



JOSE GUTIERREZ (4331) puzzles over another misspelling of "Sandia."

'SANDIA' —

## A Tough Word To Spell?

Jose Gutierrez has been a property clerk in Office Services Section 4331-2 for about two and a half years. One of his responsibilities is to sort and deliver all mail for the Purchasing Directorate.

"I had been on the job a few weeks," Jose says, "when I noticed an envelope addressed to 'Andia Corporation'. I thought it was sort of humorous, so I jotted it down. I see a lot of misspelled words, and Sandia doesn't seem too difficult to spell but you wouldn't believe what people sometimes do to that word." Jose continued to write down the examples of how *not* to spell Sandia and here is what his list looks like now:

"Andia Corp.	Shadia Corp.
San-Dia Labs	Saudia Corp.
Dia-Rod Labs	Iaudia Corp.
Saddia Corp.	Sandie Corp.
Sandiw Corp.	Sradia Labs
Dandic Corp.	Sanida Labs
Sandin Corp.	Sandy Labs"

Do you think "Watermelon Labs" would get better treatment?

## Sandians at Pantex Give 100% to United Way Drive

The 23 Sandians of Stockpile Systems Test Laboratory Division 7431 at Pantex achieved a remarkable record in the recent drive of the United Way of Amarillo. All 23 employees of the division contributed to the effort — 74 percent at a Fair Share level.

A total of \$1455 was pledged to the drive. Average gift was \$63.30.

According to John Thomas, chairman of the Sandia effort, the group achieved 183 percent of their goal.

# LAB NEWS

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SANDIA LABORATORIES • ALBUQUERQUE NM • LIVERMORE CALIF • TONOPAH NEV



REPORTING SANDIA'S CONTRIBUTION of \$325,858 to the Albuquerque United Community Fund at a meeting last week was the pleasant task of (l to r) Jan Hawkins (3256), Claudia Garlick (5314), Glenda Daniels (3233), Jack Sivinski (1740) — ECP committee chairman — Peggy Stevens (5310), Archie Pearlman (4331) and Soila Candelaria (1314). The total includes 85 percent of ECP funds and Sandia's corporate gift.

### 51% Fair Share Level

## ECP Total Hits \$354,600

The Employee Contribution Plan campaign wrapped up this week and the ECP committee headed by Jack Sivinski (1740) was elated with the results. The impressive total was \$354,608, a whopping \$29,000 increase over last year and the largest total ever pledged to ECP in the 15-year history of the plan.

"The committee is extremely pleased," Jack says, "with the empathy of Sandians with the needs of their community. It was with a great deal of pride that we reported our contributions to UCF at the final report meeting last Friday. The response to the ECP campaign reaffirmed that Sandians are responsible and generous citizens, people who care — leaders in community effort. Our thanks to all who contributed and to all those dedicated people who worked on the campaign."

Eighty-four percent of employees are participating in ECP. Fifty-one percent are

pledging at the Fair Share level. Average gift of the 5209 employees contributing is \$67.

At the start of the campaign, participation was at 83 percent and the Fair Share participation was 44 percent.

ECP funds are distributed to the 33 agencies of the Albuquerque United Community Fund and eight other national health and welfare agencies. Of the total, 85 percent goes to UCF.

### Len Beavis Elected

Len Beavis (1413) was recently elected to the national board of the American Vacuum Society. His term will be for two years starting in January 1972. Currently Len heads the national education committee. He is a past chairman and educational committee chairman of the Albuquerque Chapter of AVS.

## An Editor's Afterthoughts

Traffic Aberrations--There is something both maddening and pathetic about the driver who starts to cross a busy street with a median strip, such as Central, gets half way across, stops, and leaves the rear half of his automobile sticking out into the lane of traffic. This driver seems to feel that once he personally is beyond the in-board lane of traffic, well, the after end of his automobile must be ok too. In all honesty, this behavior is observed more in women than men. It probably has something to do with the female disposition to underestimate rear ends.

\* \* \*

MARK TWAIN, whose humor was sometimes self-deprecatory, was once moved to characterize his early manhood thus: "In my youth I was so extraordinarily handsome that in San Francisco during the rainy season I was frequently taken for a cloudless day."

\* \* \*

Things We've Always Wanted To See Dept.--"This Door Alarmed During Non-Working Hours." What does an alarmed door look like... does its nice shade of institutional green turn sallow? And, what causes the poor, dumb thing to be alarmed in the first place?

\* \* \*

Right On--"Perhaps the most valuable result of all education is the ability to make yourself do the thing you have to do, when it ought to be done, whether you like it or not; it is the first lesson that ought to be learned; and however early a man's training begins, it is probably the last lesson that he learns thoroughly."--Thomas Huxley

\* \* \*

ACHTUNG, Sandia Hunters! This weekend you leave the Zone of Sanity (ZS) and enter the Valley of Nuts (VN) where all sorts of otherwise nice people shoot holes in other nice people in the name of reduction of the deer population and sport. So don't feel you have to get personally involved in the problem of population control... watch for other hunters--they rarely have antlers.

\* \* \*

Words-To-Live-By: "Lord, give me patience--right now." (Let's Have Better Mottos Assn.)

• js

## Take Note

Cecil Land (5153) will discuss "New Developments in Electrooptic Ceramic Materials and Devices" at a meeting of the 5100 Staff Seminar Nov. 9. "Recent Applications of Ion Back Scattering" will be presented by Jim Borders (5111) on Nov. 16.

The seminar meets on Tuesday mornings in 8:30 in rm. 201 of bldg. 806.

\* \* \* \*



AIN'T NATURE GRAND DEPT. — Why any self-respecting cactus would want to take root between a metal building and a concrete slab is one of the those minor mysteries of the universe. Plant flourishes at SE corner of Bldg. 890.

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TOP AWARD in a recent competition of the Information Film Producers of America went to "Portrait," a seven-minute 16mm color film photographed and edited by Elliot Harris of Motion Picture and Video Services Division 7544. The film is used in the Sandia Exhibit Center as an introduction to Sandia's R&D activities. More than 600 films were entered in the competition.



WHAT CAN WE SAY? Tony Shannon (7143) found this restriction on noon-time fishing at likely spot.

## When Johnny Comes Marching Home . . .

You got out of the Army a year ago September and this is your 356th consecutive day of unemployment. And you've been trying.

You were called up with the Air Guard, worked trying 12-hour days on the flight line supporting fighter sorties, and since your release you've already been laid off from one job and have submitted over 100 employment applications — without result.

You spent four years in the Navy, became a machinist and a petty officer, tried to apply this skill in your home town of Las Cruces with no luck so you came to Albuquerque. The machine shops here said "more experience."

You volunteered for the draft after a year of college, got yourself shot at in Vietnam, married a Vietnamese girl in spite of the Army hassle, are looking for a career, and end up as a part-time guard at \$1.75/hr.

You entered UNM after your release, found the GI Bill wasn't enough, tried to carry a 40-hour filling station job, met the girl, and suddenly your school/job/girl schedule was too much.

\* \* \*

If you're one of the more than a million Vietnam-era vets, these scenarios have a familiar despairing ring. They aren't made up. They recount the experience of five veterans who must now be considered the fortunate exceptions — they have a job and good prospects. All are apprentices at Sandia Labs. We discussed with them what it's like to be a job-hunter today.

To a man, each sensed the wariness of employers on the drug problem. This rankled. Sort of like being suspected of carrying some social disease.

Other faintly negative feelings directed toward the returned vets hurt.

Fred had been a translator in Vietnam and after his return wore his fatigue jacket with its divisional patches with some modest pride. "But people looked at it questioningly . . ." This was during the Calley uproar, so Fred gave up wearing the jacket.

Sam thought he'd pick up the pieces of normal life back in Las Cruces. "After four years, I didn't really know many people anymore and the ones I did were married and settled down." He worked briefly at White Sands cleaning out air conditioners, drifted up to Albuquerque, found his Navy machinist experience didn't count for much. Before Sandia, Sam held a succession of odd jobs.

Ray was a Staff Sergeant in Thailand, liked the place, and had a fairly responsible job. In fact, he even thought about reenlisting but concluded that military assignments were too unpredictable. Ray was unemployed for nearly a year, lived with his mother, could have had flunky jobs but held out for a job offering a career. He mentions one little-appreciated problem of the jobless: "I had no car and someday I must have walked for six hours. As it was I never did make it to some of the outlying plants like Gulton or Singer Friden." Ray took Civil Service exams, scored "max," i.e., 105% (100 on the exam,



SAM GIRON and Ray Lehman (left), Jim George and Fred Gleicher (right), and Phil Collins (not pictured) talked to LAB NEWS about difficulties Viet vets face in getting jobs. All are now apprentices at Sandia Labs.

and five bonus points for being a vet), but got no job offers. He wonders about the value of veteran's preference.

After his Air Guard service, Jim worked as a mechanic at Continental. But then the airline business took a nosedive and he was laid off. Over a hundred employment applications later, he was still jobless. Jim's wife works at Sandia, so they weren't going hungry, but the daily ritual — coffee, searching the want ads, getting psychologically up for what will probably be a futile interview — was demoralizing. His experience with Civil Service was similar to Ray's.

Phil arrived in Albuquerque with his Vietnamese wife, then pregnant, with high expectations. The service and the unpleasantness of Vietnam was behind them, and he reassured her that the good life was about to begin. Two days later the city was in riot and Phil and his wife were stopped in their car for curfew violation, no arrest made. He relates one incident that occurred while working as a part-time guard: "I showed up one night sick — probably had flu or something — and was a little groggy. Then I

overhear a couple of the other guys saying I was probably high on drugs . . ."

\* \* \*

One problem of adjustment common to all five derived from their abrupt change from being "something" — in the service with a specific job and specific responsibilities — to being just another guy looking for work. And when work was found, its sometimes menial character created some psychological difficulties because it's hard to go from a position of status to pumping gas in a filling station.

These men are somewhat cynical about government programs to help the vet, yet none feels the government owes him a living. And none suggests any significant alteration of the present system, but it is clear that all feel something is wrong somewhere — bewilderment seems to be the feeling.

