

Savings Plans Delays

The Bell System divestiture required the split of the Savings Plan for Salaried Employees, the Savings and Security Plan (for non-salaried employees), and the Voluntary Contribution Plan into separate plans for AT&T, each of the new regional companies, and Bell Communications Research, Inc. The difficulties experienced by Bankers Trust Company (the plans' trustee) in effecting the split of the plan assets has caused delays in establishing monthly unit values, and consequently, in making payments to employees who retire or terminate, and to active employees who take withdrawals from their accounts.

"The task of allocating assets and of moving accounts among 27 new plans was greater than Bankers Trust had anticipated," says Weston Clarke, Jr., AT&T Senior Vice President — Personnel. "As a result, the trustee is behind schedule for the first time since the plan began. We regret the inconvenience this situation has created for some of our people. Bankers Trust has assured us that its record-keeping operations will soon return to normal."

The unit values for April and each subsequent month will be published at closer to normal intervals following the applicable valuation date.

Employees who end their participation in any of the plans because of retirement or termination can expect to receive a distribution of their accounts approximately 14 weeks following the date of retirement or termination. Other employees who withdraw funds from their savings plan accounts must wait a similar period of time following the effective date of the withdrawal. Previously, individuals generally received their distribution within six weeks.

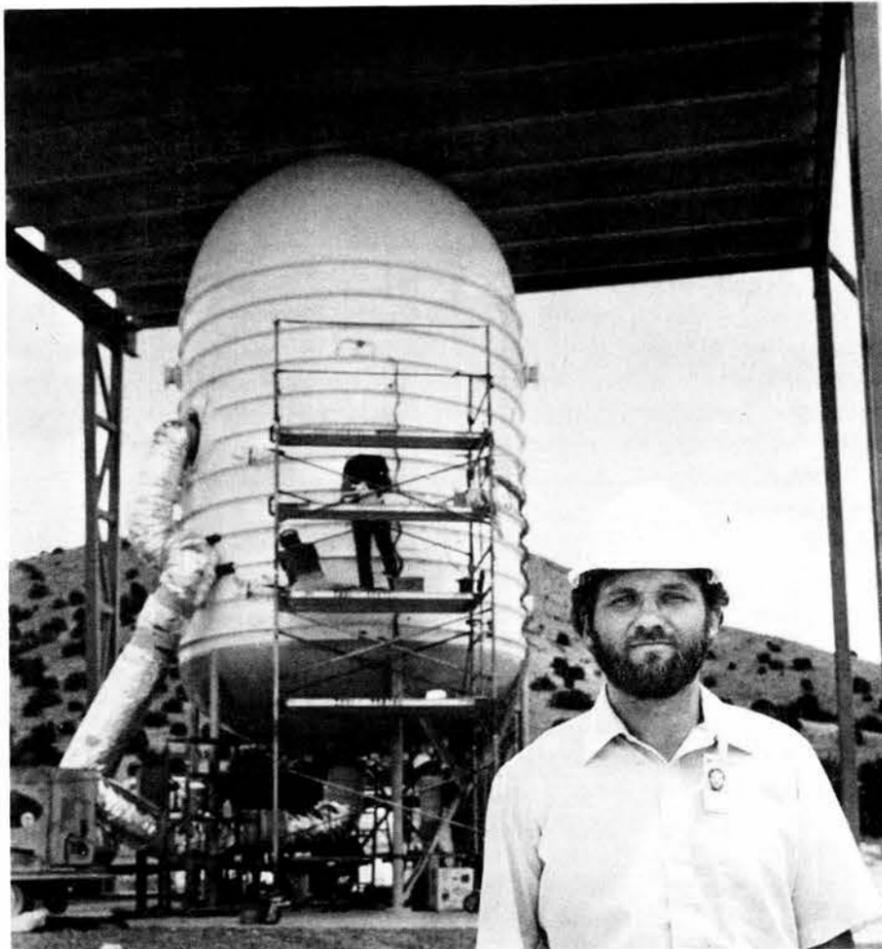
Bankers Trust has given us the following payout schedule:

Unit Valuation Date	Anticipated Mailing Date for Payout
May 31	Aug. 23 (Non-Salaried and VCP)
	Sept. 11 (Salaried)*
June 30	Sept. 13 (Non-Salaried & VCP)
	Oct. 1 (Salaried)
July 31	Nov. 1 (All Plans)
Aug. 31	Nov. 23
Sept. 30	Dec. 13
Oct. 31	Jan. 14, 1985
Nov. 30	Feb. 4, 1985
Dec. 31	Feb. 25, 1985

*The Salaried Savings Plan Schedule has a greater delay because of its size and the number of investment options.

For example, employees who decide in August to withdraw money from their savings plan accounts and submit the appropriate form to payroll that month can expect to receive their distribution in late November.

It is not anticipated that these delays will have an effect on employees electing the next Periodic Partial Distribution. This election will be offered in November and the distribution made by Feb. 25, 1985, according to the normal schedule.



A MODEL of a steel nuclear reactor containment building (1/8th scale) is being instrumented for high pressure tests scheduled in September to validate analytical codes used by NRC to predict behavior of the structures in an extreme accident scenario. Tom Blejwas (6442) is the project leader.

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Nuclear Reactor Containment Buildings

Models Qualify Analytical Codes

At a remote site within the Coyote Canyon Test Complex, a sparkling new 30-foot-tall steel vessel perches on a rugged foundation of steel posts imbedded in a base of concrete. Fabricated by Chicago Bridge and Iron Co., the vessel is a one-eighth scale model of a containment building typical of those surrounding a light water reactor (LWR) nuclear power plant. The model is doomed.

Tom Blejwas and a team of Sandians of Containment Integrity Division 6442 intend to fill the tank with pressurized nitrogen gas to the point of gross leakage to validate the analytical computer codes currently used to predict behavior of the nuclear industry's containment buildings during severe accidents.

The tests will start in September. Currently being installed are more than 1000 data channels for instrumentation and sensors that will measure the deformation of the structure, ports, and seals as the model gradually bends and bulges from the forces of the pressurized nitrogen gradually filling the vessel. The model contains 3300 cubic feet of space.

During the test, tankers containing liquid nitrogen will gassify it and feed it through 1600 feet of high pressure hose into a valve array (a computer-operated pneumatic controller). Two hundred feet of piping connect the controller and the model.

(Using nitrogen appeared the most economical way to conduct the tests and allow

accurate leakage measurements. Several alternatives were investigated including renting large air compressors.)

"Our computer analysis predicts that the first failure will occur at the equipment hatch," Tom says. "We should get leakage as the sleeve distorts. The first leak probably will not relieve the pressure so we will continue to pressurize the vessel measuring the leakage very carefully until the leakage exceeds the capability of our supply system. These data will be invaluable to the NRC (Nuclear Regulatory Commission) people who have the responsibility for licensing reactor installations."

Tom emphasizes that the upcoming test represents pressures that are highly unlikely in the real world. "The odds for a severe nuclear accident are incredibly small," he says. "Our test represents a remote possibility, an answer to the insistent question from some segments of our society for information about a 'what if' scenario."

Tom's group recently completed a series of tests on three smaller steel models (1/30th scale) that led to these conclusions:

1. Some already existing computer models appear capable of fairly accurate predictions on the structural behavior of steel containment buildings;
2. Steel rings, called stiffeners, placed around a containment building increase the building's strength; and

(Continued on Page Four)

Antojitos

If Sandians Were in the Olympics ... "Yes, Jim, I'm really thrilled with my gold medal. It was really tough out there today. But I was able to see a stability problem coming up and that's when I made my breakthrough. What I knew I had to do was to choose the right material to make a thin layer of corrosion-resistant wide bandgap semiconductor and then, when we came off the backstretch, use it to make a protective window for the smaller bandgap unstable semiconductors; then I'd be home free. I did have some real competition in choosing the right material, of course, but once I realized how chemically robust boron phosphide is, I was able to cruise on in to a first-place finish. A mistake here could have been very costly. I want to take this opportunity to thank my running mate - without his fantastic skills in the crystal growing lab, I never could have won this medal today."

"All I can say, Kathleen, all I can say, and I'm still out of breath, is that the Sandia team came through. Yes, the team came through in the clutch. 1000 gave us a 98, 2000 a 93, 3000 gave 91, 5000 came through with a 97, 6000 had a 92, 7000 went 94, and 8000 an 88. But 4000 was our shining example - a 100! I guess we've proved it here today - we're the tops in the country when it comes to buying bonds. That's really what this gold medal proves."

"What can I say, Howard? My verbs were really working good today - vivid, strong, real grabbers. And I found just the right combination of long, flowing sentences and those short, punchy ones to give my writing the variety and power it takes to beat out some really tough competition. I almost stumbled into a misplaced modifier in the last graf, but I saw it coming and was able to shove it back where it belonged without losing precious seconds. For this gold medal, I have to thank my coaches, who helped me make that really difficult transition from pencil to word processor; my family, who has supported me through all these years of scribbling; and my reading - E.B. White is really my mentor.

•BH

* * *

Obsequious check-out clerk at Skaggs on far north Wyoming to haughty dowager: Have a nice day!

HD: No, thanks. I have other plans.

* * *

Todos nuestra cruz llevamos, unos de plata y otros de palo. (We all bear our crosses, some of silver, others of wood, or We all have our problems, rich or poor.)



NEW MEMBER of the Air Force Scientific Advisory Board is Bob Clem, director of Systems Sciences 1600. Chosen for his long experience in the nuclear weapons program, Bob is part of a group responsible for reviewing and evaluating long-range R&D plans within an Air Force-wide context, recommending promising scientific developments and techniques, and making a variety of studies to improve the Air Force's R&D program. Past Sandia members of the advisory board include Tom Cook (20), John Galt (2000), and Bob Peurifoy (7000).

Colloquium Report

Chasing the Blues the Scientific Way

*And now there came both mist and snow
And it grew wondrous cold:
And ice, mast-high, came floating by,
As green as emerald.*

It's not often that poetry is recited at a Sandia colloquium, but the above lines from Samuel Taylor Coleridge's "The Rime of the Ancient Mariner" were quite germane to the topic. Craig Bohren's talk was entitled "Reflections on the Blues: An Inquiry into the Blue of Sea, Sky, and Ice." He's a

meteorologist from Pennsylvania State University.

Bohren began with the popular children's question "Why is the sky blue?" and extended it to the sea, snow, and ice. He anticipated that some might find a certain audacity in the topic because "Surely everything on something so elementary has been said by this time."

