



GREGORIO LAKE lies at the southern edge of the San Pedro Parks Wilderness in northern New Mexico.

LAB NEWS

VOL. 27, NO. 23

NOVEMBER 14, 1975

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

Nuclear Waste Disposal

Search Continues for Plant Site

Two hundred million years ago, southeastern New Mexico was covered by a vast inland sea in an area now called the Delaware Basin. Capitan Reef, similar to the Great Barrier Reef of Australia with its giant horseshoe shape, defined the northern edge of the basin. As geologic time passed, the sea was alternately dried up and refilled, leaving behind deep layers of salt and sedimentary rock.

In one of those layers of salt — the Salado formation between 330 and 1000 metres (1000 and 3000 ft.) beneath the surface — Sandia will locate a pilot nuclear waste disposal plant. The proposed site, about 7.77 sq. kilometers (three square miles) in area, is within the horseshoe bend of Capitan Reef, about half-way between Hobbs and Carlsbad.

An exploratory drill hole in the area recently revealed the presence of brine and toxic gas at a depth of 826 metres (2710 ft.)

Wendell Weart, manager of Waste Management Systems Department 1140, reports that his group is now evaluating data gathered from the hole. It appears that the drilling operation encountered an unexpected "finger" of the ancient reef in which brine and gas (H₂S) could have been trapped for centuries. This, plus the steep angles of the geologic layers, raises questions about the desirability of this specific target site.

"The Salado formation is still a prime area," Wendell says. "We'll shift our exploratory effort a few miles and get a seismic evaluation of the region. Exploratory drilling will follow, and it's likely our final

location for the pilot plant will be in the same general area."

A deep salt formation offers several advantages for long-term disposal of radioactive waste: it is a good shield to contain radioactivity; it is plastic and tends to "heal" cracks or fractures; it dissipates heat; and its mere presence in geologic layers means the absence of underground water flow. The Salado salt has been stable through geologic time and will probably remain so for millions of years.

Next step in locating the disposal site is a survey of seismic information on the area gathered during oil industry exploration. From this an area can be defined for additional seismic exploration. Sandia will also make a comprehensive study of existing hydrologic (ground water) information. After these steps further pinpoint the site, Sandia will then drill more exploratory wells.

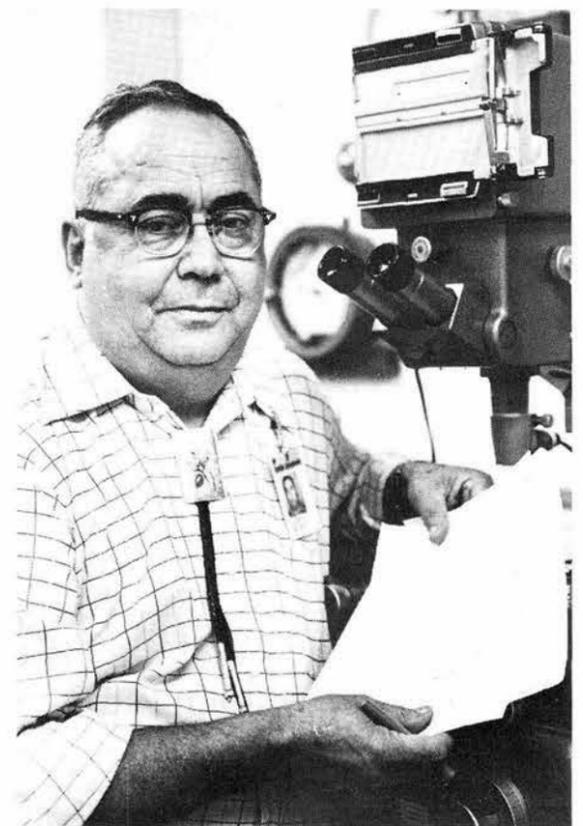
Design of the pilot plant, although dependent on the physical features of the final site selected, is progressing.

Purpose of the pilot plant is to demonstrate feasibility of underground storage of the radioactive waste with emphasis on operational and long-term safety. All waste will be fully retrievable, and only limited amounts will be handled during pilot plant operations.

The facility will be designed to handle three types of radioactive waste:

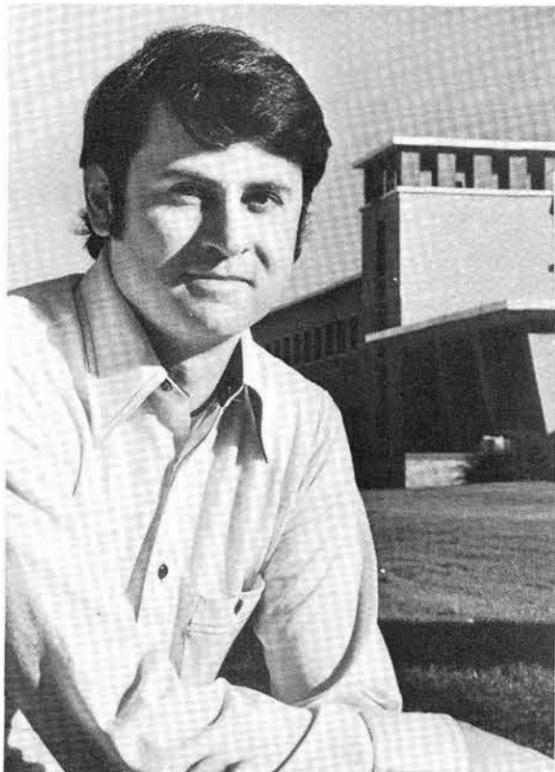
— "low level" waste such as gloves, coveralls and debris from nuclear generating plant and fuel reprocessing operations. This

(Continued on Page Four)



GLENN WRIGHT (3613) is a newly-named Technician II Mechanical Inspector. He recently completed a 13-month special on-the-job training program which gave credit for his 25 years of experience at the Labs.

**Dec. 5 Next
LAB NEWS
Publication Date
Deadline: Nov. 25**



JOHN CURRO (5813)

Supervisory Appointment

JOHN CURRO to supervisor of Polymer Research and Development Division 5813, effective Nov. 1.

Since joining the Labs in August 1970, John's work has been with the polymer science group, primarily in the area of mechanical properties of polymers. He earned a BS in chemical engineering from the University of Detroit in 1965 and his PhD in materials science and chemical engineering from Cal Tech in 1968. Immediately before coming to Sandia, John spent a year at the Institute for Fluid Dynamics and Applied Mathematics, University of Maryland, on a postdoctoral fellowship.

He is a member of the American Physical Society, the American Chemical Society and the American Institute of Chemical Engineers. Leisure time activities include hiking, backpacking, softball and basketball. John and his wife Sally have two children and live in Placitas.

Death

John Kilmartin of 3600 Support Division 3613 died suddenly Oct. 31. He was 61.

He had worked at Sandia since September 1957.

Survivors include his widow, a daughter and a son.



