

Major Pension Changes Announced

New Retirement Plan

A new retirement plan for Sandia Laboratories' employees goes into effect July 1, 1975, incorporating the benefit structure of the Bell System retirement plan. At present the new plan covers only nonrepresented employees but will be extended to other employees as soon as negotiations with unions are completed.

Basic features of the new plan are:

1. No further contributions by employees
2. Annuity computation based upon high-five, rather than career average.
3. Retirement possible at age 50, with 25 years of service, or at any age with 30 years of service.
4. Increased survivor benefits.

Employees received details of the new plan in a bulletin distributed earlier this week. Each employee must decide whether to change to the new plan or remain under the old. Such an election must be made by July 31, 1975, and the decision is irrevocable.

Under the new plan the Variable Annuity Option is not available. It will be discontinued under the old plan as of July 1, 1975, but those who elect to remain under the old plan will have their retirement annuities computed on the basis of their variable annuity designation up to July 1.

Those who change to the new plan will have their annuity figured on the basis of the old and the new plans when they retire, and will receive the higher of the two annuities. In electing the new plan an employee must

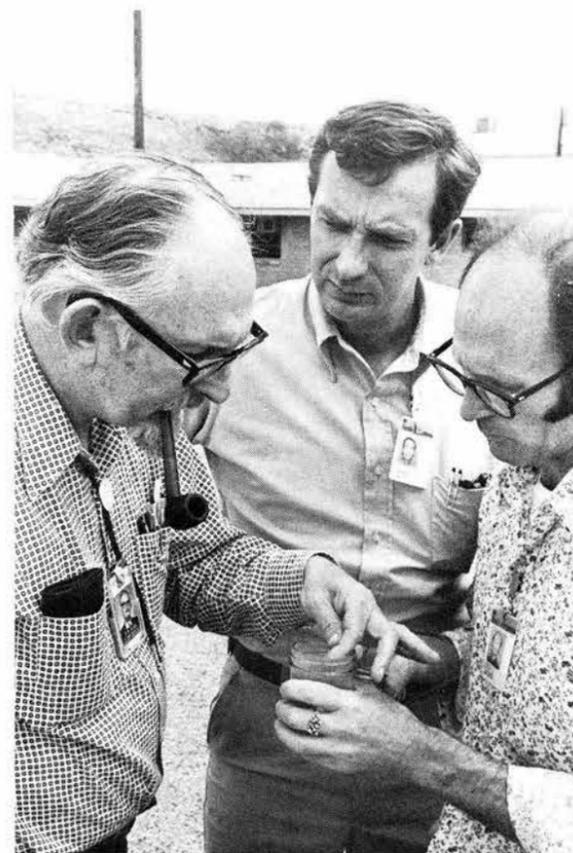
relinquish all variable annuity benefits and, in computing the comparison of benefits under the old and new plans, the annuity will be figured on a fixed dollar basis (as if the variable annuity had never existed).

Retired employees will be receiving notices informing them of the change in the retirement plan. Each of the retirement accounts will be recomputed, and the retirees will automatically receive any increase resulting from the high-five versus career-average calculation.

Employee meetings will start in Albuquerque and Livermore on June 16 to explain the new plan and answer questions. Makeup meetings will be held in July.

Whether an employee elects to remain under the old plan or change to the new one, there will be no further employee contributions to the retirement plan after July 1, 1975. All past employee contributions will remain in the plan. All employees will continue to be guaranteed the return of their contributions plus interest which exceed the benefits received, if any, upon termination or at death, before or after retirement.

While no promises can be made concerning the future, having adopted the benefit structure of the Bell System retirement plan, it is Sandia's intention to modify the plan in the future to reflect substantive changes made by the parent company. It is the present intent that the old plan will not be changed in the future except to meet requirements of new legislation.



GEOLOGIST Phil Dodd of ERDA's Grand Junction Lab discusses thorium bearing sands with Sandia's Gerry Smith and Ed Jacobs. The Sandians are investigating use of a pulsed neutron generator to "log" uranium boreholes. Full story on page five.



LAB NEWS

VOL. 27, NO. 12

JUNE 13, 1975

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



THE SENATOR AND THE CONGRESSMAN both made the Sandia scene late in May. Senator Domenici was speaker at a Sandia colloquium while Congressman Lujan, shown here with Bob Cover (1733), visited the Labs for a review of current programs.

Afterthoughts

Freudian slips--We may be in the energy business, but a certain accent lingers on. Seems that when our engineers want to say something like "100 kw output," it now and then comes out "100 kt output." If you want to see some real excitement, make that slip of the tongue in a public utterance about nuclear power reactors.

* * *

Opportunity--Feeling restive, under-appreciated, unfulfilled? OK, the LASL Bulletin of May 16 announces a job opening that may be just your cup of tea. The man the press likes to describe as "father of the H-bomb," Edward Teller, is retiring on July 1, and LLL needs a replacement. Your new title will be Associate Director for Physics at UC Berkeley.

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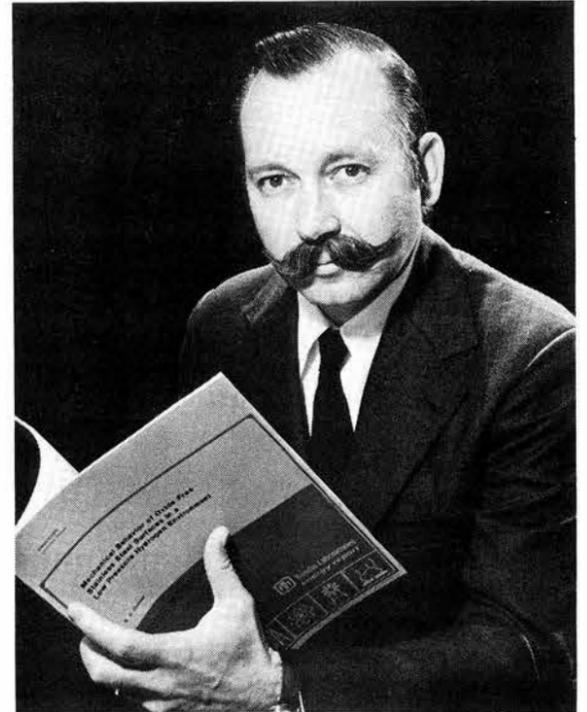
Those refugees--During the furor over our ability to care for Vietnamese refugees, we noted one juxtaposition on a newspaper page that put the problem in perspective. A few columns over from an article on the refugees was another article, headlined thus: "79,000,000 Americans Are Overweight."

