



# LAB NEWS

VOL. 35, NO. 13

JUNE 24, 1983



THIRTEEN-ROCKET SALVO above flies toward a target with no significant interference among the rockets. Before the launch (right), the rockets were arranged in a concentric cluster. A computer model of trajectories led to a firing sequence that minimized in-flight interference but allowed all 13 to strike the target simultaneously.

## ***Computer Model the Key***

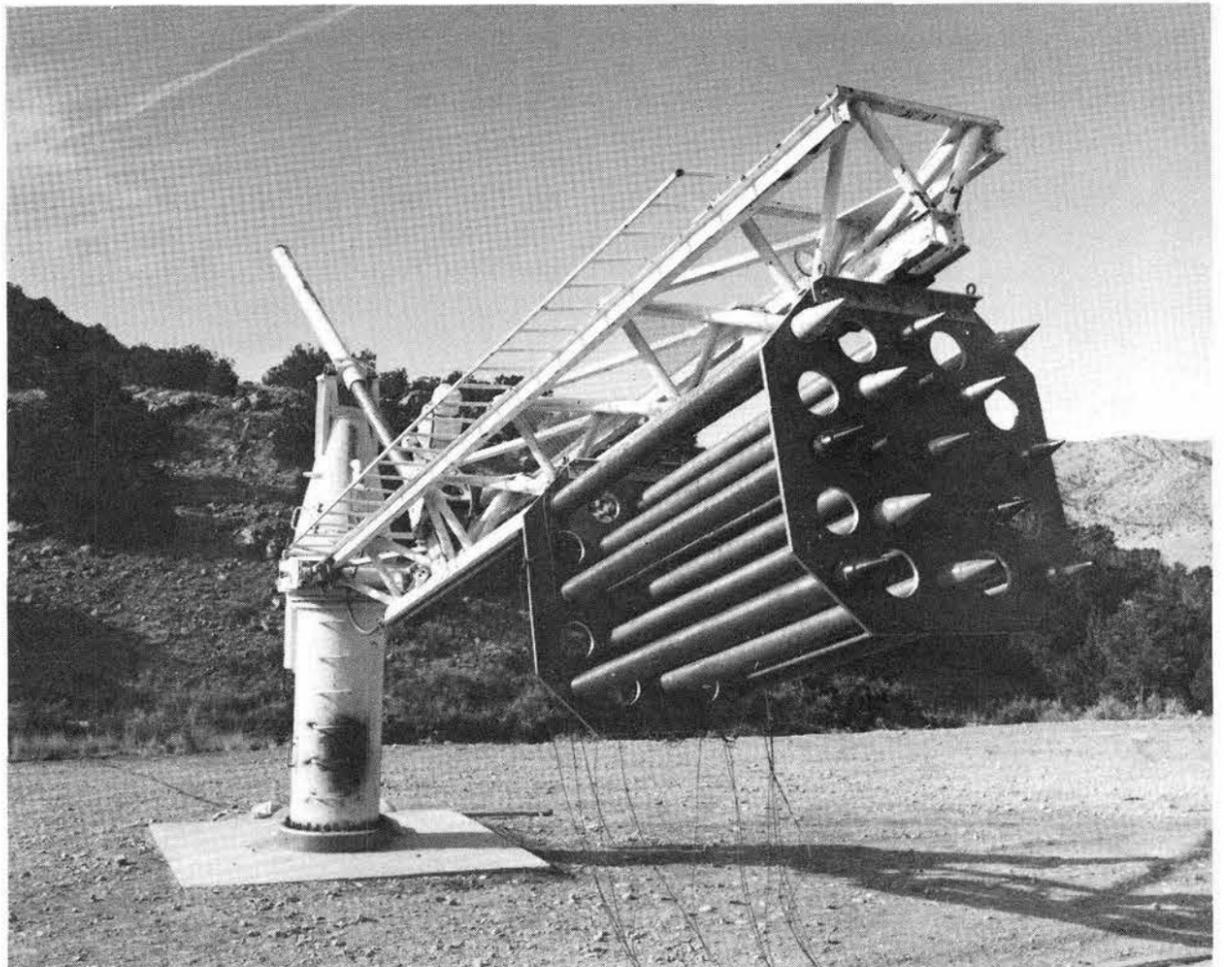
### **Rocket Salvo Accuracy Improved**

When a 13-rocket salvo is launched, the rockets tend to collide and thus break formation, reducing their accuracy. Solving the problem took a computer code that modeled the flight conditions of a multiple rocket launch and predicted the resulting impact patterns.

The whole idea of firing such a salvo in the first place came from Larry Rollstin (1635). He also devised the multi-tube launcher that made it possible.

The rockets were arranged in concentric rectangles — eight in the outside rectangle, four in the inner rectangle, and one in the center. High-speed films of the launch showed that the rockets had broken formation radically during flight, thus confirming the impact pattern, which showed no trace of the original concentric design.

At that point, Larry explained the problem to Jim Purvis (1632). Jim developed a computer simulation of the rocket salvo. He first identified the major factors affecting rockets fired in a tightly packed cluster —



aerodynamic interference, plume (rocket exhaust) interference, interaction between plume and launcher, collisions, and crosswind effects — and then incorporated these effects in a conventional flight simulation computer code. The resulting model predicted the rockets' trajectories accurately.

In addition, analysis of the model indicated that a small variation in rocket ignition times — on the order of a few millise-

conds — allowed the plumes of some rockets to interfere with the aerodynamics of their neighbors. This interference caused them to deviate from their flightpaths and led to collisions between some rockets.

In the later tests, then, ignition was deliberately staged to ensure a "ripple" of launches — the outer eight rockets were ignited first, then the inner four, and finally

*(Continued on Page Two)*

# Antojitos

On Writing, By Committee & Otherwise. Editors (and tech writers and supervisors, often) have jobs because of the infinite number of ways in which a given idea can be written. Some ways are stronger--more clear, more direct, more memorable. Some are more fun--for word-smiths, at least. Some have a warm personal tone; others are quite formal; still others, neutral.

Editing doesn't always improve writing. It was after I had re-written someone's Weekly Bulletin item--making it, of course, far stronger in terms of its communicative value but, it seems, changing the intended meaning (just a little)--that I received from the someone this bit of office graffiti: "The strongest drive is not love or hate. It is one person's need to ~~change amend modify revise alter~~ ~~ekop te pieees~~ rewrite another's copy.

If, however, you really want to castrate your correspondence, form a committee. That precept was driven home recently when the national media disclosed that the most stirring phrase in the report by the National Commission on Excellence in Education, the one decrying "the rising tide of mediocrity" in our schools, was not written by the committee as a whole but by the two or three people who wrote the introduction--one of them, no doubt, a skilled editor.

•BH

## Do You Like Kipling?\*

"There are nine and sixty ways of constructing tribal lays,\*\*  
And every single one of them is right."

--Rudyard Kipling

\* I don't know. I've never kippled.

\*\* A lay is a simple narrative poem or ballad, I hasten to explain.

## Goodbye, SAO

As part of an organizational realignment within DOE's Albuquerque Operations Office, the Sandia Area Office (SAO) has been abolished. Its functions have been placed in the newly created Management Support Division, Office of Administration.

The functions of SAO have been transferred into two branches of the new division, the Contract Administration Branch and the Engineering and Construction Branch. The other two branches in the division are the Real Estate and Traffic Management Branch and the Support Services Branch. The director and deputy director of the division are, respectively, Mary Carlyon and Royce Taylor.

Leo Apodaca, former Chief of the Administrative Branch, SAO, is the Chief of

the new Contract Administration Branch and Rick Sneddon, former Chief of SAO's Facilities Branch, is Chief of the new Engineering and Construction Branch.

In May, Gil Cordova, Area Manager, SAO, was reassigned to the newly established position of Director of Business and Community Affairs, Office of the Manager, Albuquerque Operations Office.

The employees of the Contract Administration Branch and the Engineering and Construction Branch will be located in Bldg. 800 until September, when they will move to the Albuquerque Operations Office complex.

## DOE Secretary Praises Sandians

*The letter below was recently received by President Dacey:*

I would like to offer my personal thanks for the work done by the staff of the Sandia National Laboratories during the International Science and Engineering Fair which was held recently in Albuquerque.

We have been informed that the ISEF was an outstanding success and that the DOE and its contractors helped to "make it happen." Your organization provided many vital services to the ISEF including judges, tours of your facilities and help with the operation of the Fair.

Your commitment and that of your associates to science education and community service are deeply appreciated.

Thank you for a job well done.

/s/ Donald Paul Hodel  
Secretary of Energy

Continued from Page One

## Rocket Salvo

the center one. The second and third waves were weight-adjusted to increase their velocities so that the entire flight would impact at the same time. No collisions. Success!

The ability to fire such a salvo should be useful in future research on the dynamics of weapons systems that include a number of individual devices packaged as in the cluster bomb concept.

In addition to Larry and Jim, these Sandians contributed to the project: Jack Balhman and Judy Gudovich (both 1653), structural design of launcher and vehicles; Tom Stueber (7535), coordinator of tests in Coyote Canyon Test Complex; Leroy Paulson and Curly Saxton (both 7556), high-speed camera coverage; and several development shop (7400) people.

## Deaths

Lynda Cole, secretary to Buildings and Facilities Design Division IV 3632, died June 8 after a long illness. She was 33.

She had worked at Sandia since February 1976.

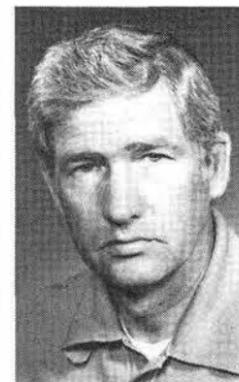
Survivors include her husband and a daughter.



Robert Ault of Centrifuge, Climatic, Radiant Heat Division 7531 died following surgery June 10. He was 59.

He has worked at the Labs since July 1953.

Survivors include his widow and a son.



Carl Duimstra of Field Instrumentation Division II 7124 died June 19 after a water-skiing accident at Elephant Butte. He was 51.

He had worked at Sandia 26 years.

Survivors include his widow, three daughters, and a son.



Fritz Arensdorf of Still Photo Services Section 3155-2 died suddenly June 19. He was 63.

He had worked at the Labs 26 years.

Survivors include his widow and three daughters.



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## Thermal Storage Power Generated

For the first time, the solar thermal pilot plant, "Solar One," at Barstow has successfully generated electrical power from the thermal storage system at maximum energy levels for a prolonged period.

