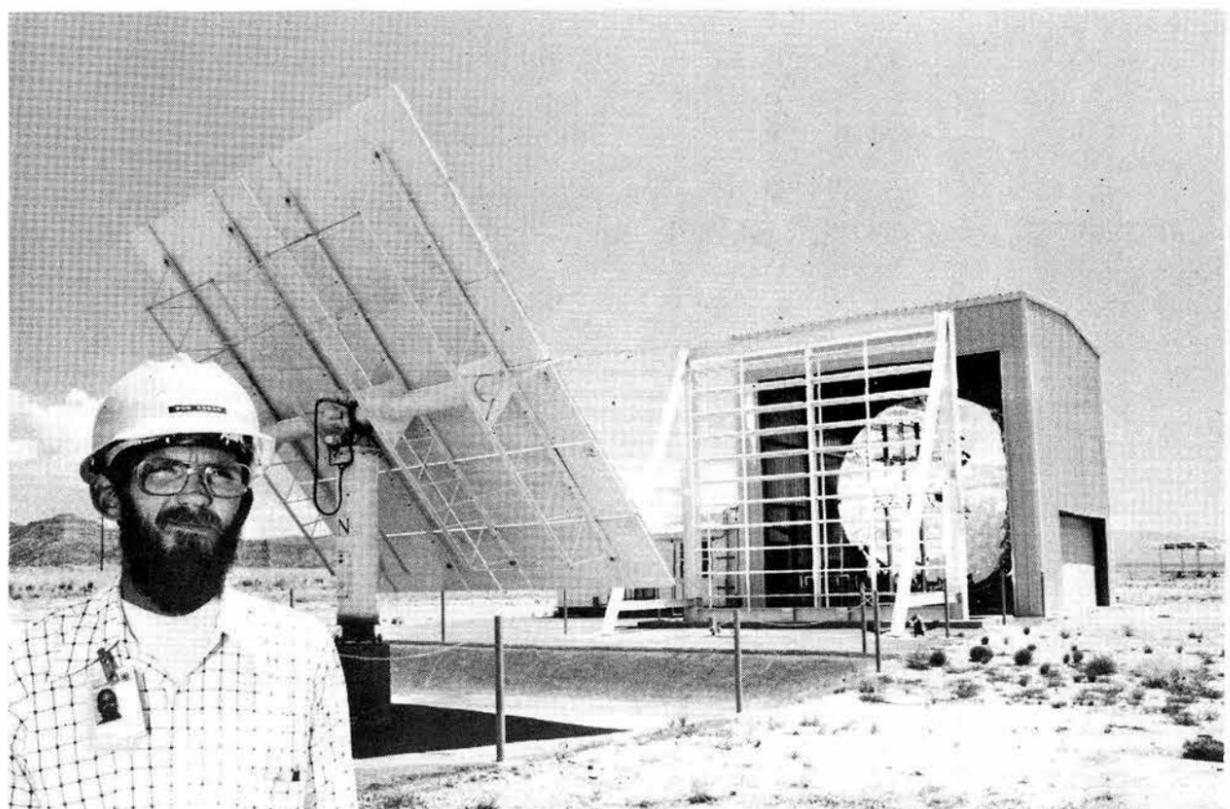
The calibration station comprises a sun-tracking heliostat, an attenuator, a concentrating parabolic mirror array, three-axis positioning table for test items, and a computer controller and data acquisition system.

The heliostat reflects sunlight through the attenuator, a slatted device like a venetian blind that controls the power level and flux density. When the slats are open, the sunlight strikes 228 focusing mirrors arranged in a parabolic dish 22 feet in diameter.

The parabolic dish, which has a 13-foot focal length, focuses a high-intensity beam on the test item or flux gage. The beam is about three inches in diameter, and items placed at its focal point can reach temperatures up to 5000°F—nearly twice the melting point of carbon steel.

# LAB NEWS

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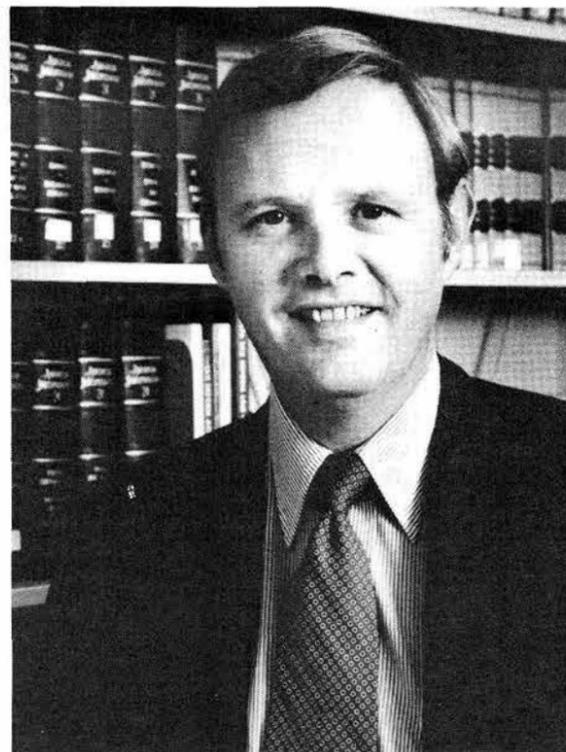


BOB EDGAR of Central Receiver Test Facility Division 9722 has responsibility for Sandia's new station for calibrating solar instrumentation. Sunlight is reflected from the heliostat through the attenuator (the slat-like structure) into a concentrator and then to the test table, which is essentially a solar furnace achieving temperatures up to 5000°F.

# Antojitos

Attention NASA--The Bell System reports that over one million Americans called a 900 number that allowed them to listen to in-flight conversations between the Columbia astronauts and mission control in Houston. Given that indication of popular interest in space flights, it would seem that NASA could alleviate its budget crunch by financing future space explorations in much the same way that KNME keeps public TV on the air. Future callers would hear a NASA spokesperson signing up subscribers-- "We'll have astronaut conversations for you in a few minutes, folks. But remember, your pledges will keep the next shuttle in the air for a few more orbits, and, if you get your friends and neighbors to help out, we can afford some more planetary probes, maybe even a journey to deep space. All the lines are open . . ." ●BH

On Personal Growth--I used to be indecisive, but now I'm not so sure.



## San Hamel Named Director in Legal

Quin San Hamel has been named to a new position, Director of Legal and Patent 6100, effective Aug. 1.

Quin first came to Sandia as an attorney in 1974. In 1979 he went to Western Electric headquarters in New York City. He returned to Sandia on temporary assignment in March.

Quin earned a Juris Doctor degree at DePaul University in Chicago, his home town, in 1966.

He says he's delighted to come back to Sandia, Albuquerque, and New Mexico-- "a great lifestyle and a fantastic climate, and Sandia is a marvelous place to work." The one disadvantage for him is a noticeable lack of water close enough to accommodate his sailboat, a hobby to which he became addicted while living in Rye, on Long Island Sound, and working in Manhattan. But his other hobbies-- tennis, golf, skiing, and fishing--will keep him amused between legal duties.

## Feedback

*Q. Several issues back, a Feedback item in the LAB NEWS mentioned that several employees would find it convenient to have Gate 11 remain open for a longer period in the morning and afternoon. The response was negative because of the manpower costs involved. Has installing a Mardix booth next to Gate 11 been considered?*

A. Over the years Mardix booths have escalated in cost from \$15,000 to approximately \$35,000. Add the construction costs for hardware connection to the Bldg. 801 control point and the total cost is around \$40,000. Additionally, the maintenance cost for a Mardix booth is about \$700 annually. Further, the control point is approaching a load factor at which adding Mardix booths or other security alarms will require additional security inspectors. Finally, a Mardix booth could not satisfactorily accommodate the rush-hour traffic at this gate--a security inspector is necessary; thus, no reduction in gate control would be possible. For these reasons, it is not feasible to install a booth at Gate 11 at this time.

D. S. Tarbox--3400

*Q. In a recent Computer World, I notice that Hughes Aircraft helps employees purchase personal computers. Does Sandia have any such plans?*

A. In order to clarify the wording in this article, we contacted Hughes Aircraft Corporation. We learned that Hughes does not help employees purchase private, personal computers. They do purchase stand-alone personal computers for employees in an effort to disperse computing power within the corporation but not for private use. Sandia is a prime contractor to DOE, and its procurement policies and procedures are governed by agreement between DOE and Western Electric. Our current policy does not permit the use of Sandia's procurement facilities for purchases by an individual employee for his/her personal use, and it is not anticipated that this policy will be changed.

R. R. Russell--3700

## Events Calendar

July 23-Aug. 1--"Two for the Seesaw," Fri. & Sat., 8 p.m., Sun, 2:30 p.m., Vortex Theatre, Buena Vista at Central, 247-8600.

July 23-25\*, 30-31, Aug. 1\*--Albuquerque Civic Light Opera, "A Funny Thing Happened on the Way to the Forum," 8:15 p.m., \*2:15 p.m., Popejoy.

July 23-Sept. 26--"Red Dawg," Barn Dinner Theater, 281-3338.

July 23, Aug. 3--Santa Fe Opera, "Die Fledermaus" (in English); Aug. 5--"The Marriage of Figaro" (in English);

July 30--"Mignon" (in French); July 24, 28, Aug. 6--"Die Liebe Der Danae" (in German); July 31, Aug. 4--world premiere, "The Confidence Man," 9 p.m., tickets at The Broadway Southwest.

July 24-25--Puye Cliffs Ceremonial, Santa Clara Pueblo, 753-7326.

July 25--Jazz concert at Madrid, \$4 at the door, 3-7 p.m. (43 miles NE of Albuquerque on north NM 14),

July 26--National Radio Theater, KUNM 90.1 FM, 10 p.m., "Mathry Beacon"; Aug. 2--"The Adding Machine."

July 26--Lecture Under the Stars, John Russell Brown, "Challenge of Shakespeare," 8 p.m., Central Mall, UNM.

July 31--Chamber Orchestra of Albuquerque concert, 8:15 p.m., Albuquerque Little Theater, 247-0262.

July 31--Rio Grande Zoo: Curator's Tour, The Mammal Collection, 9-12 noon, \$7; meet in Atrium.

August--La Compañia de Teatro de Albuquerque, "El Andador," Fri. & Sat., 8 p.m.; Sun., 3 p.m., 256-7164.