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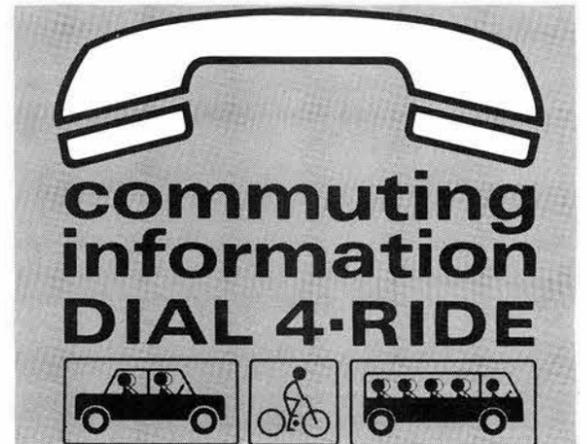
Clear days in Washington--Norma Taylor's (LAB NEWS) husband has some views on gun control, so he put them in a recent letter to a member of our congressional delegation (who shall forever remain nameless). Russ felt pretty satisfied about his letter, working within the system and all that, until he got the reply: "Thank you for your views on hot meals for the aged..."

* * *

When asked why he subscribed to both Playboy and the National Geographic, the middle-aged guy had a ready reply: "Because both show pictures of places I'll never see." *js



BOB CUTHRELL (5834) is one of 70 scientists invited to present a paper at a conference in Germany, sponsored by NATO, on Surface Effects in Crystal Plasticity. Bob's study is the first to examine under precisely controlled conditions the embrittling and corrosive effects of hydrides and hydrogen on atomically clean container surfaces. The study is expected to serve as a reference work in any "hydrogen economy" and in defining containers for the hydrogen used in nuclear power generating plants.



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Sympathy

To Mildred Hinds (3152) on the death of her mother in Oklahoma, May 29.

LAB NEWS

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gerse martinez lends a hand
&
lorena schneider reports on livermore



SANDIA LABS was one of the sponsors of the IEEE Symposium on Applications of Ferroelectrics held this week at the Hilton Inn. More than 300 persons attended the international meeting. Discussing the event before the first technical session were (l to r): Eric Cross of Penn State University; Cecil Land (5133), Symposium General Chairman; Walter Merz of the RCA Laboratories in Switzerland; and Bob Graham (5131), Local Arrangements Committee.

Speakers

Bob Reese (8366), "Structural Mechanical Considerations of Packaging Electronic Assemblies," 16th Annual Engineering Symposium, March 13, Brigham Young University, Provo, Utah.

Ben Odegard (8314) and John Smugeresky (8312), "Beryllium Research and Development at Sandia Laboratories," 1975 WESTEC Conference sponsored jointly by American Society for Metals and the Society of Manufacturing Engineers, March 10-13, Los Angeles, Calif.

Ron Musket (8334), Invited presentation, "Oxide Thickness Determinations on Tritiated Erbium Films Using Beta-Induced X-Ray Fluorescence," Symposium on Applied Vacuum Science and Technology, American Vacuum Society, Feb. 19-21, Tampa, Fla.

Monte Nichols (8314), "Characteristics of an Effective Computer Based Powder Search System," Spring Meeting American Crystallographic Association, March 9-13, Charlottesville, Va.

Harry Saxton (8314), "Structure, Strength and Fracture of Electrodeposited Nickel and Ni-Co Alloys," Annual Meeting American Vacuum Society, Feb. 10, San Francisco, Calif.

Walt Bauer (8334), Invited presentation, "Helium and Hydrogen Re-emission and Damage Effects in CTR Materials;" Pete Mattern and Jim Shelby (both 8334), "Deuterium-Hydrogen Exchange in Vitreous Silica;" Charles Hartwig (8342), "H₂ Solubility in Silica;" Cornelius Coll (8341), "Polaronic Effects on the Transport Coefficients of the Narrow Band Hubbard Chain;" and Mike Baskes and Bill Wilson (both 8341), "Helium Bubble Growth in Metals," March meeting of American Physical Society, March 31, April 3, Denver Colo.

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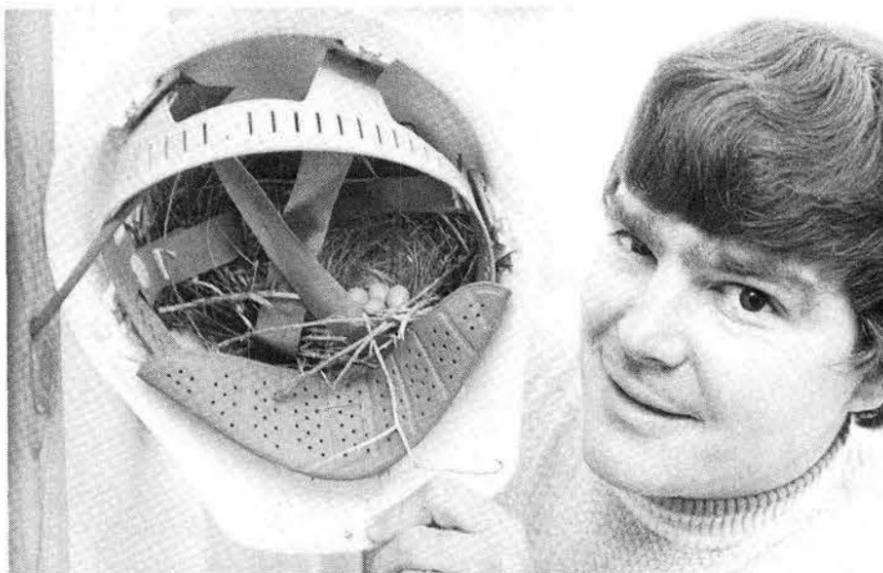
Sympathy

To Tony Zuppero (8342) on the death of his mother-in-law in Cleveland, Ohio, April 15.

To Harvey Pouliot (8116) on the death of his father-in-law in Minneapolis, Minn., April 28.

Congratulations

Carolyn Kersey (8212) and Wayne Townes (8257), married in Reno, Nev., May 24.



PETE WITZE (8115) lifted his hard hat off a nail on the wall of the Gas Dynamics Facility (Bldg. 976) in Area 8 to find this evidence of a prior visit. Mother sparrow returned a short time later to take over.

Take Note

Seventy-one employees donated blood during the annual Blood Bank Drive at Sandia/Livermore. Fifty-one pints went to the Sandia Blood Bank and 20 to Kaiser Health Care Plan. Training and Benefits Division 8214 coordinates the drive each year.

* * *

Jack Dini, Rudy Johnson (both 8312) and Dick Jacobson (8114), are authors of a chapter, "A Test for Quantitatively Measuring the Adhesion of Plated Coatings Under Dynamic Loading Conditions," in a new book published recently by the Electrochemical Society. Titled, "Properties of Electrodeposits, Their Measurements and Significance," the volume meets the need for a single reference source which summarizes and critically reviews the methods used to obtain data on the physical, chemical, mechanical and electrical properties of electrodeposits.

Livermore to Celebrate Old Fashioned July 4th

Livermore's second annual Old Fashioned Fourth of July celebration is a prelude to the Bicentennial. Planned by the Community Affairs Committee, the celebration begins at 11 a.m. with a parade featuring bicycles, floats and marchers who will be competing for ribbons in such categories as Most Patriotic, Beautiful, Original and Funniest. High school bands and other musical groups will also participate.