Take Note

Chemistry students at Southern Univ. talked to Kathy Lawson (5833) during her recent visit there about their plans to set up a library. Their funds are meager, and they asked Kathy to relay the word to technical people at Sandia that they would be pleased to receive copies of old technical journals or, for that matter, old-but-still-good books. Kathy says issues dating as far back as 20 years would be appreciated. If you have such literature that you can part with, send it to Community Relations Division 3163 for forwarding to Southern.

* * *

Want to trade a month of Albuquerque winter for a month of South Pacific summer? Check with Ed Neidel (2316), 299-4369, about a Fly-Drive style of trip which features group air fare savings and cars for independent land travel. The itinerary includes Tahiti, Australia, Tasmania, New Zealand and Fiji from Jan. 21 to Feb. 21, 1976.

* * *

Many Sandians patronized The Growers Market this summer on Saturday mornings at the Civic Auditorium parking lot. Gardeners from the area usually have a surplus and they would load up their station wagons or pickups and tote the stuff up to the Market. It was fresh and, generally, cheap. Theo Bird, the Market organizer, called to tell us that 150 growers participated during the season and countless customers. Theo won't be here next year, but she's hoping that growers will get together to keep GM an ongoing enterprise.

* * *

"Space Shuttle Transportation for the 1980's and Beyond" is the topic of Dave Bacchus' speech to a joint meeting of ASME and AIAA on Nov. 19 at the Bella Vista on North 14. Bacchus is with NASA's Marshall Space Flight Center. The public is invited. Cocktails at 6:30, dinner at 7, program at 8. \$3.45 includes tax, tip, and all the fish you can eat. Make reservations with Joe Abbin at 4-5759 by Nov. 18.

* * *

A large flea market will be held on the Sandia High School campus on Saturday, Nov. 22, from 8 to 4, and on Sunday the 23rd from 1 to 4. Purpose is to raise funds to send the Sandia String Orchestra to Vienna next July to perform at the International Youth and Music Festival. A car raffle is also sponsored. If you have rummage to donate, please call 298-9525.

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Needs Help

Joe Saya (9521) is sponsoring a family of 11 Vietnamese refugees. Joe has found jobs for the father and the oldest son and has the family moved into an apartment. However, they do need the following items:

- A six-foot picnic table w/benches (Joe will cover the table top with solid material.)
- Two night stands; a chest of drawers; one set of bunk beds; and a complete double bed.
- A couch/hide-away-bed combination
- An ironing board.
- Linens, blankets and bedding, and toys.

Joe says his family does not need clothing and small appliances; however, there are currently about 500 refugees in Albuquerque who need help — no donations will go to waste.

Joe's family arrived in Albuquerque with 42 other families, and there are only 12 sponsors for the entire group. Persons wishing to make a donation or to become a sponsor should contact Joe, 4-1334 or 296-1817.

Events Calendar

- Thru Dec. 7** — "The Moon Is Blue," Barn Dinner Theatre, Reservations, 281-3338.
- Nov. 14** — ASUNM Speakers Series: Arthur Knight, "Sex In the Cinema," Popejoy, 8 p.m.
- Nov. 15** — Football: UNM vs. U. of Wyo., 1:30 p.m., University Stadium.
- Nov. 15** — NM Mt. Club, Cerro Blanco (Manzanos), 4-5 mile hike, 8:30 a.m., Western Skies.
- Nov. 16** — NM Mt. Club, La Luz (Sandias), 10 a.m., Eastdale.
- Nov. 16** — Popejoy Hall Entertainment Series: The San Diego Ballet, 8:15 p.m.
- Nov. 17** — Popejoy Hall Entertainment Series: "Don't Bother Me — I Can't Cope," 8:15 p.m.
- Nov. 18** — It's a Wide Wide World: "Greece," 7:30 p.m. Popejoy.
- Nov. 18-19** — Hockey, Albuquerque vs. Reno, 8 p.m., Tingley Coliseum.
- Nov. 20-21** — Albuquerque Symphony Orchestra, Dave Brubeck, 8:15 p.m., Popejoy.
- Nov. 22** — Popejoy Hall Entertainment Series: "Twelfth Night," 8:15 p.m.
- Nov. 23** — Popejoy Hall Entertainment Series: "Ah, Wilderness," 8:15 p.m.
- Nov. 23** — Rodey Theater Film Festival: "All the King's Men," (USA, 1949), 7:30 p.m.
- Nov. 24** — University Choral Concerts: Concert Choirs, 8:15 p.m. Keller Hall.
- Nov. 27, 29-30** — NM Ballet Co.: Houston Ballet, "Nutcracker," Popejoy, 8:15.
- Nov. 28** — NM Ballet Co.: Houston Ballet, "Carmina Burana," Popejoy, 8:15.
- Nov. 30** — NM Mt. Club, down La Luz trail, 8:15 a.m., Eastdale.

Retiring



Pete Saavedra (9713)

DSP Program Open

The Labs' Doctoral Study Program for 1976 is now accepting applications. Under DSP, an employee attends school at reduced salary for the length of time required to gain his or her PhD — usually up to two years. Candidates must be nominated by a director, be at the MS level, and have at least three years of Sandia experience by January 1976. Other details on DSP are given in SLI 4558, or you may call Jack Hueter, 4-6508 (Jim Smith, ext. 2150 in Livermore). Applications and supporting documents should be submitted promptly to meet the Dec. 1 deadline. Those selected for DSP will begin the program in September 1976.

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bill laskar does picture work
gerse martinez lends a hand
&
lorena schneider reports on livermore

Dick Finn Wants Your Empties

"Never throw away any aluminum, steel or glass container," says Dick Finn (8432) of the Livermore Community Recycling Center. Located on Pacific Avenue behind the city library, the completely volunteer operation is open every Saturday, rain or shine, from 10 a.m. to 4 p.m.

"Recycling conserves our raw materials," continues Dick, "and it also saves energy and reduces pollution. Aluminum, for instance, is a shrinking resource that takes much electricity to manufacture, but very little to recycle."

Dick stresses, moreover, that the local recycling center also raises money for community organizations such as schools, churches, scouts and service groups. Ten volunteers representing a single organization tend the center each Saturday; for its effort, the sponsoring organization receives \$70. At yearend what's left after expenses is equally divided. Last year the distribution amounted to a bonus of \$25 per sponsor. Because of the long waiting list, sponsors are confined to one turn each.

The volunteers first sort the recyclable material, glass by color and cans by type of metal. Cans are compacted in a large crusher.

Last year 309,720 pounds of glass and 89,234 pounds of cans (of which 13,970 was aluminum, 58,660 steel, and 16,600 bi-metal) were processed at the center. In addition, over 1,040,000 pounds of newspapers were handled.

"These are impressive figures," notes Dick, "but the center has the capacity to accommodate a still larger volume. Incidentally," he adds, "we do ask donors to be sure their recyclables are clean when delivered."