## LAB NEWS

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## Supervisory Appointment



SHERIDAN JOHNSTON to supervisor of Combustion Physics Division 8511, effective July 1.

Sheridan began his career at Sandia Livermore in 1969, working in the gas transfer program. In 1975 he became involved in a joint magnetic fusion energy project with Los Alamos in which combustion was used to simulate energy deposition in a gas-dynamic neutron source. Since 1977 he has been applying laser diagnostics to internal-combustion engines in a cooperative DOE research effort involving the auto industry and universities. His group is primarily responsible for experimental flame research.

His education includes a bachelor's degree in aeronautical engineering from Boston University, a master's degree in the same field from Rensselaer Polytechnic Institute, a master's degree in experimental aerodynamics from the von Karman Institute in Belgium, and a PhD in mechanical engineering from UC Davis.

Sheridan and his wife Melissa reside in Oakland. In his free time he enjoys bicycling and skiing. He is a member of the Combustion Institute.

### CRF Activities

## Engine Short Course Long on Benefits

In June, Combustion Applications Division 8522 hosted a highly successful international meeting on combustion research. Entitled "Optical Diagnostics in Internal Combustion Engines," the week-long lecture and lab series introduced participants to several optical techniques they can apply in their own combustion studies.

"Optical diagnostics have played an ever-increasing role in improving our understanding of the fundamental processes that occur inside the combustion chamber of the internal combustion engine," says Bill Robinson, head of

Department 8520. "Scientists and engineers at our Combustion Research Facility are at the forefront in developing and applying state-of-the-art optical techniques to the study of engine combustion.

"Part of our responsibility is to provide information on combustion research techniques to people who can then apply them to design better engines. The best way to do this is to bring in people and let them experience what really goes on in our lab."

Sheridan Johnston (now head of Division 8511) proposed, organized, and chaired the short course. All of the members of the engine research group in Division 8522

participated by contributing lectures, preparing notes, and supervising the lab sessions. Other special lectures were presented by invited experts from the auto industry, universities, and European research centers.

"The response was enthusiastic," says Bill. "We'd planned on 36 participants but accommodated 65 and still had to turn away many people. Our attendees represented 13 different countries, which in itself added an exciting flavor to the program. This was the second short course we've held—the first was a year ago—and we plan to have more."

Although lectures covered both theoretical and experimental topics, course content leaned heavily toward experimentation. An operating engine laboratory was available for each of the diagnostic techniques covered, and participants had the opportunity to make measurements with highly advanced laboratory equipment.

"One of the most difficult challenges in our business is to do long-term research that can have practical, short-term applications," explains Bill. "So we work very closely with industry in shaping our program and in transferring what we've learned to them—our information is published in the open literature. We also join in cooperative research groups with industry, universities, and other government labs and participate in a number of other outreach activities like this short course."



# SANDIA LIVERMORE NEWS

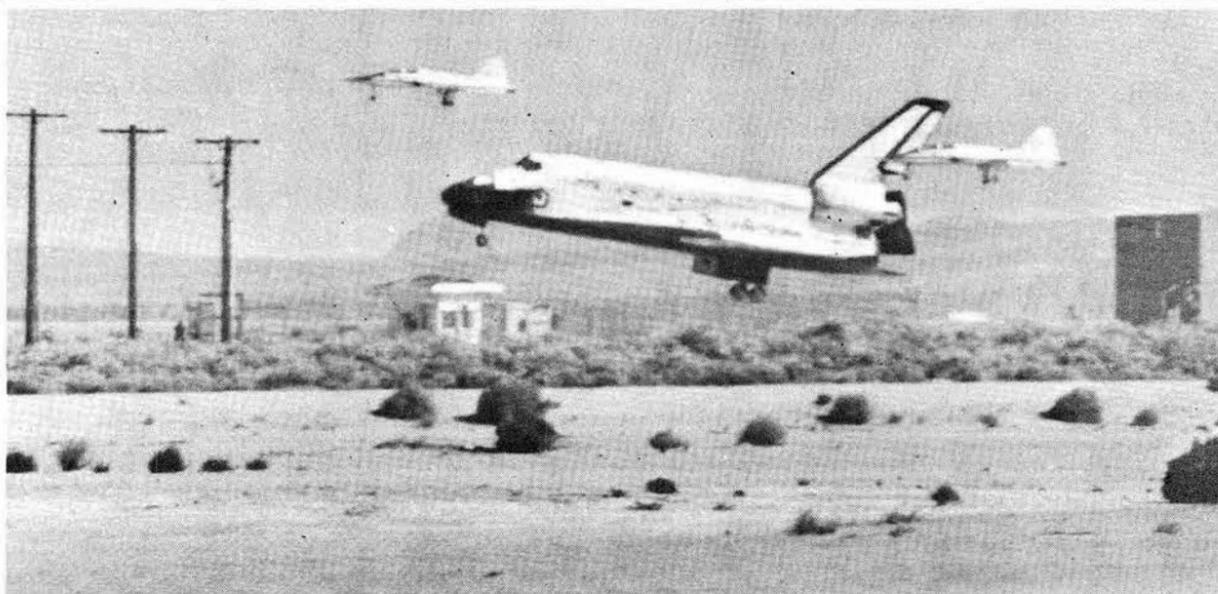
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SANDIA NATIONAL LABORATORIES

JULY 23, 1982



ILLUSTRATING temperature measurements in a constant volume combustor is Joan Woodard (8522). This was one of many hands-on experiments during the engine short course held in June at Sandia Livermore. The week-long workshop drew combustion researchers from throughout the United States, Europe, and Japan.



TOUCHDOWN COLUMBIA—Several Sandians spent the Independence Day weekend on a stretch of desert known as Edwards Air Force Base where the space shuttle landed on the 4th. Shuttle buff Glenn Rambach (8522) organized the expedition. Eldon Porter (8521), properly press credentialed, took this photo for the LAB NEWS.



RALPH BONNER (10/20)



LEE MASCHOFF (7245), ROBERT ZAMORA (3618-3), and ERNEST DURAN (3613-4).

## Supervisory Appointments

RALPH BONNER to Assistant to Executive Vice Presidents, Organizations 10/20, effective July 1.

Ralph joined the Labs in January 1967 as a staff member in the auditing organization. He later worked in employee benefits and with the Organization 400 Management Staff. In 1975, he was promoted to supervisor of Employee Benefits Division. Three years ago he became assistant to Vice President Al Narath. In his current position, Ralph will serve as assistant to two executive vice presidents—Al Narath and Tom Cook.

Ralph earned his accounting degrees—BS and MBA—at UNM. He enjoys skiing, running, and golf. He and his wife Patsy have two children and live in SE Albuquerque.

\* \* \*

LEE MASCHOFF to supervisor of Space Systems Division 7245, effective July 16.

Joining the Labs in 1957, Lee worked in the field test organization until 1968 when he transferred to Tonopah Test Range. Returning to SLA four years later, he worked in safeguards, including a one-year assignment at Hanscom AFB, Mass. Since 1979, Lee has worked in advanced telemetry development.

Lee earned his BS in EE from Iowa State and an MS in EE and computer science from UNM. Off the job he enjoys gardening and hiking. Lee and his wife Beverly have three children and live in Corrales.

\* \* \*

ROBERT ZAMORA to supervisor of Vehicle & Equipment Section 3618-3, effective July 1.

Joining Sandia in October 1968 as a janitor, Robert became a member of the mechanical apprenticeship program the

following year. Since his graduation he has worked with the refrigeration group.

Robert attended the U of A and UNM. He enjoys hunting, fishing, and backpacking. He and his wife Nora have four children and live in the NE heights.

\* \* \*

ERNEST DURAN to supervisor of Support Services Section 3613-4, effective July 1.

Ernest joined Sandia in 1969 as a mail carrier. In 1970, he entered the five-year mechanical apprenticeship program. Since graduation he has been a journeyman machinist in the pipefitting shop.

Ernest served in the Army from 1965-68, with one year in Vietnam. He enjoys bowling, baseball, hunting and fishing. He and his wife Margaret have three children and live in Bernalillo.

### Congratulations

Bill Ellis (2452) and Gwen Butler, married in Chicago, June 26.

Arlin Cooper (2612) and Dana Spoeneman (5150), married in Hawaii, May 30.

Steve (3435) and Teresa Heaphy, a son, Steven Patrick, June 24.

Willie (3435) and Cindy Johns, a son, Willie J. Jr., June 25.

Lorri Peterson and James Kaiser (both 3435) married in Albuquerque, June 26.

Karen Davis (2432) and Brian Moynier married in Albuquerque, June 26.

Fred Harper (9412) and Donna Walker married in Albuquerque, June 19.

Laura Sandoval (9414) and Cyrus Latoma married at San Felipe Pueblo, July 3.

Fred (3426) and Anne Mitchell, a son, Ernest Travers, July 16.



CAROLYN LUCERO to Section Supervisor (Lieutenant) in Security Operations Division 3435, effective June 16.

Carolyn became a full-time security inspector at the Labs in September 1976. Before coming to Sandia, she studied criminology at the U of A, and served in the Army from 1970-73.

A native of Albuquerque, Carolyn enjoys fishing, camping, and softball. She serves as a reserve with the Albuquerque Police Department. Carolyn lives in NE Albuquerque.

## Retiree Deaths

[April—June]

Fred Sanders, Jr. (68)	April 8
Harry Lindquist (71)	April 19
Clyde Northrup, Sr. (78)	April 23
Carlos Chavez (81)	May 6
Ormand Williams (62)	May 6
Shirley Miller (75)	May 7
Robert Barry (74)	May 13
Charles Tucker (67)	May 14
Joe Hickey (69)	May 20
Delmar Poer (76)	May 23
Gail Ward (68)	May 27
Kay O'Neal (66)	May 29
George Wright (75)	May 30
Elmer Kraft (67)	June 16
Lewis Wickham (76)	June 22
Joseph Fox (78)	June 26

## Faraway Places, Strange-Sounding Names

[Have you taken an unusual vacation? Call us about it—4-1053.]

Foreign travel isn't unusual for retiree Marian Goddard. She has vacationed in Hawaii, the Caribbean, Europe, and the Holy Land. However, last December, she embarked on a memorable three-month trip when she boarded the *M/V Klek*, a Yugoslavian freighter of the Jugolinija Line.