Last month heat from the storage tank's oil (plus sand and gravel) provided 43.4 megawatt hours of electricity, exceeding the design goal — 28 MW hours — by a considerable amount. The storage facility, designed to produce a peak power of 7 MW of electricity for at least four hours, achieved a 7.2 MWe peak for four hours during the test, which lasted seven hours 43 minutes.

Al Skinrod, supervisor of Solar Systems Evaluation Division 8452, said the group is very pleased with the results to date. Sandia will continue to test Solar One's capabilities during the two-year testing and evaluation phase for which Sandia is DOE's technical manager.

Sandia teams at the site are working with Southern California Edison Co. and contractors to check out all modes of the plant, gather engineering data to calculate performance, and install an automatic computerized control system for the pilot plant. After the test and evaluation phase, the current agreement with DOE calls for SCE to operate the facility as a power plant for three years.

### Congratulations

Doris Williams (8271) and Felix Johnson (8413), married in Oakland, May 28.



## Pollutants in Combustion Modeled

Soot and other pollutants may not be an inevitable by-product of combustion. That's one finding based on new, detailed, and comprehensive chemical kinetic models developed by Jim Miller (Combustion Chemistry Division 8513), Bob Kee and Mitch Smooke (Applied Mathematics Division 8331), and Reggie Mitchell (Combustion Research Division 8521).

"One of our objectives is to understand how the burning of a simple fuel like methane or acetylene forms soot," says Jim. "So we're looking first at the gas phase combustion of small hydrocarbon fuels, that is, those with a simple molecular structure. We also study the formation of oxides of nitrogen in flames. Nitric oxide is one of the constituents of noxious pollutants like the brown smog of Los Angeles. Our group studies, both theoretically and experimentally, elementary chemical reaction kinetics."

Bob Kee and Mitch Smooke develop the mathematical tools that are used to solve the equations that describe the pollutant formation process, while Reggie and Jim have developed the elementary kinetic description. They are studying these processes in acetylene to see how straight chain



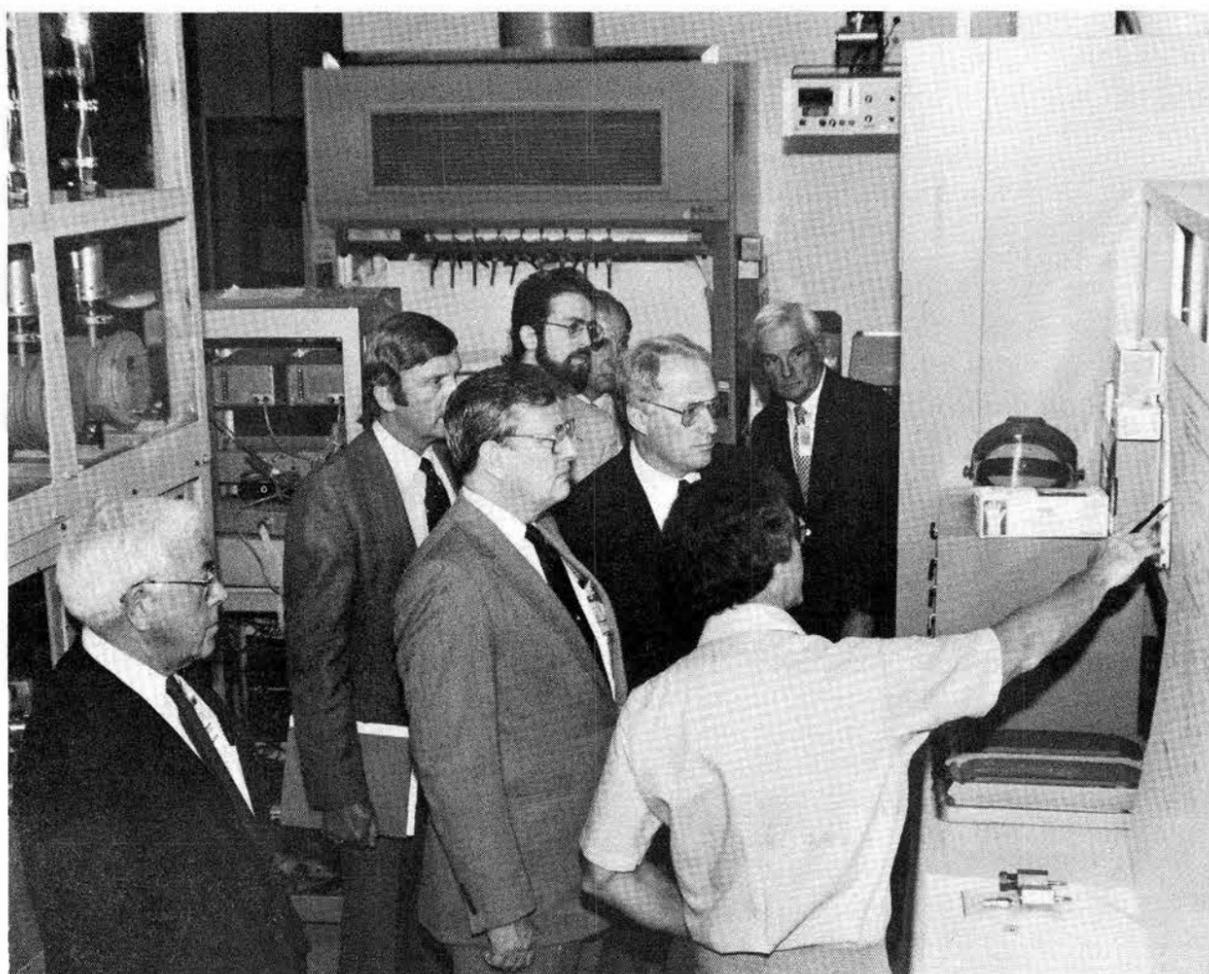
JIM MILLER (8513) and Bob Kee (8331) discuss the new chemical kinetic models they have developed that indicate that soot and other pollutants may not be inevitable by-products of combustion. The models, usually consisting of about 100 elementary reactions, serve as powerful tools in defining the chemical mechanism leading to pollutant formation in flames.

molecules change into ring molecules that are the precursors to soot.

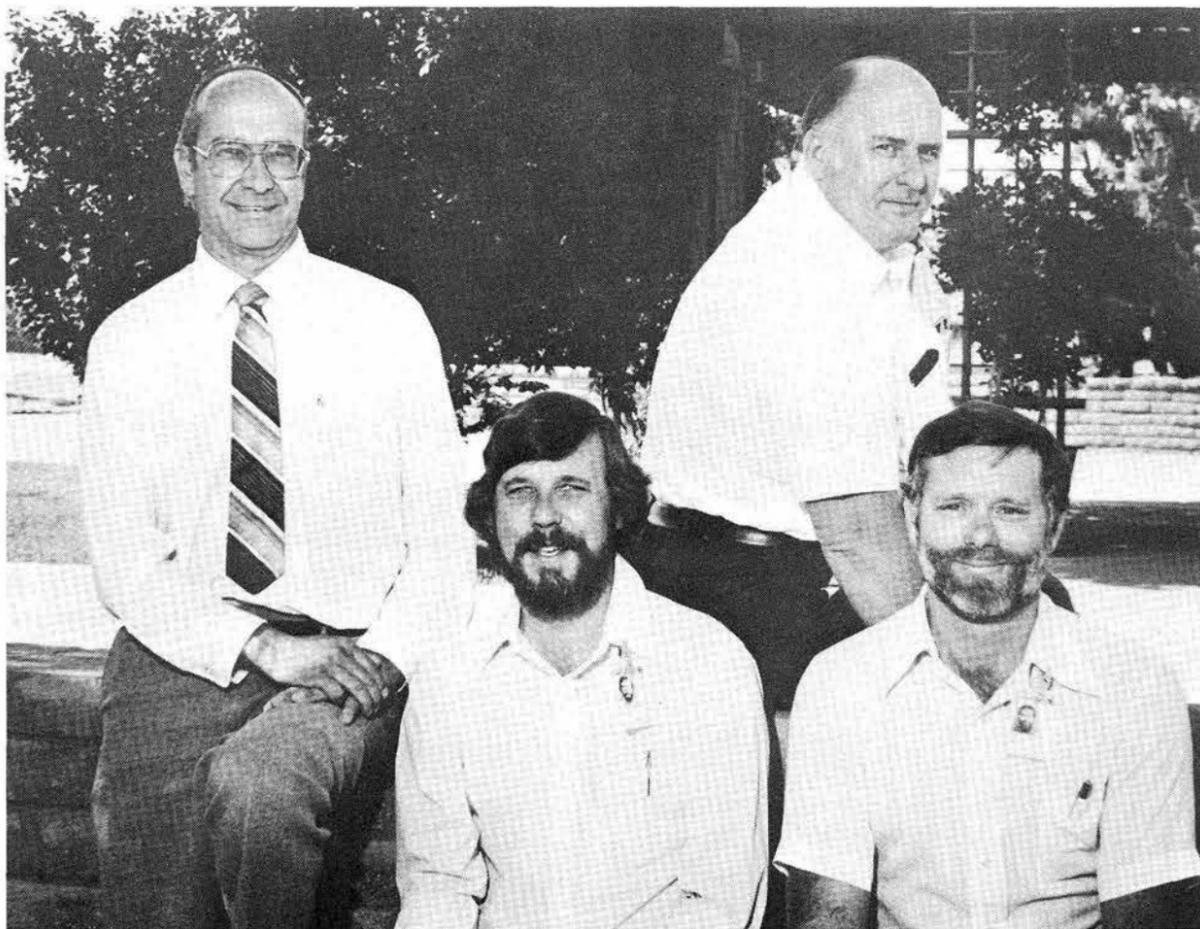
"And we're on the verge of reaching the point at which we understand that process," says Jim. "The gleam in the eye of people in our business is to find the 'chemical X' that will prevent pollutant formation. Our group has been instrumental in explaining why adding 'just the right amount' of ammonia to exhaust gases containing nitric oxide forms nonpolluting water and nitrogen. However, as of now, our work on soot is still theoretical — we don't know what chemical to add yet."

"Our job," says Bob, "is to bring together a lot of data on elementary chemical reactions. We use theory to supplement that data. We've described, satisfactorily I think, how acetylene burns to form intermediate products that ultimately become the soot. Now the process of forming soot itself has to be described chemically. During hydrocarbon combustion, the formation of ring molecules leads to soot. If we can figure out how this happens then perhaps we can do something about it. But we're still years away from this goal."