Congratulations

Mr. and Mrs. John Teodoro (8431), a daughter, Ayako Heather, Oct. 26.



SLL WOMEN'S TEAM took first place in the 1975 National Industrial Recreation Association mail-o-graphic bowling tournament — (from left) Jan Inzerilla, Chris Imler, captain Shirley Carson, Betty Zembik (all 8323) and Eva Leong (8212). In men's competition, SLL team composed of Bill Peila (8183), Marty Gordon (8257), Bill Ormond (8261), captain Clyde Taylor (8413) and Syl Griby (8114) finished second.



ACTION AT THE LIVERMORE RECYCLING CENTER — Committee member Dick Finn (8432) takes his turn at overseeing the weekly operation. Sponsoring organization this Saturday was a Livermore High School language class working its way to Europe this summer.

LIVERMORE NEWS

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Speakers

Don Hardesty (8115), "Combustion Modeling," Project SQUID Workshop on Combustion Measurement in Jet Propulsion Systems, Purdue University, May 22-23, Lafayette, Ind.

Bob Gallagher (8333) and J. B. Fenn (Yale University) and R. T. V. Kung (Avco-Everett), "Some Observations on Condensation in Free Jets," Fifth

International Symposium on Molecular Beams, Apr. 5-11, Nice, France.

Rand German (8312) and Z. A. Munir (Univ. of Calif/Davis), "A Kinetic Model for the Reduction in Surface Area During Initial Stage Sintering," and "The Identification of the Initial-Stage Sintering Mechanism: A New Approach," Fourth Notre Dame Conference on Sintering and Related Phenomenon, University of Notre Dame, Ind., May 27.

Rand German (8312), "The Adhesion and Denaturation of Metal Powders at Elevated Temperatures," Department of Mechanical Engineering Seminar, University of California at Davis, Apr. 17.

Rudy Johnson and Jack Dini (both 8312), "Techniques for Quantitatively Measuring the Adhesion of Electrodeposits," 17th annual meeting Society of Vacuum Coaters, Apr. 7, Key Biscayne, Fla.

Arlyn Blackwell (8110), "The Current Combustion Research Work at Sandia," Meeting Kiwanis Club of Livermore, Apr. 29.

Bill Childers (8346), "Fault Tolerant Tester Design, a Micro Processor Application," invited guest lecturer, Electrical Engineering Department, University of California at Davis, June 3.

Larry Watkins (8182), Cliff Skoog (8342), Ed Barsis (8342) and Pete Mattern (8334), "Absorption Induced in Optical Waveguides by Pulsed Electrons as a Function of Temperature, Low Dose Rate Gamma and Beta Rays, and 14 MeV Neutrons"; Ted Dellin (8342), Bob Huddleston (8322) and C.J. MacCallum (5223), "Second Generation Analytic Photo-Compton Current Methods"; and Pete Mattern (8334), Larry Watkins (8182), Cliff Skoog (8342), and Ed Barsis (8342), "Effects of Radiation on Optical Fibers and Materials," IEEE Annual Conference on Nuclear and Space Radiation Effects, July 14-17, Arcata, Calif.

John Smugeresky (8312) and S.M. Myers (5111), "Solid Solubility of Fe and Al in Be Using High Energy Ion Beams," Seventh Annual Spring Meeting, American Institute of Metallurgical Engineers, May 18-22, Toronto, Canada.

Jack Dini and Rudy Johnson (both 8312), "Joining Beryllium by Plating," 62nd Annual Meeting, American Electroplaters' Society, June 22-27, Toronto, Canada.

Gordon Ross (8212), "What is Sandia?," Livermore Rotary Club meeting, July 23.

Rob Rinne (8321), "Nuclear Energy Technology Transfer: The Security Barriers," Advanced Study Institute for Industrial Technology Transfer, June 22-July 4, Les Arcs, Bourg St. Maurice, France.

Nuclear Waste Disposal Plant

waste will be incinerated and stabilized prior to disposal. It will contain some transuranic elements but not in concentrations sufficient to warrant recovery or remote handling, and the material will be stored in 55-gallon drums or in fiberglass boxes.

— “intermediate waste” such as the cladding hulls and containers for nuclear fuel. These require remote handling.

— “high level” waste from reprocessed fuel containing the intensely radioactive elements characterized by high thermal content (as much as 0.5 Kw of thermal power per cubic foot). It will be packaged in cylinders one to two feet in diameter and 10 to 15 feet long.

Low level waste can be handled readily. Separate surface and underground facilities will be designed for low level waste and for the other two types which require remote handling. Several transport systems — such as a heavily-shielded vehicle with operator, or a completely automated monorail system — are being considered for handling intermediate and high level wastes. Closed circuit TV and other monitoring systems will also be a part of the disposal system.

Other studies will determine whether the plant should have multiple levels underground or a single level with spoke-like shafts radiating from a central underground handling area. Safety, operational efficiency, and construction and operational costs are the elements which will shape the final concept. ERDA will designate an architect/engineering firm to perform construction design from Sandia's conceptual design and criteria.

“In addition,” Wendell says, “careful consideration will have to be given to transportation of waste to the disposal site. There are many questions to be answered.”

Actual construction of the pilot plant facility is several years away. Target operational date is 1982 for initial low level waste acceptance. • dg

CU Bulletin Board

The Nominating Committee has been appointed to find candidates to fill four vacancies on the Board of Directors and one on the Credit Committee. Any member interested in filling one of these positions should contact a Nominating Committee representative: Chairman Otis Cox (3223), Clarence Sandy (9533), Mollie Miller (3321), Joe Maldonado (9713-4) or Willie Garcia (3321).

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Sympathy

To Matt Mattison (9414) on the death of his mother in California Oct. 1.