The parade route proceeds from Rincon School to May Nissen Park where an afternoon of entertainment is planned, plus free swimming from noon to 6 p.m. and, at sunset, a fireworks display at Robertson Park. Pack a picnic lunch and bring the whole family.

Sandians on the Committee include Bill Ormond (8261) and Dave Abrahams (8413), Bicentennial; Pat Childers (8261), publicity; and Marilyn Lane (8212), entertainment.

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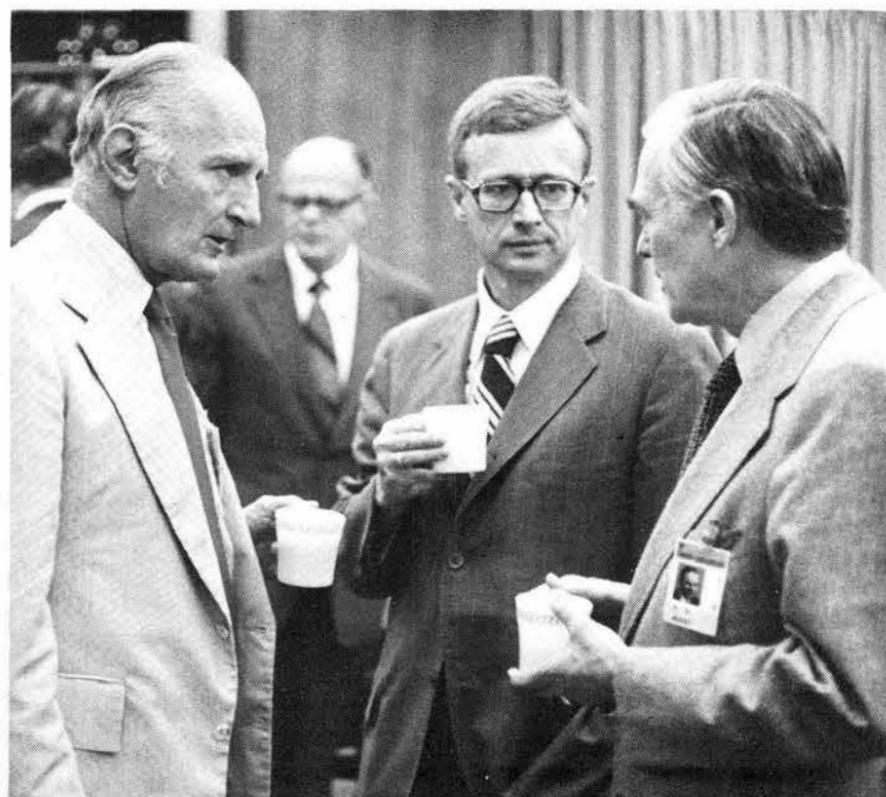
LIVERMORE LABORATORIES

JUNE 13, 1975

Board of Directors Meet at Livermore



SANDIA'S Board of Directors held their annual meeting at Livermore in late May. Shown here during a break are (upper left, from left) Bell Labs Exec. VP Don Thomas, Western Electric Pres. Don Procknow and Sandia VP Dick Bice (9000).



Pres. Sparks is talking with Sandia VP Klaus Bowers (2000) and Bell Labs Exec. VP Ken McKay.

Labs Scientist Reports from Germany

Last October Wil Gauster, a physicist in Org. 5111, accepted a nine-month appointment as guest scientist at West Germany's Nuclear Research Establishment in Julich. He's sent LAB NEWS some of his impressions of the country.

"Physics research is very much the same the world over, and when you first see a lab like the KRA — modern buildings in a campus-like setting, a few miles from a small town that is hard to reach by public transportation — it seems a lot like Los Alamos or Oak Ridge. There's the same type of equipment, a cafeteria that everyone complains about, and a lot of safety inspections. But after a while you realize that despite the great similarities, there are notable differences. All activities are highly organized and everyone, staff scientist or technician, has a very clearly defined role.

"I have the impression that government sponsored research here concentrates on a limited number of specialized areas and then tries to make a maximum impact by well-coordinated (and high quality) work. In my present area of radiation damage in metals, for example, the Solid State Institute here at Julich spent about seven years developing the worlds largest continuous X-ray source for diffuse scattering measurements.

"Aside from work, one of the first impressions is the high cost of living — especially if you live like a German. The veal you need for a good Wiener Schnitzel runs \$5 to \$6 a pound, a loaf of good German bread is about \$1, beer at the store costs 40¢ a bottle. A telephone runs \$13 a month if you don't use it (\$80 installation fee if the house is pre-wired); 10¢ per local call after that. Calls to the U.S. are a bargain if you dial direct and talk quickly: 10¢ for each 1.33 seconds.

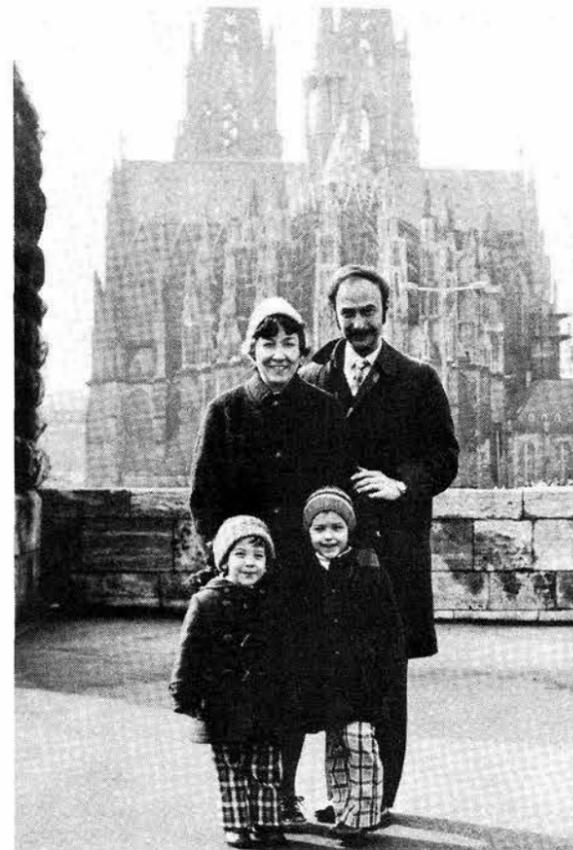
"The reason for all of this, of course, is that the dollar is valued quite low compared

to the mark. Prices are high, but salaries are about the same as in the U.S. so the standard of living in the U.S. is still considerably higher. The fluctuating exchange rate can make life interesting. Since we came here, the dollar has dropped about 15 percent, and it's a new experience to look in the newspaper to see what your paycheck will bring today.