Well, it seems there's more to nature's colors than meets the eye. Take the sky, for instance. Molecules transmit red light while scattering blue light. All colors are present in the sky, but blue is dominant - a mixture of white light and a single wavelength. Particles (dust, etc.) are neither necessary nor desirable for blueness, but they do make the sky brighter.

Although we don't often notice it, the sky is not uniform in color and brightness. The best blues are found near the zenith, where it is darkest. Toward the horizon the sky becomes brighter, but at the expense of lower purity of color. Although pollution is often blamed as the culprit for the horizon's whiteness, both observations and calculations show this to be false. "In fact," says Bohren, "pollution seems to be the universal solvent for ignorance - just like friction is in physics."

Iceland has no industry and few vehicles. But even in this very clean environment the sky gets whiter toward the horizon. This is because the red wavelength

is not scattered out; it collects light from more molecules.

And why is the sea blue? The cause is selective scattering by water molecules. Colors change from day to day, even minute to minute, according to the observer's position - the shore, a ship, or an aircraft. Unlike sky light, there is no single cause for the sea's color. A general belief that the sea's blue is caused by reflected sky light is belied by observing that the sea remains blue even if the sky is cloudy.

Snow presents more than just a uniformly white face. Beneath its surface a vivid blueness can be seen - the purity of which exceeds that of the bluest sky. This subnivean blue light results from preferential absorption of red light by ice; multiple scattering (which is not spectrally selective) by ice grains merely increases the path lengths that photons travel before reaching a given depth.

Although snow is usually white on reflection, ice with bubbles in it may not be. Icebergs are composed of such bubbly ice and are mostly white. But sometimes they display delicate bluish-green hues, as described by Coleridge. These hues do not necessarily signal the presence of coloring matter other than ice itself.

Bohren's presentation was enhanced by slides showing stunning views of glaciers and lakes in Iceland, British Columbia, and Scotland.

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Hartmann Studies Combustion & West

A researcher from Stuttgart, West Germany, is studying turbulent reacting flows during his year of learning — and teaching — at the Combustion Research Facility.

Victor Hartmann read about the combustion center in Germany, then made arrangements with Dan Hartley (8300) to do research at Livermore. Victor's field of study is chemical engineering, and his PhD from the University of Stuttgart is in combustion research.

At Stuttgart he used the university's 27 MW (electric) oil-fired power plant to do experiments under almost industrial conditions. Using a 1MW (thermal) test rig he had set up for flame studies, he introduced the technique known as laser Doppler velocimetry.

Victor and his family arrived in Livermore last November. At Sandia, he was impressed with the state-of-the-art laboratory facilities, noting that universities in his country have limited funds to provide modern equipment for advanced research projects: "Only at Sandia can you find such a concentration of equipment, all based on lasers of various kinds.

"I have also enjoyed having so many specialists from each field of combustion research around me," he notes, "And I've benefited from the numerous meetings here that draw researchers working in similar fields from around the world." He added that the people with whom he works have been most helpful in answering all his questions and assisting him with his experiments.

He's working with Bob Dibble and Bob Schefer (both 8351) on turbulent reacting flow studies. They use two-color laser Doppler velocimetry to measure velocities and velocity correlations in the flame. Both Bobs agree that Victor has contributed significantly in making the technique operational.

The three are also using the Raman-scattering technique to provide information about density and concentration of species. By using both techniques, they are able to get a highly detailed picture of what is occurring inside turbulent flames.

Victor's second goal in the US is to polish his use of English so he can use it at international meetings. He's succeeding. In October he will deliver a paper at the Western States Section of The Combustion Institute and is co-authoring a paper for the ASME meeting in New Orleans in December.

This second language is becoming more comfortable for him as the months pass. He's pleased too that even his family is picking up English rapidly. He and his wife Perdita, a computer programmer in Germany, enrolled their 9-year-old son in elementary school when they first arrived in Livermore even though he spoke no English. Now Victor says the youth is getting along in writing and speaking his second language very well in classes. They also have a daughter who's 2½, so Perdita stays at home.

When the family was deciding whether or not to come with Victor to this country, he enticed his son by promising trips to the Grand Canyon, Death Valley, Disneyland,



TOGETHER IN THEIR WORKING LAB are (from left) Bob Dibble (8351), Victor Hartmann from Stuttgart, West Germany, and Bob Schefer (also 8351).



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and other American attractions known about in Germany. Victor has kept his promise; the family has driven its used Volkswagen bus on weekend trips to San Francisco beaches, to Muir Woods, and even to the Gold Country at Columbia State Park.

And in June, Victor's sister arrived from Germany to travel around the West and Southwest with them. Their vacation began with visits to Disneyland and Universal Studios. They then went to Las Vegas, Death Valley (where they tried jogging barefoot in the sand), Grand Canyon, Bryce Canyon (which impressed them most), Mesa Verde, Monument Valley, Salt Lake City, and back home through Reno.

Victor says that one of the adjustments they had to make in the US was to drive much more slowly on the freeways. On the German autobahn, drivers go 100 mph and more as a matter of course.

He is impressed with the open space in the Valley, where houses seem to spread out instead of up as they do in German cities. The brown, treeless hillsides are another unusual phenomenon — Victor is accustomed to the heavily wooded Black Forest around Stuttgart.

Now that the Hartmanns have come in close contact with more and more Americans, Victor said they feel very much at home and are even hoping to extend their stay an additional six months if their government sponsor will permit it.

Sympathy

To Dave Havlik (8431) on the death of his mother in Phoenix, July 5.

Congratulations

Corey Knapp (8171) and Carol Somersett (8236), married in San Ramon, Aug. 4.

THE BIG BLACKOUT

It has been supposed that most of the organic matter in the universe (that is, carbon compounds more complex than carbon monoxide) must be on the surface and in the atmosphere of planetary bodies. The enormous mass of the molecular clouds implies, however, that they are the principal reservoirs of organic matter. Moreover, if the solar system were to pass through one of these clouds, the absorption of light would be so great that all but the few nearest stars would disappear from view. If the sun traveled with a typical stellar velocity of 20,000 miles per hour, more than two million years would elapse before the earth emerged from the gloom. Given the abundance of the clouds in our galaxy, such an event must come roughly once every billion years, or about five times in the history of the earth. If human beings had evolved during such an episode, both their vision of the universe and their philosophical outlook would have been fundamentally different.

— Nick Scoville and Judith S. Young
in *Scientific American*

ADDRESS TO THE DEAD LETTER OFFICE

How rightly did her Majesty, in her Christmas broadcast, refer to computers that cannot generate compassion! The East Midlands Gas Board recently addressed a letter to my father, who died nine months ago, thus: "Dear Mr. Hodgkinson decd."

I am interested to know what kind of reply is expected.

Letter to *The Times* (London) quoted in *World Press Review*

feed back

Q. Eastbound traffic on H Street has two lanes on the west side and only one on the east side of Wyoming. When I am going east on H Street and intending to cross Wyoming, I must try to guess whether the car following me is also going to cross Wyoming and, if so, try to get into the same lane because cars in either or both lanes can continue across Wyoming and be confronted with only one lane. With heavier traffic, by the time I get to the intersection, there is no way of knowing whether the car in the lane next to me is going to turn or go straight. This is true whether I am in the left or right lane. It seems to me that the righthand lane should be marked as a RIGHT TURN ONLY lane to avoid confusion and accidents.

A. We agree with your observation and suggestion. We have submitted a request to the Air Force traffic engineer to have H Street restriped on the west side of Wyoming, creating a right turn only lane, as you suggested. Suggestions of this nature are welcome and encouraged. Thank you for your interest.

R.W. Hunnicutt-3600

Q. Before I came to Sandia, I worked for several other companies. About the only thing they had in common with Sandia is the company paper. Their papers could not approach the excellence of the LAB NEWS, but they each contained three items that the LN does not:

1. A safety note, cartoon, epigram, etc.
2. A list of new-hires
3. A list of terminated employees in addition to the retirees.

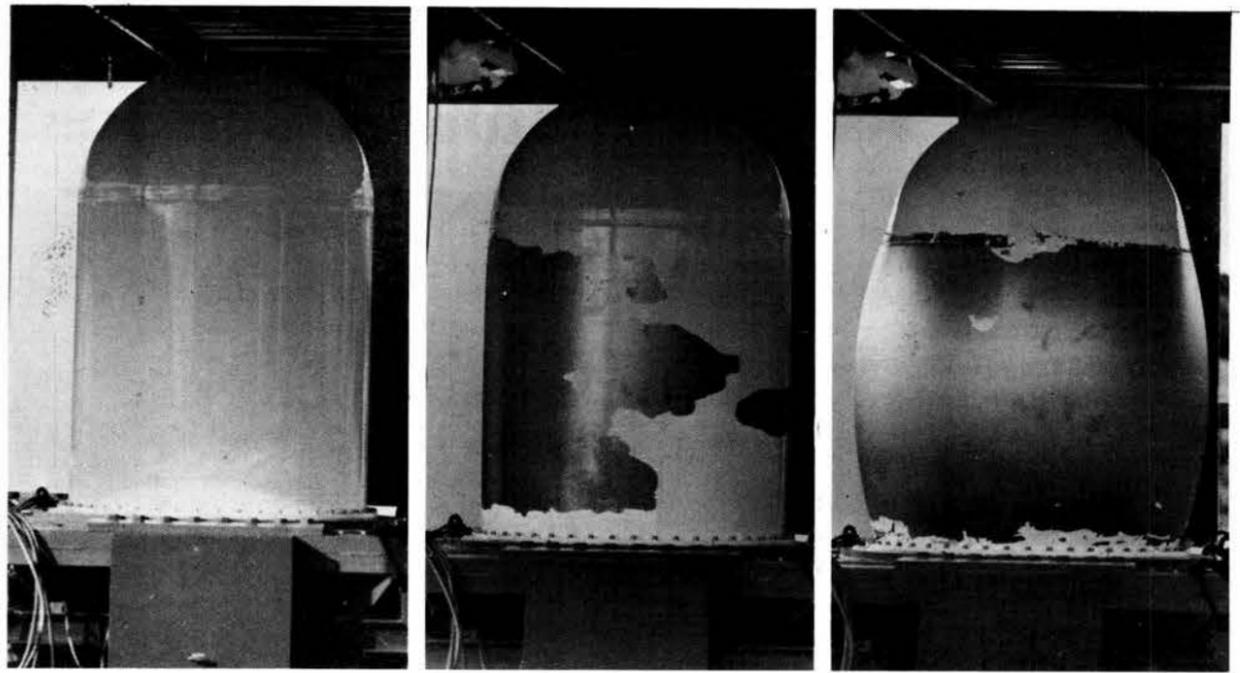
It would be nice to know about the personnel comings and goings, and I think everyone needs a safety reminder now and then.