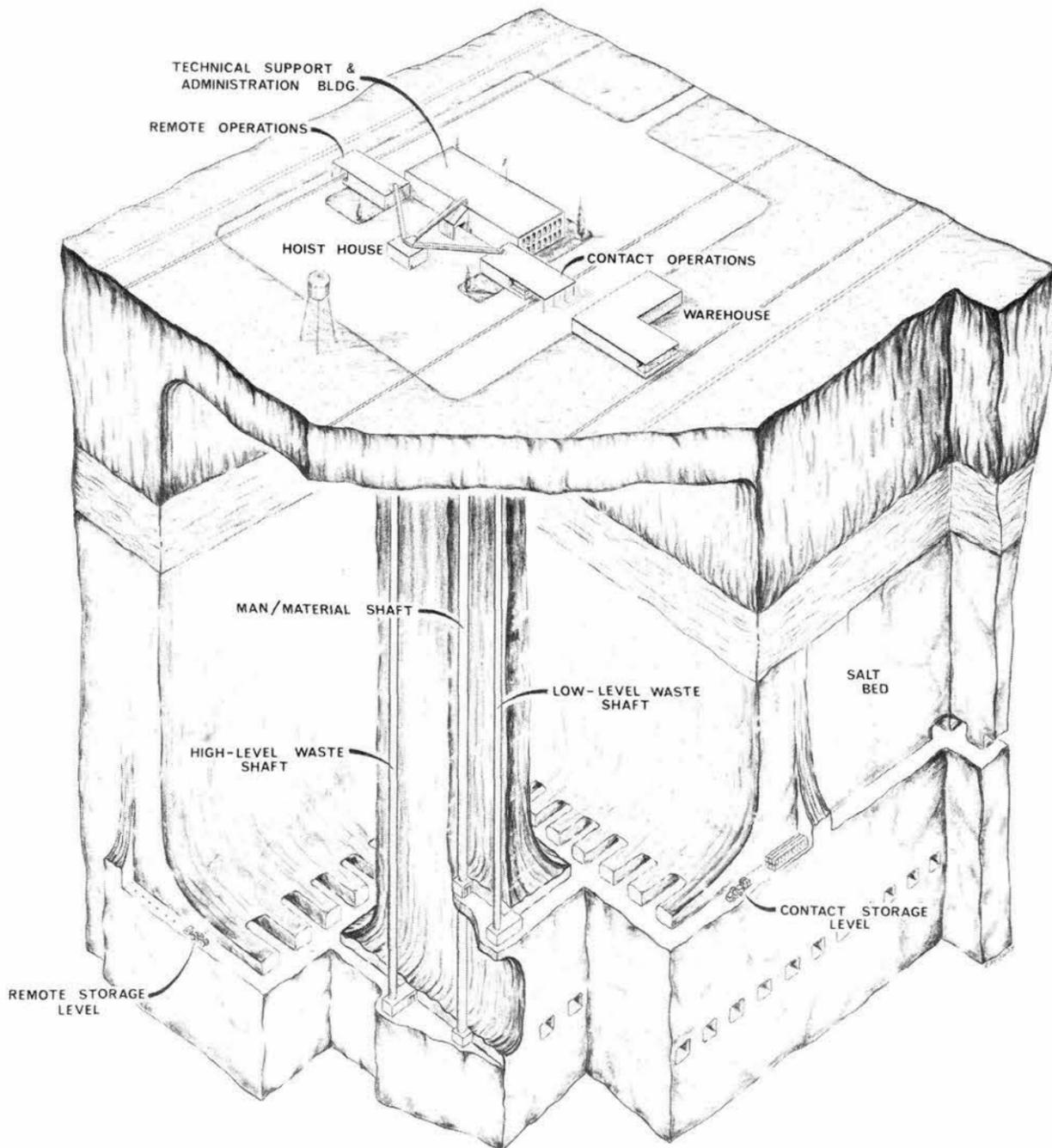
To Ed Stout (9414) on the death of his brother-in-law in New York Nov. 2.

To Herman Kaneshiro (2514) and Herman Kaneshiro (3623) on the death of their son and grandson in Belen, Oct. 24.

To Homer Messenger (3617) on the death of his wife in Albuquerque, Nov. 4.

To Sam Johnson (9751) on the death of his mother in Bangor, Maine, on Nov. 3.

To Neal Rozell (9753) on the death of his brother in Albuquerque on Oct. 21.



DRAWING shows possible layout of a pilot nuclear waste disposal plant to be located in southeastern New Mexico. Burial chambers will be in a salt formation at 330 to 1000 metres (1000 to 3000 ft.) underground. Final design depends on operational criteria designated by Sandia and physical features of site. Drawing prepared by Al Faychak (9652).



A FEW YEARS back, this gathering in Sandia's Area V would have raised eyebrows all the way back to the Dept. of Justice in Washington. Detente has changed all that. Above, Gerry Yonas (2nd from right, 5240) describes the Proto 1 accelerator to a French, Russian and English audience. Ken Prestwich (2nd from left, 5245) helped develop the device. At left, Pace VanDevender (5245) and Russian scientist Valentin Smirnov exchange greetings. Visit took place during International Conference on E-Beam Research & Technology; Gerry Yonas was conference chairman.

SPR III completes Criticality Tests

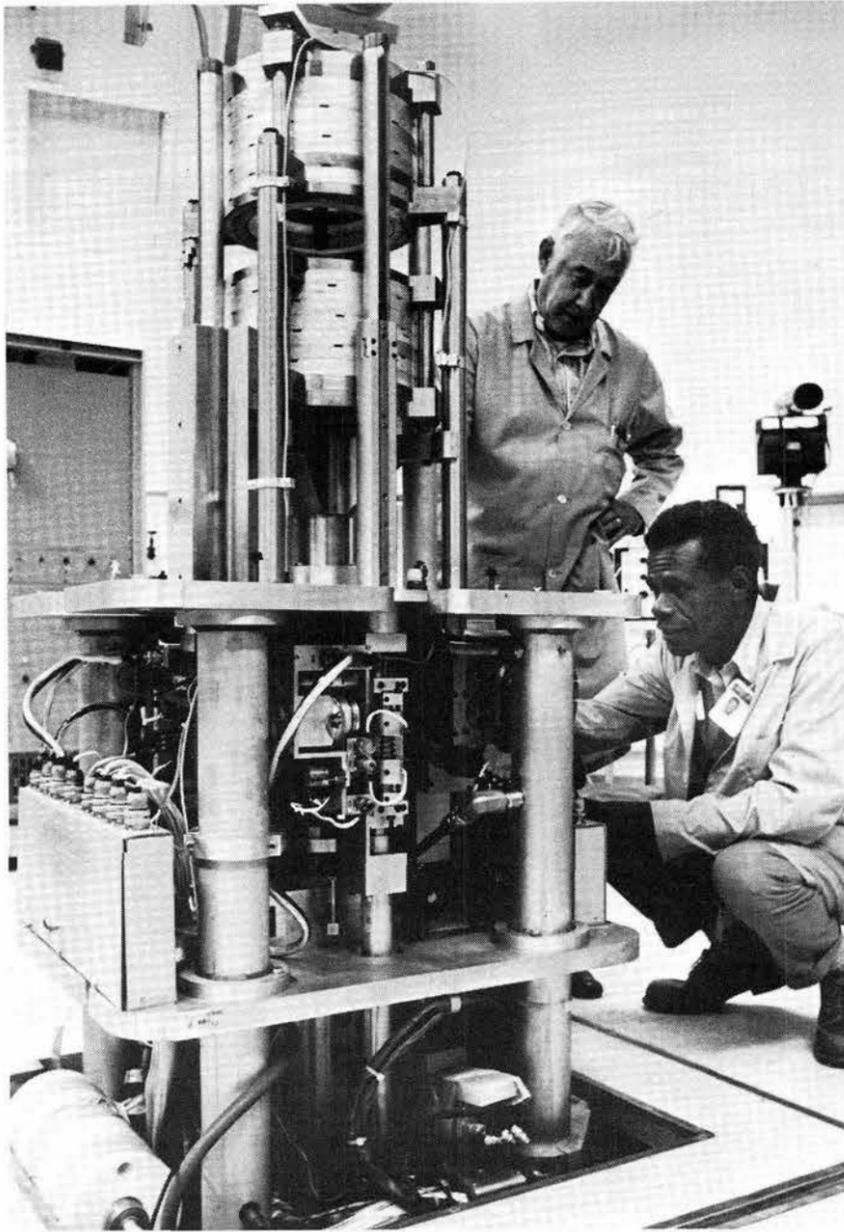
Sandia Laboratories has completed criticality testing of its newest pulsed reactor, and fast-burst tests are underway. Criticality tests of the reactor, Sandia Pulsed Reactor III (SPR III), involve a gradual increase in the reactor's critical mass, or fuel, until a chain reaction occurs. Criticality is achieved by bringing the two halves of the fuel configuration together, then inserting the control elements which reflect neutrons back into the core.