"Life here is considerably more complicated for the housewife. Shopping involves going to a lot of different places and waiting at each, and most people do that every day. You begin to appreciate the quick-food places in the U.S. On the other hand, I don't find my 'intellectual' associates spending week-ends painting the house or building a den — or even changing the oil in the car. So perhaps as far as chores are concerned, women have an easier time in the U.S. and men in Europe.

"Julich is a pleasant town to live in, and we'll miss the neatness and the feeling of safety wherever you walk. There are lots of playgrounds for kids, and parks, so even if you live in an apartment you can get out (if you don't mind rain). Aachen, just a few miles west, is exceptionally beautiful.

"Like much of Germany, Julich is really quite modern. The reason is that it was 97 percent destroyed in a single air-raid (one-half hour) on Nov. 16, 1944. As a matter of fact, since the Counts, later Dukes of Julich, reached prominence in the 12th Century, the town has been completely destroyed six times. Only the large fortification of the citadel, last reinforced in the Napoleonic Wars, has survived. In the 1860's the citadel had outlived its military usefulness and an attempt was made to tear down the walls by firing at them with the new Krupp 24-pound artillery pieces — to no avail. So it still stands, houses a high school, and the ramparts are being restored and cleaned up.



THE GAUSTERS and the Cologne Cathedral

"Energy problems are greater here than in the U.S. In spite of the elegant Julich 'pebble-bed' reactor concept, coal is still important. Just north and west of here there is what must be one of the biggest strip mining operations anywhere. Several villages had to be moved, and the yield is to be 50 million tons a year until past the year 2000.

"It's been a very stimulating experience. In the areas of research represented at KFA, the facilities and people are outstanding. Changing the boundary conditions helps one to get a better perspective of life, whether it's in Europe or in the U.S."

FUN & GAMES

Sandia Bicycle Ass'n. — The Los Altos golf course man called to report that some bikers are making life difficult by riding their bikes on ramps, the overpass, and sidewalks. Walk 'em, please. Also, keep to the right when entering the parking lot — he says there's been a few near misses between cycles and other vehicles from disregard of this precaution.

Women's Bowling League — League champions for the '74-'75 season are The Fowls: Peggy Burrell (200), Jenny Cordova (9653), Reba Garrison (5710), Edwina Kiro (5241), and Dora Montoya (1542). The runner up team, The ?'s (sic) has these members: Helen Davison (4700), Thelma Harrell (4750), Margaret Lucas (5000), Helen Stake (5250), and Dorothy Pinkerton (ret'd.)

Sandia Runners Ass'n. — Don't forget the meeting next Monday, the 16th, of the Southwest Masters Running Club. Mark Percival (2411) and Pete Richards (5132) promise an interesting evening: election of officers, approval of by-laws, a showing of "Run Dick, Run Jane" — the film that discusses Dr. Cooper's aerobics, a door prize, and other items. The new running organization is anxious to sign up members of all running abilities, from wheezing joggers to marathoners, male and female, young and old. Attend the meeting at the Albuquerque National Bank, Washington and Central, at 7:30 p.m.

Ah Wilderness — Used to be when you wished to take a hike in a wilderness area, you simply packed up your kit and took off. It's not quite that simple now. The Forest Service has decreed you must have a permit to enter your wilderness. And you have to get the permit at the district office administering the wilderness of interest, and if you show up at

the office at 8 o'clock in the evening don't expect to find anyone home. We have a sort of directory/schedule in the LAB NEWS office of the various ranger district offices and their hours of operation. The new arrangement should certainly help reduce congestion in the wilderness areas.



"AS GOOD AS any in the country," says Leo Bressan (9532) of the new horseshoe pitching facilities just installed at the Coronado Club. Here he checks for precise stake angle while Bob Schuch (5226) does the calibrating. Left to right, Dan Padilla (1247), secretary-treasurer of the Sandia Horseshoe Assn.; Hugh Jones (3722), chairman of the C-Club's Capital Improvements Committee; Leo, vice-president of the association; and Bob, president of the association and prime (clay) mover for the project.

To Find Uranium Ore: Use A Neutron Generator

Sandia's expertise in neutron generators and the nation's ever-increasing need for uranium to fuel nuclear power plants are the two elements of a Labs program being substantially funded in this and next fiscal year by ERDA's Division of Production & Materials Management. Work on the program is centered in Product Engineering Division 2415 under Hugh Bivens, and a group consisting of Ed Jacobs (2411), Dal Jensen (2413) and Lucien Rice (2442). Gerry Smith (2442) has project leader responsibility.

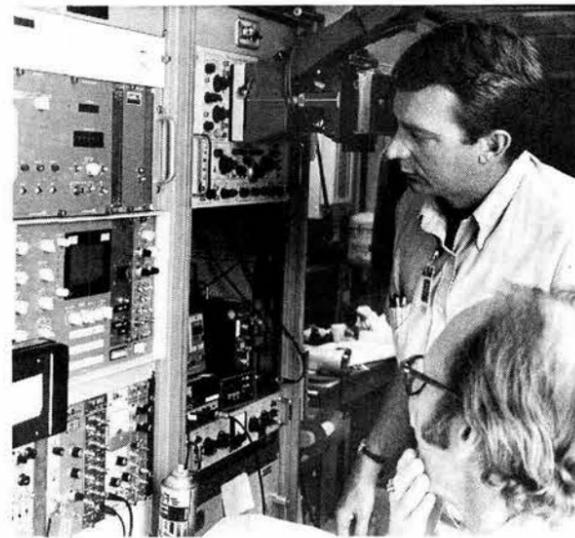
Basis of the program is the use of a pulsed neutron generator in a uranium borehole to give an accurate measure of the percentage of uranium present in the surrounding ore. The process is called borehole logging, and it is an extension of a technique widely practiced in exploration and mining. Borehole logging is much less expensive than the other principal method of characterizing an ore body — core drilling; in addition, borehole logging can give a more complete profile of the ore.

To date, the uranium mining industry has been able to log boreholes adequately with an instrument known as a gross count gamma ray probe. Gamma rays emitted during certain stages of the natural radioactive decay of uranium are counted, and a reasonably accurate assay is possible. But anomalies in

uranium ore bodies are common and incorrect readings may result; further, the effectiveness of the gamma ray log drops off when the ore concentration is around .05% and these low concentration ore bodies must be exploited as richer ores are exhausted. Although the pulsed neutron logging technique also becomes less accurate in the low ore concentrations, this effect can be offset by increasing the level of neutron irradiation.

Hugh explained how the neutron generator is used to log a uranium borehole. "Neutrons from the neutron generator cause fissioning in the uranium ore around the borehole. The neutrons from this uranium fissioning process can be identified by their time and energy characteristics, and the measurement of the number of these neutrons permit us to make fairly precise estimates of the uranium concentration."

Currently the feasibility of the Labs concept is being carefully checked out at the ERDA facility in Grand Junction, Colo. The facility offers a range of shallow test holes whose uranium content is accurately known. It is also possible at the facility to determine the effects on logging of other factors such as ground water. Results to date are highly encouraging, as evidenced by ERDA's funding of the program: \$156,000 through



TEST data from boreholes is processed in a small computer. The technique shows promise in exploratory work for other minerals.

this fiscal year and an expected \$350,000 for FY 76.