A. First, thanks for the compliment. And we appreciate your suggestions for making the LAB NEWS a better paper. In the order in which you proposed them:

1. While we have been and remain committed to furthering the cause of safety on the job and at home, we believe that running a safety (or security) message in every issue soon becomes so routine that the impact of each one is diluted. With all Sandians now receiving the *Family Safety* magazine at home, we believe it's more effective for us to cover only those safety-related stories that have a newsworthy quality rather than simply repeat the "look both ways before crossing streets"-type slogans. Some recent examples: the cigarette lighter that blew up last summer, the roto-tiller that locked in reverse and would have injured a Sandian except that he was wearing safety shoes, the proper battery-jumping procedures and the rationale for them, and the continuing series on recipients of "Wise Owl" awards (that go to employees whose safety glasses prevent eye injuries.)

2. Running a list of new-hires is certainly something that we, with the help of the Personnel organization, could do. We'll plan to reinstitute such a listing in the future.

3. I'm afraid that running lists of terminated employees would lead to more



PHOTOS of earlier tests of a 1/30th-scale model of a nuclear power plant steel containment building show deformation as internal pressure was increased. The first photo shows the model just before testing. The second was taken several hours later after internal pressure was increased to 100 psi (about three times more than design specifications). By that time, much of the white paint had peeled off the model. Third photo shows the test model at 130 psi — almost four times the design pressure. The upcoming test on the larger (1/8 scale) model will include many design features — ports, hatches, penetrations, and seals — not included in this basic steel shell model.

Continued from Page One

Scale Model Tests

3. Openings in the steel shell containment building — doors and cylindrical hatches used for equipment installation, for instance — do not necessarily weaken the containment structure significantly. (It's true, however, that the openings themselves may leak.)

"We will be looking very carefully at leakage as we gather detailed leak rate data during the upcoming test on the larger model," Tom says. Fabrication techniques used on the model are the same as those used for real containment buildings. In fact, the supplier builds some reactor containment buildings. The model meets all standards of ASME structural codes and the requirements of the nuclear industry.

"Each LWR containment building is designed with the aid of known elastic behavior models to ensure that it functions properly under design conditions (specifications agreed upon by designers, builders, and the NRC)," Tom continues. "But its ultimate containment capacity cannot be predicted from those computer

models since they do not accurately treat the plastic behavior of steels or the cracking of concrete. That is why the nuclear industry and its regulators must have computer models that include the nonlinear behavior of containment structures. The best way to validate these computer models, it appears, is to compare them with tests that actually stress scale model containments to gross leakage or structural failure."

Work is also underway for the testing of a 1/6th scale model containment building of reinforced concrete to be conducted in early FY86. This type of structure features a thick concrete wall with an internal steel liner.

Dave Clauss (1523) is contributing to the analytical modeling effort. Others in Division 6442 under Walt von Riesemann working on the project include Larry Koenig, data acquisition system; Dan Horschel, analysis and modeling; Dwight Lambert, instrumentation; and Paul Matson, site preparations.

problems than LAB NEWS is willing to face. Some people, after all, terminate voluntarily or because of illness they'd rather not publicize. And printing only the names of those who are willing to be listed means extra work for Personnel — and headaches for the LAB NEWS staff who would have to answer the phone calls asking why John/Jane Doe's name wasn't included in the latest listing.

If you would like to discuss any of these issues further, I suggest you call the LAB NEWS editor directly.

H.M. Willis-3100

Q. Since the removal of the motorcycle parking areas from the parking lot south of Bldg. 823, I have, on several occasions, witnessed near collisions between vehicles turning into the same parking lot lane from different adjacent lanes. Additionally,

motorcycles are being parked more or less randomly at the ends of rows or between facing rows.

This situation is not conducive to the well-being of cars, trucks, motorcycles or pedestrians walking between the rows of parked cars.

Are there plans to replace the motorcycle parking areas?

A. The motorcycle parking was removed in response to security requirements restricting parking within 20 feet of the Tech Area fence. Plans are being drawn up to replace the motorcycle parking south of Buildings 821-823. The new motorcycle parking will be constructed at the north end of the parking lot between Building 822 and Gate 10 in the near future.

R.W. Hunnicutt — 3600

JAN VANDERMOLEN (132) and CARLOS GRIEGO (141)



Supervisory Appointments

JAN VANDERMOLEN to supervisor of Administrative Policies and Procedures Division 132, effective July 16.

Jan joined the Labs in Livermore in June 1970 as a secretary. She later worked in micrographics and as a systems analyst in management information. Jan was promoted to supervisor of Systems Analysis Section 132-1 in Albuquerque in November 1981.

She received her BS in business administration from the University of San Francisco and an MBA from St. Mary's College (Moraga, Calif.). Jan enjoys teaching a Sunday School class for high school students, cross country skiing, swimming, reading, and traveling. She and her husband Wil (7554) have three grown sons and seven grandchildren. They live in SE Albuquerque.

* * *

CARLOS GRIEGO to supervisor of Programmatic Support Division 141, effective July 16.

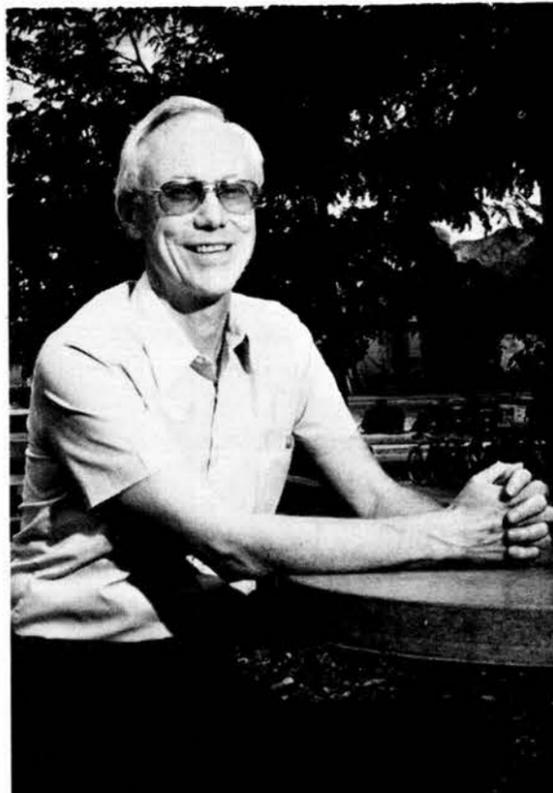
Carlos joined Sandia in January 1980 as a systems analyst in the financial policies and procedures group. In 1981, he was named administrative assistant to the Process Fabrication and Quality Assurance Directorate and, for the last year and a half, has served in that same capacity for Development Testing Directorate 7500.

Carlos, a native of Albuquerque and a graduate of Albuquerque High School, received his BA in industrial administration from General Motors Institute (Flint, Mich.) and his MBA from Stanford University. He is a member of the Sunport Optimist Club and enjoys gardening and volleyball. Carlos and his wife Michelle (155) live in Taylor Ranch on the northwest mesa.

* * *

JOHN LINEBARGER to supervisor of Safety Systems Assessment Division 6445, effective July 1.

Since joining the Labs last October, John has been with Reactor Safety Technology Division 6411 doing probability risk assessments and nuclear systems response calculations. Before coming to Sandia, John was with the Idaho National Engineering Laboratory in Idaho Falls.



JOHN LINEBARGER (6445)

He received his BS in general engineering from the U.S. Naval Academy, his MS in aeronautics and astronautics from M.I.T., and his PhD in ME from Oklahoma State University. He is a member of the American Society of Mechanical Engineers and the American Nuclear Society. He enjoys reading and jogging; he's trying to learn wind surfing. John and his wife Marjorie have five children. They live in the NE heights.

Sympathy

To Gertrude Stephens (7260) on the death of her husband, Aug. 5.

To Rose Mary Gurule (7232) on the death of her mother in Santa Fe, July 27.

To Evelyn Ratcliff (6000) on the death of her mother-in-law.

To Hilario Montano (3618) on the death of his brother in Albuquerque, July 29.

To Laudente Montoya (3618) on the death of his son-in-law in Bryan College Station, Texas, July 28.

Here is a current volunteer opportunity for employees, retirees, and family members. If you would like more information, call Karen Shane (4-3268).

VOLUNTEER SERVICE LEAGUE, UNM CHILDREN'S PSYCHIATRIC HOSPITAL, is seeking a board member.

Fun & Games

Co-recreational mushball is a new SERP program. A variation of softball, mushball uses a big 16-inch ball and modified rules. Six women and six men comprise a team — batting order is staggered, and defensive positions are controlled to a degree. A short season is scheduled for October with games at the Manzano Base ballfield on Tuesdays and Wednesdays at 5:15 p.m. Four teams are needed. Spouses are eligible. For a roster, rules, and answers to questions, call SERP on 4-8486. Team entry fee is \$30.

* * *

SERP has arranged a Sandia Night for the Lobo vs New Mexico State football game on Saturday, Sept. 8, at 7 p.m. Regular \$9 tickets are available at the Coronado Club for \$6. Seats are reserved in Section CC, east side. Deadline to pick up tickets is Sept. 5 at 5 p.m.

Congratulations

Louis (7252) and Margie Hernandez, a son, Gabriel Justin, Aug. 3.

Jim (321) and Pat Klarkowski, a son, Corey Chester, July 16.

Heavy Hands, Lighter Body

Report on a success story! A year ago Sam McAlees (1633) decided to lose some weight — 25 pounds, to be exact. After doing some reading, he decided to use "heavy hands" (weights held in the hands) along with calorie restriction to lose the weight.

He lost 25 pounds in 26 weeks, and an additional five pounds after he reached his original goal. He has maintained his weight within a five-pound band since Nov. 1.

If you'd like to lose weight, his program or parts of it might appeal to you. To learn about the details of Sam's very reasonable and very successful weight loss effort, come to conference room A in Bldg. 822 on Aug. 22 from 12 to 12:30 p.m.

You Can't Fight City Hall — Or Can You?

People all over Albuquerque are finding that you can indeed fight City Hall. Sometimes you can even win. And more and more people are finding out that working with their respective neighborhood associations provides exactly what they need to deal with what often seems to be an unwieldy and recalcitrant bureaucracy — and provides a good way to get to know their neighbors in the process.