Freighter travel is not for the passenger on a tight time schedule. Sailings can be delayed by weather and by cargo handling delays. Berthing at ports of call can often be a time of waiting for traffic to clear, for a harbor pilot, or for tug boats. Because the ship is a working vessel rather than a cruise ship, many amenities of the latter are missing. And the itinerary of a freighter may be somewhat erratic, depending on its cargo commitments.

For Marian, these negative aspects of freighter travel did not exist; she enjoyed them: "I was fascinated by the activities in the harbors—the other ships, loading and unloading cargo, and the people. I often was on deck either very early or very late to observe all that was going on. Our ship carried 38 passengers plus officers and crew—all Yugoslavian. Many of them spoke several languages, including English, so communication was not a problem. Passengers occupied the third and fourth levels, and the bridge was on the fifth level. The passenger lounge had a radio, TV, bar, couches, tables and chairs.

"The officers and crew were friendly and good-natured. They often entertained us with stories, songs, and dances of their homeland. They were helpful when we were in port long enough to take side trips. They gave us some good tips on what to see and often helped us find an English-speaking tour guide or taxi driver.

Excerpts from Marian's travel log read like an adventure story:

"Sailed from Baltimore on Dec. 16 with a cargo of aluminum ingots (departure delayed by rain for two days).

"Arrived Camden, N.J., terminal by way of Chesapeake Bay and the Delaware River. Loaded soybeans bound for Egypt.

"Norfolk, Va. Cargo loaded was liquid tallow (used in cosmetics) for Casablanca.

"Arrived Saint John, New Brunswick, on New Year's Day. Lots of snow, very cold. Loaded paper destined for Livorno, Italy. Sailed Jan. 5 for Casablanca. Sea extremely rough during entire crossing of the North Atlantic. Tablecloths were dampened, cups used without saucers, chairs slid with the rolling of the ship. In the cabins anything loose had to be secured. We had a few injuries. I developed sea legs immediately. The Captain sailed in SE direction south of the Azores for calmer waters, still very rough.

"Arrived in Casablanca Jan. 14. Toured Marrakesh and Rabat. Saw Bedouins, mosques, forts, Casbah, snake charmers, bell ringers, palaces, camels, eucalyptus groves, Mohammed V shrine, and beautiful, rugged coastline.

"Livorno, Italy, Jan. 20. Toured city, side trip to Pisa (the tower really does lean!). Sailed Jan. 21 to Gabès, Tunisia. During this seven-day leg of the trip, saw whales and porpoises, smooth sailing, warm and balmy. Toured Gabès by taxi. Side trip to an oasis and nearby villages, drank juice of palm tree (no ill effects), mosques, burros and carts, big market.

"Alexandria, Egypt, Feb. 2. Anchored out in the Mediterranean Sea, unbelievable number of ships here. Next day, moved into the harbor. The ship changed ownership here from Yugoslavian to Egyptian. Became Rashid Line, *M/V Abu Alia*. Several excursions into city. Made four-day trip to Cairo.

"Barcelona, Spain. Calm seas and warm weather during four-day trip. Magnificent city! Sailed on the 27th for Straits of Gibraltar. Captain cruised slowly for our benefit. At dawn, saw the rock and the Pillars of Hercules. Headed north along coast of Portugal to La Coruña, Spain. Ocean was rough. One passenger was hurled across a room, breaking her arm (doctor on board), which terminated her trip at La Coruña. Arrived March 2. Sea was so rough the harbor pilot couldn't board ship, so our captain followed him to our berth. Seascape and surf spectacular! Toured city and made trip to Santiago de Compostela. Departed March 3 for Tampa, Fla. Traveled south of Canary Islands and due west. Engine failure March 12 (approximately 190 miles south of Bermuda), down 24 hours, ocean was calm, fortunately; shark circled ship for several hours. Spouting whales, porpoises, and flying fish were abundant. Chief Engineer and crew machined new part and we limped into Tampa (normal speed was 16 nautical miles per hour—we finished the journey at between 5 and 11 knots). Disembarked on March 19 (immigration was slower here than any port visited)."

Marian says she truly enjoyed her first freighter trip. "Of course, there was occasional frustration over delays or when our time on land was short," she says. "But an unexpected plus was the camaraderie among passengers, officers, and crew members—both Yugoslavian and Egyptian. We had access to most of the ship and



FOLLOWING the changing of the guard ceremony at a palace in Rabat, Morocco, one of the guards posed with Marian in front of an ornate, mosaic-tiled wall.

we had many impromptu parties and get-togethers. And, because of some of the delays, we visited five ports which were not on our itinerary."

Marian is now wait-listed on a freighter out of New York City to Australia and New Zealand, and return. She's also offered to discuss her trip with anyone who might be interested in freighter travel.

\* \* \*

*Logistics*—Air fare from Albuquerque to Baltimore and from Tampa to Albuquerque was \$390. Sailing was \$2000 for 40-55 days; however, the trip lasted 95 days—no extra charge (included passage, pleasant quarters shared with another passenger, and three meals a day). Four-day trip to Cairo was \$350. Side trips usually \$15 to \$25. With four people sharing a taxi, all-day cost was about \$10 each. Tips were extra. The trip was booked through TravLtips Freighter Travel Association.



WHILE HER SHIP was anchored in the harbor at Alexandria, Egypt, Marian took a side trip to Cairo, where she indulged in all the sights and activities for tourists—including a camel ride.



FEDERAL LAB REVIEW PANEL of the White House Science Council toured the ion implanation lab and the pulsed power facility in Area IV last month. Here they are briefed at the first stop by Paul Peercy (5112). Panel members include (from left( Minh-Triet Lethi, Edward Teller, Arthur Kerman (behind Teller), Albert Wheelen, Nobel Prize winner John Bardeen (behind Wheelen), David Packard (of Hewlett-Packard), and Jim Ling.



A BRIEFING for two senior officials of the Office of the Secretary, DOE, included Bill Myre (9200) who conducted a tour of the safeguards facility. Stephen Jones (center) is an administrative officer for Secretary Edwards, and William Neustadt (left) is a staff assistant to the Secretary. They spent a day last month getting an overview of Sandia weapon and energy programs.

## Take Note

Howard McCollister (7472) was named "Supervisor of the Week" by KKJY radio station for the week of July 5. He was nominated for the contest by employees in the glass lab. Howard received a plaque and gifts from the station.

\* \* \*

Here's your chance to make a docent beginning on a new avocation. The Maxwell Museum of Anthropology at UNM is offering a five-week training program for volunteer docents beginning Aug. 25. If you're interested in anthropology and children, you may be interested in learning to teach children about anthropology at the Maxwell. No ex-

perience is necessary. For more information, call the Education Division at the Museum, 277-2924.

\* \* \*

New president of the New Mexico Society of Professional Engineers is Phil Owens (2433). Phil came to Sandia in 1946 after a stint with the Manhattan Project. At Sandia he has worked in component development, systems development, and manufacturing engineering and specifications. He's now a specifications engineer. He joined the NMSPE in 1960 and has held several offices in the society, where he was elected "Engineer of the Year" in 1974.

Proud of your pictorial prowess? You may want to enter the Air Force's photography contest, sponsored at Kirtland by the Arts and Crafts folks. Call them at 4-0222 after 10 for rules, regulations, and prize info.

\* \* \*

Retiring recently and not shown in LAB NEWS photos were Juliet Abeyta (3411), Stephen Chester (9268), Milton Lesicka (3435), Hugh Pierson (1838), Hadley Rowe (3613), Walter Shoemaker (1120), and Martha Williams (2431).

\* \* \*

The Outdoor Singles Club—adults who enjoy hiking, camping, skiing, river running, fishing, 4-wheel driving—has scheduled the following activities: July 24, Lake Peak Hike near Santa Fe Ski Basin; July 27, dinner meeting at the Royal Fork, 1551 Eubank NE, slide show on India, Nepal, and Thailand; Aug. 7, day hike in Manzano Mountains; Aug. 14-15, backpack, Wheeler Peak; Aug. 21-22, non-technical climb of Mt. Sneffels near Ouray, Colo.; Sept. 3-6, bus trip, Rocky Mountain National Park. For more information, call Dave Williams (9424), 265-7164.

\* \* \*

"WIPP: An Advocate's View" is the title of an article by Dave Williams (9424) in the current (July 7) issue of *Century Magazine*. It is available at newsstands in the city.

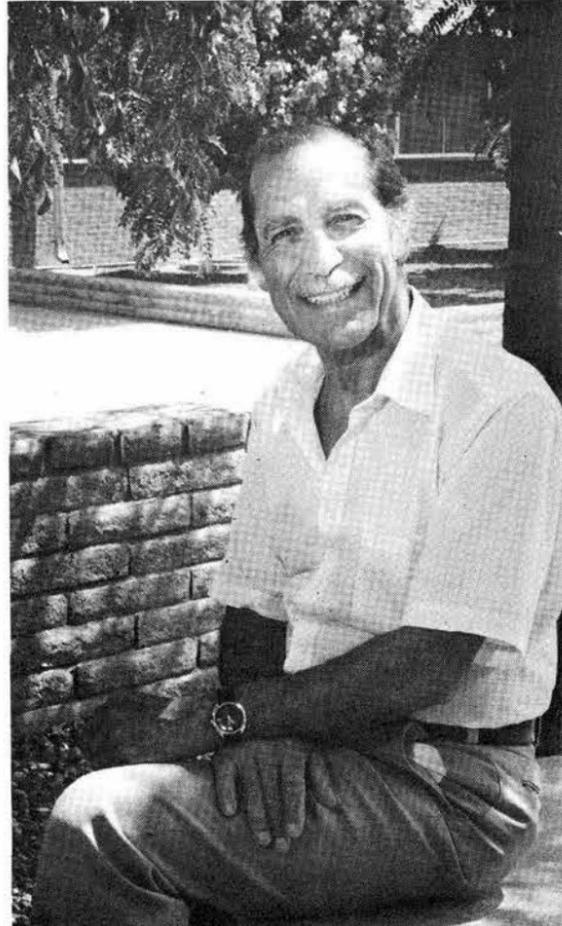
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Anyone interested in taking an advanced conversational German language class during the lunch period on Mondays starting July 26 should call Barry Marder (334) on 4-9829. The class will meet outside the Tech Area; Joan Winter is the instructor.