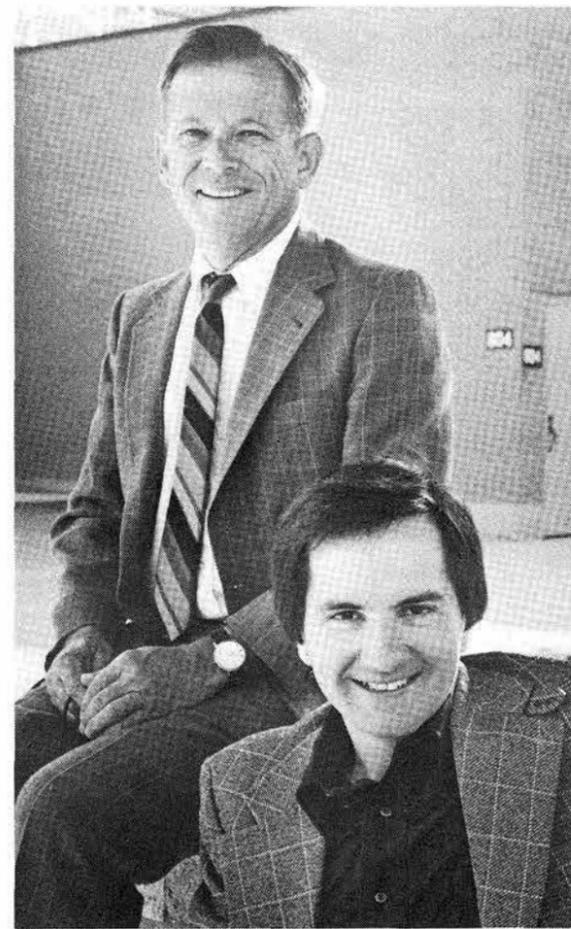
"The idea is to be comprehensive," adds Jim, "to explain everything with our chemical kinetic model. We do a lot of calculations to try to predict the results of flame, shock tube, and flow reactor experiments. This is where Bob and Mitch come in with their sophisticated computer modeling." The accuracy of the models is continually improved by comparing these computations with a wide variety of experimental results. The models, usually consisting of about 100 elementary reactions, serve as powerful tools in defining the chemical mechanisms that lead to pollutant formation in flames.



REPRESENTATIVES of the materials research and development panel of the Energy Research Advisory Board for DOE visited Sandia last month. The group received briefings then toured the Tritium Research Laboratory and the Combustion Research Facility. Shown listening to Steve Robinson (8314) in the TRL's materials characterization lab are (l to r) Albert Clogston, William Gouth (DOE/SAN), Arden Bement Jr., Mark Schanfein (DOE/SAN), Walter Bauer (8340), Dale Stein and Dick Claassen (8000).



NEW SUPERVISORS — From left are Dick Craner (3180), Tom Simpson (7481), Bruce MacLeon (3742-1), and Bill Shurtleff (7551).



John Walter (7480) and Dennis Berry (9447)

## Supervisory Appointments

**DICK CRANER** to manager of Classification and Sensitive Information Review Department 3180, effective June 16.

Dick joined the Labs in 1960 as an MTS at SLL. He worked at Livermore for seven years with the preliminary design group, weapons projects, and nuclear safety studies organizations. Transferring to SLA in 1967, he joined the systems research department and was promoted to division supervisor of that group in 1970. Five years later, he transferred to the Management Staff and, for the past four years, he's headed the Classification Division 3101.

Dick earned a BS in EE from the University of Idaho and an MS in EE from UC-Berkeley. He is a member of IEEE. Dick enjoys woodworking, home projects, and jogging. He and his wife Kathy have four children and live in NE Albuquerque.

\* \* \*

**TOM SIMPSON** to supervisor of Main Lab Division 7481, effective May 16.

Joining Sandia in 1963 as a machinist apprentice, Tom completed the apprenticeship program and then worked for several years in the machine shop. In 1975 he was promoted to section supervisor; most recently, he's headed the Heavy Machining Section 7483-1.

Tom attended NMSU for two years. Under one of Sandia's education programs, he earned a Technical Institute Equivalency (TIE) certificate in the mechanical program. He enjoys ranching, hunting, and fishing. Tom and his wife Yvonne have four children and live in the NE heights.

\* \* \*

**BRUCE MACLEOD** to supervisor of General Stores Section 3742-1, effective June 3.

Before joining the Labs in 1977, Bruce had worked for 12 years in the general

stores organization at Brookhaven National Labs. At Sandia he's worked in the custodial division, receiving organization, and general stores, most recently as a purchase analyst in Stock Control Section 3742-2.

Bruce is a collector — coins, trains, and anything pertaining to Norman Rockwell. He and his wife Mary have four children, two still at home. They live in NE Albuquerque.

\* \* \*

**BILL SHURTLEFF** to supervisor of Nondestructive Testing Division 7551, effective April 16.

Since joining the Labs in 1965 as a member of the Technical Development Program, Bill has worked in the Development Testing directorate, primarily with environmental testing facilities.

Bill earned his degrees — BS, MS, and PhD, all in EE — from UNM. His doctoral work was completed under Sandia's Educational Aids and the University Part-time programs. Bill enjoys biking, swimming, and aikido (a martial art). He and his wife Ann have five children and live in NE Albuquerque.

\* \* \*

**JOHN WALTER** to manager of Mechanical Processing Department 7480, effective June 1.

John joined the Labs in 1969 as an MTS in a component development division, which later evolved into the guidance and control component development group. In 1975 he was promoted to supervisor of a test equipment/instrumentation division. John remained with this group, currently named Electromechanical Component Test Equipment Division 2312, until his promotion.

He graduated from Stanford University with a BS, MS, and Degree of Engineering with an emphasis on mechanical structural engineering. Before joining the Labs, John had worked four years at ACF Industries in

Albuquerque and five years at Los Alamos National Labs. He enjoys tennis, skiing, and various home projects. John and his wife Pat have two married children and two still at home. They live in the NE heights.

\* \* \*

**DENNIS BERRY** to supervisor of Plant Aging & Fire Safety Division 9447, effective May 16.

Dennis joined the Labs in June 1977 as an MTS in the nuclear fuel cycle safety research organization. He has worked on several studies concerning nuclear power plant safety. Most recently, he was project leader of a study to determine methods for improving the decay heat removal systems in nuclear power plants.

Following graduation from Penn State with a BS in chemical engineering, Dennis joined the Navy and worked at the USAEC Division of Naval Reactors in Washington, D.C. from 1969 until 1973. He then earned an MS in chemical engineering from UC-Berkeley. Before joining the Labs he worked as a systems engineer at a power plant architect-engineering firm. At Sandia, Dennis attended UNM under two of the Labs' educational programs (EAP and UPT), and received his PhD, also in chemical engineering, last year. He enjoys skiing, camping, and hunting. Dennis, his wife Marjorie, and their son live in the NE heights.



### SMOKEY BLUES

Andrew Boettner of California has filed a [patent] application on a gadget to make life easier for singers in smokey night-clubs. It is a humidifier clipped to the microphone. The device contains a carbon dioxide cylinder which releases gas into a coiled chamber. A wick supplies the chamber with distilled water from a reservoir. As the gas leaks out of the coiled chamber it picks up water and forms a mist around the singer's head. It should last four hours, the inventor claims.

— *New Scientist*

## Gerry Yonas, Bob Clem on Special Assignment

Gerry Yonas, Director of Pulsed Power Sciences 1200, and Bob Clem, Director of Systems Studies 300, are spending the summer in Washington, D.C., on special assignment with the Defensive Technologies Study Team.

The work is a response to President Reagan's March 23 message in which he called for a long-term research and development program aimed at eliminating the threat of strategic nuclear missiles — a possible shift in national policy from offensive-based systems to defensive-based systems.

The Defensive Technologies Study Team consists of seven panels, or study groups. Gerry is chairman of the one on "Directed Energy Weapons" and Bob Clem is a member of the "Countermeasures and Tactics" group. Members of the panels are from industry, the national laboratories, and government agencies.

Work of the panels should be complete by Sept. 1 so that an integrated report can be ready for the White House by Oct. 1.

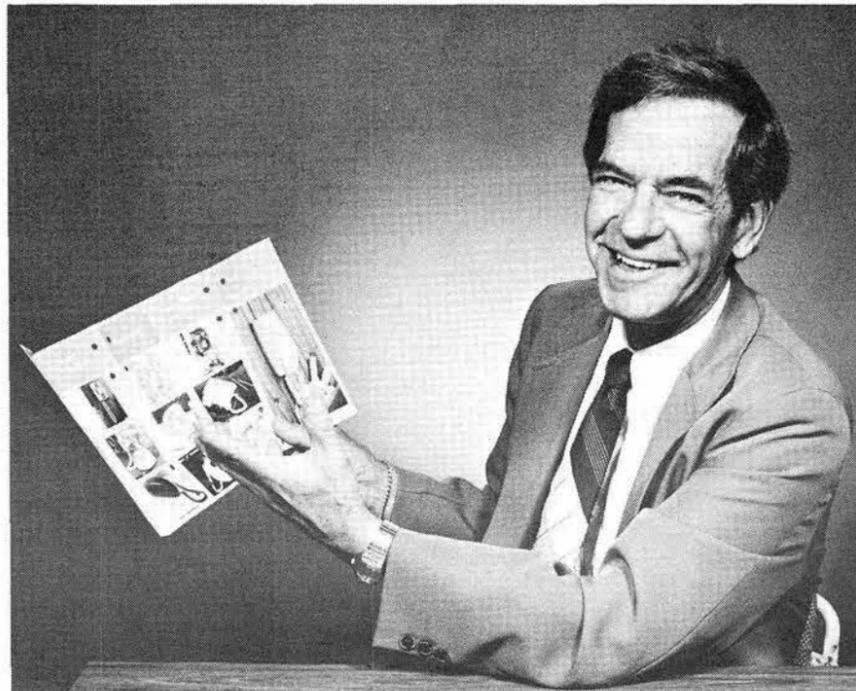
### Conference Bound Sandians Share Presentations Here

Several Sandians who will present papers at either IEEE's Nuclear and Space Radiation Effects conference or the HEART (Hardened Electronics and Radiation Technology) conference, both to be held in Tennessee in mid-July, will offer their presentations to fellow Sandians at a Radiation Effects Seminar on July 7 (all day) and 8 (till noon).

A total of 24 papers, representing over 50 authors, will be given. In addition, eight other Sandians have been invited to share papers written especially for the seminar.

The seminar is sponsored by Sandia's Radiation Hardening Coordinating Committee, chaired by Jim Gover (2155), who is general chairman of both of the conferences in Tennessee.

Interested Sandians are invited to attend the local sessions (in Bldg. 815, inside the area).



HAS "PHONE-SOME GEORGE" Wayland got a deal for you! He's honchoing the Western Electric phone sale to employees and retirees that begins in July.