Hugh notes a potential for use of the pulsed neutron generator in other areas. "We may be able to offer a superior tool for the borehole logging of other mineral deposits — copper, silver, and the like. And there's interest in its use for the underseas monitoring of pollution. Sandia has been deeply involved with neutron generators for weapon use, but it's beginning to appear that these devices have many non-weapon applications none of us would have thought of a few years ago."

At the Labs, this concept of use of a neutron generator was developed in 1973 by Hugh as an outgrowth of an investigation into oil well logging. Hugh's director, Dick Claassen, had initiated a program of innovation within the 2400 organization and, thus encouraged, Hugh pursued the idea until it took its present shape. • js



ABOUT TO lower neutron generator probe into test borehole are, from left, Ed Jacobs (2411), Gerry Smith and Lucien Rice (both 2442). Borehole is one of group of known uranium content at ERDA facility in Grand Junction, Colo. Pulsed neutron generator techniques have successfully characterized uranium content of various boreholes.

Events Calendar

- Through June** — Barn Dinner Theatre, "Cactus Flower," 281-3338.
- June 13-15, 19-22** — Old Town Studio: Neil Simon's "Last of the Red Hot Lovers," 8 p.m.
- June 14** — June Music Festival: Fine Arts Quartet & local artists (Brahms, Mozart, Lutoslawski), 8:15 p.m., Woodward Hall, UNM.
- June 14** — Bicycle Race, criterium type, 8 a.m., Singer Friden.
- June 14-15** — Art Show-Carl Fahringer's flying machines & Danny Gamble's Southwest Landscapes.
- June 15** — 5th Annual Madrid to Sandia Crest Bicycle Race w/entries from US, Mexico & Canada, 8 a.m.
- June 15** — KHFM (98.3), music by Edvard Grieg, born this day 1843, from 1-6:30 p.m.
- June 16** — Channel 5, documentary, "Cops," 9 p.m.
- June 15** — NM Mt. Club, Magdalena Mountains, 10 miles, 7:30 a.m., State Police Parking lot corner of Carlisle & Menaul.
- June 16** — Santa Fe Opera: Albuquerque Ticket Office opens at Hilton Inn (Lobby), Mon-Sat, 10-5, 247-4820.
- June 18, 23, 25, 27** — Albuquerque Children's Theater: "Three Swine of Most Small Stature," and other comedies, 2 p.m., Ernie Pyle Library, Free.
- June 19-22** — Arabian Horse Show, Arena, State Fairgrounds.
- June 20-22** — Albuquerque Civic Light Opera Assn: Rogers & Hammerstein's "The Sound of Music," 8:15 p.m., Popejoy Hall.
- June 22** — NM Mt. Club, Santa Fe Ski Basin-Cawles, 11 miles, 7 a.m., Gulf Mart.
- June 27-29** — Annual New Mexico Arts & Crafts Fair: 12-10 p.m., State Fairgrounds.



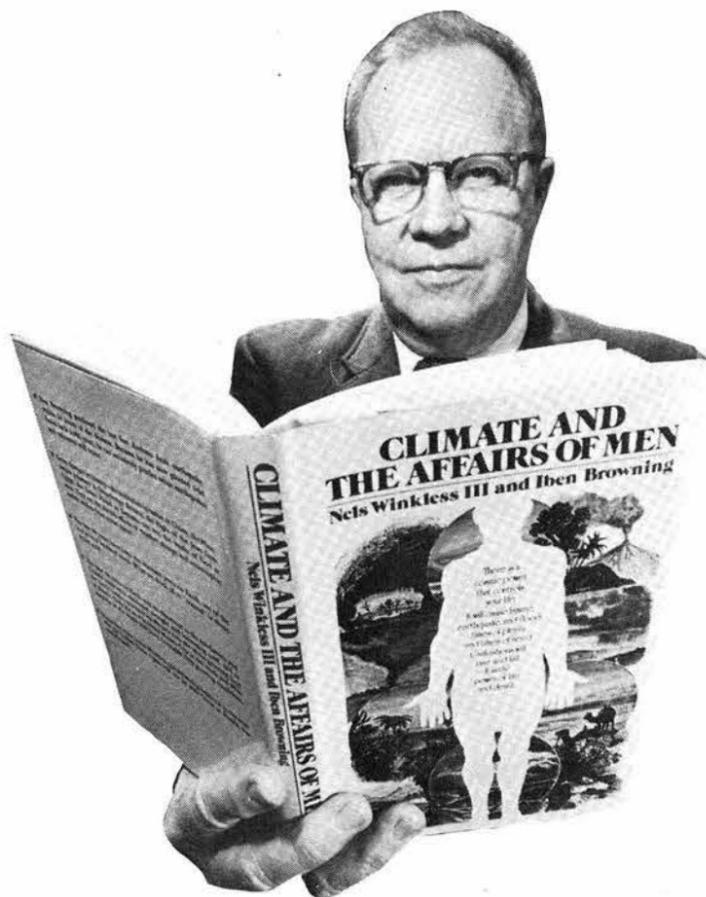
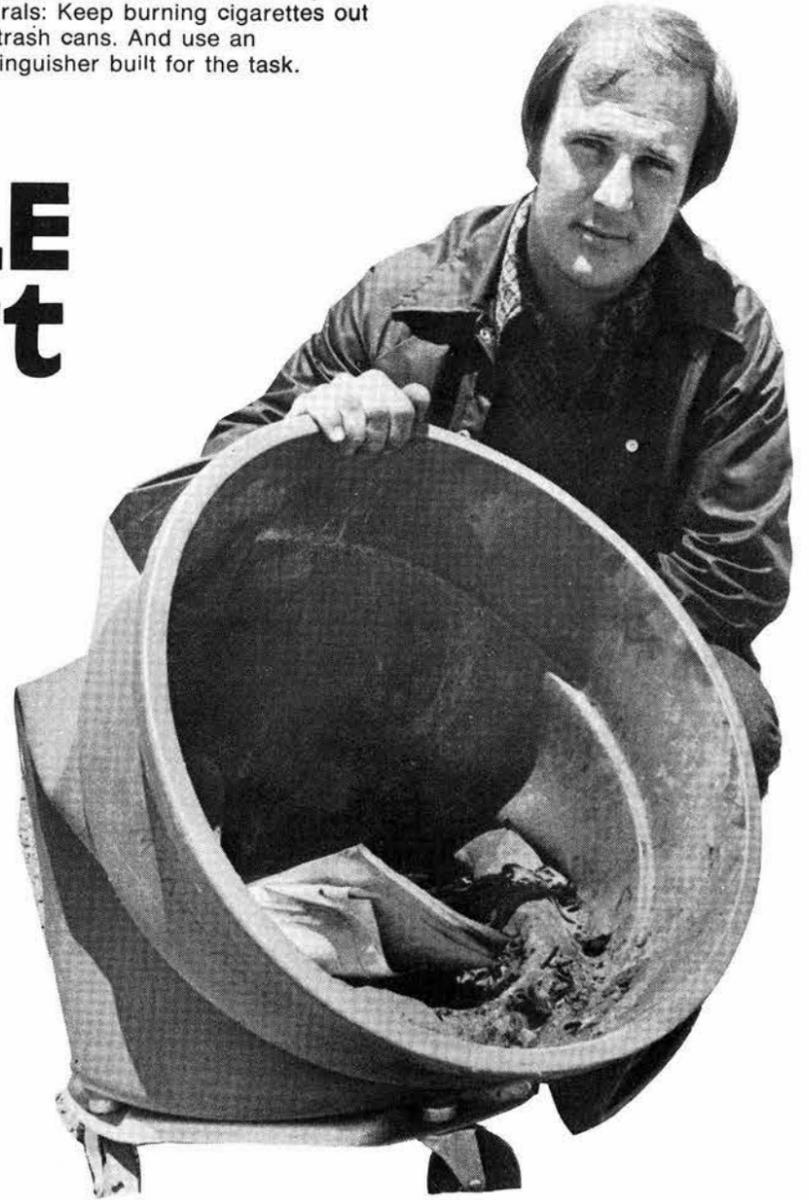
"GET SET — twenty — four — dollars" is what any Sandian can buy \$36 Lobo season tickets for, reports George Horne (2634). If you'd like to be George's receiver, call him at 296-1416 within a week. Pay by July 1. Deal is courtesy of the C-Club Wolfpack.