Purpose of the pulse testing is to determine whether the fuel configuration will produce the desired neutron fluence. Early results indicate that the reactor will meet or exceed the design specification of 600-trillion (6×10^{14}) neutrons per square centimeter in a 55-millionths of a second (55 microseconds) pulse.

This output will give SPR III the highest combination of exposure rate and exposure chamber volume of any fast burst reactor in the country. The SPR III chamber is seven inches in diameter and 14-1/2 inches in length; this compares with a chamber volume of 1-1/2-inches x 8-inches for its predecessor, SPR II.

SPR III is housed in the same facility as SPR II, which has been operating for more than eight years. The two reactors will be interchangeable, with both using the same control and support systems. The forerunner of the series, SPR I, was retired in 1967.

Primary use of the new reactor will be tests of weapons electronics packages, which will be inserted directly into the enlarged exposure chamber. The reactor will also be used for materials studies of the Liquid Metal Fast Breeder Reactor and to excite a nuclear-powered laser under development at the Labs.



PULSE TESTING of SPR-III, fast burst reactor, is underway in Area V. Operators are J.C. Conant and Vern James (both 5421). Primary use of the new reactor will be tests of weapons and electronics packages. When not in use, SPR-III is lowered into shielded pit below the floor.

Recreation Notes

Sandia Bicycle Ass'n. — 200 copies of an 18 x 22" map of city bikeways, projected through 1977, have been provided by Sharla Vandevender (4734), Albuquerque's Ms. Bicycle. Sharla says "hand 'em out," and you can pick up your copy in the LAB NEWS office in Bldg. 832.

If your feet get cold these frosty mornings, consider the clever device described in the January *Bicycling*. These are plastic toe covers which attach to the pedals and which resemble the leather toe and foot protectors on a horseman's stirrup. Acting as a wind screen, the toe covers worked very well in cold and wet weather according to the appraisal.

Don Bliss, 4-7609, reports that he still has a supply of yellow, white, and orange reflective tape, It's 1-inch wide and can be sewn on jackets, hats and the like. Don's non-profit price is 1¢ per inch.

* * *

Coronado Ski Club — meets for its regular meeting next Tuesday, the 18th. Jack Hanna informs us that people from Telluride and Purgatory ski areas will be there for show and tell. Happy half-hour starts at 7, the meeting at 7:30.

This season when you step up to the cashier to buy your lift tickets you may conclude you're making a down payment on the lift itself: Santa Fe, \$9; Red River, \$9; Sandia Peak, \$7.50; Purgatory, \$9; and Taos, a mere \$10. The ski area operators' new brochure is out, with glowing color and even more glowing words: "Air crisp and crackling

as if with an invisible filament of ice." At nine and ten bucks a day, that crackling sound likely comes from fiscally shattered skiers.

* * *

Grand Canyon of the Colorado River — It truly is grand, and the 300-mile boat trip from Lee's Ferry through the Canyon is a supreme experience. Mark Percival (2411), a veteran of both the upper and lower Colorado, is organizing a Grand Canyon trip for next summer. Mark needs about 32 people to fill two of the big commercial boats; with that number he can get a group rate on the order of \$300 per person. Trip duration would be 6 to 9 days, depending on the wishes of the group. Mark is at 4-7145.

* * *

Sandia Runners Assn. — We interviewed Albuquerque's senior runner the other day and, for that matter, he may hold the honors for the entire state. He is William Wright, a cheerful and vigorous 89, who daily covers a mile-and-a-quarter in a combination of walking and running. Last time he timed himself, he covered a quarter-mile in "a little over a minute and a half." That's a pretty fair time for youngsters half his age. Mr. Wright has been extremely active his entire life, variously working as a logger, miner, soldier (WWI), thresher, farmer and railroader and, with some logic, perceives activity as the key to his good health.

From John Kelly (5242), this quote from the April issue of *The Physician and Sportsmedicine*: "There have been no documented deaths from coronary heart disease among marathon finishers of any

age." If you're interested, LAB NEWS has the full text of the accompanying article.

Sports Swap — Taking a cue from the roaring success of the Ski Patrol's Ski Swap, the city's Parks and Recreation Dept. is sponsoring a "Sports Swap" this weekend. Any sports related item, including uniforms, may be consigned today, Nov. 14, between noon and 8 p.m. Tomorrow is sale day, 10 to 5, and Sunday is when you pick up your money (minus a 10% commission) or unsold stuff. The Sports Swap will be held at the Wells Park Community Center, 5th and Mountain Rd. NW.

Get Forms Now For T-VI Signup

Pre-registration for T-VI's winter trimester runs from Nov. 24 through Dec. 12, while registration itself takes place Dec. 29-30 for those accepted into classes.

Sandians may enroll in T-VI evening courses on a cost-free basis provided the course is job-related or relates to a job to which the employee may logically aspire.

Pre-registration forms and T-VI catalogs may be obtained from Ruth Brooks of Education and Training Division 4231, Bldg. 632. The T-VI forms as well as Sandia enrollment cards must be validated by Division 4231 if you wish to take the course at no cost. T-VI classes start Jan. 12.