In a recent Executive Order aimed at helping jobless vets, the Federal government now requires the listing of job openings by contractors doing business with the government. This will help. But any candid analysis of job prospects for the returning vet will probably conclude thus: the prospects are bleak. • js

## Retired Sandian Honored by State AFL-CIO

C.S. "Hank" Henry, who retired from Sandia Laboratories in 1956, was honored recently by the New Mexico AFL-CIO during the group's annual convention.



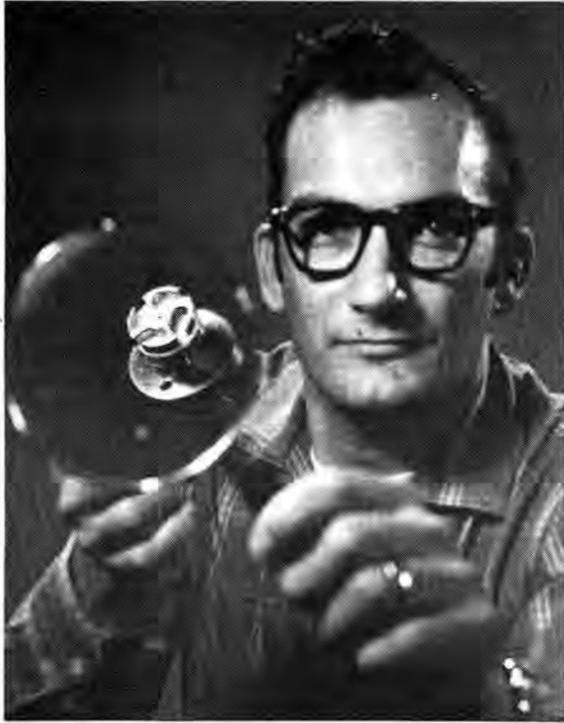
A resolution at the meeting established the "C.S. Henry Award" to be presented each year to the union member or union officer who makes outstanding contributions to the work of the organization. In addition, Hank was made a lifetime member of the executive board.

Now 82, Hank remains active in union

affairs and civic organizations. He also works with state legislators on such projects as retaining train passenger service through New Mexico and establishing low-cost housing for senior citizens.

He joined Sandia in 1949 when it was under the University of California. During the next year, Hank worked to organize both the office workers and the Metal Trades Council. He and OPEIU Vice President Frank Morgan are given credit for establishing both unions at Sandia.

Hank was on the negotiating committees from 1950 to 1956 and served as president of Local 251, OPEIU, in 1955-56.



A PATENT was recently awarded for George Schnetzer's (1423) invention of a balanced dipole antenna.

## George Schnetzer Invents New Antenna

The AEC has been granted a patent for a balanced dipole antenna invented by George Schnetzer of Antenna Development Division 1423. The small device is an X-band beacon antenna that is incorporated into an earth penetration device.

George has worked at Sandia almost 10 years. Before joining antenna development in 1965, he worked in electronic component development. George completed requirements of Sandia's Technical Development Program in 1964, earned his Master's degree in EE in 1965.

SHAWKEET HINDI (7542) was champion driver at Raceway Park last season emerging first in a field of 83. He also took the Rocky Mountain championship in car No. 11, the racing machine he designed and built. He will spend the winter months completely rebuilding the machine in anticipation of next season.



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## Two Sandians Win At Flower Show

Not all the races at the recent New Mexico State Fair were run on the race track. Another exciting, down-to-the-wire competition took place on the other side of the grounds in the Floriculture Building. The grand sweepstakes trophy — a Nambeware punch bowl — would be awarded to the contestant winning the greatest number of blue ribbons in the Fair's six flower shows.

After the first few days, the contest settled down to a two-man race. And, strangely enough, both men are Sandians, neither belongs to a garden club, and at Sandia both work in Bldg. 892, in fact, just around the corner from each other.

Going into the final show, Marv Daniel of Engineering Applications Division 1812, was leading by one ribbon. When the results of the judging were in, Ivan Moore, manager of Military Liaison Department 1610, had won the grand sweepstakes — by one ribbon. Ivan collected 111 first places and Marv 110. The men are good friends and respect each others gardening abilities, and both knew that the results could go either way.

Ivan's prowess is with annuals while Marv excells with dahlias; however, both won ribbons on other varieties and their gardens contain many different flowers.

Ivan has been showing flowers for 15 years and once won the State Fair horticulture sweepstakes 14 times in a row. "Growing flowers is my hobby — like playing golf or any other activity," Ivan says. "It's relaxation for me and I enjoy the spirit of competition in showing the flowers." He is often asked to help classify entries or to judge shows.

How can the rest of us grow good flowers? Ivan replies, "Whether you grow flowers for your own pleasure or for competition, buy good seed, add organic materials if your soil needs them, fertilize and water. Of course if you grow exhibition flowers, it's a bit more complicated — good grooming of both flower and foliage count when the judges take over."

Marv and his wife Sharon, who works in Applied Mathematics Division II 1722, moved into a new home about a year and a half ago. "The soil at my place is made up almost completely of decomposed granite," Marv says. "I'm a firm believer in compost and last year put three to four tons of it into the ground. The neighbors thought I was moonlighting as a garbage collector because I went around picking up the sacks and boxes of leaves they left on the curb. But it takes leaves for good compost and I didn't have any." Marv has about 130 varieties of dahlias in his yard this year, in addition to other flowers and vegetables.

"When growing exhibition specimens, disbudding (removing all side buds to improve the size and quality of the bloom) becomes almost automatic," Marv says. "I sometimes get into trouble visiting a friend's garden by unthinkingly picking off those extra buds."

Dahlia tubers are dug in the fall, stored during winter, and made ready for planting in the spring. Both Ivan and Marv have offered to give away extra tubers. If you are interested make a note on your calendar to call them next April.

"Ours is a friendly competition," Marv says. "Each of us usually has success with

several new or different dahlia varieties and we swap maybe 15-20 tubers each year. In fact Ivan has a beautiful white dahlia in his office now that I'm going to ask for this year.' ● nt



MARV DANIEL (left) and Ivan Moore display ribbons and Nambeware won in the recent State Fair Flower Show. Each ribbon represents a prize bloom — between them they have several hundred.

## Supervisory Appointment

JIM GOVER to supervisor Radiation Effects Division II 1935, effective Nov. 1.

Since joining the Laboratories in June 1963 as a staff member in explosive component development, Jim's work has been in the area of radiation effects in components.



He received a BS degree in electrical engineering from the University of Kentucky in 1963. As a member of Sandia's Technical Development Program, Jim earned an MS in EE from UNM in 1965. He was selected to participate in Sandia's Doctoral Study Program, and in June of this year was awarded his PhD in nuclear engineering from UNM.

Jim is a member of Eta Kappa Nu and Tau Beta Pi, and in 1967 was on the Jay Cee's list of Outstanding Young Men of America.

Jim and his wife Lois have two daughters and reside at 3116 Quebec NE.

## Gene Kenderdine Invents Timer

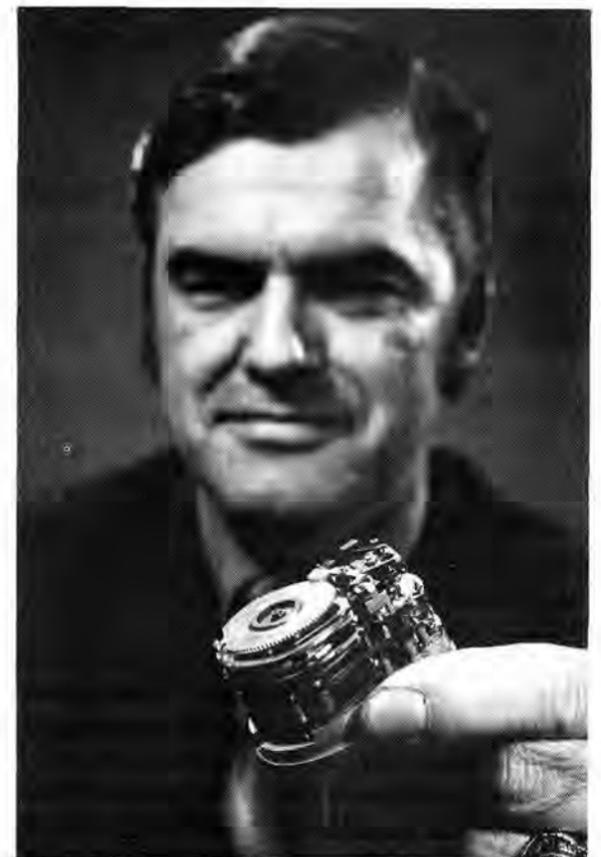
A programmable timer, invented by Gene Kenderdine of Timers and Coded Switches Division 1342, has been granted a patent (awarded to the AEC).

The timer uses a spring-powered escapement to measure the time between two electrical pulses and provides a switch closure at a programmed time after the second pulse. The duration of the programmed time is dependent on the elapsed time between the two pulses.

Used in a missile and in conjunction with an inertial device, the timer provides an arming function during flight. Pre-launch settings are not required.

Gene joined Sandia as a draftsman at Livermore Laboratories in 1958. He transferred to Albuquerque three years later and started taking courses at UNM under Sandia's Educational Aids Program. He earned his BS in mechanical engineering in 1964.

GENE KENDERDINE (1342) displays his programmable timer, recently patented.





WATER CARAVAN of Sandians speeds up the main channel of Lake Powell. Hundreds of scenic canyons spread out like fingers from the channel.



EIGHT WATER SKIERS are pulled at once by Bob Blount (4150) on Lake Powell.

## Sandians Boat 8 Days At Spectacular Lake Powell

Six boatloads of Sandians recently spent eight days at spectacular Lake Powell and the Glen Canyon National Recreation Area. Lake Powell backs up 186 miles from the Glen Canyon dam on the Colorado river. There are more than 1900 miles of shoreline around the lake, much of it steep sheer canyons with multi-colored rock walls.

"Best vacation ever," is the way Earl Simonson (4122) described the experience, and he highly recommends the area to boating enthusiasts. Others in the party included Bill Colborne (4110), Bob Blount (4150), Dub Norwood (4122), Dick Siebenforcher (4152) and Mac McKay (4374) and their families. Twenty-nine people shared six boats.

In addition to sight seeing on the lake, waterskiing and fishing, the group explored Indian ruins, visited Rainbow Bridge National Monument, went hiking and rock hunting.

"Fishing wasn't too good," Earl said. "We only caught 18 bass in about two hours."