A neighborhood association is “a group of people who live within defined boundaries who have organized themselves in order to improve conditions in their neighborhood,” according to Mary Lou Haywood, Director of the Office of Neighborhood Coordination and Multi-Service Centers.

There are 116 neighborhood associations in the Albuquerque area. “Almost all have bylaws stating that they try to improve the quality of life in their neighborhoods,” Mary Lou says. “Some groups are reactive in nature, but many others are organized to make an active effort to better their neighborhoods with projects like crime prevention, beautification, and in-neighborhood planning. By keeping people busy and organized, they're ready for an emergency.”

One project for some neighborhood associations is a communication system with the elderly. For example, if an elderly person doesn't raise a blind by 10 a.m., someone in the neighborhood will call or come by to see if that person is all right.

The Southeast Heights Garden Project is what Mary Lou calls a “shining example of positive neighborhood action.” Several

years ago, a number of Southeast Asian refugees were settled in a Southeast Heights neighborhood. Most were without jobs, and many were having difficulty in understanding the strange new culture they had been plunked into. “They were climbing over walls to get fruit off trees,” she says, “and rummaging through garbage cans.

“Instead of getting defensive and angry, the Southeast Heights Neighborhood Association got a community block grant to lease land for garden plots so the refugees could grow their own vegetables.”

The La Mesa Neighborhood Association got the city to buy the land on which a drive-in movie had been located, then helped in the planning to make it a neighborhood park.

Members of the Alvarado Gardens Neighborhood Association are putting together their own neighborhood development plan, which they will bring to the City Council for ratification — exactly what the City Planning Division does in some cases.

“The El Rancho Atrisco Neighborhood Association was an early participant in the city's Crime Prevention Council program,” Mary Lou says. “It's helped them to prevent some potential crime problems and has brought the neighborhood closer together. Each block has a captain who serves as a contact person — telling new neighbors about crime prevention efforts in the neighborhood and serving as a contact person. It really gets lots of people involved — and seems to cut crime in the process.”

Mary Lou says that there have been

more neighborhood associations organized in the past five years than ever before. “I think it's tied to the energy crunch,” she says. “People are spending more time at home, and they want to get to know their neighbors. Neighborhood associations are a really good way to do that.”

They're also a good way to fight City Hall. “Anybody can complain to the city,” she says, “but when you have an organized group and you get together and define the problem, you're more likely to get results.”

Mary Lou tries to assist neighborhood associations by cutting through the city's bureaucratic red tape to get solutions and answers for them. She also tries to get city departments to work with neighborhood associations when projects are going to happen in a particular area.

“The old attitude was ‘keep 'em ignorant as long as possible,’ ” she says, “but when departments cooperate with neighborhoods, the work gets done more efficiently, and the neighbors feel better, too.”

Mary Lou says that almost any department in the city will help any neighborhood association with an identifiable concern. For example, the Energy Management department will help with energy conservation projects.

She plans a series of workshops in September for neighborhood associations and individuals. The sessions will be about how to use the city system: the city budget planning process, zoning regulations, and city planning in general. Anyone interested in the workshops or neighborhood associations in general can reach Mary Lou on 766-5012.

Favorite Old Photo



The year was 1911, the place was Anaconda, Montana, and my mother — Theresa Tabor — then 16, had a job in the local variety store. That's her fourth from left. At the time she was engaged to the man at far right, but they never married. Her parents, as well as the parents of the man she did marry — my father — had come a long way from Germany to work in the copper mines. Dad worked in the mines, too, and became a foreman. The Anaconda Copper Mining Company sent him and us to Ecuador and South Africa in the '20s. When the depression came, we were back in Montana. The mines closed, Dad worked with the WPA, but most of our money came from Mother — she was clairvoyant and gave psychic readings, card predictions, and read tea leaves. Sometimes she'd get eight dollars a day — a lot of money in the depression. Both she and Dad are dead now. (Virginia O'Neil - 3152)

Sandia Neighbors Head Neighborhoods

Many civic-minded Sandians, as one might expect, have their civic minds on their neighborhood associations — “a disproportionate — but welcome — number,” according to Mary Lou Haywood, Director of the Office of Neighborhood Coordination and Multi-Service Centers.

Donovan Griggs (6451) is chairman of Westgate Citizens United, formed last January. “Our main effort right now is recruiting members and informing our neighbors about the issues we’re concerned with,” he says.

“People in my neighborhood had a misconception about how to get things done,” he continues. “They too often expected the city to do things. City government can’t take care of all needs, such as increasing communication among different facets of the community.

“And funding for community development comes from the City Council. A group gets listened to there.”

Donovan’s association hopes to get money to build a neighborhood community center with space for both youth and senior citizen activities. They would also like to get more police involvement in their neighborhood, “a Barretta type who grew up in the neighborhood and knows the people, especially the kids.”

Vern Willan (5163), president of the Heritage Hills Neighborhood Association, says his group was formed over the issue of the Heritage Hills Park. “Vacant land in our area was supposed to be dedicated to a park,” he says. “Then it was rededicated as a traffic corridor to serve a proposed shopping center.”

Vern’s association fought City Hall and won. The land will not be a traffic corridor,



NEIGHBORHOOD HEADS give Albuquerque’s mayor a headache on a recent visit to his office. Marie Vaughn (3332), Vern Willan (5163), Mayor Harry Kinney (formerly 5623), Mary Lou Haywood (Director of the Offices of Neighborhood Coordination and Multi-Service Centers), and Donovan Griggs (6451) dramatize the difficulty City Hall sometimes has in dealing with neighborhood concerns.

and there will be no shopping center. The group was also successful in getting a \$500,000 bond issue passed last fall for drainage of the land in preparation for making it a park.

“I’d like for us to stay active in the park after the drainage,” Very says. “I hope we can become a part of the Adopt-A-Park program — after the park becomes adoptable.”

Marie Vaughn (3332), president of the newly-formed Yale Village Association, is very enthusiastic about the value of these organizations. “As an association, you can get something done. As one person, you can’t,” she says. She also says she’s learned a great deal about city services because her

city councillor, Steve Gallegos, holds meetings for the associations in his district to explain city services.

The main interest of Marie’s group is beautification of the area. “There are 24 houses in our area,” she says. “The rest of the buildings are businesses and hotels. We want the businesses to know we’re there — and that we want to keep the neighborhood looking good.

“We’re also concerned about re-zoning for manufacturing; and if the airport is going to expand, we want to know how that expansion is going to affect us. In other words, we want to have a part in helping make the city’s plans and decisions that affect our neighborhood.”

Rent a Plant, Heal a Tree, Mediate a Neighbor, & More

Last year, for the second consecutive year, Albuquerque was named the second most livable city in the United States. The US Conference of Mayors, in its award, cited the city’s broad support of the arts — for such projects as the Urban Enhancement Trust Fund, the Big I beautification project, the city’s open space plan, the coming Mayan exhibit at the Museum of Albuquerque, 1% for the Arts, and Feria Artesana, among others.

But arts alone do not a livable city make, to paraphrase someone. Some of the things that do make our town a livable one — besides the natural gifts of location and climate — are services the city provides its residents.

The Parks and Recreation Department provides all the recreational opportunities you’d expect: tennis, golf, swimming, and softball, for example. But Parks and Recreation also provides some unusual recreation opportunities:

- 3 bocce courts at Los Altos Park
- 12 horseshoe courts, also at Los Altos Park

- a shooting range at Volcano Ranch Park

- therapeutic recreation programs for persons with developmental and acquired disabilities

- 3 recreational bike trails — Paseo del Bosque, Paseo del Nordeste, and Paseo del las Montanas

- 17,000 acres of open space available for hiking and jogging

Parks and Recreation also sponsors an “Adopt-a-Park” program in which individuals or groups can assume limited maintenance and gardening duties for a park, a median, a playground, even a flower bed.

If you need extra house plants for a wedding or party, the department’s Plant Management Division has a plant rental service. You can visit the greenhouse near Spain and Wyoming NE to select the plants you need. Rental is for 24 hours at a time, and prices range from \$.15 to \$2.70.

If you have a sick tree of your own, Parks and Recreation will send an urban forester out to have a look and give a diagnosis.

For more information about any of this department’s services, call 766-7856.

Having trouble with your neighbors? Don’t call the police yet. Call the Albuquerque Mediation Center (843-9410). This city-supported organization is made up of volunteers, trained in mediation, who try to resolve neighborhood disputes.

And if you’d like to clean up your neighborhood — or your workplace — call Madeline Dunn (766-7211) of the Clean Community System. She has workshops and presentations geared to the type of group she’s dealing with. She emphasizes that hers is not a clean-up program — it’s a public awareness program.

“People litter because they think someone else will clean it up,” Madeline says, “because they see litter already present, or because they don’t feel any personal responsibility for property.” What Madeline tries to do is to “give people the tools for a clean environment.”

Take Note

Proceeds from ticket sales to the Albuquerque Dukes baseball game at 1 p.m. on Sunday, Aug. 26, will go to the Easter Seal Society. The Dukes game, sponsored by the NM Federal Savings and Loan with printing provided by Dataco, Inc., will generate funds to continue direct services to children and adults with disabilities. Groups of 25 or more will be recognized as supporting the Society by being identified on the score board during the game. For more information, call Easter Seals at 888-3811.

* * *

Adults interested in becoming volunteer teachers for the Rio Grande Zoo and the NM Zoological Society are invited to an introductory coffee on Aug. 22 at 10 a.m. in the Zoo Barn. Information about the Zoo Docent Program will be presented. For more information call 843-7413 or 298-0743.

* * *

The NM Symphony Orchestra is holding chorus and orchestra auditions for the coming season.

Chorus auditions start today and continue through Sept. 8. There are openings in all voice parts. In addition to a Christmas Concert and the Choral Fest, the chorus will be heard with the NMSO in Haydn's "Lord Nelson" Mass, Bach's "St. John Passion," and Berlioz' "Te Deum."

Orchestra auditions in violin, viola, and cello will be held Aug. 24, and for French horn and utility flute on Aug. 25. Applicants may be asked to play a short prepared piece, followed by selections from an audition list, and finally, may be asked to sight read.

Audition appointments can be made through the Symphony office at 843-7657.

* * *

United Way of Greater Albuquerque celebrates its 50th anniversary on Aug. 26 with a party at the Rio Grande Zoo with displays, demonstrations, door prizes, birthday cake (while it lasts), and entertainment — the Municipal Band, western dancing, break dancing, the New Mexichords, Visiting Nurse Singers. Admission is free, the public is invited, and the party is from 4 to 8 p.m.