## WE Phones For Sale

Western Electric telephones will be offered for sale to Sandians and retirees next month.

A brochure with models available — including traditional, Trimline®, Princess®, and Design Line phones and "customer convenience" products — will be distributed to employees after the Independence Day holiday; retirees will be sent a card to return if they're interested.

"We originated the employee sale program last year as a means of giving employees advantageous prices on products

the company supplies," says W.J. Warwick, vice-president of Business and Residence Products, WE. This is the first year that Sandians have been eligible for the program.

The sale, which will run from July 18 through December 2, will be handled by George Wayland (3543) in the Sandia Cafeteria from 1:30 to 4:00 p.m. Monday through Friday. After Aug. 12, George will be in Bldg. 832.

Other details will be covered in the July mailing.

## Events Calendar

*June 25* — Grand Opening of permanent exhibit: "Four Centuries: A History of Albuquerque," major interpretive exhibition of Albuquerque from the Spanish conquest to the atomic age. Central Gallery, Albuquerque Museum, 766-7878.

*June 25* — Chamber Orchestra of Albuquerque concert, violin soloist Kay Johnson Newnam performs Brahms and Beethoven, 8:15 p.m., Albuquerque Little Theatre, 247-0262.

*July 1-3, 8-10, 15-17* — "The Night Thoreau Spent in Jail," Adobe Theatre, 8:15 p.m., Corrales, 898-3323.

*July 1-24* — La Compañía presents "Gaspar"; also two one-act plays: "The Won-

derful Ice Cream Suit" and "The Veldt," both in English. 8 p.m. Fri. & Sat., 3 p.m. Sun., Nuestro Teatro, 256-7164.

*July 2-4* — Annual Indian Pueblo Cultural Center Crafts Fair; dances, 1 & 3 p.m., demonstrations, 10-5, 843-7270.

*July 3* — American Legion Post 13 Fireworks Display, ground & aerial displays with Spanish theme. University Stadium at dusk.

*July 3* — The NM Jazz Workshop presents NM Jazz Composer's Orchestra — a large group of musicians who will perform as a big band and in smaller groups. Madrid Ball Park on N. 14, food and refreshments, dress for hot sun, 2 p.m.

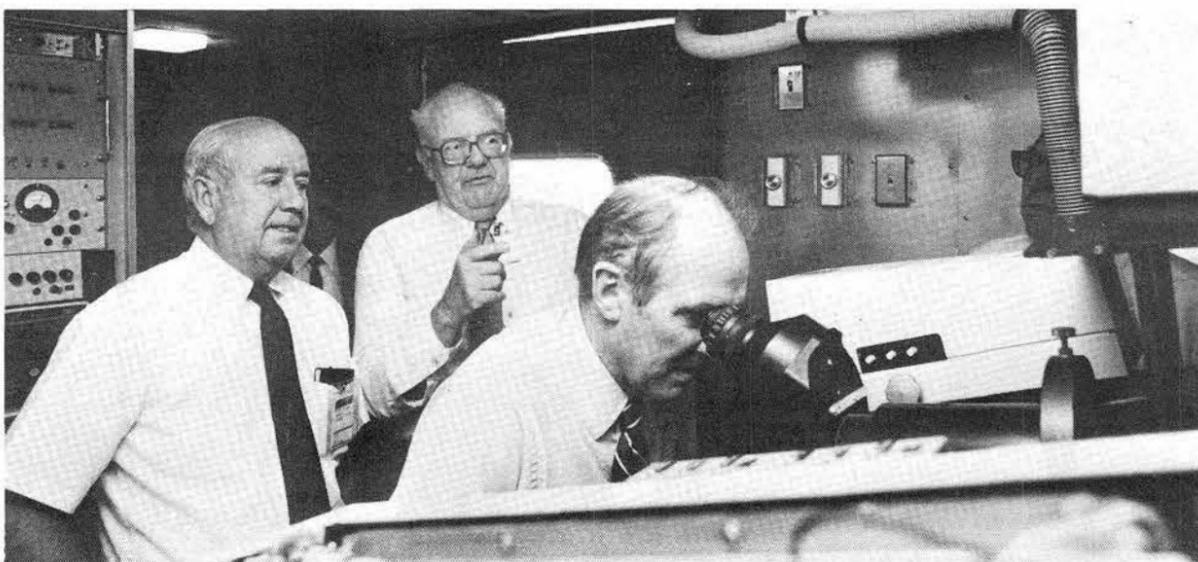
*July 4* — Tomé Village Fiesta, all day, 20 miles south on NM 47.

*July 4* — NM Symphony Orchestra Concert and Fireworks Display. On the green at Taylor Ranch, 8 p.m.

*July 4* — Nambé Pueblo: Nambé Waterfall Ceremonial; various dances by dancers from several pueblos, all afternoon, Nambé Falls Recreation Area.

*July 8* — Jefferson Salon: A one-man dramatization of the life of Thomas Jefferson, KiMo, 8 p.m.

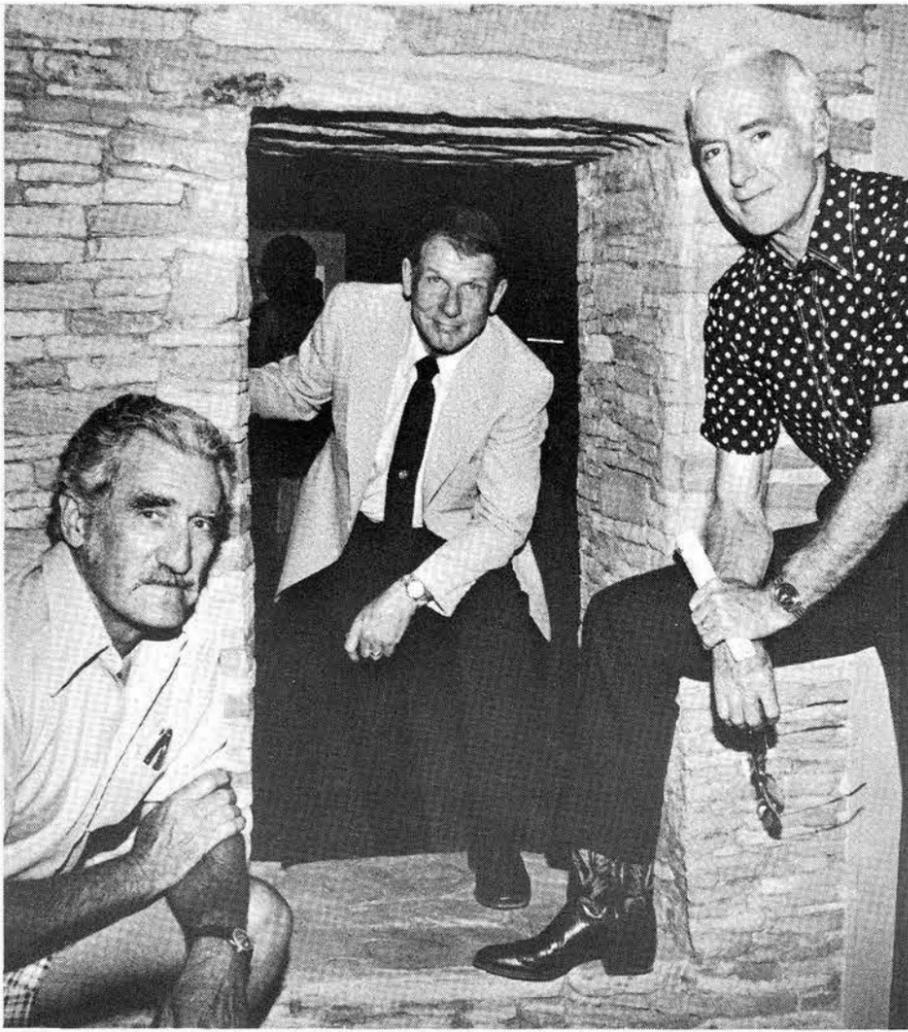
*July 8* — "You Can't Take it With You," 8 p.m. Fri. & Sat., 2:30 p.m. Sun., The Vortex, 247-8600.



INSIDE THE LASER TRACKER, Ian Ross, president of Bell Labs, observes preparations for a rocket test on the sled track in Area III. Waiting his turn is James Olson, chairman of the board of Western Electric. President Dacey hosted their visit, which included stops at the cable site and the Central Receiver Test Facility in addition to the sled track and briefings on the weapons program, arms control, energy, pulsed power, and radiation-hardened electronics.

### Early Deadline

Because of the July 4 holiday, the deadline for ads (and for other submissions) for the July 9 issue is noon on June 30.



"THE CHACO PHENOMENON" opened on June 12 at the Maxwell Museum to rave reviews. Sandia volunteers, who were instrumental in producing the full-scale copies of sections of the Chaco Canyon ruins, attended in force. In the photo at left are (l to r) John Shunny (ret.), Gene Frye (7472), and Hank Willis (3100). Examining a sample of their skilled handiwork are Ric (2424) and Barbara (9424) Davis.

## Take Note

Attention, flower fanciers — Plant Engineering has planted flowers in several locations around Area I as part of a landscaping plan. Many of the flowers would bloom longer and the flower beds would be more attractive if some of the flowers were cut and faded ones were removed. However, the maintenance staff doesn't have time to cut flowers. So Plant Engineering needs some volunteers with certified green thumbs to be responsible for a flower bed or two. All such "gardening" will have to be done before 8 a.m. or after 4:30 p.m. The cut flowers would be displayed in public areas and offices as they are available. If you'd like to be part of this "Petal Project," please call Ward Hunnicutt (3600) on 4-8025.

\* \* \*

Do something good for yourself and enhance your summertime pleasure by being healthy and well. Join Medical's next Quit Smoking class beginning July 13 and running through Aug. 8. It's on Mondays and Wednesdays, from noon to 1 in T-13. To enroll, contact Arlene Price, Medical Department, at 6-0021.

\* \* \*

"Navajo and Pueblo Images on Film," photographs by John Adair that were taken in 1938 and 1940, will be displayed at the Wheelwright Museum of the American Indian in Santa Fe from June 26 through September 16 in conjunction with "The Red and the Black: Santa Clara Pueblo Pottery by Margaret Tafoya."

Adair, filmmaker and anthropology professor emeritus, San Francisco State University, is the author of *Navajo and Pueblo Silversmiths*, published by the University of Oklahoma Press (1944). In his research for this book, he became friends with the prominent Navajo family of John Burnside, medicine man and silversmith, in Pine Springs, Ariz. Burnside's son Tom, a Navajo silversmith, and his daughter Mable,

well-known weaver and teacher of Navajo weaving, are also subjects of Adair's photographs. Pueblo people of Isleta and Zuni are represented.