## Retiring



Arnold Strasburg (2514)



Joe Teresi (7412)



**SANDIA BIKERS** are a hardy lot, as bike safety coordinator Johnny Stuckey (3441) well knows. But there are some bikes (abandoned, it is to be hoped) around the Tech Area the riding of which would tend to severely tax the talents of the occupant, however skilled. Moral: like a good sailor, make sure your craft is seaworthy before casting off into the shipping channels.

## Go For Survival

A 30-minute slide-talk presentation entitled "Hug a Tree" will be given on July 28 and Aug. 4 at 12 noon in Bldg. 815 (outside the area). Bill Squire, field coordinator for the NM State Search and Rescue group, will narrate. His talk emphasizes the precautions to be taken on outings such as hiking and camping where a person may become lost. It is especially recommended for families with kids.

## Care & Feeding of Your High Blood Pressure

by Susan Harris [3330]

About 34 percent of the U.S. work force has some degree of high blood pressure, a major risk factor in heart attacks and strokes. Recent studies have shown that good control of high blood pressure can lower the risk of heart attacks and strokes.

If you have high blood pressure, there are several steps you can take to keep it under control:

**Restrict salt**—Salt causes the body to retain excess fluid, which puts an extra burden on your heart. Cutting down on table salt and the salt used in cooking and avoiding obviously salty foods like pretzels and pickles may help control your blood pressure.

**Lose excess weight**—Extra weight requires an increased blood supply, which puts more strain on your heart. You can lighten your heart's work load by losing

## Fun & Games

**Running**—Help raise funds to purchase playground equipment for the Child's Play Daycare center in the People for Kids Run on Sunday, Aug. 8. The 5k and 1 mile "kid run" starts at 8 a.m. at Chelwood Sq., corner of Candelaria and Chelwood. The first 300 registrants will receive T-shirts, and the three top finishers in each category will receive awards and gift certificates. For more information, contact Mike Moulton (9221), 293-0373, or pick up registration form at the LAB NEWS office.

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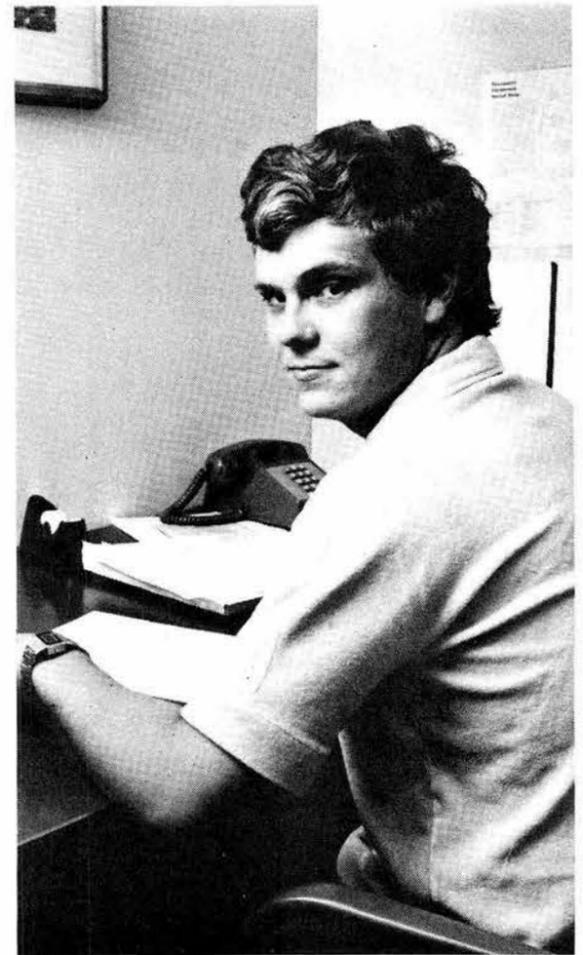
**More Running**—The Second Annual Blood Donor 5-Miler hosted by United Blood Services is set for Sept. 11 at 9 a.m. near the UNM North Golf Course. Entry fee is a blood donation during July or August at UBS (1515 University NE or 7206 Menaul NE) or at a bloodmobile site, including Sandia each Tuesday morning. Winners, placers, and showers in each of five age categories get awards; all runners get a T-shirt and refreshments. Donors get the latter only.

\* \* \*

**Golf**—Seeing Charlie Carter's (7424) picture in the LAB NEWS last issue reporting a hole-in-one prompted Bill Lutgen (2452) to call and report that he shot one last February during a military tournament at Tijeras Arroyo course here on KAFB. Bill shot his hole-in-one on the number 14 hole, par 3, 170 yards. Bill has been golfing "off and on" since he was 18 and this shot was his first hole-in-one. As a matter of fact, it was the first at Tijeras Arroyo during a tournament.

\* \* \*

**Tennis**—The Sandia Tennis Association is sponsoring a mixed doubles round robin tennis affair July 31 at the Albuquerque Tennis Complex, 1900 Stadium Blvd. SE. Play will be from 8:30 until 1. Association members pay \$2 to enter, others \$3. More information from Laura Gartling (1620), 4-6865.



**RICHARD BURKE** is working at Sandia in 9415 as part of a DOE fellowship. His doctoral thesis subject is financial risks of nuclear power reactor accidents.

## DOE Fellow At Sandia

As part of a DOE fellowship, Richard Burke is working in Safety and Environmental Studies Division 9415 on a project that will be his doctoral thesis—the financial risks of nuclear power reactor accidents. Richard's graduate work was in nuclear engineering at MIT, and the DOE fellowship supports his academic work.

"The probability of a nuclear power reactor accident is very, very low," Richard says, "but, nevertheless, we are assigning dollar values to all the elements of risk that would be involved in an accident. The plan is to develop the codes to program total costs to society."

Richard enjoys the work environment at Sandia. "At the university," he says, "you feel isolated. At Sandia, you become involved. There is so much going on, and it's exciting to be part of it."

Richard will work here another six to nine months. He plans to complete his thesis by the end of 1983.

The DOE fellowship, which is administered by Oak Ridge Associated Universities, began in February of this year. It is a highly competitive program which seeks to support outstanding students across the country who are seeking advanced degrees in nuclear power technologies. Currently, 12 fellowships have been awarded; this number will increase to 24 when the second cycle of awards begins on September 1, 1982.

For more information on the DOE fellowship program, write to the University Programs office, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, Tenn., 37830.

## Caribbean Basin — Good News and Bad

In a recent colloquium, Latin America specialist Lt. General Gordon Sumner (ret.) discussed the economic, strategic, and political importance to the U.S. of the Caribbean Basin. The region, which he characterized as our "third border," includes Mexico, Colombia, Venezuela, Central America, Cuba and the other Caribbean island nations, and Guyana and Surinam.

Sumner, outlining the Reagan administration's views, painted a picture of the Caribbean situation that is both gloomy and hopeful. He described the general status of U.S. hemispheric policy as a "shambles" after the recent Falklands-Malvinas war between Britain and Argentina.

"It's still hard to believe," he said, "that these barren islands—home to 1800 'Kelpers' and 600,000 sheep—could be the scene of a ferocious and highly technical war. Partly as a result of the conflict, such long-time institutions as the Monroe Doctrine, the OAS, and the Rio Treaty are being questioned, if not shattered."

Sumner pointed out that "war has been practically unknown" in the hemisphere. Citing a State Department study, he said that since World War II four million people have been killed in wars (including the Falklands), and of this number only 4000 have died in the Western Hemisphere. Except for the United States, Cuba, and Canada, only 1.4 percent of the area's GNP is spent on arms.

"Latin America and particularly the Caribbean Basin have been left out of our consciousness by the media," Sumner continued. "The American people have generally been ignorant of the rest of the hemisphere. They've been fed a hodge-podge of myths, misinformation, and simple untruths."

"We are one hemisphere—it's 'our' half of the world, and I don't mean that in a possessive sense, simply that we all live here. Latin America is part of Western civilization—we're not dealing with Muslim or Buddhist cultures. These countries are our near neighbors—Washington, for example, is closer to Costa Rica than to San Francisco—and what happens in the Caribbean affects our daily lives."

Sumner pointed out that the Caribbean Basin is our fourth largest market. We import \$30 billion worth of goods from the area and export \$31 billion. An estimated six million Americans visited the region last year and spent \$1 billion there. Its energy resources, concentrated in Mexico and Venezuela, are among the most extensive in the world; proven reserves of 62 billion bbls. of oil and 106 trillion cubic feet of natural gas; estimated reserves are much higher.

Reviewing major developments since 1978, Sumner described "massive economic disruption" in the area. Prices for sugar, coffee, and bauxite fell in the world

## 'We Need Safe Nuclear Transport'

It's quite a change from Tokyo to Albuquerque. For one thing, the Japanese capital is a wee bit bigger than the Duke City. Nonetheless, visiting scientist Minoru Kubo and his wife Teruko have adjusted well to life in New Mexico in the 14 months they've been here.

Minoru works in George Allen's Transportation System Development and Testing Division 9783. He represents the Power Reactor & Nuclear Fuel Development Corporation (PNC) of Japan in a joint project with Sandia to develop transportation systems for nuclear materials.

"In Japan we need safe transport systems to carry fuels from the fuel fabrication facility throughout the country," Minoru says. "Fresh fuel—plutonium and uranium dioxide—is transported to nuclear reactors mainly by truck. Then the spent fuel is returned by ship to the reprocessing plant."

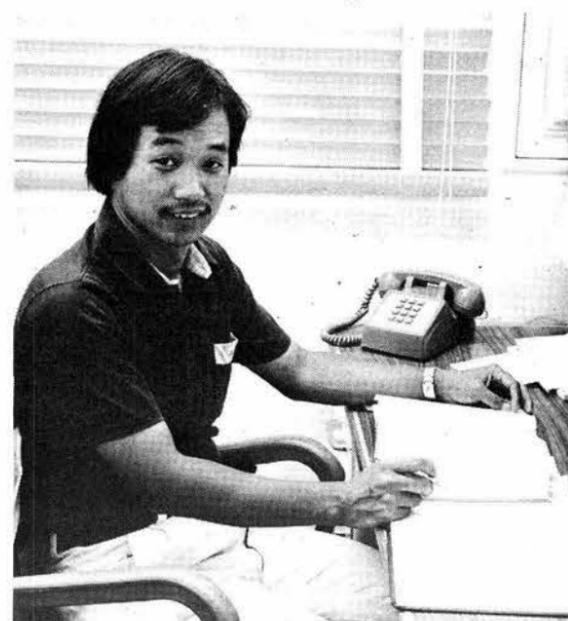
"Our nuclear fuel reprocessing plant is about 100 miles north of Tokyo at Tokai-mura. The plant is an engineering showplace—many American and other foreign scientists visit it."