* * *

A cooking contest sponsored by Jazzercise has resulted in a cookbook, "550 Super Recipes," that sells for \$7. All proceeds go to the Muscular Dystrophy Association. Purchase the book from Gaye or Terry (7137) Leighley; call them on 294-1322. They promise free delivery.

* * *

In Ted Sherwin's recent Retiree Round-up column, he suggested a spread sheet to keep track of insurance claims in process. Charlie O'Keefe, who retired almost 10 years ago, tells LAB NEWS that, since then, he's been using a form that has been copied by many people. He has given the LAB NEWS permission to make copies available to interested retirees. If you'd like to have a copy, drop by the office in Bldg. 814.

Basically, as Ted suggested, the form has space on the left to list the medical service providers, with several columns under Medicare and Sandia Equitable to show dates of filing insurance, amount approved, date received, etc. On the right there is



SANDIA SUPPORTS the National Guard and Reserve program. This plaque, which attests to that fact, was presented to Ray Powell (3000; right), by George Treadwell (6228), a brigadier general in the NM National Guard. Sandia supports the program by allowing time off for employees who participate in Guard or Reserve training and by not limiting or reducing job and career opportunities because of service in the Guard or Reserve. A few hundred employees are members of the Guard or the Reserve. The plaque will hang in the Personnel building.

space for reconciling the claims and noting amounts paid, if any, by the employee/retiree.

* * *

The KAFB riding stables is the site of a Labor Day weekend rodeo that is open to the public — either as spectators or competitors. On Friday and Saturday (Aug. 31, Sept. 1), two hours of music precedes the rodeo, which begins at 8 p.m. Starting at 5 p.m. on Sept. 2, a dance and barbeque open the evening with the rodeo finals at 8 p.m.

To enter the rodeo, call the NM Rodeo Association (877-1818) on Aug. 27 between 9 a.m. and noon for rough stock events (bareback, saddle bronc, and bull riding), and between 1 and 5 p.m. for timed events (calf roping, team roping, barrels, steer wrestling, and break-away roping). For ticket and entry fee information, call the Que Pasa Recreation Center, 844-5420.

* * *

A Giant Flea Market will be held Sept. 31 at the KAFB East Parade Grounds. Call Que Pasa Recreation Center, 844-5420, to reserve a space (\$5 per table; provide your own table) on a first come first serve basis. The flea market is for used items and homemade arts and crafts items; new items require a concessionaire contract.

* * *

The Second Annual Good Health is Good Business conference will be held Oct. 5 at the Classic Hotel. This one-day conference, "Getting Down to Business: Keeping Healthy ... Cutting Costs," will be devoted entirely to worksite health issues. Preregistration (\$40) deadline is Sept. 2. For a copy of the agenda and registration form, stop by the LAB NEWS office, Bldg. 814.

* * *

The Sandians (an organization open to all wives of Sandia employees, female employees, and wives of associated contractors and consulting firms) invites prospective members to a family potluck picnic at the Coronado Club patio on Friday Aug. 24. The group meets monthly, usually in a member's home, for an educational or social program or to welcome newcomers to Albuquerque. Special interest groups include a Couples' Gourmet club and a baby-sitting co-op. Call Mary Roehrig, 281-2695, for more information.

* * *

John Galt (2000) is an IEEE Field Award Winner for 1984. He was honored "for his managerial leadership that resulted in the

understanding of the physics and chemistry of III-V compounds." The citation also mentions his 15 years of solid-state physics research at Bell Labs, his National Research Council Fellowship at the University of Bristol in England after WWII, and his recent tenure as vice-president of Research 1000 at Sandia.

* * *

The Women's Career Conference on Aug. 23 is open to all "exempt women," not non-represented women as indicated in the last issue. Please call Yolanda Padilla-Vigil (4-9342) if you have any questions about the conference.

* * *

Mike Rex (3521) has been appointed to fill an unexpired term on the Animal Humane Association's board of directors. His wife, Linda, is also active on the education side of AHA.

* * *

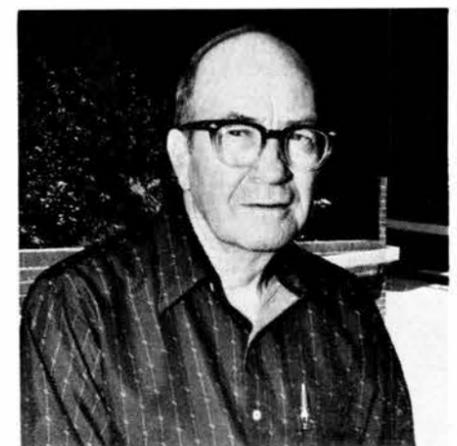
The KAFB Arts & Crafts Center is offering silk screen printing classes each Thursday from 6:30-8:30 p.m. for six weeks beginning Aug. 30. Students must register one week in advance of the starting date.

Matte and frame classes are ongoing and held each Wednesday evening at the Center. For more information, call 844-0222.

* * *

The Chinese Language School is again offering weekly classes at several levels this fall. The class will begin on Aug. 26 at 2 p.m. Register after 1:30 on that date in Ortega Hall (Rm. 205) at UNM. Tuition is \$30 per semester. For additional information, please contact Regina Chen (299-6477). Also, a Chinese brush painting course will be offered at the same time for \$20 per month. Please contact the instructor, Chin Hsyu, at 242-8329 for more information.

RETI-RING

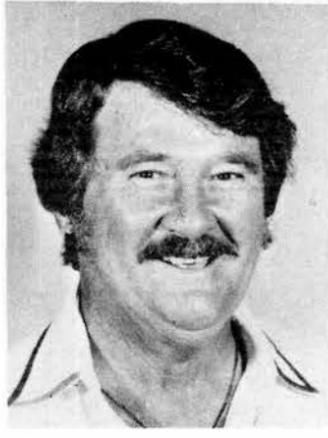


Elmer Smith (3615)