Adair is currently preparing a book on the Burnside family and is filming the story of five generations of Navajo weavers in the Burnside family.

A reception for Adair will be held at the Museum on June 26 from 2 to 5 p.m. The public is invited. The museum is located two miles east of the Plaza on Camino Lejo. Summer hours: Monday through Saturday, 10 to 5 p.m., Sunday from 1 to 5 p.m.

\* \* \*

The Albuquerque Little Theatre will hold auditions for "The Wizard of Oz" on June 25-26 at 2 p.m. ALT's version of the family classic is not a musical, and parts are available for all ages — six men, six women, four boys, and five girls. Children will audition on Saturday at 2 p.m. and adults at 3. Both children and adults will audition at 2 p.m. on Sunday. For more information, call the Box Office at 242-4750.

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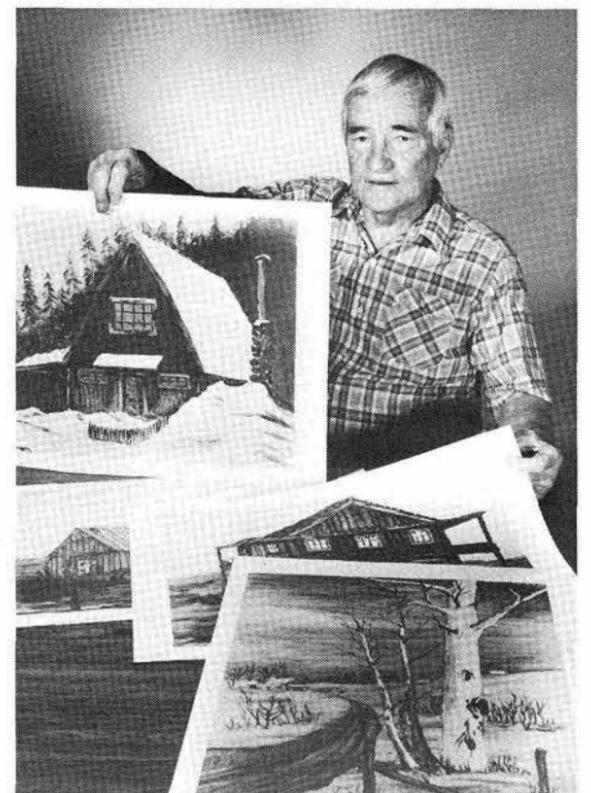
Retiring this month and not shown in LAB NEWS photos are John Davis (3613), Jane Lord (3141), Nick Padilla (2615), Audra Wood Reger (2550), and Herman Goldenberg (7252).



### SCIENCE DEFINITIONS FOR OUR TIME (Cont'd)

**BELIEF** *n.* Something you do not believe.  
**CHEMICALS** *n.pl.* Noxious substances from which modern foods are made.  
**DATA** *n.pl.* An accrual of straws on the backs of theories.  
**EXPERT** *n.* Self-publicist.  
**FAKIR** *n.* A psychologist whose charismatic data have inspired almost religious devotion in his followers, even though the sources seem to have shinnied up a rope and vanished.

— *New Scientist* quoted in *World Press Review*



"DON'T PLAY WITH YOUR FOOD, George," is advice easily ignored by retiree George Shelton. He displays a set of lithographs made from his original mustard and catsup paintings. That's right, mustard and catsup! George paints with a mixture of the stuff, then bakes the result in the oven to a brilliant sepia finish. His book, *Cook-A-Painting*, should be off the press in about three months. In the meantime, George's paintings and lithographs are on display at the New Mexico Art League Gallery.

## Congratulations

Dave (9265) and Elaine (9219) Gangel, a son, Kellen Taylor, June 2.

John (9265) and Toni Espinoza, a son, John Phillip, June 10.

Paul (3417) and Dolores Sanchez, a son, Bryan Michael, June 9.

Neill (1837) and Louise Gilbertson, a daughter, Jennifer Renee, May 15.

Keith (1265) and Teresita Matzen, a son, Andrew Keith, May 16.

Adrian (3417) and Liz Gurule, a son, Matthew Martin, June 14.

## Fun & Games

**Bowling** — New members are sought by the Coronado Club mixed bowling league. The group bowls Wednesdays at 6:30 p.m. at San Mateo Lanes. The league now has seven teams. George Garcia (7232), president, says if 12 teams compete, the league champs will win a free trip to Las Vegas. Call George at 888-4735 for details.

\* \* \*

**Aerobics** — Aerobic Dance, Inc., will start its summer session at the Coronado Club ballroom on June 27. Classes run either six or 12 weeks on Mondays and Wednesdays from 9:30 - 10:30 a.m. or from 5:30 - 6:30 p.m. Or you can join Jacki Sorensen's (she founded Aerobic Dance, Inc.) Aerobic Workout. It starts July 12 and meets Tuesdays and Thursdays at 9 a.m. in the ballroom. This one is labeled as a complete aerobic workout including such delights as head-to-toe stretching and flexibility routines; arm, waist, and thigh workouts; and others too humorous to mention. \$2.50 per class (pay as you go or buy a series of tickets). Call Donna Ness (she teaches both the class and workout) at 255-6314 or 293-0316 for more info. Or just drop in on a class.

\* \* \*

**Other Dance** — A local dance studio offers tap, ballet, and jazz dance lessons right after work, starting July 11. Sessions meet once a week or twice a week for six weeks and are \$24 and \$44, respectively. Call the C-Club pool office (266-7557) for more info.

\* \* \*

**Lending Library** — S.E.R.P. has a collection of magazines available for checkout — *Runner's World*, *Tennis*, *Field & Stream*, *US News & World Report*, and more. Request them from 266-7557 (the C-Club pool office), and they'll be sent to you via company mail. You'll have three days to return them. Give it a try.

\* \* \*

**Running** — The Albuquerque Parks & Recreation Dept. is staging Fun Runs every



SANDIA VOLUNTEERS and participants in the Special Olympics held recently at Milne Stadium included (clockwise from left) Theresa Chavez, Lisa Mondy (1512), Bruce Boughton (1512), Bruce Bliven, Barbara Boughton, Lillian Lopez, and Shirley Perea (2455). Special Olympics is a nationwide program of sports training and athletic competition for mentally retarded children and adults. The Sandians served as "buddies," accompanying the participants throughout the day.

Saturday until Aug. 6. All races begin at 8 p.m. at San Gabriel Park (the west end of Mountain Road) and follow existing bike trails. Dates and distances: June 25 - 4 miles; July 2 - 5 miles; July 9 - 6 miles; July 16 - 7 miles; July 23 - 8 miles; July 30 - 9 miles; and Aug. 6 - 10 miles. In addition, novice runs are set for: July 2 and 9 - 1 mile; July 16 and 23 - 2 miles; July 30 and Aug. 6 - 3 miles. No entry fees. More info from 766-7427 or 766-7275.

\* \* \*

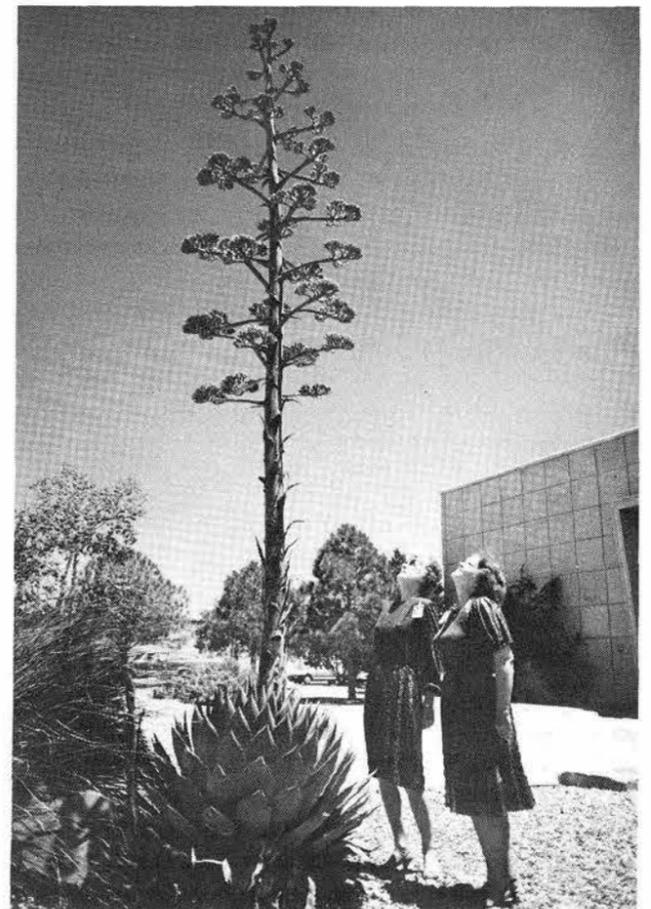
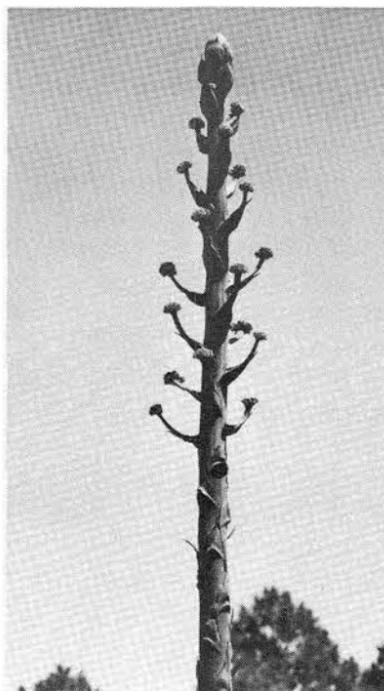
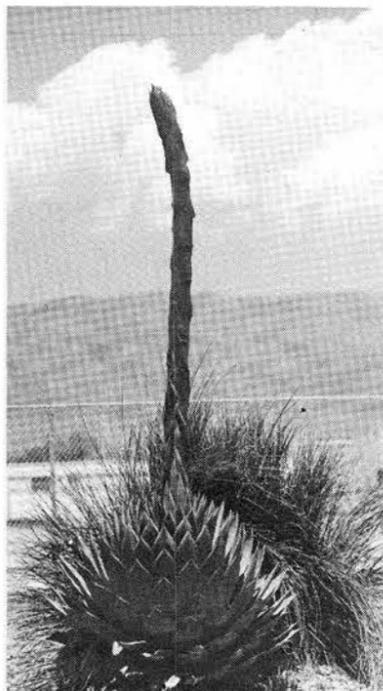
**Table Tennis** — The Sandia team took first place in the first annual Intra-Labs Table Tennis Tournament last month, beat-

ing the Los Alamos National Lab team by a score of 57-11. The traveling trophy that accompanied the victory will be on display at the C-Club until next year when the Sandians will travel to Los Alamos to defend their title. It is hoped that the trophy will not have to travel.