MILEPOSTS

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November 1975



Margaret Conmey - 9536

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Fred Bentz - 3725

25



Lewis Hake - 2324

25



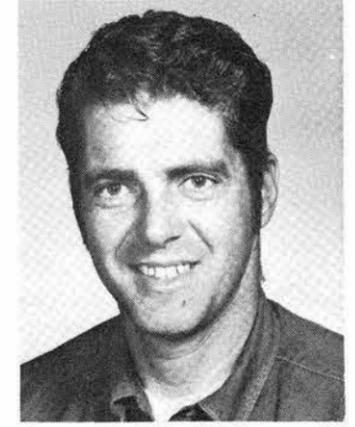
Tom Linnerooth - 2142

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Clifford Hiner - 9550

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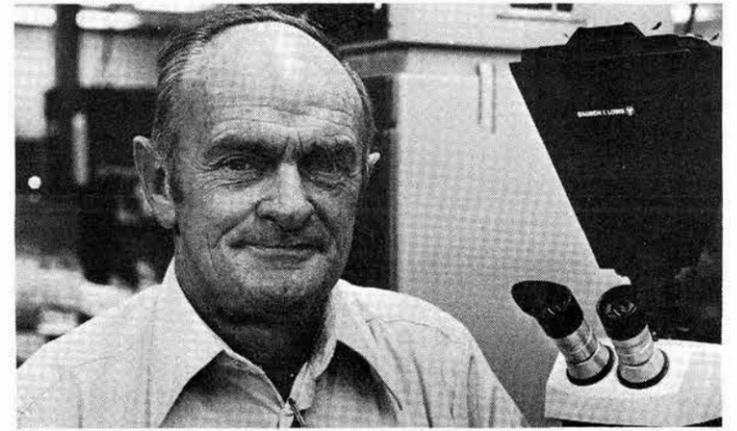
James Wright - 1712

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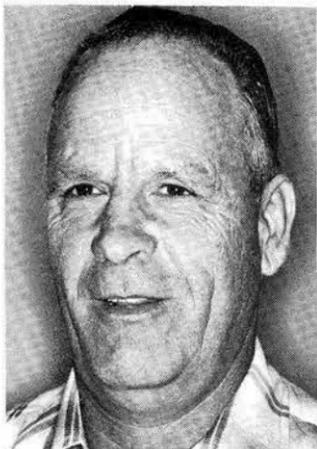
Glenn Wright - 3613

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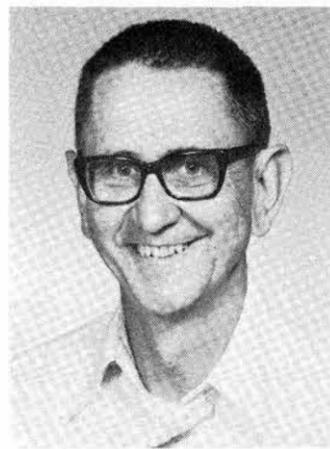
Werner Kuhn - 9512

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William Blythe - 1131

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Clarence Skillern - 3311

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Richard Cash - 9550

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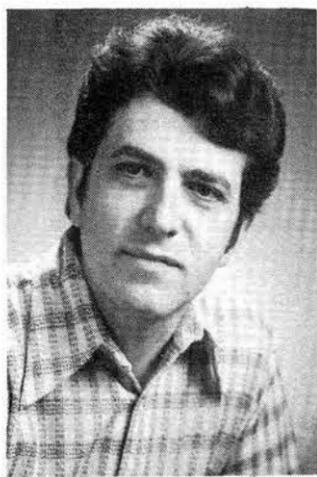
Robert Beyatte - 9415

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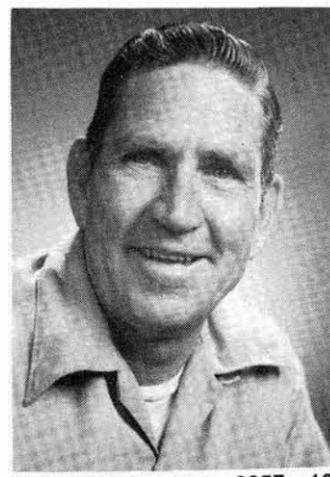
Luciano Archuleta - 9550

25



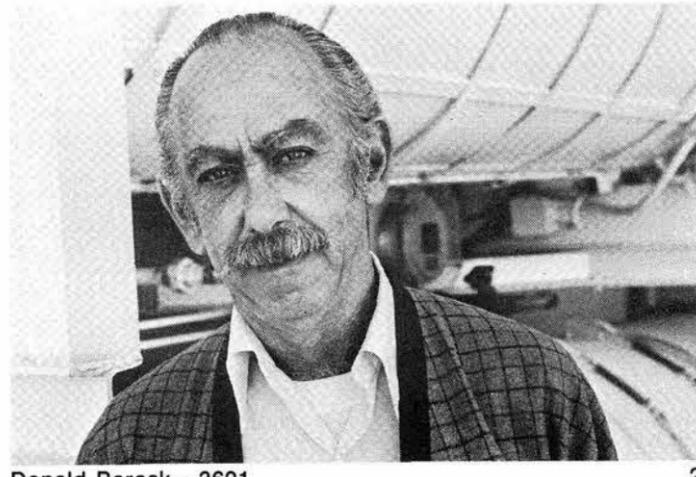
Rich Campiotti - 8413

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Norm Colcleasure - 8257

10



Donald Barack - 3621

25



Marge Mederios - 8252

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KEEP ON TRUCKIN' is what someone told the Motor Pool. We had a little overreaction, but the buyer did get a great volume discount. Rebate? Well, no. Actually, the rigs are destined for ERDA/ALO for use in their transportation

safeguards system. Mechanics (l to r) Joe Castillo, Ray Sanchez, Ralph Miller and Charley Garcia are performing final checks on the new trucks.

JUNK • GOODIES • TRASH • ANTIQUES • KLUNKERS • CREAM PUFFS • HOUSES • HOVELS • LOST • FOUND • WANTED • & THINGS

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

RULES

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

TRANSPORTATION

- '64 INTERNATIONAL Travelall, AC, R&H, \$650. Longfellow, 299-7062.
- '74 MG-B wire wheels, in-dash AM/FM radio & 8-track FM stereo, below Blue book, will consider offer. Arellano, 344-2723.
- '72 YAMAHA, 175cc Enduro, 2800 miles, \$450. Babb, 255-1781 after 5.
- '70 HONDA 750, low mileage, many extras, Dunn, 345-6466 after 5.
- '73 DATSUN 240-Z, 18,500 miles, 19 mpg in town, 25 on the highway, \$4250. Stromberg, 255-6131.
- '71 FORD custom 4-dr., AT, PB, PS, below book at \$850. Jones, 299-4900.
- '69 RAMBLER Ambassador, 4-dr. sedan, PB, PS, AC, R&H. Miller, 255-1838.
- '72 STEENS All Sport motorcycle, 100cc, \$250. Navratil, 268-1879.
- '70 PENTON, 125cc, dirt bike, \$175. Lewis, 296-7896.
- '73 HONDA, XL-250, 4700 miles, \$675; '75 Honda, CB-125, 300 miles, \$550. Cranfill, 298-3194.
- '67 MUSTANG, AT, good engine, 289-V8, needs tires & body work, \$200 or best offer. Frank, 294-3445.
- YAMAHA 125cc motorcycle, \$350. Wagner, 299-6886 after 5.
- '69 MERCURY Marquis station wagon, PS, PB, AC, AT, 9-passenger, 429, 1 owner, \$1200. Kruse, 298-2364 after 5:30.
- '73 SUZUKI, GT-250, 8500 miles, \$600. Eiffert, 294-7668.
- VW Rabbit, 2-dr., custom, 6 mo.