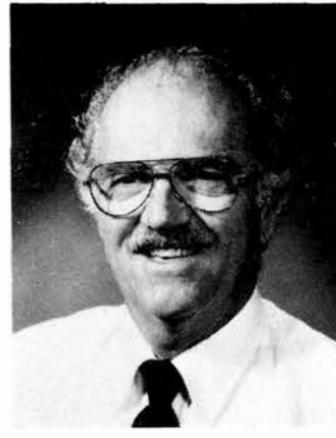
MILEPOSTS

LAB NEWS

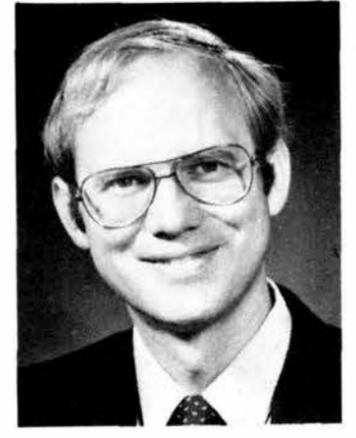
AUGUST 1984



A.J. Brouillard (7131) 30



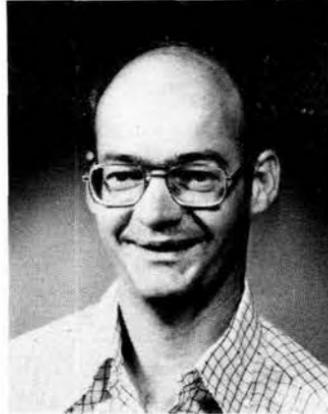
Roy Williams (1273) 30



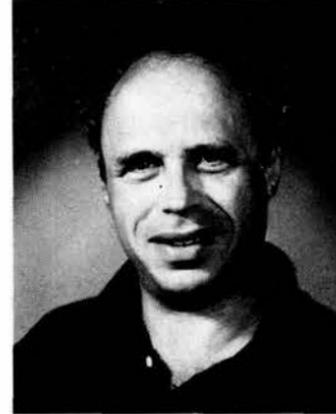
Pace VanDevender (1200) 10



Bobby Vaughan (3154) 20



John Hohimer (1124) 10



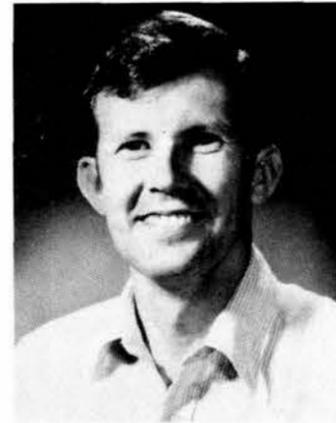
David Emin (1151) 15



Cliff Selvage (8000A) 30



Rodney Shear (7116) 10



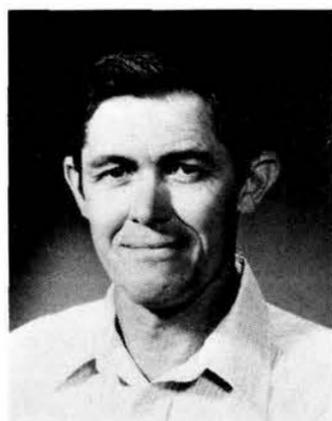
David Jenkins (2115) 10



Sharon White (8162) 10



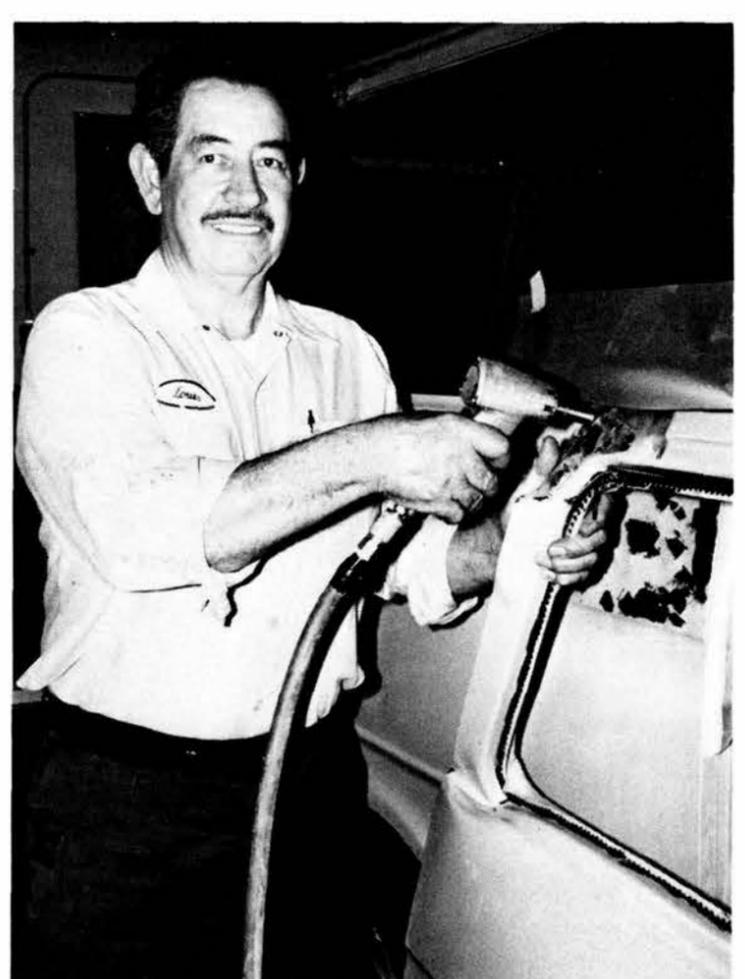
Olivia Armijo (7632) 10



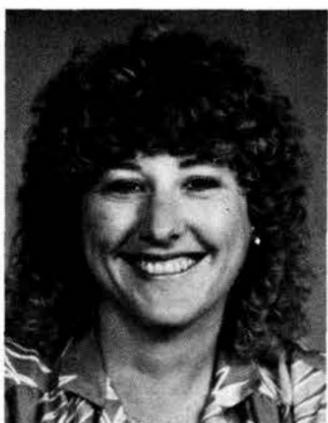
Bill Talley (5215) 20



Joe Saya (7263) 20



Louis Ulibarri (3421) 20



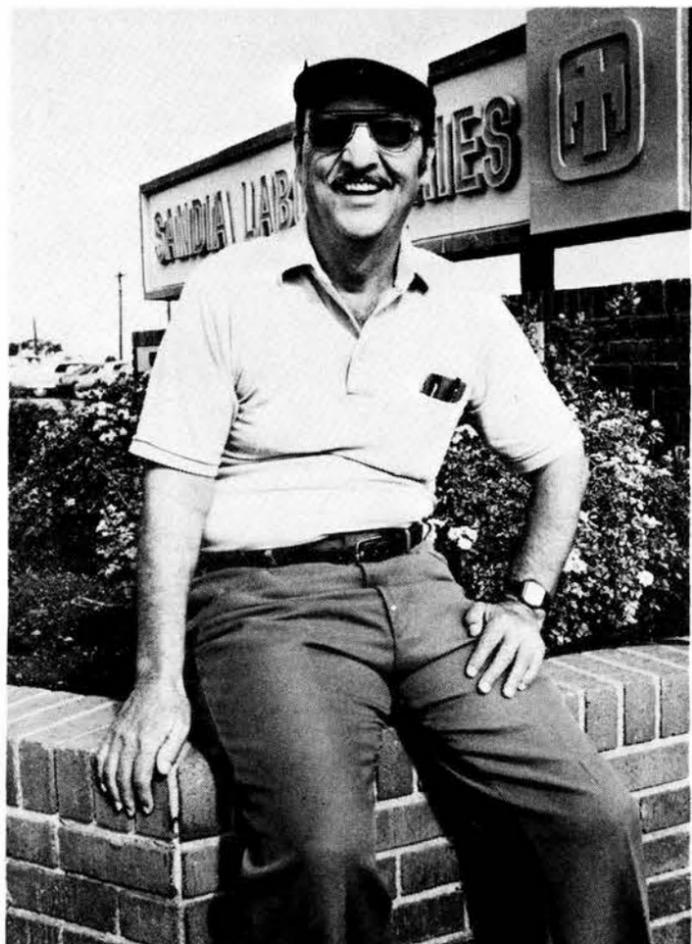
Janet Brooks (8161) 10



Dick Beegle (2124) 20



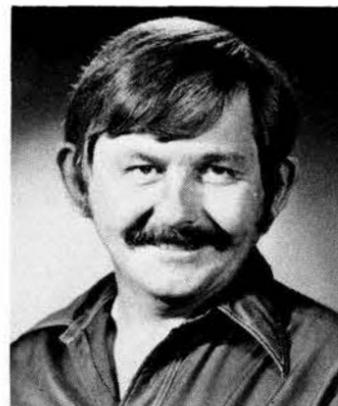
Al Iacoletti (2614) 30



Louis Armijo (7471) 35



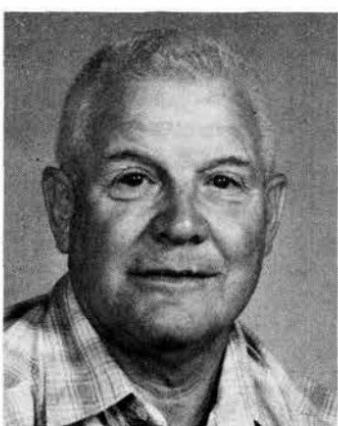
Verne Ivins (8414) 25



Ron Jacobson (1541) 20



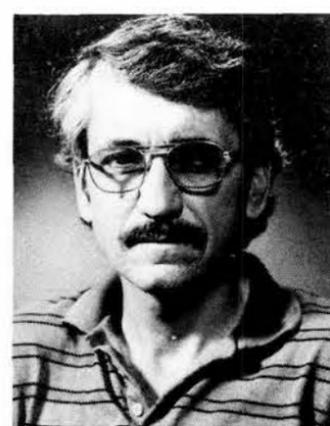
Alva McGuckin (3545) 20



Jay Jost (8414) 25



James Dalton (5122) 10



Doug Drumheller (1534) 15



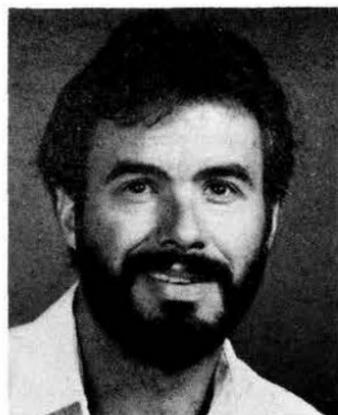
Gerrie Werner (3413) 10



Alan Sehmer (7556) 15



John Ayala (3154) 25



Dale Boehme (8131) 10



Karen Grevlich (8443) 10



Betty LaPaze (8264) 15



Juan Tafoya (3552) 35



Clarence Ray (3741) 35



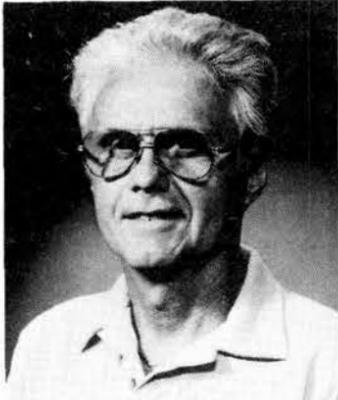
Buzz Babcock (3155) 35



Gene Hammons (1132) 10



Harry Mason (5232) 30



Ron Cheek (7475) 25

ONE BIG DISNEY WORLD?



The most successful U.S. imperialists in Latin America today are *El Raton Miguelito* and *El Pato Donald* — Mickey Mouse and Donald Duck, writes Arturo Uslar Pietri in the independent *El Nacional* of Caracas. "The Disney mythology continues to expand in every form imaginable," sweeping away traditional children's tales and reshaping the popular imagination, he says. "We are all going to end up belonging to the world of Disney — which does not belong to the real world."

— Robert Taylor in *World Press Review*

LIVING MACHINES



A team of researchers at MIT are onto something that may be a substitute for muscle. Toyochi Tanaka and his associates are creating gels that, when placed in an electric field, shrink to one-third or even one-hundredth of their original size. Tanaka says that such gels might be made into muscles, their movements directed by electric impulses from a microcomputer. At present, the researchers are testing a gel to determine whether its contractive force is sufficiently strong to lift loads in a way comparable to natural muscle. So far, Tanaka reports, it seems up the job. (Kenneth Jon Rose in *Science Digest*)

FRET NOT ABOUT THE ARTICLE, WORRY ABOUT THE EDITOR



For most scientists, being asked to edit a scientific journal is a great honor. But few scientists fully appreciate how demanding the job can be until they're fully immersed in it. John Corliss, managing editor, *Journal of Photography*, notes that many editors, particularly those of small journals, are full-time researchers and authors, with little time for editing. Most lack professional training in editing, and are ill-prepared for the variety of tasks with which they're faced. As Corliss puts it: "Only self-motivated, self-taught, self-confident, masochistic individuals need apply." (Eugene Garfield, *Current Comments*)

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RULES

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

MISCELLANEOUS

GE STOVE, \$35; Freezer, \$25; glass patio door, \$50; sink, \$10; steel shelving, brick paneling, crystal chandelier. Jennings, 255-5950.

INCLINE weight bench w/ leg attachment & 100 lb. weight set, \$75. Edrington, 881-2395.

WHIRLPOOL dryer, \$100; Takara 10-speed, Bell helmet, saddle bag, lock, \$175 for all. Owen, 299-3487.

COMPOUND BOW, Browning, 60 lb., camouflaged, quiver, zero peep sight, extra string w/ silencers, \$140. Deller, 292-8124.

BROYHILL Dining room set & hutch, \$500; sleeper sofa, \$200. Parker, 821-7813.

PORTA CRIB, \$30; highchair, \$30; Sears porta-potty, \$50; camper ice box, \$20. Rayner, 821-5534.

MAPLE twin bed, \$25; 6 ft. sliding glass door w/ metal frame, \$30; 12 ft. oval rug. Houghton, 299-3386.

FREEZER, apartment-size, 5.1 cu. ft.; dinnerware, 8 place settings, glasses & silverware. Carpenter, 299-4312.

FREE calico kitten, 4 months old, vaccinated. Troncoso, 897-1167.

WEIGHT lifting machine w/ bench press, leg lift, attachments, \$250 OBO; RCA 19" color TV, quartz tuning, 2-yrs. old, \$275. Eley, 296-3185.

APPALOOSA stud, race or show. Entered in World Wide Futurity at State Fair 1985. Ashbaugh, 1-384-2671.

ORIENTAL rug, handmade in India, 100% wool, 9x12, beige/ brown, \$300, \$2000 value. Dalin, 821-8667.

BALDWIN upright piano, \$800 firm; 26" 3-speed girls bike; Hardwick microwave. Freshour, after 6, 266-1662.

CAMPER shell, SWB, lighted, paneled, \$120. Cordova, 268-6496.

'78-'81 YAMAHA XS11 accessories: seats, fork brace, oil cooler, manual, tires. Roady, 299-6084.

ANTIQUA steamer trunk, complete, \$40; tan 10' x 13' carpet, \$50. Hellmann, 821-0357.