## Sympathy

To Paul Silva (3618) on the death of his sister in Ontario, Calif., May 24.

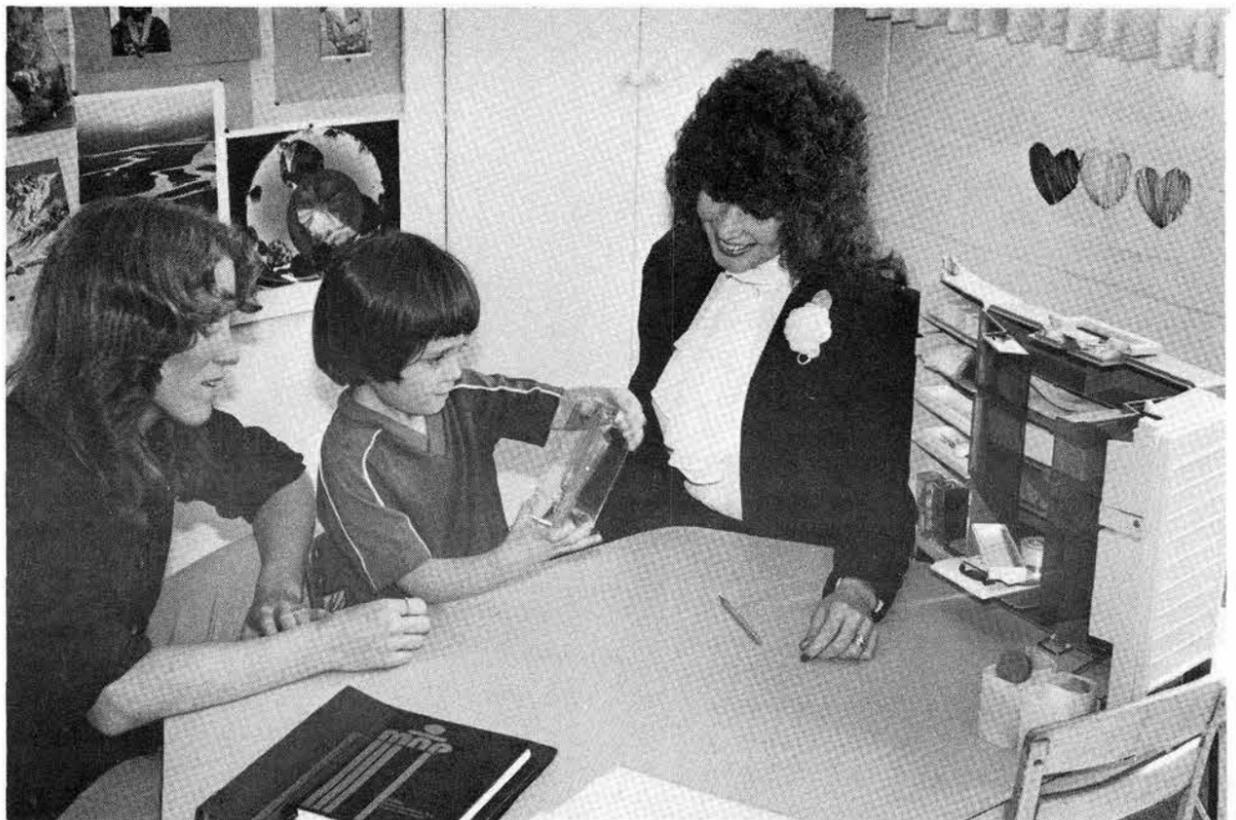
To Norberto Garcia (3618) on the death of his sister in Albuquerque, May 24.



LAB NEWS photographer Louis Erne kept his eye and his camera on this century plant in front of Bldg. 880. The name, century plant, is a misnomer because most species bloom as often as every seven years, depending upon growing conditions. Over the years, the rosette of leaves at the base of the plant stores up enough plant food for the huge flower stalks. For two months or so (May and June in the Southwest) the stalk grows rapidly — as much as 18 inches a day — attaining heights up to 40 feet. The plant blooms with showy, candelabra-like flowers and then withers and dies; suckers at its base ensure new growth.



ECP TREASURER Otis Cox (3551) tries out the calculator purchased for the Martineztown House of Neighborly Service. The usual user is executive director George Mercer (right). The phonograph, hand truck, and a wall clock were also bought with ECP reserve funds.



MARY RODRIGUEZ (2611), right, observes a student at Albuquerque Special Preschool working with one of the devices from the Miller Assessment of Pre-schoolers Kit, which tests pre-academic skills of children 2½-5½. The testing materials were purchased with ECP reserve funds. Gail Beam (left) is the school's executive director.



The ECPro  
**every cent provides**

**AN AGENCY AWARENESS PROGRAM** will be held on July 6 in front of the cafeteria from 12:15 to 1. Two volunteers from the American Diabetes Association will administer diabetes screening tests with a glucometer purchased with ECP reserve funds.

**REMEMBER** to sign up for the employee variety show on Oct. 3. If you have some repressed talent as a singer, dancer, juggler, or whatever, the committee wants to hear from you. Deadline for applications is Aug. 15. Call Ellen Cronin (4-7019) for a form and for more info.



SPORTING new basketball jerseys, three future Lobo All-Stars listen attentively to unit director Mike Kinyon's pre-game pep talk as Bill Sieger (1524) lends moral support. The jerseys were purchased for the Albuquerque Boys' Club with ECP reserve funds.

**WHERE'S IVAN?**  
Many Russian parents are doing a poor job of naming their children, resorting either to absurdity and pretense or to triteness, according to a philologist in the youth newspaper *Komsomolskaya Pravda*. M. Gorbanevsky reports that parents are bestowing such bizarre names as Genius, Commentary, Jurist, Electron, and even, in one case, Uryurvkos — a Russian acronym for *Ura! Yura v kosmose!* (Hurray! Yura's in space). Gorbanevsky reports that the most popular names for babies in one borough of Moscow from 1975 to 1980 were Yelena, Natalya, Olga, Irina, Anna, Svetlana, Sergei, Aleksei, Aleksandr, Oleg, and Vladimir. "But why just these?" He urges that comprehensive books of Russian names be given to newlyweds at the registry office.  
— *World Press Review*

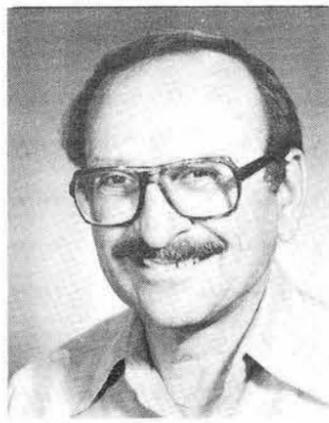


ECP RESERVE FUNDS purchased the roll-and-storage toy chest at left for the Christina Kent Day Nursery. Pat Appel (7473), at right, helps staff member Julie Herzog keep things organized.