The group launched their boats at Halls Crossing, a wilderness area about 125 miles from the next gas station. They explored up and down the lake, putting about 50 hours on the boats.

"Beautiful clear water," Earl says. "We saw a few people but the lake is so big and there are so many canyons that you get the feeling of being remote from civilization. We had a great time."

## The Chase Is On . . .

# Dick Holland Combines Hobby With Vacations

Anyone that would drive 7500 miles to chase butterflies has got to be serious about it! Dick Holland is an electrical engineer in Radiation Effects Division 1933 and is also Curator of Entomology at UNM, and is indeed serious about his hobby of butterfly collecting. He has 10 to 15,000 specimens in the UNM collection, including his own earliest catch made in 1948. Last summer he discovered two new species while hunting near Durango, Mexico.

That discovery prompted his 7500-mile round trip to Guatemala during July and August this year. "I wanted to go farther south into new terrain and climate," Dick says, "to see if I could find additional butterflies or more about the ones I found the year before."

Accompanying Dick was a friend from Farmington, N.M., who speaks fluent Spanish, thus eliminating any language difficulty. Dick drives a Toyota Land Cruiser equipped with a large winch. "Fortunately, we had no trouble on this trip. We did help some people in an overturned VW on a flooded stretch of road in Mexico."

On the trip down they drove to Chihuahua, Durango, Mazatlan, Guadalajara and Oaxaca, Mexico, and then on to Guatemala City. They spent several days in Guatemala City and then drove into Honduras for a couple of days. Highlights of the Honduras excursion was visiting the Mayan ruins at Copan. On the return trip they drove to Mexico City and up the west coast of Mexico.

"We really spent more time in the small mountain villages in Guatemala than in the larger cities. The lowlands are tropical and the population centers are all in the mountains where it is much cooler. The villages are

pretty much isolated and the local mode of transportation is by foot. Most of the people are short — about 5'4" — some are friendly and some are hostile. We saw men with their machetes cutting wood and then carrying a 200-300 pound load on their backs. They raise a lot of corn and I think they must have to tie themselves to a tree to work up near the top of those steep mountain fields."

In addition to farming, their chief occupation is textile weaving. "They weave some beautiful materials and tapestries and it's done on small hand looms. I brought back some shawls and ponchos that are really colorful and very inexpensive," Dick says.

Back to the butterflies. Dick has no specific pattern in his hunt for butterflies. He limits his driving to less than 250 miles a day and spends four or five hours sight seeing. As he drives and spots a butterfly, he stops to check out the area. Butterflies tend to congregate around water and on hill tops, so these are the locations he looks for. "On all my vacations, I always take my net along, just in case," Dick says.

On past vacations Dick has driven to Newfoundland and the other extreme, Baja, California. "Last year I drove the length of Baja, camping out for 21 nights. We didn't encounter any bad roads this trip to compare with those in Baja." He has put 100,000 miles on his vehicle in six years.

Dick says the mountains of Guatemala are beautiful, but still the most scenic part of the trip was the drive from Durango to Mazatlan — a drop from 9000 feet altitude to sea level, with spectacular scenery.

Dick earned his PhD in electrical engineering from M.I.T. and has been with Sandia about five years. ●nt

## Sandia's Working Mothers

# The Daily Telephone Crisis

Talking with a working mother the other day, she disclosed one of the little-discussed hazards of holding down a job with one hand and tending a family with the other.

She called it the "telephone crisis."

At least once a day, the working mother is summoned to the business phone to hear the voice of her child say, "Mom, can I make a raft and mess around on the irrigation ditch with Jimmy?"

Struggling to keep her composure, the mother clutches her throat and mutters, "You leave the house, and I'll break your head!"

Said another mother, "If you want to find out how indispensable you really are, just get a job, and wait for the phone to ring. My kids have called me out of important business conferences to electrify me with such breathless questions as:

Can I split a soda with Kathy?

Guess what the dog dug up?

Did you wash my white shorts for gym tomorrow?

What was that white stuff in the bottle under the sink?

I got an 83 on my science test — isn't that neat?

Rick got his driver's license? Can I go with him to town and see how he does in traffic?

Can I spray-paint the cat?"

The working mother's telephone crises reach a fever pitch in the summer months when the children are at home. It's this sort of exchange that strikes fear in mother's heart:

First Voice: "Hello, Mom. This is Debbie."

Second Voice: "GIVE ME THAT PHONE! Mom, this is Wesley, and make her stop hitting."

First Voice: "You're gonna get it. I'm telling Mom. Mom, tell him it's his turn to set the table."

Second Voice: "I thought you told her she couldn't have 15 girls in here at once."

First Voice: "I'm telling. Mom, did you know . . . quit it! Ouch!"

Second Voice: "Aw, be quiet. You're not even bleeding much . . . Moomm!"

Click.

At this point, it's difficult to tell who is in worse shape: the bleeding child or the distraught mother staring in horror at the phone.

That's why it's called, "telephone crisis."

# Speakers

E.D. Jones (5214), "Hydrodynamic Behavior of Laser Interactions with Solids"; M.J. Clauser (5214), "Effects of Prelase on Laser Produced Plasmas"; N.C. Anderholm (5214), "Experiments on Laser Deposition in Carbon in the Regime of Thermoelastic Response"; G.W. Gobeli (5210), E.D. Jones and J.N. Olsen (both 5214), "Laser Irradiation of Solid Targets," Gordon Research Conference on Laser Interaction with Matter, Aug. 23-27, Beaver Dam, Wisc.

H.H. Wicke and J.M. Worrell, Jr. (both 1721), "Local Properties and a p-Space Analogue of A Theorem of Smirnov," Pennsylvania State University, Aug. 30-Sept. 3.

R.R. Sowell, N.J. DeLollis, H.J. Gregory and O. Montoya (all 5332), "Effect of Activated Gas Plasma on Surface Characteristics and Bondability of RTV Silicone and Polyethylene," and C.W. Jennings (5333), "Surface Roughness and Bond Strength of Adhesives," Symposium on Recent Advances in Adhesion, Sept. 12-17, Washington, D.C.

C. Arnold and L.K. Borgman (both 5511), "Chemistry and Kinetics of Polyimide Degradation"; R.K. Traeger (5511), "Thermal Aging of Poly(Imide) Films," Polymer Prints and American Chemical Society Meeting, Sept. 13-17, Washington, D.C.

B.L. Butler (5314) and T.R. Guess (5314), "Uniaxial Mechanical Properties of Some Carbon Fiber/Pyrocarbon Matrix Composites," American Ceramics Society Meeting, Sept. 12-15, St. Louis, Mo.

G.J. Thomas and C.J. Miglionico (both 5522), "Scanning Electron Microscopy Study of an Ion Etched Uranium Alloy," International Materials Symposium, UCLA, Sept. 13-17, Berkeley, Calif.

H.H. Pastorius (4540), "Managing to Promote Professionalism in Engineers," International Plant Engineering Conference, Sept. 16, Anaheim, Calif.

D.E. Ramaker and J.M. Peek (both 5234), "Asymptotic Analysis of the Dipole Transition Moments Involving the Electronic States of  $H \frac{1}{2}$ ," Midwest Theoretical Chemistry Conference, Sept. 24-25, Bloomington, Ind.

L.B. Smith (5233), "Sporadic E and Wind Profile Interrelation of Hawaii," Sporadic E Seminar, Sept. 13, Utah State University, Logan.

L.S. Nelson (5324), "Molten Aluminum Oxide," LASL Seminar, Sept. 14.

H. Romero (5531), F.J. Zanner (5535) and R.E. Fisher (5538), "Metallography of Mulberry," International Metallographic Society Meeting, Sept. 19-23, Denver.

R.L. Shuman (9344), "Flicker Facility," IMOG Subgroup on Environmental Testing, Dow Chemical Co., Sept. 21-22, Golden, Colo.

R.E. Trujillo (1742), "Inhibition of Spore Germination," Department of Biochemistry, UNM Medical School, Oct. 7, Albuquerque.

R.L. Fritz (9424) and R.D. Bentley (9482), "A Shock Hardened Delayed Transmission System for Transient Data Acquisition," International Telemetering Conference, Sept. 27, Washington, D.C.

W.P. Schimmel, Jr. (1222), "A Laplace Transform Method for Predicting Radiation Losses From A Laser Heated Foil," UNM, Sept. 28-Oct. 1, Albuquerque.

R.L. Schwoebel (5330), "Step Motion on Crystal Surfaces III," Electrochemical Society, Oct. 3-8, Cleveland, Ohio.

B.D. Hansche and C.G. Murphy (both 9462), "Strain Measurements by Holometry"; P.H. Adams (9331), "Strain Gage Measurements on Carbon-Carbon Cylinders"; J.H. Gieske (9462), "An NDT Investigation of the Behavior of Acoustic Emission from a Braized Metal to Ceramic Bond"; B. Stiefeld (9461), "Computer Based Large Area Data Display"; B.D. Hansche (9462), "Holographic Interferometry Applied to Radial Deformation Analysis in Spheres"; and C.G. Murphy, O.J. Burchett and C.W. Matthews (all 9462), "Video Detection of Real Time Interferograms," Conference and Test Measurements Symposium, Oct. 4-7, Chicago, Ill.

J.W. Reed (5644), "Some Averaged Measures of Tornado Intensity Based on Fatality and Damage Reports," American Meteorological Society Severe Local Storms Conference, Oct. 5-7, Kansas City, Mo.

K.R. Hessel (1441), "Uses of Photochromic Glass and Films in Optical Processing Applications," Fall



ONLY the Tech Area Fence prevented the Great Pumpkin and his friends from rising out of the pumpkin patch and rewarding all the good little kids on Halloween. Too bad, Linus. They are on duty as vacuum tanks, part of the Wind Tunnel Facility Bldg. 865.

Meeting of the Optical Society of America, Oct. 5-8, Ottawa, Canada.