Minoru first visited Sandia in 1978 to observe testing of transportation casks. In turn, Bob Jefferson, 9780 department manager, visited PNC to discuss a joint development and testing program that arose from the DOE/PNC specialist meeting on shipping and transportation. After a feasibility study, PNC selected Minoru to be its representative at Sandia.

"To test for nuclear materials leakage from our containers, we simulate both normal and accident transportation conditions," explains Minoru, "using surrogate materials for plutonium. Last month we performed an impact test on a quarter-scale model—a tractor-trailer, cask, and tiedown device—using a rocket.

market. The Central American countries are an "economic disaster"—almost all are "flat broke." In Sumner's view, hopeful signs are "two major reforms in El Salvador—land reforms and elections—that are being downplayed by the media." He said that "elections do not make the press"—recent elections and peaceful transfers of power have taken place in Honduras (where a military regime turned over the government to civilians), Costa Rica, the Dominican Republic, and Colombia. Elections in Jamaica and El Salvador did receive much publicity. On July 4, Mexicans elected a new president, Miguel de la Madrid Hurtado, although the outcome was never in doubt after he was handpicked by the incumbent José López Portillo to succeed him.

Cuba united the Central American radical left movement, continued Sumner; he characterized Nicaragua and Grenada as Castro's "prominent successes." He also expressed the administration's concern over Nicaragua's military buildup, albeit with a light touch: "They're bringing in heavy tanks and there's nothing to stop them until they get to Mexico City where they'd get lost." After this reassurance that Mexico City's freeway system constitutes



ON TEMPORARY ASSIGNMENT at Sandia is Minoru Kubo of Japan's Power Reactor and Nuclear Fuel Development Corporation. PNC, like Sandia, simulates transport of nuclear materials under both normal and accident conditions.

Next year we plan a full-scale crush test for a PNC-designed container, and the following year a full-scale fire test and an immersion test in which the cask will be dropped in water."

In their leisure time, Minoru and Teruko (or Terry, as American friends call her) enjoy traveling around New Mexico and adjoining states. "We love the open country of the Southwest," says Minoru. "The scenery around Durango especially reminds us of Japan."

Teruko has also been busy—a professional silversmith, she's been studying Indian jewelry-making with ex-Sandian Bob Burgess. Their daughter Yoshino, age five, attends Sunset Mesa preschool. "She speaks English very well," says Minoru. "She counts up to 100 in English—in Japanese only up to 10."

our first line of defense, Sumner shed more perspective on the region by pointing out that the Mexican capital has a larger population than all of Central America.

"The U.S. cannot do it alone," he said. "We've asked Canada, Mexico, and Venezuela to join us in developing a Caribbean Basin aid package. Canada has never done much in the hemisphere—they've invested billions but never got involved in the problems. Mexico and Venezuela have been running a joint petroleum facility providing oil to Central America and the Caribbean at reduced prices. This program has amounted to \$300 million a year in aid. Both countries have assured us that this assistance will continue, and we've approached Europe and Japan as well."

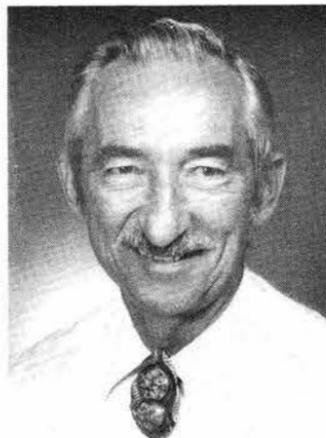
Sumner concluded by acknowledging that "we've made a lot of mistakes in this area, but we can't keep carrying a burden of guilt." We must avoid polarization, he continued, because it destroys the moderate center.

Note: Sumner recommended the following as the best U.S. sources for news on Latin America—*Christian Science Monitor*, *Miami Herald*, and *Diario de las Américas* (Miami).