- old, 4000 miles, \$3400. Lipkin, 883-0344.
- '57 FORD pickup, bad trans., \$250; '70 Ducati 450 Desmo; Yamaha 100 & Honda 90. Carlson, 299-6610.
- 10-SPEED bike, Chiorda, needs minor repair, \$45; Ektar Kodak pocket Instamatic 50, F-2.7 lens, \$45. Lollis, 299-5384.
- '65 PLYMOUTH str. wgn., \$250. Hoff, 298-2248.
- '74 VW Super Beetle, yellow, 24,000 miles, new tires, radio, below NADA, \$2650. Sublett, 298-1004.
- '69 CHEVY, 3/4 ton, V8, auto., LWB, 2 aux. tanks, 7500 GVW, Hellwig springs, \$1000 firm. Roberts, 298-9163.
- '67 FORD Galaxie 500, 4-dr. HT, PS, PB, AC, AT, 390, radio, radials, dual exhausts, 65,000 miles, one owner, \$850. Wilson, 299-1480.
- '72 CHEVY VEGA, hatchback, new tires, \$1400. Weatherbee, 869-2150.
- OPEN ROAD CAMPER, sleeps 6, with or without 3/4-ton Ford truck, AT, powerful AC, extra gas tank. Stixrud, 298-0478.
- '71 CADILLAC coupe, new paint, wiring & battery, \$500 under book retail. Dameron, 298-4192.

MISCELLANEOUS

- TRASH bags, \$4 box of 50. So. Hwy. 10 Project. LAB NEWS office.
- CAMPER ice box, beige door, 20"x25"x18" deep, \$30 or trade for welding. Norris, 299-4717.
- KENMORE automatic washing machine, \$25. Kelley, 292-2434.
- 2 AUXILIARY gas tanks, steel, 18 gal. ea. w/fittings for lwb truck, \$150. Treharn, 869-2583.
- MOBILE home, 2-bdr., fully furnished, skirted, reasonable down payment, Four Hills Mobile Park, no agents. Williams, 298-2768.
- OAK dbl/dresser w/mirror & night stand, commode type, Spanish style w/carved drawers, Micarta tops. Robertson, 299-7561.

- POKER table, 52 1/2" dia., \$45; 35 cup Mirro electric percolator, \$5. Morter, 256-7843.
- 40" ELECTRIC range, white, Kelvinator, \$45; medical oxygen valve & gauges & tank standards, 1 set, half price. Sherwood, 299-2169.
- NAVAJO rugs, small collection of Yeis, Two Gray Hills, etc., 33% below retail price. McGee, 299-0661.
- 30" WINNEBAGO camper shell, insulated, \$350 or best offer. Baca, 293-8710.
- J78-15 TIRES, 4 full ply plus 2 belts, 2 have 80% tread remaining, 2 30%. Stuart, 299-9190.
- SPRINGFIELD rifle, factory blued, Lyman target sights front & rear, type C stock plus sling, \$100. Larson, 268-7880.
- GAS stove, apt. size, gold, \$100; 5000 btu AC, \$50; womans winter coat, size 12, \$20. Butz, 293-4190.
- 2 TRUCK wheels, 6 ply tires, 3000 miles, new heavy duty tubes, 6 hole rims, 700-15, \$85. Monroe, 299-3041.
- TYPEWRITER, Royal Futura, portable, new \$60; new stainless steel chicken fryer. Young, 265-7238.
- WINCHESTER 51D match rifle, used very little, Redfield Olympic rear sight, Lyman 17A front sight, Freeland sling, case, \$280. Stuart, 299-9190.
- TERRARIUMS. Miller, 268-5992.
- 19' REFRIG/FREEZER, ice maker, needs freon or compressor service, runs warm, \$50, you haul it. Hymer, 298-2232.
- GERBIL cage, Habitrail, \$15; Sears 10-spd. bike, \$60. Kenna, 298-6059.
- SET of tire chains for 165-15 tires, \$10. Smith, 299-6873.
- TIRE chains, fit 6.00, 6.40-15, 6.70-15, 7.50-14 & similar sizes, \$8. Caskey, 294-3218.
- NEAR new Armac Air Hockey, 6 ft., \$130; Hansen ski boots, Riva soft, 9-med, worn twice, \$55. Hopper, 292-3059.
- PAIR hockey skates, size 8, \$6. Kingsley, 299-1226.
- EICO model 3170, 40-watt, solid-state stereo amplifier, phono, mike, tuner input, 4-speaker drive, \$70. Jercinovic, 255-8027.

- BELL & Howell slide projector, 20 slide trays; Rolleiflex camera, \$100. 6500 Cochiti Rd. SE SP-56, Hiltunen.
- ELECTRONIC test equipment: meters, bridges, counter, signal generators, general radio, HP, Military, Honeywell. Howard, 281-5279.
- 30.06 Entfield, sporterized, 4x Weaver scope, \$125; disc sander, heavy duty, \$50; 6 ft. mortar box, \$25. Schulze, 898-2880.
- PORCELAIN iron hanging sink, comp/w faucets, \$15; medicine cab, w/plate glass sliding doors & glass shelves, \$10. Trump, 299-5162.
- PINBALL machine, full size, \$160. Baack, 296-2312.
- TURNTABLE; Rekokut turntable w/Dynaco arm & cartridge, new stylus, \$30. Drumheller, 296-1023.
- FIREPLACE screen, folding type, \$7; bathroom sink, \$6. Vigil, 298-6518.
- STRAWBERRY plants, 12 for 95c; horticulture & greenhouse kit, \$20; National Geographic mag's, 6 for \$1. Browning, 299-6384.
- FISHER-PRICE pre-school toys, several riding toys; 7-piece dinette set, \$25. Shenk, 296-6015.
- LOOK-NEVADA ski bindings, new, never mounted. Leroy, 296-2953.
- SIMMONS hide-a-bed, needs upholstering, \$25; wood frame studio couch, black cushions, \$30; 12'x7' Reed drapes, \$10. Davis, 266-7246.
- SNOW CHAINS, \$15; twin bed box spring, \$10; twin bed headboard, \$5; Scott's seed spreader, \$10; wheelbarrow, \$5. Schubeck, 294-5666.
- KITCHEN TABLE, 4 chairs, 47x36 & 2 1 1/2" leaves, utility cart, \$35; high chair, stainless tray, \$8; stereo cabinets, equipment & 2 speaker enclosures, \$50. Longfellow, 299-7062.
- TWO GARAGE DOORS, \$25; counter top, sink, faucets, \$18; 2 gal. semi-gloss paint, \$5/ea.; metal desk, \$20; pickup fender, \$15. Aragon, 294-0225.

REAL ESTATE

- 3-BDR. HOUSE, 1 3/4 bath, lg.