J.T. Grisson (1412), "Energy Distributions of Ions from The Anode Plasma of a Pulsed Vacuum Arc"; F.M. Bacon (1412), "Plasma Electron Temperature Measurement Near an Anode Spot of a Pulsed Vacuum Arc"; J.C. Newton (1414) and J.T. Grisson (1412), "Vacuum Arc Anode Temperature Measurements"; G.W. McClure (1412), "The Plasma Potential Adjacent to the Vacuum Arc Cathode"; A.W. Johnson (5243), "Recombination of Electrons with Molecular Helium Ions"; and F.K. Truby (5215), "Low Temperature Thermal Electron Attachment in  $O_2$ ," Gaseous Electronics Conference, Oct. 5-8, Gainesville, Fla.

D.C. Smathers (9211), "Automated Spacecraft Logic Test Systems," UNM Chemistry Department Seminar, Sept. 28, Albuquerque.

J.C. Crawford (1410), "The Piezoelectric Field Effect: Application to a Strain Transducer," Conference on the Instrument Society of America, Oct. 3-7, Chicago.

A.A. Trujillo (5622), "Parachute Testing in a 1-Foot Supersonic Wind Tunnel," Supersonic Tunnel Association Meeting, Oct. 7-8, Huntsville, Ala.

R.M. James (5428), "In-House Training of the Computer Professional," P.H. Arnold and C.J. Fisk (both 5424), "Computer Picture Processing," Rio Grande Chapter of ACM, Oct. 9, UNM.

D.H. Loescher (5153), "The Oxidation of Erbium Metal," Rare Earth Research Conference, Oct. 10-14, Blacksburg, Va.

J.A. Borders (5111), "Applications of Ion Backscattering to Solid-State Research," Seminar at the Ford Research Laboratories, Oct. 15, Detroit.

M.R. Scott (5222), "A Relationship Between Green's Functions and Invariant Imbedding," SIAM Fall Meeting, Oct. 11-13, Madison, Wisc.

S.W. Key (1541), "The Transient Dynamic Analysis of Thin Shells by the Finite Element Method," and "Elastic Fracture Behavior of Thick Shells and Solids of Revolution," AF Conference on Matrix Methods in Structural Mechanics, Oct. 19-21, WPAFB, Ohio.

L.L. Bonzon (5222) and J.E. Powell (5223), "Neutron Yield and Angular Distribution from Hermes-II Composite Targets," Bonzon and J.B. Rivard (5222), "Radiological Dose Calculation Improvements," American Nuclear Society Winter Meeting, Oct. 17-21, Miami Beach.

K.H. Eckelmeyer (5531), "The Structure and Mechanical Behavior of the Mg-Mg<sub>2</sub>Ni Eutectic Composite," Fall TMS-AIME Conference, Oct. 18-21, Detroit.

D.M. Mattox and G.J. Kominiak (both 5332), "Structure Modification by Ion Bombardment During Deposition"; Kominiak and Mattox, "Structure and Properties of Thick Tantalum Deposits"; G.E. Laramore (5151), "Elastic and Inelastic Electron Diffraction from Solids"; R.L. Gerlach (5332) and A.R. DuCharme (5331), "Inner Shell Ionization of Surface Atoms by Electron Impact"; J.E. Houston (5332) and R.L. Park (5331), "Appearance Potential Study of the Band Structure of Transition Metals on Transition Metal Surfaces"; J.W. Reichardt (1413), "The Kinetics of the Hydrogen-Titanium Reaction"; J.C. Crawford (1410), "Field Effect Measurements During Deposition of Semiconducting Thin Films"; D.H. Loescher (5153), J.A. Borders (5111) and G.E. Pike (5152), "The Oxidation of Scandium," National Meeting of the American Vacuum Society, Fifth International Vacuum Congress and 1971 International Conference on Solid Surfaces, Oct. 11-15, Boston.

J.W. Nunziato (5131) and K.W. Schuler (5163), "Applications of the Shock Amplitude Equations for Nonlinear Materials to Shock Pulse Attenuation Studies," West Virginia University, Oct. 22, Morgantown, W.Va., and University of Florida, Oct. 29, Gainesville, Fla.

W. Herrmann (5160), "Recent Studies in the Dynamic Behavior of Materials," Southwest Research Institute, Oct. 25; University of Texas, Oct. 26; Southern Methodist University, Oct. 27; and Louisiana State University, Oct. 28.

D.K. Robbins (5454) and Philip Eyer (5421), "Photographically Increasing the Effective Resolution of the SD-4020," 10th Annual UAIDE Meeting, Oct. 25-29, Los Angeles.

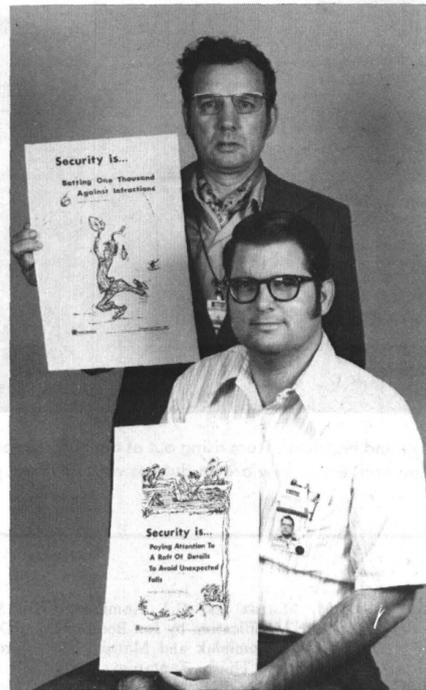
J.W. Nunziato (5161) and E.K. Walsh (Univ. of Florida), "Steady Wave Propagation in Nonlinear Thermo-Viscoelastic Solids," 42nd Annual Meeting of the Society of Rheology, Oct. 26, Knoxville, Tenn.

H.C. Hardee (1543), "Thermal Convection in Pave Pat Tanks"; D.O. Lee (1543), "An Analysis of Boosted Garlic Type Systems," and "Maximum Detonator Standoff Distance for a Successful Fuel Air Detonation"; Hardee and Lee, "Dynamics of Clouds Resulting from Ruptured Tanks of Liquefied Gases"; "A Thermally Boosted FAE System"; "A Simple Conduction Model for Skin Burns Resulting from an Incident Heat Flux from a Burning Pave Pat Fireball"; "Pave Pat Burn Effects Model," First Fuel Air Explosives Conference, Oct. 27-28, Eglin AFB, Fla.

S.G. Varnado (1441), "Recent Advances in Tunable Dye Lasers," EE Graduate Seminar, Oct. 28, Mississippi State University.

# LIVERMORE NEWS

VOL. 23, NO. 22 LIVERMORE LABORATORIES NOVEMBER 5, 1971



"SECURITY IS" CONTEST — Tom Grayson (8254), right, submitted the winning caption for September, "Paying Attention to a Raft of Details to Avoid Unexpected Falls," and Dan Pegan (8168) won for October, "Batting One Thousand Against Infractions."

## Livermore Employees

### LEAP Contributions Exceed \$35,000

A total of \$35,229 has been contributed by employees to the recent Livermore Employees' Assistance Plan (LEAP) fund drive. The figure represents an increase of \$1799 (or 5.4 percent) over last year's contributions of \$33,430.

The average gift per contributor was \$44.15, a 10.5 percent increase over the 1970 contributions of \$39.97. Employee participation in LEAP was 81 percent, and of those contributing, 24 gave one percent of their annual salary, while 103 contributed a LEAP share (one hour's pay per month).

Ralph Cozine (8410), this year's Chairman of LEAP, commented, "total contributions were up even though the number of employees on roll has dropped about 30 from last year."

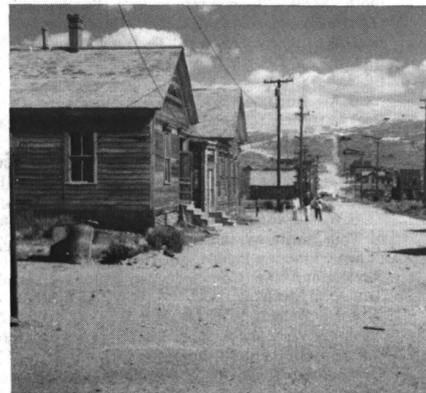
"On behalf of the five local agencies, CHAD with its 12 members, and UBAC with its 189 members who receive our support through LEAP, I express my sincere thanks to each of you who contributed during the fund drive," he continued. "I also extend my appreciation to the employees who worked on the committee and the squad leaders and solicitors for their efforts in making the drive a success."

## True Ghost Town

### Touring Northern California

A true ghost town, preserved in a state of "arrested decay," describes Bodie, now a California State Historic Park. Located 13 miles east of US Highway 395 (near Mono Lake), on unpaved road, this unrestored ghost town was the site of a gold discovery in 1859 by W.S. Bodey, after whom the town was named. Once the thriving metropolis of Mono County, Bodie mines produced gold valued at more than 100 million dollars. In 1880 over 10,000 people lived here and crime was common. The "wickedest men, the wildest streets, and the worst climate" was Bodie's boast.

Fires in 1892 and 1932 took their toll and now only about five percent of the town remains. You may walk through the main part of town which includes the church, jail, two-room school, Miners Union Hall (now a museum) and hillside cemetery with monument to James A. Garfield. Picnicking facilities are available.



BODIE, CALIFORNIA, a genuine, certified ghost town. Three ghosts stroll up Main Street.

## Livermore Retirees Renew Acquaintances

A festive air prevailed when Sandia retirees from the Bay Area and other parts of California gathered recently to renew acquaintances.

The occasion was the sixth annual retiree luncheon meeting, held this year at the Sunol Valley Golf Club near Livermore. Featured program speakers were President John Hornbeck and Charlie Campbell, Vice President, Administration 4000.

We talked with some of the retirees and came away with the impression that most are highly enthusiastic about their way of life.

Emily Burkhalder, who retired a year ago last April, moved to Grass Valley. "I just love it up there, living in our mobile home! This summer we travelled all over the country including the East, also attended a convention in Oklahoma City — pulled our travel trailer over 7500 miles. Had a marvelous time! I'm having no problems with retirement — feeling great and enjoying life."