# MILEPOSTS

## LAB NEWS

JULY 1982



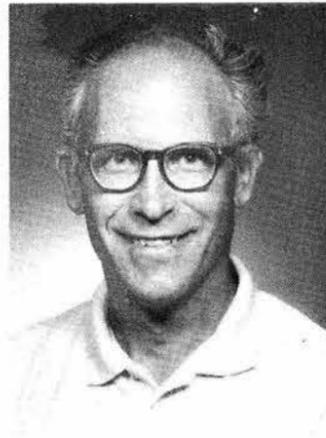
Ben Petterson - 9721 30



Ed Smith - 2545 15



Charlie Winter - 0400 30



George Clark - 2152 20



Don Amos - 1642 20



Leland Byers - 2451 15



Tom Oglesby - 9041 20



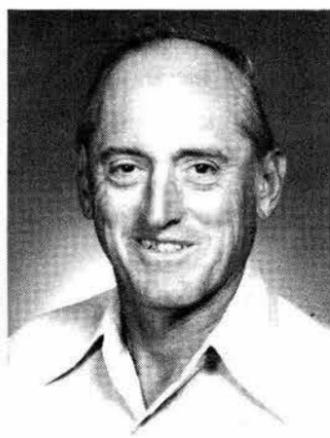
Irv Hall - 7223 15



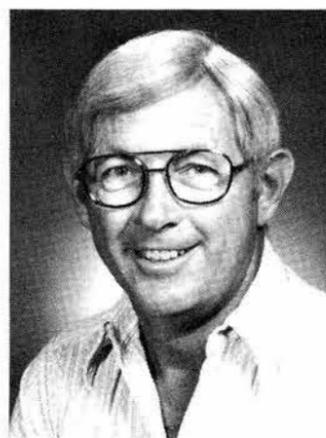
Tom Donham - 2364 25



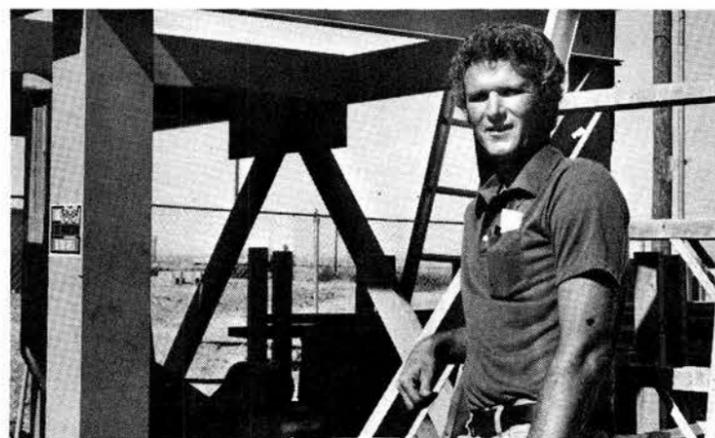
George Novotny - 9314 15



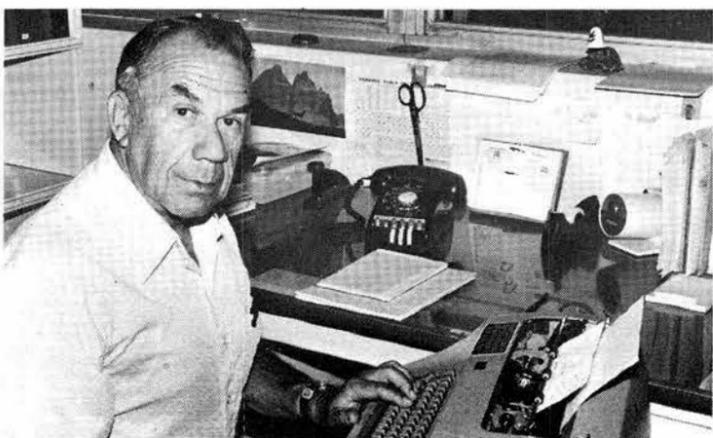
Fred York - 2336 25



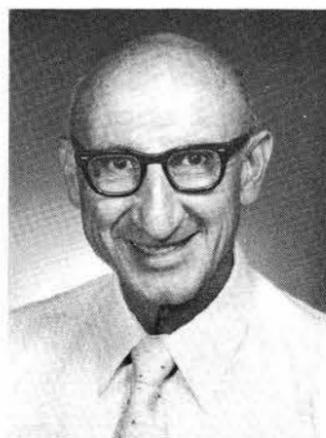
Austin Arthur - 7125 25



Dave Shirey - 9747 20



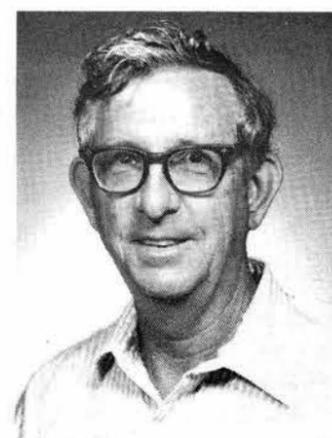
Phil Mead - 0400 25



Sam Gaeto - 3223 25



Bob Roginski - 0332 15



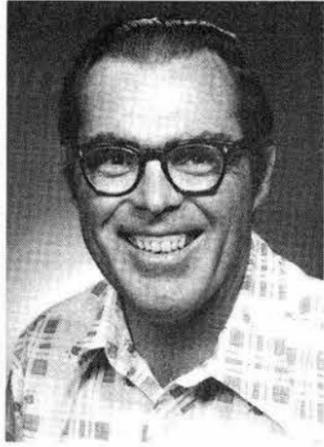
Haskell Woodall - 1261 25



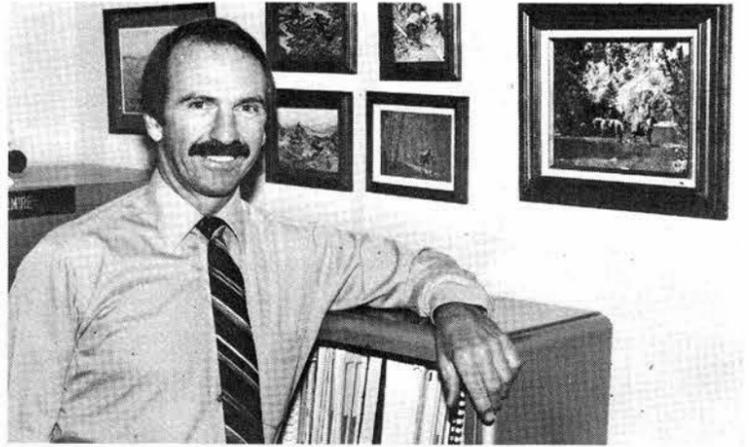
Bill Irwin - 8466 20



Bob Peterson - 8463 30



Bill Stephenson - 2565 25



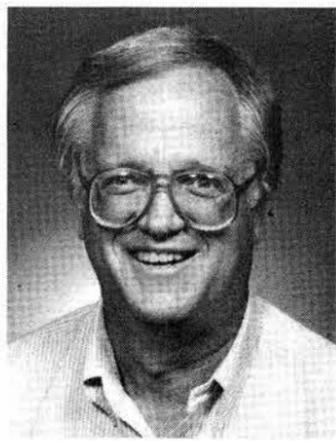
Dave Bushmire - 2123 25



Louie Bryant - 3435 30



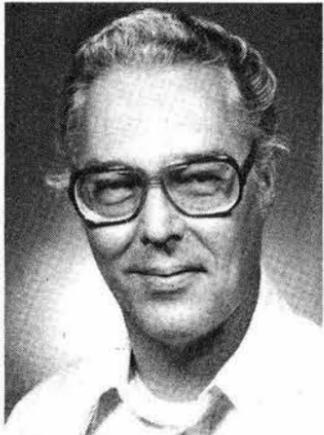
Howard Jones - 9335 25



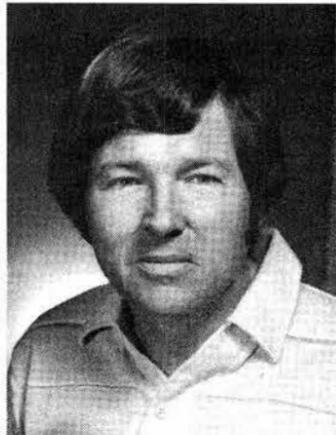
William Hartman - 9214 25



Mary Gonzales - 3152 25



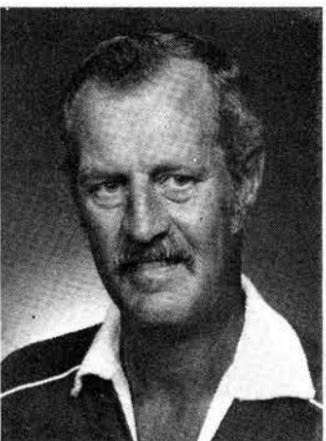
Miller Cravens - 9251 25



Ron Hadley - 5511 10



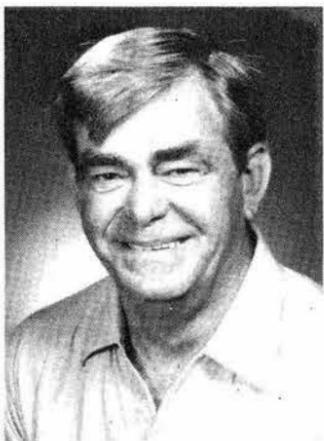
Freddie Heard - 9741 10



Karlan Boultinghouse - 9728 25



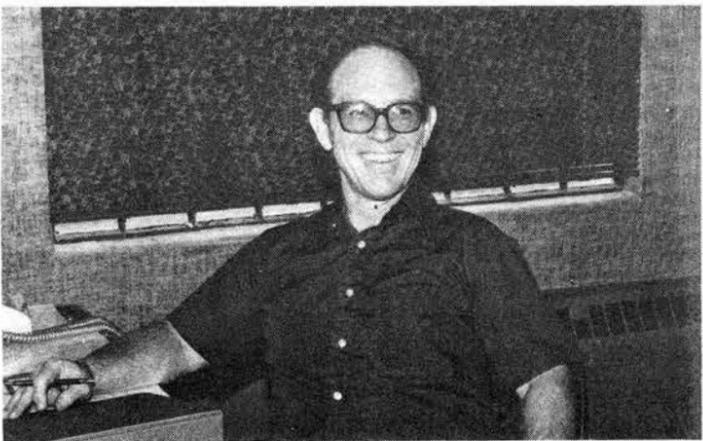
John Stichman - 2335 10



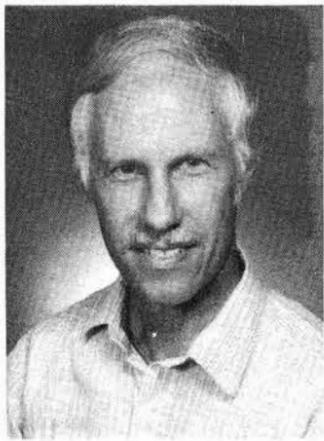
Lawrence Allen - 2515 15



Ken Harrington - 7412 35



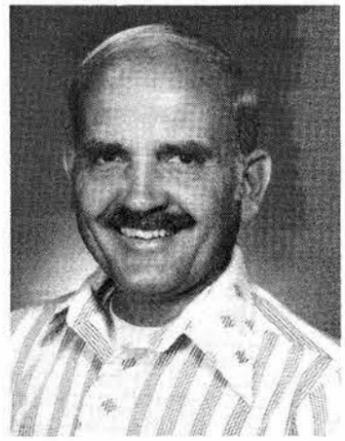
Norris Rose - 7170 25



Keith Treece - 2115 20



Robert Martin - 9213 25



Howard Gerwin - 9721 25

## Sympathy

To Edward Graham (2112) on the death of his father in Clarksdale, Miss., June 22.

### Author

R. L. Iman (7223) and W. J. Conover (Texas Tech), "A Distribution-Free Approach to Inducing Rank Correlation Among Input Variables"; R. L. Iman and J. M. Davenport (Texas Tech), "Rank Correlation Plots for Use With Correlated Input Variables," COMMUNICATIONS IN STATISTICS.



Scientists' fondness for the passive voice ("It has been found that" instead of "We found") may stem from their desire to avoid appearing "boastful." If so, that is becoming modesty, but what if the great men of history had shared this exquisitely refined sensibility? Caesar would never have said, "I came, I saw, I conquered," but "The place was arrived at, was observed, and was duly overtaken." Paul Revere would have gone through the streets of Boston shouting, "An arrival of British has been noted!" (or even "notated!")

Donna Woolfolk Cross in *Word Abuse: How the Words We Use Use Us*



SANDIA RETIREE Bill Carstens is spending his time these days terrorizing young women. That's because he has a lead role in a Pulitzer Prize-winning play, *Buried Child* by Sam Shepard, at the Adobe Theatre in Corrales. Nancy Roope plays Shelly, the unwilling object of Dodge's (Carstens') affections. The play, a powerful study of a disintegrating family, runs Thursday through Sunday nights through Aug. 8 at 8:30. Reservations at 898-3323.

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7. No more than two insertions of same ad.
8. Include name & organization.
9. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

### MISCELLANEOUS

- BEARCAT 250 crystalless scanner, 50 channels, 5 bands, search w/64 search memories; Digital clock, AC/DC, priority channel, etc., \$275 or best offer. Prior, 296-2930 after 6.
- COVERED hauling trailer, \$350; roof-mounted 4-bike rack, \$75; HO train set, \$100; 10-spd. bike, \$40; prof. hair dryer, \$75. Pryor, 846-1344.
- BEDROOM FURNITURE: 64" dresser w/mirror, 2 24" nightstands, queen size headboard, \$500. Harris, 821-8524 after 5.
- 1 PAIR L60x14 tires on white spoke wheels, \$57; roll bar, \$57. Nelson, 881-0148.
- WASHER & DRYER, Sears, used washer 7 mos. & elec. dryer 15 mos., white, \$400 for both. Beeson, 299-6132.
- GERMAN SHORT HAIR Pointer pups, ready to train as bird dogs, gentle, make good guard dogs. McKenzie, 298-8933, 266-9061.
- 3-PIECE sectional couch; occasional chairs; end table; glass coffee tables; B&W TV; International zig-zag sewing machine. Syme, 296-4758.
- SHOP MANUAL for '78 Accord, \$12; trailer hitch for '64-65 Chevelle, \$20; '76 Honda motorcycle parts, \$5; twin headboard, \$25. Zirzow, 294-6142.
- SLEEPER SOFA, \$95; trundle bed, \$195; lg. oak desk, \$225; desk chair, \$35; Frigidaire refrig., gold, 3-dr. w/ice maker, \$425. Ripi, 884-4683 after 5.
- QUEEN SIZE mattress & box springs, \$100; corner set type bed, new, \$125; truck chrome bed rails, \$50. Arana, 299-1214.
- TWIN SIZE bed frame w/maple head & foot boards, \$20. Shenk, 296-6015.
- ENCYCLOPEDIA Britannica's "Great Books of the Western World," 52 volume set, \$550 or best offer. Jones, 292-1070 after 5.