- yard, sprinkler system in front. Ortiz, 836-5050 day, 836-0879 evening.
- 4-BDR. MOSSMAN, near schools, shopping, work; customized brick, shake shingles, DR, den, decorator interior, 2-1/2-size garage, landscaped, sprinklers, 2450 sq. ft. Sektnan, 293-7961.
- 3-BDR., adobe construction, 6' walled backyard, wrought iron gates, carpeted, new bathroom, AC, price negotiable, Gibson & Edith SE. Gonzales, 766-4355 or 294-5756.
- BRICK, 4-bdr., lg. den, custom kitchen, many extras, \$38,000. Lovato, 299-1375.

FOR RENT

- 3-BDR. HOUSE, FURNISHED, LR, dining area, kitchen, carport, near Nob Hill shopping center, bus service, UNM. Blea, 268-5216.

WANTED

- HOUSE OR APT. for house-sitting or rent by visiting professor Dec. and Jan. or portion. Hawkinson, 298-5239, or Gardner, 898-6523.
- '71-'73 FORD or Dodge heavy duty 3/4T, 2-wd or 4-wd; needs PS, PB, AC, aux. tank; prefer 4-spd. Cook, 299-2348.
- MIDDLE SCHOOL needs donations of used paperback books for reading program; please call 296-2295 after 4 to arrange for pickup. Schimmel.

LOST AND FOUND

- LOST — Envelope containing pictures; plastic holder containing ID card, driver's license, pictures; 2-blade stainless steel pocket knife; bifocals w/black frames; tan gloves w/strips of lt. tan leather; silver rimmed safety Rx glasses; pin shell heishi earring; man's brown sweater.
- FOUND — Sandia 10-yr award bola tie; 2 cabinet keys on keyring; Rx glasses in hard plastic case; heart shaped turquoise earring; man's glasses, bifocal, black plastic frames. LOST AND FOUND, Bldg. 832, 4-3441.

FRIDAY	SATURDAY
14 — HAPPY HOUR BARBEQUE BUFFET Adults \$2.95 Under 12 1.95 MIDNIGHT SPECIAL <i>Denny in the Lounge</i>	15 FRENCH QUARTER NITE Cocktails @ 6 Dinner @ 7 <i>Can-Can-Doers 7:30-8:30</i> DIXIE KINGS Reservations Only (LOBO BUS @ 12:45)
21 — HAPPY HOUR SEAFOOD BUFFET Adults \$2.95 Under 12 1.95 Honeydrops On Stage PRISONERS	22 — TEEN DANCE KICK 7:30-10:30 Members 25¢ Guests 50¢
28 — HAPPY HOUR (Begins at 4) NO BUFFET Ralph Vincent in Lounge	29 — NOTHING WHATEVER TO DO

BETTER — find a friend, foe, or family member and foot it (or tire it) to Happy Hour tonight. Club Manager Dave Foster has done what Eve did when Adam came home late,* found some spares, barbecued them, and added home-fried potatoes, corn-on-the-cob, lots of salad, and candlelight (ever eat a flicker?). That's from 6 to 8. Then dance (if you feel like it) to Midnight Special (you'll feel like it), or catch Denny in the Lounge at 9:30. He's added a seventh string to his Guaranteed Guitar so he can do a real low-key show.

TO — your Calendar of Social Engagements, add "Seafood!" on the 21st. Make it to Happy Hour next Friday and you'll be happy as a clam. Maybe happier — all the little clams are fried. So are the scallops for your rough edges. The catfish are baked, the potatoes au gratined, the salads hand fabricated. To complete the evening, the Honeydrops on stage and the Prisoners playing Rock, in the Cradle of the Deep known as the bandstand.

HAVE — you considered a Christmas party at the Club seriously? Have you considered one jocularly? Either way, call Sandi, the most Catering of Secretaries, and she'll trot out the party packages both great and small.

*counted his ribs



"MAYBE if we sell the T-Bird we can afford a full-sized turkey next year." That's the plight facing us all — the Club is closed Thanksgiving Day. But most of us don't have a '57 Thunderbird; this one belongs to Martha Colp, wife of John (5717). Peggy Gonzales (AFCMD) and Rick Kiehl (5113) are left holding the bag and the bird.

LOVED — that last Super Buffet, did you? Well, good buddy/buddette, you ain't et nothin yet. Match this menu for \$3.50: carved round of roast beef; carved, or maybe whittled, ham; coq au vin rouge which sounds nicer than rooster in the muscatel; lobster newberg; vegetables; and salads — a chef's dozen of them. That's Super Happy Hour Buffet on the 5th.

A — Kick for teens is assured on the 22nd because Kick is the band. Guess they'll play only this one time — we don't want any Kickback at the Club.

SHORT — grows the time to make the Conquistador Cruise to the Caribbean at Christmas. Tomorrow the Cash.

THAN — now. That's what there's no better time to resolve to reserve for French Quarter Night earlier next time. French dances, New Orleans food, and all that jazz. Tomorrow night, ticket bearers.

NEVER — on Sunday and sometimes not on Friday either. Yes, the Club's famous extra-low-calorie No Buffet returns on the 28th. Heading the menu: hand-carved doughnut holes with dirigible stuffing. Double your money back if you overeat on this one. Ralph Vincent in the Lounge from 7 to 10.

TO — get season lift and tram passes for the Peak at a discount, join the Ski Club and get the money in by the 24th. You save enough on the first discount to pay your membership; from there on it's benefit. Don't join, pay full price, and you'll get Piker's Pique.

HAVE — you told your car lately that you love it? Do it by leaving it tucked atop the asphalt blanket of the Club's parking lot while you bus off to: 1) the Wyoming football game on the 15th; and 2) the Cal State LA basketball game (team coached by Norm Ellenberger) on the 3rd. Former departs at 12:45; latter at 6:45; latter will have a radio to

pick up pre- and post-game blurbs. 50¢ members, \$1 guests, Happy Hour before and after. By the way, if you plan to bus to some or all of the basketball games, call the Club and give them your name (they'll give it back afterward). You see, someone has to know how many buses.

LOVED — ones of Sanadoes (including some husbands) will gather Dec. 6 for the gala Snowflake Ball. Fantastic decorations — snowflakes, snowballs, snowmen, snowwomen (snowjoke) — by Marcia Meyers to deck the halls and the rest of the place throughout December. Midnight Special for dancing. Sandra Ruth (at 12021 Donna Ct. NE, 87112) for reserving. Do it by the 1st.

A — flick freak with a \$10 a week habit can reduce expenses to \$7 with the Commonwealth Theatre discount tickets available to members at the Club.

TALL — and tan and young and lovely . . . If all you can do is hum along, sign up for the dance lessons coming up in January. \$20 and six Thursday evenings and presto! you'll do the Bossa Nova (and lots of other dances sanctioned by the Sally Rand Fanned Club).

MORE INFO — 265-6791