sandia PEOPLE Report



WHAT'S LEFT? They come to work on foot, by bike and motorcycle, and we even had a guy on horseback. So Mary Ann Sweeney, a physicist in 5241, shows us one more way. We think she's in training for the roller derby.

"PLASTIC TRASH CANS make lousy incinerators," says Dewey Bolton (1254). "And CO₂ fire extinguishers put out enough pressure to scatter bits of burning debris all over." Dewey helped put out the fire in Bldg. 892 a couple of weeks ago. Morals: Keep burning cigarettes out of trash cans. And use an extinguisher built for the task.



"THERE IS A TIDE in the affairs of men . . ." and Iben Browning, a familiar face at the Labs, devotes his new book to the thesis that climate is the dominant influence in that tide. Harper's is the publisher.



THIS CARPET doesn't fly, but it goes to Air Force Sgt. Scott Van Buren, current first-term Serviceman of the Year. The award was presented by Army Reserve Col. Dean Irvin (4210), who heads the Chamber of Commerce's Military Liaison Committee and is generally a Reserve Officer *par exemplar*.

Take Note

Bob Easterling of Statistics and Computing Division 1223 has taken a two-year leave of absence to work with the Nuclear Regulatory Commission in Bethesda, Md. While there, Bob will be a statistical adviser in the Applied Statistics Group, a newly formed group set up to provide statistical services to the NRC staff.

Motorcyclists — take heart. Jerry Jercinovic, manager of Safety Standards and Engineering Department 9540, reports that you won't be stopped at the gate, probably, if you (1) have your registration with you, (2) have a current brake and light sticker, and (3) have a windshield or, in the absence of one, wear glasses/goggles or sport one of those plastic shields on your helmet. And turn your lights on. For a while there was talk to the

effect that all Base MC riders, Sandians included, would have to complete the cycle safety course to gain access onto the Base, but Jerry says "not so." How about training wheels?

Fred Leckman of Photo, Mail Services and Records Management Division needs copies of Sandia Laboratories phone books issued prior to July 1951. If you have one, please call Fred, 4-4250. He will microfilm the book and return it to you.

Luke Vortman (1111) reports that the American Nuclear Society is considering the inclusion of related technology in its scope. He is seeking opinions from Sandians involved in energy programs and, if you have one, call him on 4-7653.

Speakers

T.S. Rathke (9344), "Distributed Computing Systems and the Testing Laboratory"; K. Wally, L.W. Bickle (both UNM), and N.R. Keltner (9331), "Problems in Estimating Front Surface Heat Fluxes from Rear Surface Temperature Measurements," ISA Instrumentation Symposium, May 19-21, Philadelphia.

J.E. Smugeresky (8312) and S.M. Myers (5111), "Solid Solubilities of Iron and Aluminum in Beryllium Using High-Energy Ion Beams"; F.G. Yost, F.P. Ganyard (both 2432) and M.M. Karnowsky (5831), "Layer Growth in Au-Pb/in Solder Joints"; R.S. Blewer (2413), Invited Talk, "Nondestructive Detection of Hydrogen and Other Low Z Elements in Solids by Proton Elastic Scattering," Metallurgical Society Annual Spring Meeting, May 19-22, Toronto, Canada.

J.A. Borders (5111), "Photovoltaic Research at Sandia Laboratories," Invited Seminar, Hydro-Quebec Institute of Research, May 16, Varennes, Quebec, Canada.

R.E. Jones (2642), "Some Results of Monitoring Library Quadrature Use," LASL Workshop on Quadrature Algorithms, May 15-16, Los Alamos.

H.D. Sivinski (5250), "A Pilgrim's View of the Food Irradiation Program," Third Annual Rocky Mountain Conference on Food Safety, May 1-2, Denver, Colo.

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CLASSIFIED ADVERTISING
Deadline: Friday noon prior to week of publication unless changed by holiday.

RULES

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

MISCELLANEOUS

GARAGE SALE: scuba gear, mess dress, bikes, misc., June 14-15, 10 am-8 pm, 1405 Boatright. Berlind, 293-5169.

PING PONG table, folds for easy storage, \$25. Forsythe, 299-2785.

DUTCH bunnies, Angora buck, Angora bunnies; Peruvian guinea pigs; apricot & white teddy bear hamsters, cheap. Hickman, 298-3804.

H-78-14 tire, polyglass, custom power cushion, whitewall, less than 1000 miles, \$15. Surface, 298-1394.

CARPET, 64 yds., beige/white, \$4 yd; 34 yds. light green shag, \$2.50 yd. Williams, 299-4950.

CAMERAS: Bolex H-16mm; Nikon F-2; Nikon F w/motor drive; Omega color enlarger, accessories. Geck, 299-5905.

'73 SCOTMAN travel trailer, 17', sleeps 6, w/jacks & battery, \$1025. Rodriguez, 345-0961 or 344-5723.

ONLY 1 electric car left, \$5; 2 child's car seats, \$5 ea; pedal car, \$2; stroller, \$15. Arlowe, 298-1770.

REGISTERED Nubian dairy goats in milk; free mulch & goat manure for your garden, you load and haul. Fisher, 869-2864.

FREE: mulch & goat manure for your garden, you load & haul. Davis, 877-0839.