VIC 20 computer w/ several games & household program tapes, original cost, \$156, now \$75. Adams, 256-7265.

RABBITS, 8 weeks old. Widenhoefer, 298-2510.

FREEZER, 15 cu. ft. upright Gibson commercial, \$275. Lurette, 292-5328.

FLOOR covering, Armstrong Solarian, 6' x 7'4", \$50; RV hot water

heater, 9.9 gal., \$90; van back seat, \$25. Kurowski, 881-1859.

POOL TABLE, size 4' x 8', slate top, balls, rack, 6 cues included, \$275. Lennox, 821-0474.

TWO E78-14 4-ply polyester snow tires, \$10 pair. Gardner, 822-0067.

BEDROOM Set, Bassett, white, twin mattresses, springs, 6-drawer dresser, 18" x 52" w/ mirror, \$325; screen door, 32" x 80", all wood w/ all hardware. Kohut, 884-1405.

KROEHLER 3-piece living room set, blue, Danish modern, \$125. Lee, 293-6216.

.22 CAL. bolt action rifle, Mossberg, military stock, tubular magazine, \$50; Admiral 30 cu. ft. refrigerator/freezer, yellow, \$200. Manhart, 266-1068.

SWAMP COOLER, two portables, 2500 & 2800 CFM, \$50 each. Altwies, 292-3884.

10" G.E. color TV, \$95. Preston, 344-7722.

BALLOON, Piccard Strech 6, less than 100 hours, ready to fly, \$6000 OBO. Kmatz, 299-5978.

2 SETS bifold closet doors, for 4' & 5' closet openings, \$20 set, both for \$30. Smith, 298-8227.

HEAVY complete weight-bench, \$75; women's 3-speed bike, \$40; wooden playpen, \$25; x-large pet/child gate, \$10. Perrell, 256-0085.

TRAILER, Scotty 15', heater, refrigerator, range, pressure water, water heater, porta potti, battery, charger, fluorescent lights, brakes, \$1295. Janney, 881-4622.

UMBRELLA Cockatoo, 2 years old, tame & affectionate, w/ cage, \$500. Ondrias, after 8 p.m., 821-8220.

AKC 8-month-old male Doberman, \$150 OBO. Glenn, after 5:30, 294-5441.

CHINCHILLAS, one male, one female, fawn-colored, born May 29, \$35 each. Nimick, 296-0196.

CATAMARAN, 15' Sea Spray w/ trailer, \$900; Heathkit color TV, \$50; Sears spray paint gun, \$20. Seager, 299-4137.

FREE to good home, healthy male, active, 11 yr. old Irish Setter, housebroken. Fowler, 892-0865.

2 BUCKET seats out of '77 Blazer w/ covers, \$100. Benton, 877-2473.

TRAVERSE rod, 278"; lined drapes, beige, 7 1/2' x 12'; oak coffee table; set of 6 metal kitchen chairs. Hall, 299-3594.

ZENITH 17" color TV, \$50; Sears portable straight needle sewing machine, \$40; hot waxer for skis, \$15. Maloney, 821-6661.

TENT, 8' x 10', sleeps 4 to 6, waterproof floor, easy to set up, \$65. Brammer, 266-5158.

MH Tires w/ wheels, 6-14 1/2, \$20 each; 46 leather stamping tools, boxed, \$40. Gravin, 268-6579.

BRAZIL Contempo leather armchairs, pair, cinnamon color w/ ironwood frames, \$495. Dalphin, 265-4029.

SLIDING glass doors, 1 thermopane, 1 regular, both 8' wide, double strength window glass, approximately 3' x 5'. Barnard, 256-7772.

DRESSER 1890's vintage, four tiger maple drawers, needs refinishing, \$175; railroad crewman's metal case, \$20. Gregory, 268-2022.

S & W 357 mag. revolver, model 586, 6" bar., custom grips, \$225. Parks, 884-7475.

TWIN beds (one with headboard); double bed frame/headboard; daybed; bar stools; sewing machine; metal

cabinets; golf carts; etc. Chandler, 296-3323.

8-PC BEDROOM set; 2 single canopy beds; nightstands & dressers/w matching mirror & desk, ivory/blue, \$500. Schaefer, 281-3271.

SOFA, brown & gold, \$250; loveseat, brown, \$150; B & W TV, \$50; Mary Kay supplies. Winokur, 298-8580.

'68 COLEMAN 15' tent camper, sleeps 8. Sebrell, 821-4227.

7' SPANISH carved pedestal table, opens to 10', 6 carved spindle chairs, velvet seats, \$1500 OBO; waterbed, bookcase headboard, queensize, make offer. Kanuika, 293-3834.

COMREX monitor, GRN screen, \$95; Magnavox console stereo, \$90; ping-pong table, \$25; girl's roller skates, \$15. Mora, after 6, 821-6759.

WEIMARANER puppies, AKC bred for excellence in field & show, as well as companion dogs, 7-weeks-old. Robinson, 865-7787.

VIOLIN/viola, Roth, 3/4, \$200 OBO. Westfall, 884-8701.

CRIB & mattress, \$125; PV guitar & amp, new, \$320; bicycle, 26", man's 10-speed, Schwinn, \$125. Harris, 299-4559.

STEREO Console electro-phonics, solid state AM/FM radio, turntable, 8-track, \$100. Tenorio, 898-7404.

HANGING fireplace, ski lodge style, 360 degree screen, 37' dia., 57" ht., black, 4 suspension chains, \$330. Talbert, 298-9036.

LUGGAGE, Sears dark leather textured pullman bag, 24 x 18 x 10, holds several suits & dresses, separate zippered accessory compartment, \$25. Allen, 296-6453.

19" PORTABLE RCA color TV, \$150. Young, 256-9158.

4-PIECE bleached mahogany bedroom set, \$200; trundle bed w/ inner-spring mattresses, \$150; two solid walnut occasional tables, \$25 each. Ulrich, 881-2649.

DIAMOND & aquamarine dress ring in 14kt. gold, custom designed. Nowak, evenings, 822-0481.

TRUMPET, one-year-old, Bundy, \$225, includes cleaning brushes & student music books. Knapp, 294-6359.

TROMBONE, King/Cleveland, advanced student model, used 1 1/2 yrs., \$145. Yio, 265-2205.

TRANSPORTATION

MEN'S 26" 10-speed Gitane bike, \$75. Russo, after 6, 293-0315.

52cm. ALAN Gold anodized aluminum bicycle, campy components, sealed bearing hubs, Turbo-S tires, extra sew-up wheels, \$900 firm. Thorne, 884-4870.

'76 BUICK Skylark, PS, PB, AM/FM 8-track, air, 63,000 miles, \$1450. Duffy, mornings, 892-1156.

'37 CHRYSLER Roadster, 75% restored, \$7K. Perryman, 281-3020.

BOAT & motor, Sears' 12' Gamefisher, Johnson 6 hp motor, canvas boat cover, oars, \$900. Holmes, 292-0898.

'78 HONDA Goldwing, fully equipped, low mileage 8800, \$2900. Parker, 821-7813.

'80 SUBARU DL hatchback, AT, AC, AM/FM cassette, \$3500. Christopher, 299-5712.

'83 HONDA Prelude, new body style, 5-speed, all options, \$10,000 firm. Goggans, 344-6528.

'82 HONDA, MB5, high performance motorcycle, 50 cc, 5-speed, under 3000 miles, includes full-face hel-

met, \$350. Sabisch, 298-8350.

'78 CHEVY Chevette, 4-door, hatchback, AT, new brakes, shocks, muffler, 24 MPG, \$1400. Moore, 821-4431.

'80 TRIUMPH TR-7 Spider convertible, below book. Fredlund, 298-3001.

'77 CHEVY 1/2T pick-up, AC, PS, PB, auto dual tanks, propane conversion kit, \$3600. Ramsey, after 5, 292-5743.

'76 PENTON MC-5 400cc dirt bike, \$500. Wright, 296-3850.

'62 MERCEDES 220 SE 4-door, \$3000 firm. Ganzerla, 296-2101.

'65 JEEP Wagoneer, V8, 3-speed, 4wd, \$895. Maxam, 898-2435.

'74 EL DORADO motor home, sleeps 6-8, many new features. Palmer, 292-6443.

'83 HONDA 650 Nighthawk, Windstar fairing, tank bag, lock, 3200 miles, \$2500 OBO. Eley, 296-3185.

'80 MAZDA RX-7, silver w/ burgundy interior, 38,000 miles, Alpine stereo, \$6400, will consider trade. Kurtz, 294-7646.

'83 JEEP CJ-5 Renegade, 4-speed, less than 6000 miles, never been off road. Nations, 292-7744.

'79 CAMARO Rally Sport, V8, automatic, AC, PS, PB, cruise control, tilt steering, 48,000 miles. Coy, 299-7463.

'72 KAWASAKI H-2, 750cc two stroke triple, new paint, chain & sprockets, 16,600 miles, \$675. Healer, 298-6967.

'79 DATSUN 510, automatic, one owner, 39,000 miles, \$3650 book value OBO. Baczek, 266-2497.

'76 TRIUMPH TR-6, tonneau cover, AM/FM cassette, \$4500 OBO. Case, 299-2055.

'80 HONDA XL185S street or dirt motorcycle, \$485. Fisher, 881-8072.

'75 HONDA CL360, adult ridden, one owner, \$500 OBO. James, 344-7854.

'76 KAWASAKI 250 all dirt bike, new motor, \$325. Gravin, 268-6579.

'77 DATSUN pick-up, king cab, stick, fiberglass shell, other features, \$2200. Blossom, 299-6709.

'77 DATSUN, king cab pick-up, 4-speed, steel camper shell, rubber boot, new radiator, fuel pump, motor overhaul, white spoke rims. Garcia, 888-4735.

'73 CHEVY 9-passenger stationwagon, new paint & tires, best offer. Kanuika, 293-3834.

'74 AMC MATADOR stationwagon, AT, AC, PB & S, AM/FM, one owner, radial tires, \$1300. Matalucci, 884-7502.

'67 MGB-GT new interior. Perea, 243-6534.

'73 OLDSMOBILE Cutlass, 350 AT, PS, PB, AC. Stoeber, 296-3717.

'72 PORSCHE 911T, 5-speed, air, new tires, 82K, \$10,500. VanDenAvyle, 898-6474.

'78 TOYOTA Celica, AM/FM cassette, 5-speed, air, PB, 55,000 miles, \$3800. Garton, 294-4391.