# MILEPOSTS

## LAB NEWS

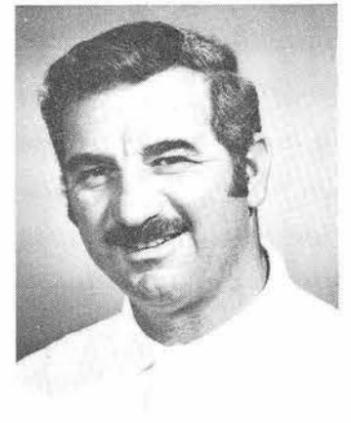
JUNE 1983



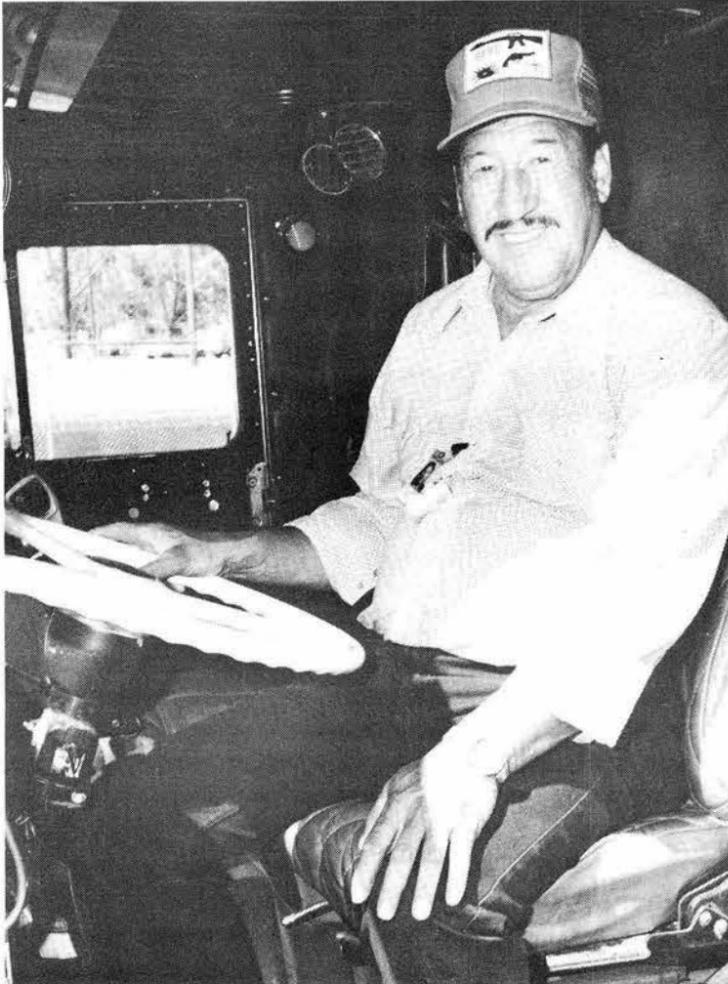
Jim Avis - 9322 30



Jim Bear - 7535 25



Lawrence Gallo - 3433 20



Delfinio Jinzo - 3423 35



Ernest Aguilar - 3425 15



Dale Berg - 1636 15



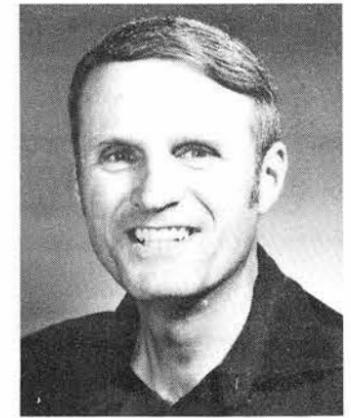
Jack Reed - 7111 35



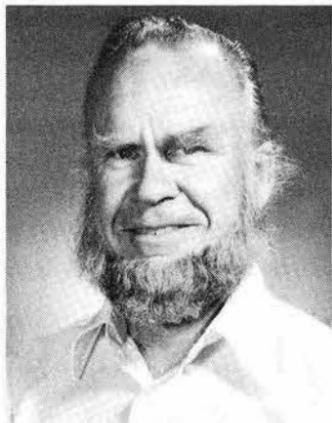
Dave Overmier - 7546 20



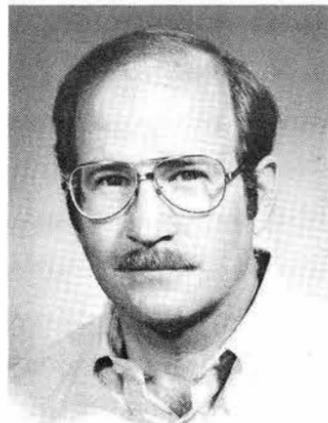
Jim Ney - 400 20



Wallis Cramond - 9412 20



Crawford MacCallum-1231 25



Chuck Carson - 9741 15



Charles McKeever-2561 30



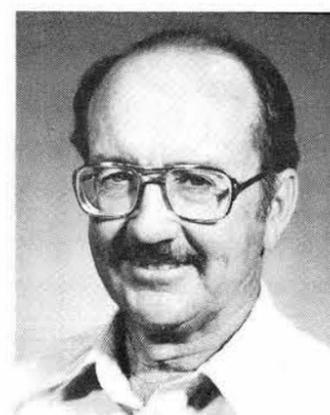
Nita Bozone - 9260 25



Larry Gallegos - 3155 15



Jim Fjelseth - 9311 25



Glenn Elliott - 9238 30



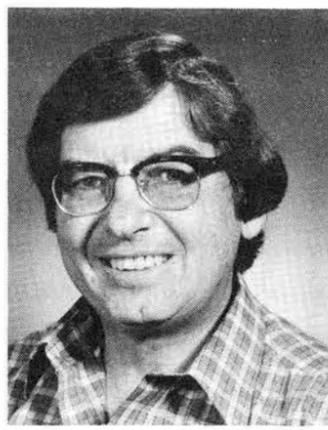
Leo Navoda - 7535 30



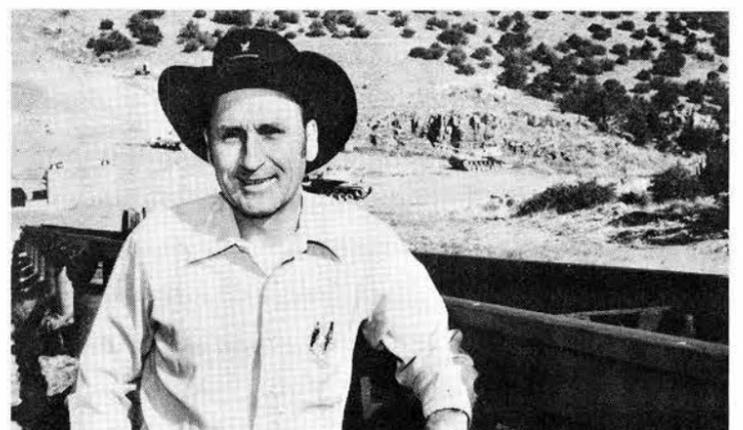
Charles Sain - 7263 30



Earnest Roberts - 2121 20



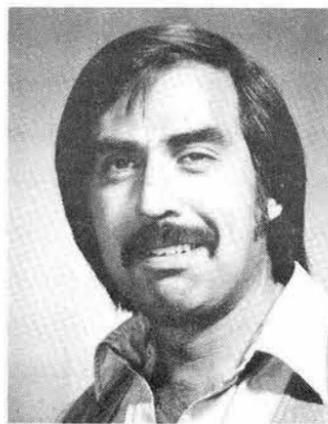
John Smith - 2458 25



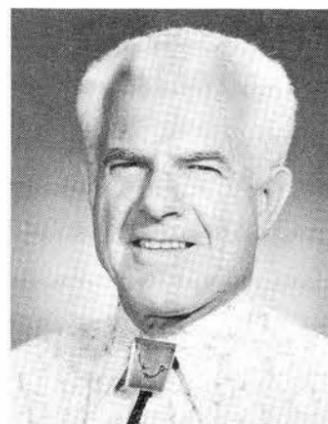
Connie Coalson - 7535 25



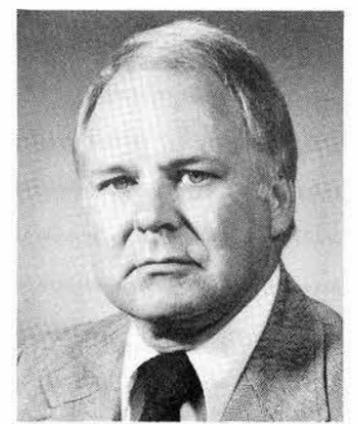
Tom Hill - 9343 30



Manuel Gonzales - 7234 15



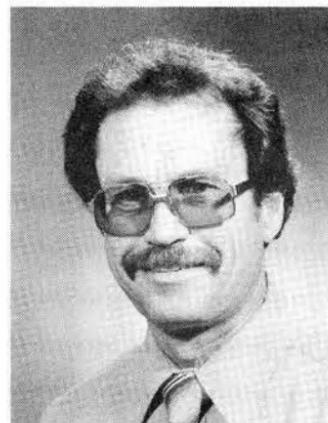
Bruce Coleman - 2425 25



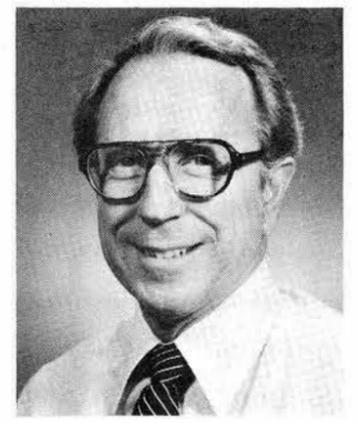
Dick Damerow - 2561 20



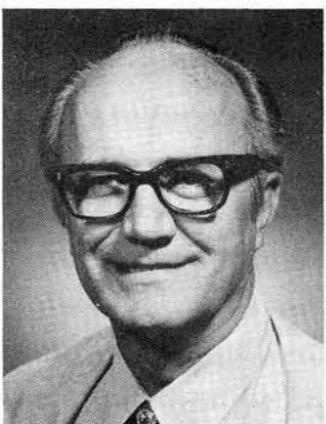
Harold Bennett - 9416 25



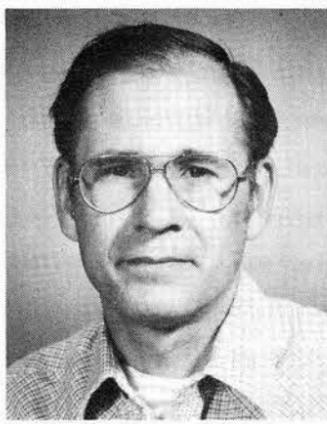
Jerry Love - 2335 20



Don Doak - 2401 25



Wayne Olson - 9215 25



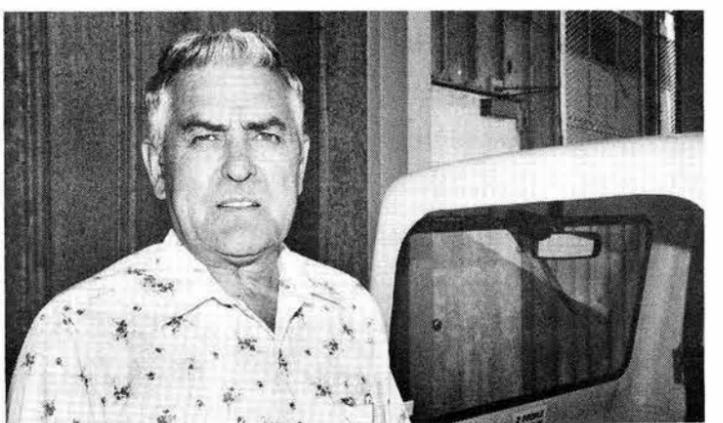
Ken Morgan - 2361 15



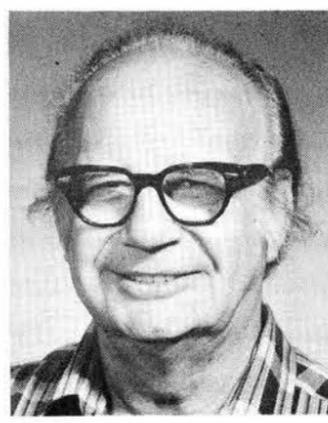
Garry Ogle - 7125 25



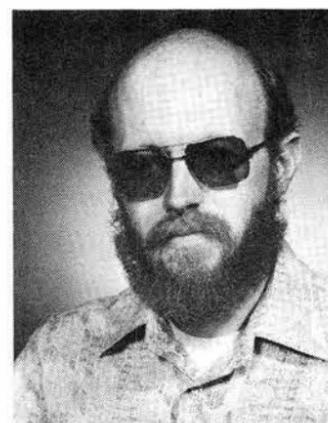
Tillie Pierce - 3155 20



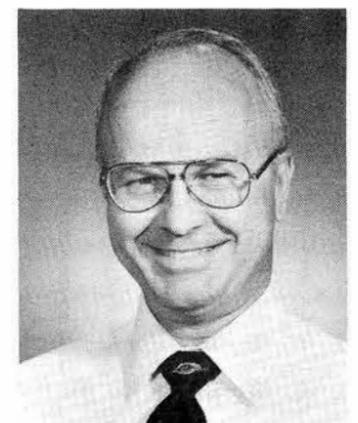
Joe Salas - 3418 20



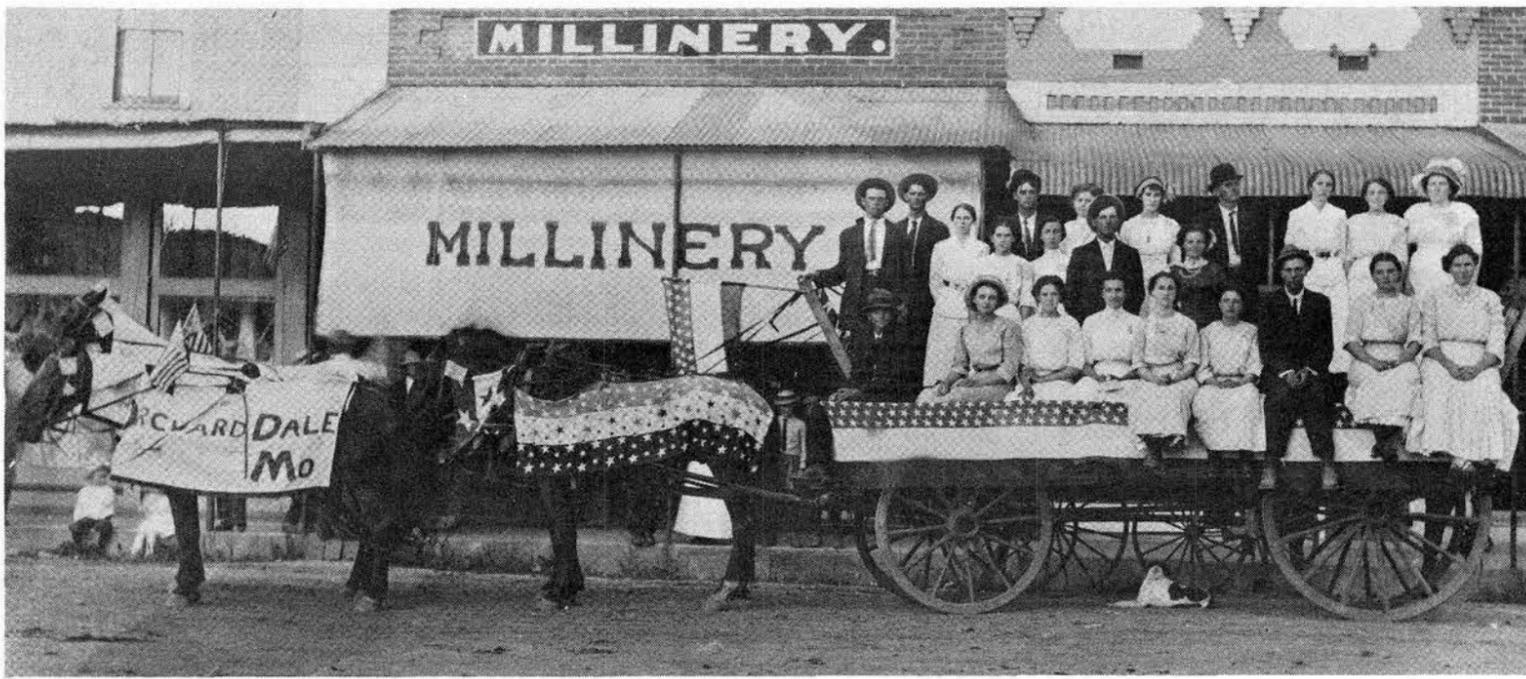
Ed Zurawski - 7481 15



Leander Pickard - 2341 20



Stan Booker - 2552 25



## Favorite Old Photo

Some of my great-aunts and uncles, along with other townspeople from Orchard Dale, Missouri, dressed in their holiday finery on July 4th, 1912, and traveled to nearby Lockwood to take part in the Independence Day festivities there. Even the horses and wagon got decorated. Yes, the dog got to go along!

— Emily Joiner (8215)

UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS • UNCLASSIFIED ADVERTISEMENTS

### CLASSIFIED ADVERTISING

**Deadline: Friday noon before week of publication unless changed by holiday. Mail to: Div. 3162.**

#### RULES

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

### MISCELLANEOUS

- FIREMAN'S** clothes: Ranger aluminized bunker coat; American fireman's helmet w/visor; ranger firemaster insulated boots. Marrs, 822-0367.
- 2 UPHOLSTERED** swivel chairs, dull gold tweed, one matching ottoman, cash only, \$80. Hoff, 298-2248.
- FURNITURE:** beige wool couch & rust wood chair w/matching hassock, wood coffee table, \$75 or BO. Whalen, 298-4864.
- MEDITERRANEAN** style sofa, patterned velvet, \$60; four-post waterbed frame w/headboard, \$60; 8mm movie projector, \$20; hunting bows, quivers, arrows, \$20. Stuart, 265-7315.
- SHOES:** brown leather, size 6 m., medium heel, crepe soles, \$20; white shoes, size 6 m., \$15. Gonzales, 243-1434.
- CHAR-BROIL** grill, electric spit and chicken basket, \$100. Hesselden, 268-4847.
- STARCRAFT** popup camper, sleeps six, dinette storage, extras, for small car. \$1100. Kish, 298-7090.
- MISC.** 65 Mustang parts, 289 engine, \$75; 3-spd. trans., \$50; differential, \$50. Tennyson, 292-5844.
- 30" METAL WARDROBE.** \$30; over-wheel-well locking tool box, \$50; 4-cu. ft. traveler icebox; stuffed animals. Beasley, 298-3398.
- VIDEO** recorder, Quasar, VH5000, 2 hour or 4 hour machine, \$300. Ortega, 296-7090.
- LAWN MOWER,** rotary electric, Sunbeam, twin blades, \$50. Walker, 821-5938.
- FIREPLACE,** free standing, 6' of 8" single wall pipe, make offer. John, 293-0299.
- DISHWASHER,** Waste King, needs new motor. Haul it away and it's yours. Folkins, 345-2801.
- 7-FT. COUCH,** blue velvet w/brocade pattern. Percival, 299-6606 or 256-1642.