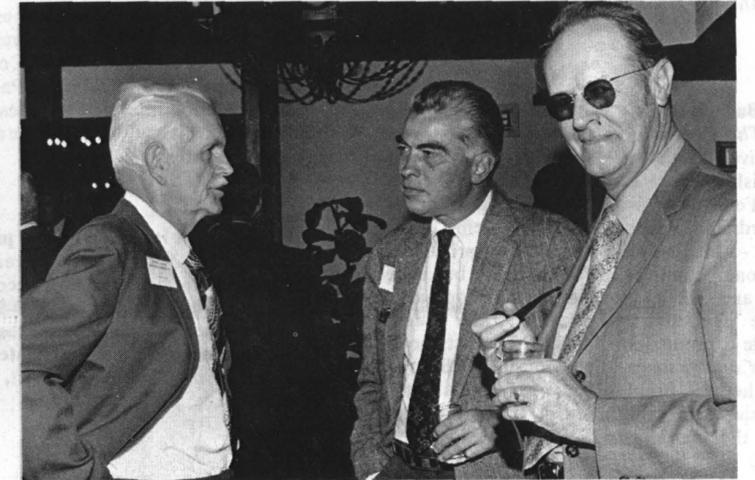
Frank Moore — "Retirement is great, if this get-together today is any sample! Actually, since retiring just this past June, I've enjoyed being at home, although I'm doing nothing but jobs like painting the house and working in the garden. I haven't encountered any problems so far. In fact, I find the monetary part is a little better than I expected; plus, just yesterday, I got a dividend on my AT&T stock from Sandia's savings plan. I don't believe I'd do anything differently if I had it to do over. We've got a little property up on the coast at Mendocino where we're thinking of building a house. Then, when my wife retires, we'll move there to get out of the high tax area."

Wil Williams who retired in 1965 has patented a device called a natural gas saver. "My associate is here from New York to help me get things going. The device will be sold to people who use great quantities of natural gas — not the home consumer. Within three months we'll be making an announcement on the patent in a technical journal."

Gil Rhodes — "I'm not enjoying my retirement one bit — I've been working my tail off since I retired a year ago last June. Right now my main client is the City of Oakland, — I'm their safety director. I'm also safety director for the East Bay Regional Park District. The third thing occupying my time is I'm training director for the National Safety Council, and have developed about six courses for them. In fact, I must get back this afternoon to one that's running at the police academy in Oakland. Truthfully, I haven't had a vacation, nor a holiday off, since I left Sandia. However, if I had it to do over, I wouldn't do anything differently because I'm actually enjoying it very much."

Roy Adams — "I like my leisure time since I retired two years ago — not being regimented into an eight hour day anymore. Really enjoy sleeping late in the morning, then getting up and going to town. Also like the travel arrangements I've been able to make, enabling us to get to so many different countries (Roy's reply to the retiree luncheon invitation was mailed from Russia).

Glenn Thornburgh — "I spend a lot of my time on lapidary work, making jewelry, not for sale but for friends. Right now I'm



(l to r) Top Row: Emily Burkhalder and Mr. Burkhalder, Tom Cook (8000), Roy Adams, Mickey Rindone (8432), J.A. (Smoky) Culver

Center Row: Frank Moore, John Hornbeck (1), John Kane, Les Rowe, Wil Williams

Bottom Row: Glenn Thornburgh, Jim Henderson (8236), Gil and Mrs. Rhodes, Irv Ellicott, Stan and Mrs. Krell, Mrs. Ellicott

working with shell cameo, but have done work with rubies and sapphires and, recently, emeralds. I also help out at the Indio (Calif.) water reclamation plant."

John Kane — "Am enjoying not getting up in the morning nor going to bed at night; I

never liked doing either, so now I don't. If I had to live my retirement over, I wouldn't do anything differently; but then, I've only been working on it for a year and a half, so I'm just getting started. We do a bit of driving — took a 6000-mile trip this year and a 7000-mile one

last year back to Ohio and around. The end of this week we're going up along the Oregon coast for a few weeks. Haven't had any problems with retirement except that it didn't come soon enough." • ls

# Credit Union Reporter

Earl Simonson (4122)  
Credit Union Executive Committee

For the third consecutive quarter the Board of Directors has declared a dividend at the annual rate of 6 percent. Member accounts were credited on Oct. 1, based upon share balance of record as of Sept. 30.

\* \* \* \*

**Football Tickets** — Three pairs of tickets to the Lobo's home games are being awarded, by lottery, to Credit Union members. Tomorrow, Fred Duimstra (1321), Don Barack (7143), and Helen Pipher (7412) will watch UNM thrash U. of Utah. A similar ticket program is planned for the Lobo's basketball games and the Albuquerque Dodger's games. In Livermore, tickets will be awarded to games by the Oakland Athletics and the 49'ers for next season.

\* \* \* \*

## CU Bulletin Board

**The Federal Register and the Consumer** — Five times a week the federal government publishes a type of house organ that's called the Federal Register. In it our government records all sorts of dry-as-dust items, "Part 910 - Lemons Grown in California and Arizona, Limitation of Handling," but every now and then an issue contains a proposal by some regulatory agency such as the Federal Trade Commission that is, or at least should be, a real grabber to the consumer. Because whether the proposal becomes regulation in its existing or modified form, the marketplace and the consumer's involvement in it are likely to be affected. For example, a Department of Transportation proposal in a recent edition stipulates the use of an ignition interlock with seat belts in automobiles — the car won't start unless the seat belts are fastened.

Another somewhat more ambitious proposal by the Department of Transportation calls for a new Consumer Information regulation, "Uniform Tire Quality Grading." This regulation would require manufacturers of tires for passenger cars "to grade each tire with a number that indicates how well the tire performs, based upon specified tests, in each of four areas of performance. These are high speed performance, endurance, road hazard resistance, and uniformity and balance." If you've been shopping for tires and find that the Super-Premium-Golden Turkey tire you've been considering is actually the maker's third line model, you may — like the DoT — feel that some more objective measure of a tire is needed by the consumer.

One of the purposes in listing proposals in the Federal Register is to elicit comment from the public, either in person — at the scheduled hearing — or in writing. It turns out that the hearings tend to be dominated, not by the consumer, but by the concerned manufacturers. The reason is simple: manufacturers know about the proposals which affect them (they read the Register) and the average individual consumer does not. But



as a citizen you have as much right to voice your view of the proposal as the manufacturer.

If you are interested in Federal Register items affecting the consumer, drop by the LAB NEWS or credit union office where copies of selected items will be maintained. Currently, we have copies of these proposals: Undelivered Mail Order Merchandise and Services (Federal Trade Commission); Occupant Crash Protection in Passenger Cars (DoT, ignition interlock with seat belts); and Uniform Tire Quality Grading (DoT, described above).

\* \* \* \*

**As part of its normal audit procedure, the Supervisory Committee recently mailed statements to members with account numbers from 6000-6999 and from 9000-9999. If your account number is in either of these series and you have not received your statement, please notify Karl Waibel (4117), committee chairman.**

## Events Calendar

- Nov. 5** — Community Concert Series — San Antonio Symphony, 8:15 p.m., Popejoy Hall.
- Nov. 5-6** — Council of Albuquerque Garden Club's "Holiday Ideas Show," 10 a.m. - 9 p.m., Holiday Inn East.
- Nov. 9** — UNM Speakers Program, Pierre Salinger, former press secretary to Presidents Kennedy and Johnson, Popejoy Hall.
- Nov. 12** — Harvest and Corn Dances, Jemez Pueblo.
- Nov. 12** — Flag, Deer or Buffalo Dances, Tesuque Pueblo.
- Nov. 13** — Albuquerque Symphony Orchestra, soloists — The Modern Jazz Quartet, 8 p.m., Popejoy Hall.
- Nov. 14** — "To Be Young, Gifted and Black," Broadway Touring Co., 8:15 p.m., Popejoy Hall.
- Nov. 16** — UNM Speakers Program, Gabrielle Semel, member of United Socialists, Labor Organizer for Women, Popejoy Hall.
- Nov. 17-21** — Gilbert and Sullivan's "The Gondoliers," UNM Rodey Theatre, 8:15 p.m., Keller Hall.
- Nov. 19** — Los Angeles Philharmonic, Zubin Mehta conducting, 8:15 p.m., Popejoy Hall.

## Vista NEW MEXICO

### Albuquerque—There's Been A Few Changes

The drawing of Albuquerque on the opposite page was made in 1886 by Augustus Koch and is now in the possession of Professor Marvin May of the Civil Engineering Department at UNM. He reports that William Keleher, Albuquerque attorney and noted historian, states that the drawing is an excellent sketch of the city as he recalls it from his boyhood here.

Note especially these features: the round house and shops (lower left) of the Atlantic and Pacific Railroad (the Santa Fe's are still there); "Railroad Avenue" — now Central — which carried horse-drawn trolley cars, as did First Street; the New Mexico Fair Association's race track near Old Town. Mr. Keleher says that the bridge over the Rio Grande was a privately-owned toll bridge which later was washed away. The San Felipe Hotel at Fifth and Gold, the most impressive building in town, was the site of the first meeting of the newly-formed Board of Regents of the University in 1889. It burned down in 1899.

Professor May points out the many smoke plumes evident on the drawing. "Even in 1930 when we moved to Albuquerque, this was a smokey place. Between the railroad and other industry and the residential use of coal, a lot of smoke was being generated. Of course it wasn't called 'pollution' in those days. . ."

Broadway and the three streets to the east are the work of the Huning family, an important family of the period. Arno, Edith, and Walter were the first names of Huning children. And, according to Prof. May, High Street was so-called "because that's as high as Mr. Huning figured the city was going to go up the hill." • js

## Promotions

Frank Arellano to Staff Assistant Technical, 5335  
Leo Baca to Computer Facilities Clerk, 5411  
Dorothy Bliss to Library Assistant, 3142  
Edwin Bush to Technician, 7131  
Michael Finley to Computer Facilities Clerk, 5411  
Mavis Flower to Library Assistant, 3142  
John Gabaldon to Lab Assistant, 9331  
Paul Gallegos to Reproduction Service Clerk, 7631  
Fidel Gonzales to Laborer, 4514  
Edna Harper to Chartist, 3155  
Sharon Kelly to Secretarial Steno, 8137  
Pauline LaForest to Technician, 7133  
Florenio Mora to Laborer, 4514  
Danny Rhoden to Mail Clerk, 3148  
Rosendo Saavedra to Technician, 7131  
Melvin Smith to Technician, 7131  
Russell Smith to Data Reduction Clerk, 9425  
Mary Snodgrass to Secretary, 3520  
Michael Spencer to Staff Assistant Technical, 7153  
Mary Woods to Administrative Clerk, 3341  
Donald Stuart to Staff Assistant Technical, 7152



## Ralph Schellenbaum Builds Sailplane



RALPH SCHELLENBAUM (9226) flies his home-built sailplane at Moriarty. He's flown it to 14,000 feet in rising air currents, reports that it "handles beautifully."