- 21" COLOR TV, older Sears model, \$50; Hibachi barbeque, \$7. Simons, 821-9343.
- BOWLING BALLS & bags, ladies 12 lb., man's 16 lb. Minter, 256-9225.
- BUFFET dining combination, extends to table 102" long w/6 leaves, walnut finish, \$150. Rauch, 821-6992.
- FREE KITTENS, 7 wks. old, black-white or grey-white; and/or mother cat, black-white. O'Bryant, 268-9049.
- WINDOW air conditioner, 11,500 BTU, Montgomery Ward, 24" w, 14" h, \$75; 3-spd. 26" girl's bicycle, \$50. Carpenter, 256-0614.
- CART, kitchen utility, 3 shelves, chrome frame, 30" h, 17" w, 24" l, by Casco, \$12. Rainhart, 821-3690.
- TWO matching leather-like couches in white, removable back cushions, \$50 for both. Fortune, 877-1465.
- SPINET PIANO, Starck w/bench, \$600 cash. Hinkebein, 293-9793.
- 14 CLUB SET First Flight Pro golf clubs w/Clubster cart, \$200. Goodwin, 294-6702.
- DOUBLE BED, includes box springs, mattress, frame, \$80 or best offer. Quintana, 881-4576 after 6.
- KODAK Pocket Instamatic camera model 60, electronic eye & shutter, \$60; Heathkit digital speedometer & tach, combo, assembled, never used, \$40. Johnson, 299-2526.
- PUMPS, shallow well/jet, 2 yrs. old, 1 hp Meyers Ejecto, \$180; 3/4 hp Jaruzzi, \$150. Stobes, 898-1237.
- PIANO, Yamaha electronic CP20, 1 1/2 yrs. old, sound & action of acoustic piano, never needs tuning, \$600. Wehrle, 265-4667.
- NIKKORMAT FTN w/50mm/f1.4 Nikkor lens, \$165; plus 300mm/f5.6 Kilfitt lens, Nikon mount, \$35. Moyle, 298-8903.
- VIOLIN, bow & case, \$150; McCulloch Mini-Mac chain saw, \$75; waterfall w/pump, 3 fiberglass bowls, \$30. Bliss, 296-3752.
- TRAINS: Lionel & HO, loads of ladies goodies, jewelry, household items & more. Saturday and Sunday, July 24 & 25. Campbell, 299-4830.
- CAMP SITE camper shell w/cabinets & elec. wiring, insulated, \$300; 3-spd. bike, \$25. Rodriguez, 345-0212.
- GE Americana double oven/range, self-cleaning, harvest gold, \$295; vintage 80cc Yamaha dirt bike, \$50. Feltz, 293-8732.
- AIR CONDITIONER for Renault 16, \$40. Pierce, 299-1946.
- ITHICA-SKB 12 gauge model XL900 super deluxe, \$300; GE refrigerator, self defrost, 16 cu. ft., ice maker, \$175. Walsh, 265-7498.
- RUGER Security Six, .357 mag., 6" barrel, stainless steel, dbl. action, includes vinyl carrying case, serious inquiries only, please. Prieto, 265-2292.
- FIBERGLASS patio waterfall, \$40; lg. wrought iron chandelier, \$25; 50 red border bricks, \$12; spinning wheel floor lamp, circa 1940, \$65. Kent, 299-8821.
- TODDLER CAR SEAT; high chair; Jerry backpack; baby swing set; 3' redwood fence pickets. Stephenson, 296-9330.

- MARTIN guitar w/hard shell case. Nichols, 296-8259.
- 3 GALS. Sherwin Williams white interior paint, \$25; 4 Chevy truck wheels, 9.50x16.5; Volkswagen gasoline heater. Hitchcock, 294-5153.
- STORM/SCREEN DOOR w/fixtures, 79 1/2x35 1/2 inches, never used, \$45. Swain, 265-0098.
- INVALID elevated toilet seat w/arms, \$45; bamboo bar stool, \$15; port. typewriter, \$10; 2 hamster cages, \$15. Rouckus, 266-8577.
- 1978 APACHE Cimarron camping trailer, solid wall stove, 3B stove, 2 dbl. beds + gaucho, \$3800. Luth, 292-1642.
- 1981 WINNEBAGO travel trailer, 23', sleeps 6, refrigerated air, TV antenna/amplifier, load-leveler hitch, leveling jacks, \$10,000. Sprague, 299-7488.
- WATER SOFTENER, Culligan Mark 1, \$50. Bartel, 821-4032 after 6.
- WOOD: American walnut, white oak & cherry, select grade, 3/4" kiln dried, available end of July. McClean, 292-3119.
- PUREBRED Cocker Spaniels, \$75; ready Aug. 22, black or tan, \$20 holds your choice. Jones, 299-4776.
- AIR CONDITIONER, refrigerated, GE, heavy duty, high efficiency model, 8500 BTU/hr, mounting hardware, \$185. VanDenAvyle, 898-6474.
- RADIAL TIRES w/15" 6-bolt Chevy rims & hubcaps, \$225. Moyer, 881-0754 after 5.
- SEARS 16' frost free refrigerator/freezer w/ice maker, pale pink, \$149; carpeting, 12'x18' w/padding, avocado, \$45. Sublett, 884-4426.

### TRANSPORTATION

- '60 CHEVY pickup, \$750. Friedman, 344-5717.
- '76 MG Midget, \$3000/offer/trade for larger car. Bartberger, 293-7869.
- '75 PINTO 3-dr. runabout hatchback, AC, radials, 56K miles, \$1500. Baxter, 344-7601.
- '65 HARLEY DAVIDSON Sportster, new engine, many extras, lots of chrome, \$2500. Lopez, 293-6615 after 6.
- '72 VW Bus, AC, \$2500. Fowler, 247-9305 after 5.
- '82 KAWASAKI KE-175 dirt, street, 600 miles, new cost \$1300, sell for \$995. Ulibarri, 881-3551.
- '67 PONTIAC Catalina/Ventura, 4-dr., elec. windows, AC, deluxe pkg., make offer. Arning, 296-7510, 256-9229.
- '81 HONDA CR125R dirt bike, water cooled engine, \$950 or best offer. Moss, 299-6573.
- '65 PORSCHE Coupe, 356C, majority restored (engine, interior, paint, tires), \$8700. Valdez, 299-6682.
- '72 VW Super Beetle, radials, \$1800. Halsey, 299-6418.
- '74 CHEV. pickup, 1/2 ton, 350 engine, std. trans., AM-FM stereo, radio & tapeplayer, \$1800. Marquez, 877-4928.
- '66 VW bug converted to Baja, have various body parts available. Volk, 299-1702.
- '75 RIVIERA, one owner, loaded, low mileage, low down, no interest, white w/red, \$3400. Browne, 881-3772.
- '80 AMC Eagle wagon, 39K miles, AC, 4x4, AM-FM-Cass., \$7500, best offer. Maddox, 281-5683.
- '79 FORD E350 chassis, leisure van, full power, roof storage, dual batteries, dual tanks, refrig., stove, heater, swivel seats. Raybon, 299-2135.
- '81 200SX, fancy paint, wire wheels, louvers, AC, low mileage, 5-spd., \$8100. Stickler, 266-1808.
- '73 OPEL GT, restored baby Vette, orange, CPI book value \$3500, asking \$3000. Baxter, 344-7601.
- '76 HONDA Accord, air, semi-auto, AM-FM-8TK, Michelin tires, best offer. Chandler, 296-3323.
- '68 BUICK Skylark, 150K miles, \$295. Rice, 296-8252.
- '81 CHEVY Chevette, 4-dr., lt. metallic brown, 10K miles, 1 yr. old, \$5000. Ortega, 294-6509.
- '69 FORD Galaxie for parts, \$100 firm, needs new engine. Garcia, 865-7942, 344-0784.
- '79 MERCURY Zephyr Z-7 sports coupe, moonroof, vinyl top, AC, AM/FM/8TK, 4-cyl., 4 on the floor, below book at \$4200. Hymes, 294-5369.
- '80 HONDA Prelude, AC, AM-FM-Cass., power moonroof, \$6500. McDowell, 292-1099.
- '69 PORSCHE 912, 5-spd., AM-FM-Cass., sunroof, new paint. Dan, 296-0493.
- '74 MGB convertible, AM-FM, 4-spd. plus OD, consider trade. Traver, 294-2138.
- '70 FORD Fairlane stn. wgn., PB, PS, radio, \$800 cash. Daniel, 296-4231.
- '67 VW BUG, \$1600 or offer. Lewin, 898-2303.
- '60 WILLYS wagon, 4-wd, runs, needs some work, make offer. Austin, 292-4730.
- '80 RABBIT Diesel, deluxe model, AC, AM-FM-Cass., \$4800. Weatherbee, 869-2849.
- XL 350 HONDA trail-street cycle, recovered after theft, rough but motor sound, 5K miles, NADA \$550, take \$300. Shunny, 265-1620.
- '67 CHRY. stn. wgn., 9-pass., PS, PB, AC, firm \$300 cash. Dobias, 256-7476.
- '74 COROLLA, 4-spd., 1200cc, never wrecked, 35 mpg; plus 2 snow, 2 reg. tires, \$1400. Osburn, 298-0354.
- '77 CUTLASS Supreme 4-dr., buckskin, new tires, power, cruise, air, tilt, split seats, AM-FM-8TK, \$3795. Trennel, 898-1224 after 7/24.
- '73 DATSUN pickup, \$800. Draper, 877-2802.
- BICYCLE, Schwinn Super Sport, 27", 10-spd., \$80. Nagel, 298-2779.

### REAL ESTATE

DEER LAKE ESTATES, mountain cabin, near Cuba, 850 sq. ft., well, full bath, elec., heat, deck, fine views, acre +. Stamm, 255-2640.

### WANTED

- TRADE about 4 doz. quart size Mason jars for pint size. Newman, 299-2729.
- USED Huffy model "Wind" 15-spd. bicycle for parts or rebuilding. Roberts, 255-9527.
- EXPERIENCED PERSON to change 1971 Triumph Tiger motorcycle from positive ground to negative ground. Souther, 842-8762.
- RENT OR BORROW: video tape of World Cup Soccer final. Finger, 345-6865.
- LIGHT WEIGHT cabover camper for 1wb 1/2-ton pickup, w/refrig., heater & range top. Chirigos, 884-5686.
- '55 FORD pickup, car shop manual. Stuart, 299-9190.
- ASSEMBLY MANUALS for Bradley 52 MGTD. Garcia, 877-6541.
- CLEAN, affordable, 3/4-ton pickup w/PS, AC, other options open. Ludwick, 296-6447.
- HEADBOARD, bookcase style, queen size, dark stained; pictures of NM scenery. Hitchcock, 294-5153.
- POODLE, standard, female, black, age 3-6 months. Swain, 265-0098.
- BASKETBALL backboard & mounting (roof or pole) in very good condition. Blejwas, 294-2057.
- MICROVISION BASE. Arning, 256-9229.
- OLD Marvel comic books, preferably X-men or Spiderman, at reasonable prices. O'Bryant, 268-9049.
- MEN'S 10-spd. bike, 24-25" frame. Bartel, 821-4032 after 6.

### WORK WANTED

PAINTING, UNM student workshop, references, estimates. Peter Shun-ny, 266-0266.

### SHARE-A-RIDE

COMMUTER VAN: Paradise Hills, Taylor Ranch, Coors Blvd. boarding; full time or alternate. R. Bailey, 897-4740, M. Patterson, 831-3454.

# Beef Burgundy Buffet Tonight

**HAPPY HOURS**—Tonight, beef Burgundy with noodles tops the buffet menu while Youngblood plays for dancing. The buffet costs \$4.75 for adults, \$3.25 for children 12 and under.