NEW leather pony saddle, used once, \$50. Chinn, 296-5172.

PORTA-CRIB, walnut, mattress, bumper pad & 8 sheets, \$25. Stewart, 296-4341.

KROHLER 1500-W electric power plant, \$65; power reel lawn mower w/-

catcher, \$40; porta-potty, \$20. Abbott, 298-2039.

AQUARIUMS, 5, 10, & 55 gal. w/fish, stands & accessories; 2 chairs, \$50; early american couch, \$25; white contour lounge, \$45; misc. Spath, 293-2949.

RCA console color TV, 19" screen, walnut cabinet, \$100. Coberly, 881-4295.

RUGER single action revolver, .22 & .22 magnum caliber, w/holster & belt. Lewis, 296-7896.

SEARS evaporative air cooler, window type. Markley, 293-4016.

BEN Pearson bow, 66" Palomino, 40 pound pull, \$35. Wilkinson, 299-8327.

FLUORESCENT light fixtures, new, in box, 2 tubes, 8' long w/reflectors, \$15. Ernst, 821-5150.

FLUTE, Yamaha, 1 yr. old, \$100; Coldspot refrigerator, \$50; kingsize bedspread; 15" wheel from '65 Mustang; swag lamp. Chandler, 296-3323.

GE top freezer refrigerator, new compressor & overhaul 2 yrs. ago. Olson, 268-5312.

CHILDCRAFT Encyclopedia, 15 books; Junior Classics, 10 books; Bible Story Library for children, 8 books. Smith, 299-7151.

REFRIGERATED air conditioner, 3000 btu, window unit, \$45. Roth, 877-4997.

WELDING outfit, Lincoln electric, Victor gas & electric hand grinder plus welding rods, \$650. Duval, 268-9028 after 6.

9 x 12 shag rug w/pad, \$15; telescope, 80 power; children's books, all kinds, Junior Editions. Gendreau, 268-3436.

ALUMINUM screen door, 35" x 80", \$5; fender mount trailer mirrors, \$10/pair; free baby gerbils. Brown, 296-9009.

BUMPER pool table, \$50. Kass, 268-5922.

PIANO, king size bed set, baby crib, World Book set, sewing machine, Hi-Fi record payer. Cleveland, 299-7420.

EXHAUST headers for a Bronco 289 or 302 engine, 4-tube, \$45. Weatherbee,

869-2849.

GAS range, car-top carrier, girl's clothes (6 yr.), men's golf clubs. Adams, 293-2928.

ABOVE-GROUND swimming pool, 15 ft. dia. by 3 1/2 ft. high, all accessories included, used 2 seasons, \$125. Greenwell, 298-0959 after 5.

LINCOLN cent collection minus 1909-SVDB, 1909-S, 1910-S, 1912-S, 1912-D, 1914-D, VG to F. \$95. Lassiter, 298-2461.

GIRL'S bicycle, 20", Sears Spyder, banana seat, high rise handle bars, whitewall tires. Allen, 298-9437.

TRAILER tent, Wards model AX9831A, sleeps 4, canopy, spare tire, Oliveira, 298-0657.

BLACK, English type gelding, perfect for show ring hunter or jumper. Cafferty, 898-3102.

FISHING boat, 12', aluminum, w/oars & locks, \$170. Schmidt, 881-6689.

MACGREGOR golf clubs, 5 irons, 2 woods, bag, child or lady (small), \$30. Steck, 299-2313.

REMINGTON-RAND electric calculator, desk type, \$50 or best offer. Garcia, 255-3201.

TRANSPORTATION

'67 CAMARO, 6-cyl., 3-spd., R&H, \$650, see at 800 Kentucky SE. Cook, 268-1718 after 5.

'72 FORD LTD Country Squire station wagon, PS, PB, PW, AM/FM stereo, \$2500. Jaycox, 256-9219 after 5.

'70 VW fastback, AM/FM radio, new battery, below list, \$1295. Trice, 247-1828.

'72 307 Chevy pickup, 3-spd., swb, AC, white, 27,000 miles, 1 owner. Sanchez, 877-1463.

'47 CHEVROLET, 65,000 actual miles, running condition, needs lots body work, best offer. Day, 881-2664.

'74 DATSUN Lil' Hustler pickup, bought new in Jan. '75, AM/FM stereo, 4900 miles, \$2595. Hudson, 296-3484 or 296-

6978.

'64 FORD Falcon station wagon, V8; power lawn mower, reel type, \$35. Daniel, 296-4231.

'72 HONDA 750, 3800 miles, chopped, 1000cc barrels, \$1400 firm or consider trade for car. David, 299-1802.

'67 CHEVY-II Nova-II SS, '73 rebuilt 327 engine, 650 Holley carb., Offenhauser manifold, Hooker headers, Thrush chrome pipes, 3/4 race cam, 4-spd., \$850. Sutton, 298-0001.

SCHWINN 23" Varsity 10-spd., \$50. Steck, 299-2313.

PENNEY'S bicycle-built-for two, \$95. Olson, 298-3795.

LOTUS Elan: Prepared by Lotus factory — trained mechanic, Cosworth engine, refinements & modifications too numerous to list, \$5900. Parks, 293-2788.

'63 RAMBLER, needs rod bearing, OK otherwise, 6-cyl., overdrive, \$60. Guttman, 765-1217.

'65 MUSTANG, hardtop, 3-spd., stick shift, AC, white with black interior, 10,000 on rebuilt engine, \$850. Chandler, 296-3323.

FOR RENT

3 BDR. house, fenced front & back yard, sprinklers, covered patio, attached garage, carpeted, stove, refrigerator, owner pays water, \$225/mo. Bozone, 296-8668 after 5:30.

UNFURNISHED 2-bdr. house, 812 Cagua, SE, \$185, water paid, refrig. air, range & refrigerator, available July 1, references & deposit required. Weston, 255-1196.

REAL ESTATE

4-BDR. home, 2 1/2 baths, 2500 sq. ft., located in Tijeras Canyon on 2 1/2 acres of land, well landscaped. McCampbell, 292-2762.

FULL acre on San Antonio Mountain near Tres Piedras in northern NM, water/electricity readily

available, \$2750, discount for cash. White, 293-2219.

SAN Gabriel, 3-bdr., family room, study, 1-3/4 bath, covered patio, sprinklers, large garage, 6% plus 1/2% FHA, \$14000 minimum down. Jorgensen, 298-9834.

5 TO 20 acres in Manzano Mountains west of Chilili, 41 miles from Coronado Center, heavily wooded w/ponderosa; terms available; \$1000cres. Cover, 881-3860.

3-BDR. & den home, all carpeted, on well-located half acre in Los Lunas, \$29,500. Daniel, 268-8335.

WANTED

FORD Mustang GT, 289 engine, '65-'67, in good condition, 4-spd. trans. & hard top. Ricker, 296-2191.

BOY Scout uniform, size 12 or 14. Barnette, 298-9227.