Soaring silently in the clouds above Moriarty, Ralph Schellenbaum (9226) feels on top of the world. The moment is the culmination of three years of after-hours work and the fulfillment of a project dreamed of since high school.

Ralph is flying a Cherokee RM sailplane which he built from plans purchased almost four years ago. The craft represents hundreds of hours of work.

It is a graceful gliding white bird, a pretty thing with a thin 44-foot-long wing which provides a 30-to-1 glide ratio. For every foot of altitude lost, the sailplane glides 30 feet horizontally.

Ralph flew the sailplane for the first time last month. He was pulled at low altitude by a tow rope behind a car. After checking the trim of the control surfaces, he was then pulled to 4000 feet behind a tow plane for release. Average release altitude is about 2000 feet. A sensitive variometer tells Ralph when he is in an updraft and the trick is to stay with rising air currents. He's flown up to 14,000 feet this way.

"It's a great feeling," Ralph says. "Soaring is in many ways different from flying a powered airplane — much more fun, much more interesting."

Ralph built a sailplane while he was in high school but the project failed for lack of money for materials. He did complete the craft, covering the framework with paper rather than silk or fabric with aircraft dope, and got it airborne by running down a hill towing the craft behind him.

"At the time," Ralph says, "I promised myself that someday I would fly in my own sailplane."

In the years since, Ralph has built many models, including some outstanding radio controlled model planes.

"Most of the skills learned in building models transferred to the fullscale sailplane," he says. "The construction is the same, just bigger."

Ralph is a member of the Albuquerque Soaring Club which maintains hangar facilities at Moriarty, one of the best locations for soaring in the country.

Any weekend you can see several sailplanes above the town. Ralph Schellenbaum is probably the pilot of one of them. •dg

## Ma Bell Moves Out on Paper Recycling

A System-wide practice of recycling old telephone directories has been recommended by the Bell System Physical Pollution Control Committee.

And steps are being taken to pave the way for such a program.

It would be the first of a three-part waste paper program urged by the committee. Under consideration also are plans that would include the recycling of Western Electric and operating companies' waste paper, and the rewriting of virtually all Bell System paper specifications to require that new paper include a percentage of recycled fiber.

The committee urged that operating companies first give their attention to old phone books because they comprise a high percentage as well as the most visible part of the waste paper generated by the Bell System. Pollution from solid waste is of mounting national concern — refuse is increasing while landfill sites are vanishing.

Last year 166 million phone books were printed for the Bell System. Using 430 million pounds of paper, the directories required the pulp of 3.6 million trees, or 300 square miles of timber. Paper used for directories amounted to about one percent of the nation's total paper production.

In setting forth the recommendations, a report of the Bell System Physical Pollution Control Committee observed:

"We must establish a new 'ecological ethic' on a corporate level to satisfy a public that demands new values in our society. While industry creates only a portion of the total pollution problem, it is clear that industry has a key role to play in the national clean-up. It will require the use of all existing technology as well as new ideas and approaches and perhaps even new technology, in addition to vast sums of money to do an effective job to control the effects of pollution upon our society."

## **Take The Secondary — Where Life Can Still Be Beautiful**

Back in the mid-fifties when we moved to New Mexico from the crowded East, we were bemused by the irritation of New Mexicans over what they considered to be the outrageous traffic conditions, especially on holiday weekends. Their idea of “traffic,” it seemed to us, was to meet a handful of cars. On our trips into the countryside then, we were usually happy to see another car — it was reassuring.

More recently, however, we drove through northern New Mexico and southern Colorado, and the recollection of that trip now seems largely an image of tourists in rumpled Bermuda shorts with instamatic cameras at the ready and clicking furiously. We began to understand a little better how those New Mexicans felt back in the '50s.

Shortly after this trip, a friend proposed a Labor Day weekend outing. It didn't really sound too promising, but we went and I am happy to report that the solitude, the beguiling primitiveness is still there if you are just a little selective in your choice of routes. We didn't keep a head count, but during the three-day weekend we saw few people at our campsites and little traffic on the road. Our one principle of travel: take secondary or worse (?) roads wherever possible, even at the cost of extra mileage and a little extra wear and tear on our vehicles.

On Saturday, the first day of our three-day outing, we travelled north on Rt. 10 after leaving a busy Interstate 40 (old 66). Most Sandians have been through the old mining towns along this route — Golden, Madrid, and Cerrillos — and I noted that all are beginning to exhibit the artsy/craftsy syndrome, which is either good or bad according to your tastes. A few miles north of Cerrillos, it's possible to take a pretty good dirt road east to Galisteo, where they make ski parkas (really) and have a citizen named Burl Ives who sings about the place. We didn't see Burl.

Our plans were to head into the mountains above Mora, so the next few miles covered the main highway into Las Vegas (Rt. 85). Route 3 out of that town in a secondary road which ascends as you approach the village of Mora. Mora is small, mildly interesting, and the people are congenial. When we asked directions to the cabin of a friend who had retired to Mora, several people told us on several occasions what they thought we wanted to hear, e.g. “Oh yes, this is the way to that place.” This is a charming and gracious trait, but it is not calculated to always deposit you at the desired location, and we were some 25 miles wide of our mark before we realized it.

But the countryside was pretty, the dirt road was reasonably good, and we were getting into the high country above Mora and the community of Chacon (Rt. 121). There was no traffic. This road would ultimately take us about 30 miles north to Agua Fria, more recently known as Angel Fire. The vegetation and the view on the high points suggested we were well over 10,000 feet much of the time, but before reaching these elevations we camped for the night in one of



**VIEW FROM TOPSIDE** — There is a special brilliance of sky and scenery above 10,000 feet. This is near Angel Fire. Bushes in foreground were wild raspberry — very good eating.

the meadows next to Luna Creek, which was running clear. Lots of deadfall gave us wood for the fire, needed for cooking but even more so for warmth — our canteens froze during this night in early September.

If you take this road, I would advise a pickup or VW bug at the least. While mostly good, an occasional stretch combines steepness, rocks, and gullies.

Next day, after leaving this road at Agua Fria, we continued north on Rt. 38 through what must surely be one of the loveliest valleys in New Mexico. Lying at the base of the east slope of the Sangre de Cristo range, its broad grassy floor runs northward for miles. Following this route, again with little traffic, we passed through Eagle Nest which gained the distinction last winter of being the coldest place around — minus 47° (they're still talking about it). Then, in another 20 miles or so, Red River, which appears to be competing with Ruidoso for the “Little Texas” title.

We camped that night in the woods near the fish hatchery, just south of Questa. The campground at the hatchery was appalling — barely space to squeeze between all the campers, trailers, tents, etc. But if you will carry just a little water, the woods of New Mexico are full of choice camp sites. We pulled off the road perhaps a quarter mile and spent the night under Ponderosa pines, totally alone.

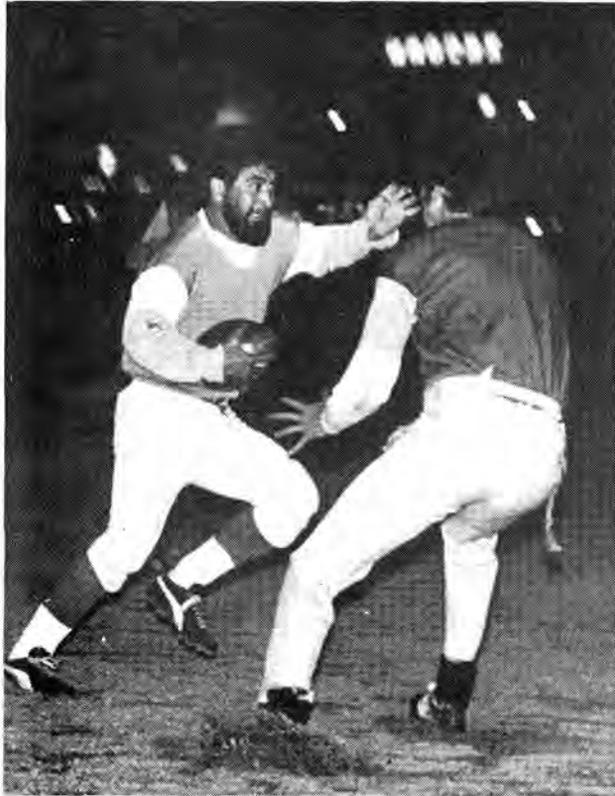
Our route on the final day was especially scenic. Leaving camp early Monday morning, we drove south the few miles to Taos just after sunrise, mountains to the east and the Rio Grande Gorge to the west. We were again able

to leave the main highway by taking Rt. 3 out of Ranchos de Taos. This recently paved secondary road offers magnificent vistas as it ascends U.S. Hill (that's its name) and joins Rt. 75, another secondary.

The next 40 miles or so were the subject of a recent article in the NEW MEXICO MAGAZINE. I believe its title was “Take The High Road” and the author, among other things, advocates some special protective status for the road and its poetically-named villages: Rio Pueblo, Panasco, Chamisal, Las Trampas, Truchas, Cordova, Chimayo, Cundiyo, Nambe, Cuyamungue and Pojoaque. We agree. Apart from the inevitable junked car in back of the houses, the villages appear little touched by the 20th century — not exactly pretty but genuine. In the name of their preservation, perhaps the State could embark on a program of tearing up the hard surface roads in these picturesque areas; the resultant dirt roads would discourage excessive numbers of tourists and inhibit the development of yet more frozen custard stands.

After driving through a crowded Santa Fe and onto Interstate 25, we were able to turn off this busy highway onto Rt. 10 about a dozen miles south. Once again there was no traffic. Indeed, we lunched beside this road in a grove of cedars and perhaps 10 cars passed during the period. The northeast slope of the Sandias — the one we don't see from Albuquerque — dominates the view driving south on Rt. 10. As New Mexico mountains go, the Sandias stack up scenically with any in the State, and this vista provided an appropriate high note as our trip concluded.

## FUN & GAMES



**The Name of  
The Game Is  
Flag Football!**



Herb Filusch (9213), on the ground, is either praying or looking for a contact lens.