REAL ESTATE

1.3 ACRES El Pinar Estates, 14 miles off frontage road, wooded, electricity, phone, \$8K. Perryman, 281-3020.

2.5 ACRES N. 14 heavily wooded, electricity to property, water all around, \$29,000 terms negotiable. Lassiter, 299-1492.

5.2 ACRE wooded lot w/ water & utilities, 2 miles off S.14, 33K. Swahlan, 294-2126.

TRAILER, Spartan 10 x 50, can relocate or rent on Placitas property,

\$7500 cash. Straba, after 4, 268-6667.

4 BDR., 2340 sq. ft., 3-car garage, assumable FHA, 11.5% fixed rate, \$7000 down, Bohlken, 292-1218.

TOWNHOUSE, Chimney Ridge, 2 bdrm, 2 1/2 bath, 1950 sq. ft., fp, wet bar, pool, tennis, near I-25 & Osuna, \$98,500. Maxam, 898-2435.

4 BDRM, 1600 sq. ft., cathedral ceilings, N.E. heights, \$70,500. Nimick, 296-0196.

FOOTHILLS R1 lot, lot 20, block 3 of Rebonito subdivision, southern exposure. Morreale, 298-5182.

2 BDRM, utility room, double garage, corner lot, sprinklers, near Carlisle/Candelaria, \$46,800. Carl, 298-7136.

HOUSE on Camano Island, Washington, 2 bdrm, fp, 2 acres w/ orchard, owner will finance. Barnard, 256-7772.

WOODED lot, 1 acre, S. Pedro Estates, near Regina, NM, electricity/water available, fishing, \$8500. Mora, after 6, 821-6759.

ONE ACRE Manzano View Estates, Los Lunas/Tome area, utilities, home site, \$16,200. Gonzales, 265-9031.

JEMEZ Mountain property surrounded by national forest, electricity, natural gas, pure spring water, pine & meadow, 5 1/2 acres, subdividable, \$48,500. Hughes, 299-6674.

FOR RENT

4-HILLS, 4 bdrm., 3 bath, 3000 sq. ft., 2-car garage, big yard, 2 year lease or 1 year w/ option. Avail. Aug. 20. Schiffer, 298-7438.

WANTED

JUNIOR water skis. Cordova, 268-6496.

SAWYER slide trays, rotary 100 slides, 2 x 2 slides. McEwen, 821-1374.

ONE cylinder, small displacement, two or four cycle engine for use in high school automotive class, need not be working. Clabaugh, 299-0721.

CAMPER shell for Ford pick-up, narrow, short bed. Kurowski, 299-9053.

GASOLINE powered mulcher, 2-3 HP.; small forge and tools. Roberts, 255-9527.

FLAG STONE, a few pieces to complete walkway, red or yellow. Chorley, 296-1454.

BARGAIN on a 4 wheel drive heap, appearance unimportant but must be mechanically repairable. Hellman, 821-0357 or Smith, 822-0368.

SOMEONE to share T.L.C. & some expenses for riding time of Appaloosa gelding. James, 344-7854.

IRON & ironing board; butcher block breakfast table & chairs. Chandler, 296-3323.

MANUAL for '72 Chevy truck. VanDenAvyle, 898-6474.

METRANOME. Mead, 294-2298.

CINDER blocks, 8 x 8 x 16 std. & 6 x 8 x 16 std., new or clean used. Talbert, 298-9036.

WORK WANTED

HOUSE sitting, non-smoking adult university student. Fitzmorris, 266-6785.

BABY sitting after school, evenings or weekends, language arts tutoring if desired. Del Norte senior, references. Switendick, 884-0153.

LOST

2 BLACK Lab/German Shepherd cross female dogs in Rio Rancho, please call if seen or found. Vernon, 892-6571.

Steak and Crab Tonight; Lobster Set Next Week

TONIGHT is a special night in mid-August with Manager Mitch and Chef Henry heading off the summer doldrums with an exciting menu special for the dining room — a steak and crab platter for \$7.95. On the bandstand, a variety group called Together makes it all work to perfection. It's a good night out, the day after payday, so live it up a little. The bar is featuring a raspberry daiquiri special for \$1.

Live it up a lot next Friday, Aug. 24, when whole Maine lobster is offered at \$9.95 and that includes a half-liter of wine. Western Flyer makes the sagebrush shuffle music preceded by free country and western dance lessons instructed by Karen Edwards.

A FINANCIAL SEMINAR, part of a continuing series presented by American First Financial, is scheduled Tuesday, Aug. 21, at 7:30 p.m. in the ballroom. Speakers are Charles Justus III and Sandra Corless.

VARIETY NIGHT on Saturday, Aug. 25, sees another great Walt Disney film schedule. This one is "Bed Knobs and Broomsticks" starring Angela Lansbury. Actors and animation are combined in a story about Britain in WWII. Food service starts at 5 p.m.; the movie at 6. Admission is free to members and their families.

FAMILY SEAFOOD NIGHT on Thursday, Aug. 30, is a fish and chips special — all you can eat for \$4.95. Other menu selections include fresh seafood selections flown in special for the occasion plus the Club's standard steaks. Dining room hours are from 6 to 8:30 p.m. Reservations are a good idea — call 265-6791.

THE CORONADO CLUB Mixed Bowling League is seeking new members for the upcoming season. The group bowls Wednesdays at 6:25 p.m. at San Mateo Lanes. League play starts Aug. 29. Call John Biesterveld (5211) at 256-7983 if you're interested in becoming a member or a sub. The group has a lot of fun, wins a lot of prizes.

POOL AND PATIO hours change during the last two weeks in August as kids return to school and attendance drops dramatically. Monday through Thursday, Aug. 20-23 and Aug. 27-30, pool hours are 11 a.m. to 1 p.m. and from 5 to 6 p.m. On Fridays, Aug. 24 and 31, pool hours are from 11 a.m. to 1 p.m. and from 4 to 8 p.m. Weekend hours remain the same — from 11 a.m. until 6 p.m. on Saturdays and Sundays. The big end-of-swim-season pool closing party is set for Labor Day, Monday, Sept. 3.

CORONADO SKI CLUB is gearing up for its annual Ski Fair scheduled this year on Tuesday, Sept. 18, starting at 5:30 p.m. in the Club patio area. Everyone is invited. This will be a repeat of the popular activities from last year's extravaganza — booths with equipment displays, ski area reps and their booths, signup booths for Ski Club trips (learn about Ski Club membership, discounts, and the outstanding trips planned for next year), and the usual Ski Club refreshment prices and fabulous door prizes. Mark it on your calendar and plan to be there.

CLUB-SPONSORED TRAVEL includes a Cumbres-Toltec bus and railroad excursion Sept. 30 for \$48, a charter bus Aspen-cade tour Sept. 26-30 to Silverton and Ouray for \$220, and Mazatlan Nov. 12-19 for \$399.

The Coronado Wolfpack is sponsoring trips to UNM Lobo football games at UTEP Sept. 29-30 and at Baylor Nov. 3-4 (this one includes a Dallas-Giants game also). Hawaii is scheduled Nov. 22-28. You do not have to be a Wolfpack member to participate. Call the Club office for details, 265-6791.

ATTENTION RETIREES — Hoping to organize a special interest group for retirees, the Club is holding a reception Sunday afternoon Sept. 9 from 2 to 5 p.m. Refreshments and hors d'oeuvres will be served. All Sandia and DOE retirees and their spouses are invited.

Events Calendar

Aug. 17-19, 24-26 — "Seduced," 8:30 p.m., Corrales Adobe Theatre, 898-3323.
 Aug. 18 — A Summer Rose Clinic, Albuquerque Rose Society; bring your rose problems for free diagnosis and recommendations; 9 a.m.-noon, Prospect Park Rose Garden, Wyoming Regional Branch Library.
 Aug. 18 — Light Up the Zoo Benefit: "Indian Summer," in cooperation with the NM Council of American Indians; PowWow with music and competitive dancing, food and arts and crafts booths, 6-10 p.m., Rio Grande Zoo.
 Aug. 18-19 — 63rd Annual Indian Market: juried selection of more than 500 Indian craftspeople, dances, crafts demonstrations, 7 a.m.-6 p.m., Santa Fe Plaza,

1-983-5220.
 Aug. 18-19 — Annual Zuni Tribal Fair: arts and crafts, food booths, contests; Zuni Pueblo, 1-782-4481.
 Aug. 24 — Albuquerque Chamber Orchestra, 8:15 p.m., Albuquerque Little Theatre, 247-0262.
 Aug. 25 — "To Entertain You," Barbershop quartets and choruses, 7 and 9 p.m., Ki-Mo, 766-7404.
 Aug. 25-26 — "Feria Artesana," Hispanic arts and crafts exhibit and market, Albuquerque Convention Center, 8 a.m. Sat., 9 a.m. Sun.
 Aug. 28 — St. Augustine's Feast and annual Spanish Fiesta — carnival, concession stands, religious activities, Isleta Pueblo, 1-869-3111.



FRANK GALLEGOS (3523) received the Employer Award for 1984 from the Job Placement Division of the New Mexico Rehabilitation Association for significant help in hiring the handicapped by Sandia and other employers. In 1981 Frank initiated a Supervised Employment contract with Career Services for the Handicapped to provide temporary clerical help to SNL. The contract has grown each year, and a number of disabled workers have become permanent employees. Frank has encouraged other local employers to use the concept; more than a dozen of them participated in Supervised Employment last year.

ON THE MEDIEVAL MENU

 Life in a noble household in the 13th century — some details from the domestic accounts of Eleanor, wife of Simon de Montfort, Earl of Leicester, cited by Asa Briggs in "A Social History of England" (Viking).

Rice was so special that it was kept under lock and key. Spices were expensive (the price of pepper fluctuated from 10d to 2s 4d a pound and that of ginger from 10d to 1s 6d), but were considered necessary. Sugar could fluctuate in price from month to month, and the weight of sugar consumed in a year was only just larger than the weight of pepper. Many of the dishes on the table at this time were not only highly flavored, with vinegar as well as pepper an active ingredient, but also highly colored, either by bright yellow saffron or, perhaps less attractive, crimson blood. Gascon wine, which was imported in very large quantities from England's empire in France, was a major drink and the household brewed its own ale, though hops were not used in ale-making as early as the thirteenth century. Fruit and vegetables from the orchard and garden were not itemized in the accounts: they were taken for granted.

— The New York Times Book Review



WHEN IT COMES TO SAFETY, there's no back door. Or is there? Yes, Safety Department 3440 in Bldg. 838 has one. But the folks inside the door remind us that, while you can now take a back door to Safety, it's not wise to take a back-door approach to safety.