EVAPORATIVE cooler, for mounting in car window. Miyoshi, 298-0666.

POWER-KRAFT 1/4" drill (sold by Wards); need old model Vintage, '60-'65, for accessory; also need grinder. Chandler, 296-3323.

WILL give good home to your unwanted toads, frogs, lizards & turtles. Hickman, 298-3804.

EARLY model 60's Ford or GMC, 3/4 or 1/2-ton pickup, need not run but be repairable. Schulze, 898-2880.

TOT-GUARD for auto. Harrigan, 266-4143.

FLUTE & clarinet for Jr. High student, must be reasonable. Carrillo, 247-9700.

WORK WANTED

YARD jobs for 15 yr. old man, reasonable prices. Barton, 265-8607.

TENNIS LESSONS by teenager with experience. Walter, 296-7062.

LOST AND FOUND

LOST — Ladies Rx glasses w/green case; 2 keys on paper clip; silver/turquoise earring. **LOST AND FOUND,** Bldg. 832, 4-3441.

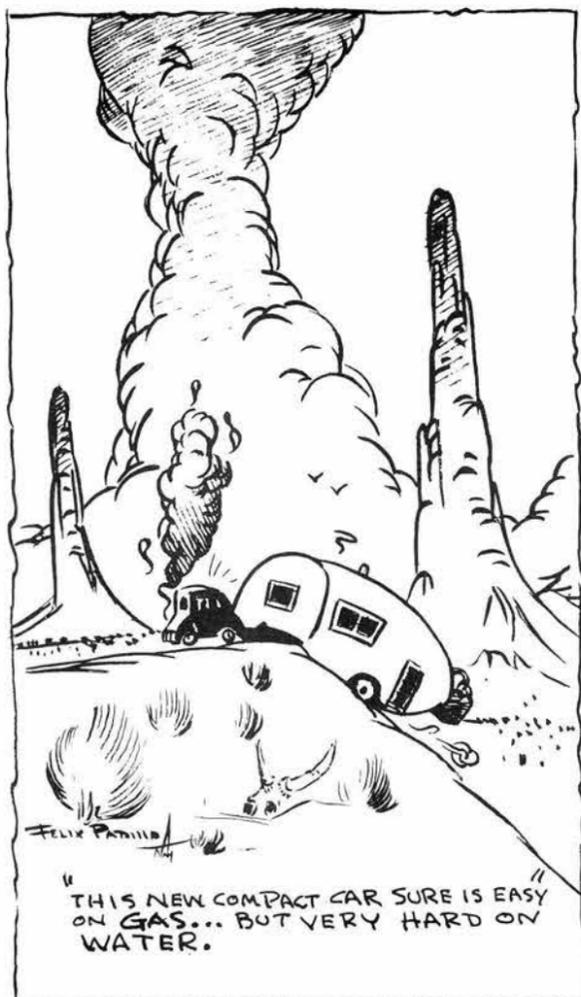
FRIDAY	SATURDAY
13 — HAPPY HOUR GERMAN BUFFET Adults \$2.95 Under 12 1.95 Glad Rags on Stage MOSE REBE TRIO	14 — TEEN DANCE 7:30 - 10:30 SATIN FLAME Coronado Swim Meet (Pool Closed)
20 — HAPPY HOUR SEAFOOD BUFFET Adults \$2.95 Under 12 1.95 Thomás & Marcia On Stage THE PRISONERS	21 — LUAU Likolehua Review ERNIE & THE SAINTS Cocktails @ 6 Dinner @ 7 Show @ 8:30 Dancing @ 10

I — want to remind you again to save lots of evenings (and a little money) for the big 25th Anniversary Celebration July 21-27. A birthday cake/cocktail party, a 50's dance, hot air balloon rides, bingo, the Ink Spots and other celebrities, special decorations, and much more. Watch this space for further developments.

CAN — you still get in on one of those June vacation packages? Absolutely, but act fast. Whether you lean toward Los Mochis and Copper Canyon, teeter toward Topolobampo and fishing, or curve toward the Carribbean and crusing, you've a wonderful week in store. The Club has the details on these and on two other trips: Mazatlan Nov. 1-8, and Bahamas Oct. 28-Nov. 4.

THINK — of the relaxation potentials tomorrow night if you exile your adolescent progeny to the Teen Dance. They'll take to Satin Flame like, well, moths. You'll have peace, quiet, and Lawrence Welk.

OF — course we congratulate the new Sanado officers: President Sharon Gauerke; Vice-Presidents Judy Love, Anne Tapp, Elizabeth Lee, Marge Appel, and Mary Ann Perkins; Secretary Pat Dumas; Treasurer Jean Langdon; Ex-officio Lois Smith; and all the committee heads. The Club (and its many interest groups) welcomes new members of the female persuasion — see Anne Tapp at 7433 El Morro NE.



"THIS NEW COMPACT CAR SURE IS EASY ON GAS... BUT VERY HARD ON WATER."



"DARLING, marry me — so your ties will be my ties," says Polly Kneeshun (alias Nancy Manzanares, ERDA) to Al O. Ha (alias Charley Mika, 4275). If the thought of *mai tais* makes you say "Poi, oh poi!" make reservations now for the big Luau on the 21st.

NOTHING — like sauerbraten and beef stroganoff to whet the appetite (and demolish the diet). Go Teutonic tonight.

THAT'S — good eating ahead next Friday too. June 20 is the date when all the little lobster Newbergs and *rod mornays* come up the Rio Grande to spawn. Special hydroplane/trawlers will harvest the bounty (unless there's mutiny), process it and ship it to the Club by way of the Tijeras Arroyo Canoe Freight Lines. You wouldn't want to miss *that!*

INCONCEIVABLE — that there'd be anything more exciting in town on the 21st than the big Luau. Roast pig, mahi mahi (my, my, that's good!), Hawaiian shrimp, Hawaiian chicken (that means they're cooked with pineapple). Plus special *mai tais*. Plus the Likolehua Hawaiian Review for listening, Ernie and the Hawaiian Saints for dancing. *Reservations by tomorrow.*

MORE INFORMATION: 265-6791.

Second Supplemental Now For Early Retirees

Used to be that if you retired before you were 60, you lost your Second Supplemental life insurance protection. But an April 1 change means that currently covered employees who retire can retain Second Supplemental coverage all the way to age 60 just by continuing to pay, by deductions from payroll or retirement checks, the employee's share of the premiums (20¢ per thousand dollars of coverage under 40; 35¢ per thousand from 40 to 50; 60¢ per thousand from 50 to 60). Second Supplemental pays a

year's salary (rounded to the next higher thousand) upon death of the insured.

Active employees and retirees under 60 who aren't currently insured under Second Supplemental can elect the coverage by furnishing evidence of good health acceptable to Prudential. (This requirement is unnecessary for employees on roll less than seven months.) More information is available from Benefits Administration Division 4213 (4-7336) or Benefits Division 8214 (2252).