Joe Maez (7131), left, hopes for a miracle as Ralph Trujillo (1742), Jim Landavazo (7131), and Ted Garcia (5411), close in. At left, Buddy Sanchez glowers at opponent.

-- Norma

## STROKE: *Still Prevalent in the U.S.*

*By Sheldon Bliss  
Sandia Medical Director*

Heart disease and strokes are the leading causes of death in the United States. However, a surprising number of people do not know the difference between the two conditions. While it is true that both are diseases of some part of the blood vessel — or vascular — system, anatomically different areas are involved.

Heart disease usually means a “coronary” or “myocardial infarction” and is, obviously, an affliction of the heart muscle itself. Strokes, on the other hand, are vascular diseases in the brain rather than the heart.

Strokes (or, to give them their more technical medical name, cerebrovascular disease), considered by themselves, are the third most common cause of death in the United States. Lethal and non-lethal strokes may very well be the most prevalent of U.S. diseases since approximately two-million people (that’s one percent of our population) are afflicted.

Strokes are of two chief varieties: one is the result of cerebral hemorrhage which follows the rupture, or “blowout,” of a blood vessel in any part of the brain; the other is caused by the gradual and complete closure of brain blood vessels (cerebral thrombosis) or the sudden blockage of one of these vessels by some foreign particle in the circulation

(cerebral embolism), such as a blood clot from the inside wall of a damaged heart.

The chief causes of strokes are high blood pressure and arteriosclerosis of the brain blood vessels. Infections, while a possible cause, are far down on the list.

Strokes are the commonest form of brain disease — being found in approximately 25 percent of autopsies even though they are not the chief cause of death in all of them. They occur in both sexes with equal frequency. While any type may occur at any age, cerebral hemorrhage is most common after age 50 and cerebral thrombosis after age 60. However, two-thirds of all strokes derive from cerebral thrombosis and only one-fifth from cerebral hemorrhage.

A stroke is not usually preceded by warning symptoms. When symptoms do occur, however, they include dizziness, nausea and vomiting, and a transient numbness or weakness of one side of the body.

Immediately after the stroke, however, generalized symptoms of cerebral malfunction are present, such as headache, nausea and vomiting, convulsions, and coma. Cerebral hemorrhage will usually be followed by headache, vomiting, and coma; cerebral thrombosis will often produce only coma.

Specific symptoms of brain damage will also be noted. Among these are one-sided paralysis (hemiplegia), loss of or alteration of

sensation of one side of the body, speech disturbances of varying degrees of severity and, sometimes, blindness in one eye.

The final outcome of a stroke depends on where it is and how large an area is involved. Sudden death is rare. When it does occur, death is more common after cerebral hemorrhages than after thromboses or embolism. Death in cases involving coma usually occur later, mainly because of secondary complications, such as pneumonia. Bad signs in any stroke case include persistent or recurrent coma, persistently high temperature, rapid pulse and labored respiration.

Generally, the person’s condition is worst soon after the stroke occurs, but improves slowly with the passage of weeks or months. Although it is not unusual to have some permanent weakness or paralysis, one really can’t tell how much residual damage will remain until at least six months have gone by.

How does one prevent strokes? That’s the multimillion dollar question to which much active research is being devoted in the U.S. The control of high blood pressure is essential — plus anything that can minimize the progression of arteriosclerosis, such as the control of diabetes, of elevated cholesterol levels and of cigarette smoking. Physical and emotional activities may also require moderation.

# Carbon Monoxide—'The Silent Killer'

"THE SILENT KILLER" may be loose in your house. This deadly criminal is carbon monoxide (CO), a colorless, odorless, tasteless gas produced every time a carbon-containing material burns.

CO combines with blood 200 times more easily than with oxygen. If you breathe air containing a normal amount of oxygen and a moderate amount of carbon monoxide, your blood will be starved for oxygen. When blood cannot supply oxygen to your brain, permanent brain damage or death may result.

Dangerous quantities of CO usually accumulate when a cool, slow fire burns in limited air. Since you can't see, smell, or taste it, the gas is hard to detect except by your

symptoms—drowsiness, headache, tightness across the forehead, confusion, nausea, and muscular weakness. CO poisoning may confuse you so that you cannot reach fresh air to relieve the symptoms and prevent serious injury.

## Prevent CO Attack In Your Home

- Have all heating systems checked annually for operating efficiency. Make sure that vents, pipes, flues, and chimneys are tight.
- Make certain that your heating plant is not starved for air.
- Be sure that all heating devices designed for venting are properly vented to the outside.
- Provide additional fresh air for charcoal grills and hibachis used indoors.

- Never tamper with ducts or vents of a heating device to get more heat out of it.

- Be sure that heating devices have been tested by a reputable firm. Follow the manufacturer's recommendations for installation and use.

- When changing types of fuel, ask a qualified service man to adjust all appliances involved.

- Don't close your fireplace damper until you are certain that the fire is out.

- Be sure that your garage is sealed from the house. Never run the car in a closed garage.

- Use your nose to detect smoke that often accompanies carbon monoxide.

## • SHOPPING CENTER •

**CLASSIFIED ADVERTISING**  
Deadline: Friday noon prior to week of publication unless changed by holiday.  
A maximum of 125 ads will be accepted for each issue.

**RULES**

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Laboratories and AEC employees only
6. No commercial ads, please
7. Include name and organization
8. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

### FOR SALE MISCELLANEOUS

CLARINET w/case, \$75. Peurifoy, 296-5907.

TINY, white toy poodle puppy, reg., championship bloodline, \$100. Priddy, 298-8912.

8 x 8 TENT, no rips or holes, \$20; 7.50x16 Ford 8-holes, split rim & tire, \$20; ladies western saddle, \$35. Larsen, 265-0004.

DOUBLE BED, Ethan Allen solid maple, model 10-5614 heirloom panel bed, \$45; 21" gasoline lawn mower, \$8. Bartlett, 299-4861.

BEDROOM SET, blond mahogany, double, headboard, footboard, 6-dwr. dresser w/mirror, \$50. Gorsline, 299-8571.

BRICK, used, common, about 400 seconds, \$6 for lot, you haul. Rainhart, 299-2887.

MINIATURE POODLES, white w/ traces of champagne beige, 11 wks. old, \$30. Jones, 268-2307.

CAMERA, Yashica electro 35-GT gold mecanica, case, tripod, new, \$115; swing-up camper door, 64" x 24", center glass missing, \$18. Bassett, 898-1840.

GOLF practice net, \$20; 16-lb. bowling ball, \$10; golf clubs, 2-8, SW, 1 & 3 woods, \$50; ping putter, \$10; electroputt, \$15. Mason, 299-2836.

LOCKING SKI RACK for station wagon luggage rack w/round or oval rails, \$10. Vivian, 299-1785.

SAMOYED PUPPIES, AKC reg., 6 wks. old Nov. 1, \$125. Emrick, 296-3527.

SNOWMOBILE TRAILER, Snowco, single, lifts & swivels for easy loading, lights & spare tire, \$125. Appel, 299-3776.

COMPLETE amateur radio station: Viking II transmitter, HQ-140-X receiver, HC-10 sideband adapter

& misc., \$500 for all or priced individually. Jones, 298-8492.

SWEDISH MAUSER 6.5 x 55, \$35; Erma 22 cal. luger w/extra clip, \$58; Colt Navy replica 36 cal., \$45; want 410 or 16 ga. Zaluga, 344-1564.

ALPHA REFLEX 35mm camera, 1.6 x 50mm lens, complete w/ meter & all accessories; 400mm telescopic lens & accessories. Simmons, 268-4648.

NATURAL finished mahogany kitchen cabinets w/built-in gas range, oven, hood & sink, all coppertone, \$250 complete. Jordan, 855-9376 after 6.

21" RCA TV, \$15; baby crib, \$10; heavy duty stroller, \$10. Doggett, 299-7957.

USED STORKLINE 6-yr. crib, mattress, frame needs minor repair & paint, \$10. Bishop, 299-8782.

FRIGIDAIRE 40" electric range, \$35. Munford, 296-4552.

STEREO console unit, AM/FM/SW radio, 4-sp. record changer, \$50. Rogers, 268-8682.

AIRPLANE NAV com system, all necessary channels, first \$50 buys. Crosby, 255-4737.

'71 ALJO 19 1/2' travel trailer, completely self contained, sleeps 6, winterized, \$2895. Parsons, 298-3053.

C.C.M. matched set ladies figure skates, screwed-on blades, w/guards, sizes 5 1/2 & 7, \$17.50 per pair. Marrs, 299-3865.

HAMMOND electric organ, \$575. Houghton, 8407 Haines NE, 299-6230.

LHASA APSO puppies, small Tibetan palace dogs, AKC reg., extensive championship background, White, 299-6411.

TWO VW wheels w/tires & wheel covers included. Shirey, 298-6362.

DUNCAN PHYFE drop-leaf table w/2 leaves, arm chair, 5 side chairs, tapestry seats, \$75. Stevens, 299-6086.

TWO H70-15 Goodyear polyglass snow tires, \$30; one H70-15 car tire, less than 3000 miles, \$20; 48" sled, \$3. Jones, 296-1755.

HANGING LAMP, walnut & gold. Hanson, 298-2120.

NIMROD hardtop camping trailer, sleeps 5, Coleman heater, 5000

BTU, spare tire, carpet, \$550. Radigan, 299-8345.

21" TV, Motorola console, swivel base, \$35; stereo, Admiral console, \$20; wood desk, single pedestal, \$20. Rauch, 296-5219.

SNOW TIRES, studded, Goodyear Suburbanites, G78-15, used one season, cost \$72, sell for \$40. Zownir, 256-3717.

SKIS, Head 720, 200cm, 1 yr. old, \$135; men's boots, 9M, \$20; Cubco binding, \$20. Barr, 298-3718.

TWIN BEDS; double bedstead; 3/4 beds; reasonable offers will be accepted. Campbell, 256-1015.

KONICA auto-S2 35mm slide camera, choice of fully auto. or manual exposure, speeds to 1/500 sec., fl.8 Hexanon lens, flash gun. Gorin, 298-3100.

NORWEGIAN Elkhound puppies, AKC reg., lovable & intelligent, champion bloodlines. Broyles, 344-3872.