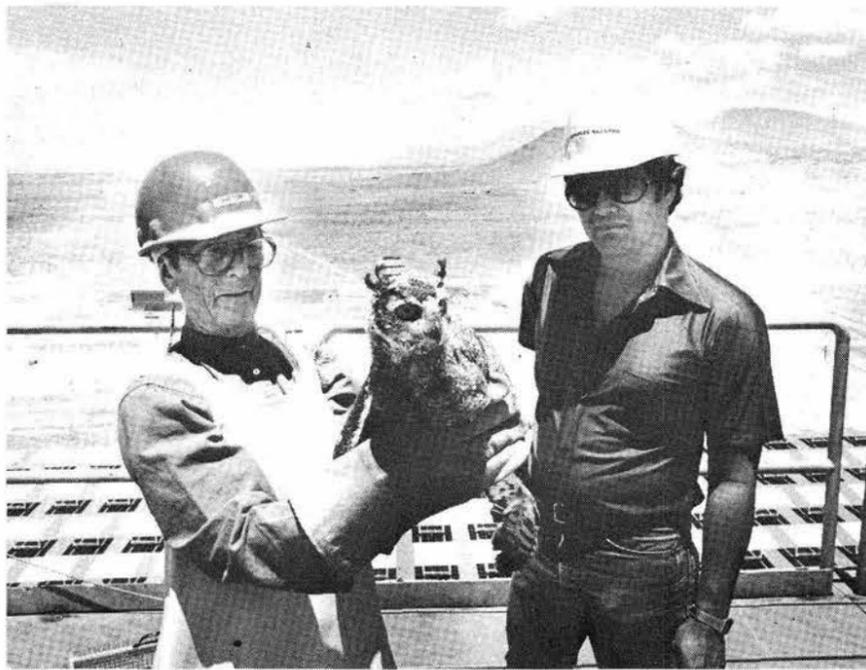
Next Friday, July 30, a German food buffet will be spread while Fandango plays Latin, swing, and country.

Friday, Aug. 6, is the first Friday of the month and it's Single Mingle time again. Members may bring one guest of either sex; others pay \$1 for admission. The music starts early at 5 and lingers late until midnight. Frankie and the Corvettes play a mixed bag of tunes ranging from current pop, fifties-style, and western. The buffet, served from 5:30 until 9, includes chicken cacciatore or baked fish for \$4.95.

**DON VOLER**, assistant Club manager, died in a motorcycle accident July 5. He was 22, had worked at the Club for 15 months.

**VARIETY NIGHT** on Saturday, Aug. 7, features a full-length MGM animated film, *The Lord of the Rings*. Hot dogs, hamburgers, French dip sandwiches, and pizza are available at 5. The movie starts at 6. Admission is 25 cents per person.

**ANNUAL MEETING** of the Club membership will be held in early September. There will be seven vacancies on the board of directors. To nominate a candidate for the board, call the Club office, 265-6791, or contact Ron Ward (7483), 4-2247.



**SUCCESS STORY**—A baby great horned owl fell out of its nest at the Power Tower earlier this summer, and Charles Navarro (9722), right, called the State Department of Game and Fish which picked up the bird, took care of it for three weeks while its flight feathers developed, and returned it to the tower where the Department's Helen Mill, left, released it. It is assumed the bird is alive and well in its natural environment.

**VOLUNTEERS** are needed to deal blackjack and poker at the Club's upcoming Casino Night, Aug. 21. Contact Adele Caldwell (3423), 4-2391. Casino Night will again offer a basket of doorprizes including a biggie weekend for two at Sam's Town Hotel and Gambling Hall with transportation by Western Airlines. Elton Travis will play for dancing.

**CORONADO GRANDSQUARES** are meeting on the second and fourth Mondays during July and August. The annual "melon feast" is set for Monday, Aug. 23. Starting Sept. 13, the group offers a 14-week refresher course for square dancers who have had some previous experience. Enrollment costs \$35 per couple. This class will be followed by a plus course in January. For more details, contact Bob Butler (7233), 4-4940, or Ed Ehrman (2154), 4-2816.

**THE THIRD ANNUAL** Coronado Club "Fun Tournament" for golfers who really don't care is set for Tuesday, Aug. 31. The

event may have the world's weirdest rules, but participants do have fun. Pres Herrington (9773) and Ivars Gals (7124) are co-chairmen. Sign up at the Club office.

**TRAVEL DIRECTOR** Frank Biggs (4231) announces two new trips—an overnight junket to ride the Cumbres & Toltec scenic railroad Sept. 25-26 and a trip to Dallas over the Thanksgiving holidays to attend a Dallas Cowboys game. The Cumbres & Toltec trip costs \$82 per person (dbl. occupancy) and includes charter bus, snacks and treats on board, lodging, and the train ride. The Dallas package (Nov. 25-27, \$225) includes air fare, tickets to the game, Dallas transportation, admission to Six Flags Over Texas, and Thanksgiving dinner atop the Hyatt Regency Tower. For either trip, deposit \$50 now.

Two travel slide shows are scheduled at 7 p.m. on July 27 and Aug. 10 to preview upcoming trips and to highlight the New England-Québec City tour. Information on all club trips will be available.

Other Club travel packages include:

Las Vegas, Sept. 12-15, \$130 by bus, \$185 by air. Stay at the Maxim Hotel, tour Hoover Dam.

New England—Québec City, Sept. 25-Oct. 3, includes air fare, charter bus in New England and Canada, some meals, lots of goodies, \$410 plus air fare (currently \$210).

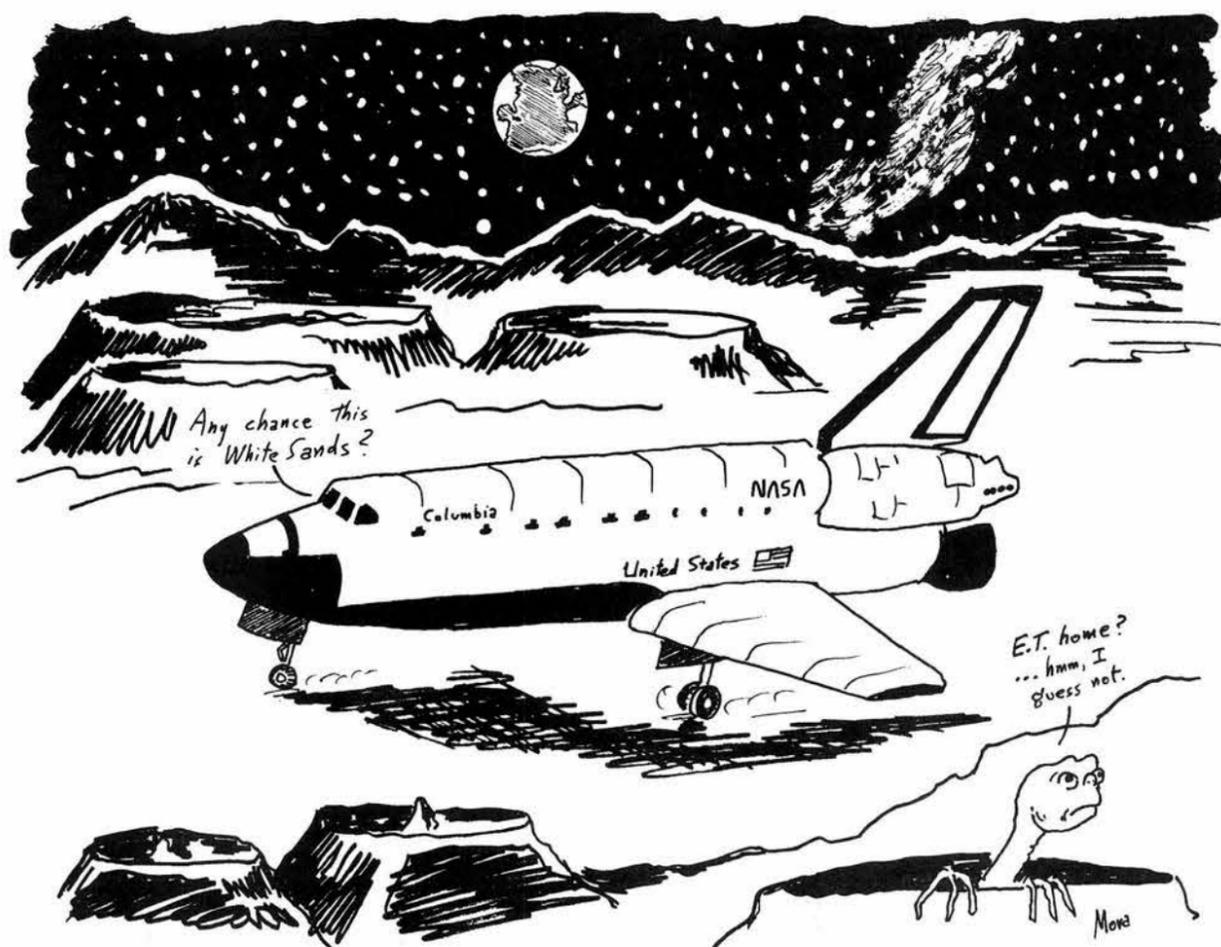
Two one-day charter bus trips to ride the Cumbres & Toltec, Sept. 26 and Oct. 2, \$42 for adults, \$30 for children 11 and under.

Canyon de Chelly, Oct. 30-31, \$82 per person (dbl. occupancy).

Mazatlán, Nov. 1-8 or Nov. 8-15, spend eight days at the luxurious Playa Mazatlán resort hotel, \$359.

Mexican Pacific Coast Cruise, Oct. 23-30, aboard the MTS Daphne, from \$789 per person.

For trip literature, see Frank in the lobby tonight between 5 and 7.



"I don't care if this looks just like Edwards AFB, I'm telling you you've landed in the wrong #\*\*#&!# place!"



Dr. Brackish Menzies, who works at the Mount Wilson Observatory, or else is under observation at the Mount Wilson Mental Hospital (the letter is not clear), claims that travelers moving at close to the speed of light would require many millions of years to get here, even from the nearest solar system, and, judging from the shows on Broadway, the trip would hardly be worth it. (It is impossible to travel faster than light, and certainly not desirable, as one's hat keeps blowing off.)

Woody Allen in *Side Effects*