17 1/2 KENSKILL self-contained travel trailer, 20-gal. pressurized water system, instant hot water heater, space heater, sleeps 6. Zimmerman, 898-1622.

308 CAL ball ammo, 5 cents per round. Wilkinson, 299-8327.

MINIBIKE, 49cc, street licensed, includes trail sprocket, car bumper carrier, \$185 or best offer. Binder, 299-2937.

175CC BENILLI, \$75; utility trailer w/high sides, \$50; Girard auto record changer, \$10; Suzuki 185cc, \$100. Shock, 877-3728.

'69 SET OF Golden Eagle mens golf clubs, 2-9 irons, pitching wedge, putter, 1-4 woods, bag, \$110. Nielsen, 255-2045.

MINI BIKE, 3 hp B&S engine, heavy-duty shock-absorbing front fork, bumper carriers included, \$130. Hart, 299-8832.

BRIDGESTONE motorcycle, 175cc, dual twin, 1967, low mileage, \$200. Deverman, 296-8317.

'71 HUSQVARNA, 360c Enduro, 8-sp., 2 mos. old, street legal, \$1000. Davis, 255-4976.

SEAR'S 23" B&W TV, early American cabinet, \$30. Coalson, 298-0061.

UNIVERSAL deluxe port. sewing machine, built-in button holer &

decorative stitches, \$45. Reichenbach, 344-9356.

SLIDE PROJECTOR, Revere auto., model 888 for 2x2" slides w/spare lamp, \$45; slide trays, 50 cents ea. Erne, 299-0565.

### CARS & TRUCKS

'59 FORD wgn., R&H, \$175. Gholson, 299-2663.

'70 BONNEVILLE sta. wgn., 16,200 miles, all power, AC, below book retail. Vittitoe, 299-9298 evenings.

'69 OPEL stn. wgn., 1900 cc engine, radio, AT, AC, 35,000 miles, \$1795. Schmierer, 299-2352.

'66 FURY III 6-pass. sta. wgn., AC, AT, PS, radio, 85,000 miles, avg. retail \$1075; sell for \$875. Shumway, 865-7160.

'71 VOLKSWAGEN sedan, 2300 miles, sell or trade for late model truck. Smitha, 299-1096.

'56 THUNDERBIRD new engine-trans. & brakes. Montoya, 242-7460 after 6.

'64 IMPALA 4-dr. Super Sport, factory air, PS, R&H, \$550. Marsh, 243-2767.

'59 RENAULT 4-CV Classic. Noel, 298-0151.

'67 SPORT FURY conv., 383 cu. in. eng., bucket seats, AT, AC, R&H, PB, PS, lt. yellow, 45,000 miles, \$1395. Ray, 298-0408.

'64 THUNDERBIRD Landau, full power, accessories & AC, new paint-valve job-starter, \$650. Pre-vender, 299-5253.

'64 1/2-ton FORD pickup, short wide box, 6-cyl., 3-sp., \$775. Navalesi, 344-0598.

'67 FORD Country Squire wgn., 9-pass., AC, AT, PS, PB, below book. Johnson, 255-5427.

'68 CADILLAC 2-dr. HT, new tires-battery-windshield, will consider trade for truck, tractor, sta. wgn. or ?. Gallegos, 898-1839.

'70 CAMERO Z-28, 4-sp., built-in stereo, bronze w/white stripes, \$400 & take over payments. Lucera, 242-5366.

'70 FORD 3/4-ton camper special w/8' cabover camper, all extras & low mileage; also dunebuggy-hotrod. Raymond, 268-7477.

'63 FORD Country sedan sta. wgn., PS, AC, R&H, \$225.

Steck, 299-2313.

'64 CHEVELLE Super Sport, bucket seats, 4-sp., 365 hp Holley, Hurst, Z-28 goodies & more, \$600. Ruminski, 242-5572 after 6.

'69 RAMBLER 2-dr., AT, AC, 6-cyl., 14,000 miles, \$1300. Rice, 298-3242.

'68 RAMBLER Rebel, \$1200, 4-dr., air, PS, V8, auto., orig. owner, book price \$1400. Stephenson, 299-3914.

'70 CORVETTE 454, AC, PS, AM/FM, conv. w/two tops, extra set of snow tires, 17,800 miles. Kuruzovich, 877-4143 weekends.

### REAL ESTATE

FOUR HILLS, view, landscaping, privacy, 3-bdr., 1 3/4 baths plus 1/2, den, dual fireplace, \$43,500. Butler, 242-5398 or 298-2893.

CAMPER-TRAILER LOTS at Elephant Butte, water, sewer & elec. hook-ups. Hansche, 296-1387.

1/2-ACRE LOT in Wells Sandia Manor, just north of 66 on west side of Sandias, flexible terms. Roache, 268-4686.

### WANTED

ELECTRIC GUITAR, used, good condition. Fisher, 299-9235.

RIDE, evenings only, Area I to 7110 Natalie NE. Neiswander, 294-1312.

ROUND TRIP RIDE, Phoenix, Thanksgiving & weekend, share expenses. Austin, 298-2010 after 5:30.

ORIGINAL manuscripts & tests related to psychology & education for publication & marketing. Ahr, 268-9495.

CHILD'S rocking horse on springs, good condition. Zanner, 265-0210.

TO LEASE winter pasture for 16 head of cattle & 2 horses. Causey, 299-0089.

SKI OUTFIT for 4-yr.-old skis: 3'6"; boot size 10-10 1/2. Bickle, 298-4836.

### WORK WANTED

CARS WAXED and hand polished, inside cleaned too, reasonable. Hubbard, 299-7818.



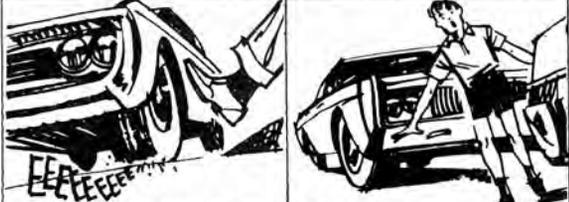
HERB FILUSCH (9213), Club entertainment director, booked a Thursday night Rock Session last month and it went pretty well, not as well as a regular Saturday night Soul Session, but the people who turned out turned on. So Herb (who is a tenacious devil) has booked another one for Thursday, Nov. 11. This one will feature Swartz (Top 3) and run from 7:30 to 10:30 p.m. with Happy Hour prices. Make Herb feel his faith is well founded. C'mon out and bugaloo or something. It's free to members, guests pay 50 cents.

\* \* \* \*

CORONADO FILM SOCIETY will show "The Red Balloon" and "The Wild Oat" on Thursday, Nov. 18, at 7:30 p.m. Both French films are in color and have won prizes at film festivals. "The Red Balloon," a childhood fantasy without dialogue won the Academy Award in 1956. "The Wild Oat" is a comedy starring Fernandel.

### THE SAFE DRIVER

EACH YEAR, SOME 9,700 PERSONS ARE KILLED AND 268,000 INJURED IN PEDESTRIAN ACCIDENTS INVOLVING AUTOS!

THE SAFE DRIVER IS ON THE LOOKOUT FOR PEDESTRIANS CROSSING AT PLACES OTHER THAN AT CROSSWALKS, WALKING ALONG THE HIGHWAY, STEPPING FROM BETWEEN PARKED CARS AND HITCHHIKING.

STATISTICS SHOW THAT CHILDREN UNDER 15 ARE PARTICULARLY UNMINDFUL OF TRAFFIC, ESPECIALLY NEAR SCHOOLS, SCHOOL BUS STOPS AND AT PLAY.

## Coronado Club Activities

# Happy Hours Extended

A redheaded doll named Shirley Dean, Coronado Club publicity director, breezed into the LAB NEWS office. "Baby, do I have news for you," she says.

You gonna buy our lunch?

"Better than that," Shirley says.

You'll throw in a beer?

"No," she says, "but the Club is giving everybody an extra hour of Happy Hour prices every Friday in November."

You mean that we can buy two-bit burbons from 5 to 10 p.m. every Friday in November?

"That's right, baby."

Shirley, you redheaded doll.

\* \* \* \*

TONIGHT's four-hour Happy Hour is featuring a traveling group called Jay and the Splendors who have played every place from Las Vegas to Jemez Springs. Jay bounces around a lot and sings rock, modern, and country western — very versatile and lively. They will perform from 7 to 10 p.m.

Seafood featuring rainbow trout will be spread for the buffet from 6 to 8 p.m.

From 9 to midnight Yolanda Adent will entertain in the main lounge with piano and sing-along.

\* \* \* \*

NEXT FRIDAY, Nov. 12, Frank Chewiwie will make the happy music and the Club's famous chuckwagon roast beef will top the buffet spread. On Nov. 19 Phil Graham will be on the Happy Hour bandstand and veal cutlets are set for the buffet.

\* \* \* \*

THE THING BUSINESS must be booming. All the kids are doing Their Thing and a lot of them will be doing it tomorrow night at the Club's Teen Go Go. Chuck Logan of KQEO will emcee the Thing and something called "Ghost Rose" will be wired into the bandstand from 7:30 to 10:30. Member parents should pick up tickets at the Club office.

\* \* \* \*

SOME 300 Club members will enjoy a New England seafood dinner on Saturday, Nov. 13. Ticket deadline was yesterday so those of you who dawdled, eat your heart out. Others will eat lobster, drink wine, and dance to the Top Hats.

\* \* \* \*

FOOTBALL BUSES will leave the Club for Lobo games at 1 p.m. on Nov. 5, 13 and 20. Leave your car at the Club, return after the game for a Happy Hour in the main lounge. No parking problems. The bus is free to members, guests pay \$1.

HOT PANTS and other holiday fashions from Omar's Boutique will be modeled during the noon hour Thursday, Nov. 11, by Soila Candelaria (1314), Peggy Stevens (5310), Claudia Garlick (5314), Sharon Mackel (5511) and Sylvia Vescovi. Yolanda Adent (9310) will provide background piano music.

\* \* \* \*

• dg



SOILA CANDELARIA (1314) is plugging two events in this photo — a noon hour fashion show at the Club Thursday, Nov. 11, which will feature five models in holiday hot pants, and a film society movie, "The Red Balloon," set for Nov. 18 at 7:30 p.m.