- TI-58C** calculator, master library, leisure library, battery pack and charger, \$85. Shenk, 296-6015.

**CURIO CABINET,** 70" tall, 3 glass shelves, cherry finish, \$115; red-wood picnic table, 2 benches, \$30. Hereford, 884-4428.

**CAMPER** shell for a standard minipickup, Admiral w/boot and extra window. Needs some work, \$30. Averill, 898-0527.

**GOLF CLUBS,** set, MacGregor, bag and cart, \$150; Whirlpool apt.-size dryer, 3 years old, \$150. Owen, 299-3487.

**VW WHEELS,** 15", 4 hole, \$4 each. Souder, 281-3121.

**CASEMENT WINDOWS,** steel, 3'x3', 3'x4'; double-strength window panes and wooden shutters — windows, \$10 ea.; panes, 3/\$1.00. Barnard, 256-7772.

**LARGE CHAIN SAW,** Sears, needs chain; custom made drapes and sheers, lined. Bernal, 869-2305.

**ZOOM lens,** 28mm to 85mm F2.8 Vivitar. Fits Nikon and Nikkormat, \$150. Laskar, 299-1024.

**GARAGE SALE,** June 25, 9-4, Children's toys, games, books; family clothing; rubber raft; life-jackets; household items. Stoever, 4600 Banff N.E., 296-3717.

**DINETTE TABLE** w/4 padded chairs, simulated wood formica top, Cost \$389, sell for \$175. Bland, 265-6286.

**LHASA APSO** puppy, 12-wks. old, tan & gold male with shots, AKC & pedigree papers, \$175. Sheldahl, 299-4077.

**AM/FM/FM STEREO/8** track tape combination, 2-speakers, turntable, \$40. Jones, 298-9259.

**ELECTRIC** range; 7' pool table; gas double ovens; French door, regular doors; \$15 to \$30. Morales, 345-1381.

**BED,** king size w/headboard, steel frame, paid \$450, sell \$200. Bronco steel top, small, fits '66-'78. Williams, 266-6724.

**LAWN MOWER,** push type w/grass catcher, \$30; ¼-ton window air conditioner, \$50. Norwood, 292-0072.

**CAMPER,** sleeps 4, stove, ice box, jacks, 9½ ft., for long-wide pickup, \$700. Parriott, 821-1445.

**PATIO DOOR,** 6'x6'x8' w/hardware & screen, \$45; G.E. portable dishwasher, \$75. Pavelko, 296-3346.

**BEAN-BAG CHAIRS,** 1 black, 1 white, extra large, \$20 ea., w/matching parsons tables, \$4 ea. Shull, 265-6286.

**LAUNDRY TUB,** fiberglass construction, \$15. Laubriel, 268-1341, 5 to 7 p.m.

**HIDE-A-BED** sofa, new, floral print on brick-colored background, \$450. Yu, 266-1522.

**ZOOM LENS,** telephoto, Zuiko auto 75-150mm F4, for Olympus, \$135; Olympus large carrying case, \$20. Dippold, 821-5750.

**GUITAR,** walnut Pimentel, \$300; child's bureau, \$45; wooden dinette table, chairs, \$120; Singer sewing machine, \$60; TV, \$20. Hughes, 265-1698.

**TV/STEREO** console, wood cabinet, needs tubes, \$100; two sofas, \$100 ea.; love seat, \$70; Bentwood rocker, \$25. Summers, 299-5891.

**TRAILER HITCH** for 72-99 VW bus, \$20. Garcia, 293-3937.

**BDRM. SET,** 3-pc. dbl. bed, chest of drawers and dresser w/large mirror. \$300 or best offer. Richerson, 294-4970.

**CLARINET,** Buffet, new corks and pads, new case, \$995; King tenor sax, new pads, \$495. Kepler, 298-5652.

**RCA 18" color TV** w/stand, 1970 tube model, \$75; twin bed frame, mattress, box springs, \$40. VanDen-Avyle, 898-6474.

**CHILD'S CAR SEAT,** GM, \$15; studded snow tires, mounted GM wheels, 14 & 15 in., \$25/pr. Bukaty, 881-9551.

**GOLF CLUBS,** Laura Baugh Wilson ladies irons, 3-PW, \$100; want 2 kittens, preferably same litter. Iverson, 869-3123.

**PANEL HEATER,** day/night blower, 50,000 BTU, needs parts, spinet electric organ Conn; range, hoods, brown & white, 40 in. Spatz, 299-0410 after 5 p.m.

**FURNITURE,** usable but needs repair, B&W TV, desk, chest of drawers, sofa, chairs. Gill, 296-9093.

**GREAT DANE,** female, brindle, needs loving home. Leonard, 865-5338.

**POLES** cemented into tires, good for volleyball or badminton. Free, you haul. Tischhauser, 293-9768.

**RECORD PLAYER,** stereo, 2-speakers, 2 radio headphones, AM/FM; black vinyl chair. Eldredge, 881-4528.

**AQUARIUM,** 5-gal., w/hood, filter, pump, \$17.50. Tufts, 255-9663.

**LAWN MOWER,** small unpowered rotary type, \$75; 2 wide-area sprinklers, \$5 ea. Haaker, 293-1077.

### TRANSPORTATION

'76 VW Scirocco, 4-spd, AC, AM/FM, 1500 cc, 5-brg. head, \$2850. Aeschliman, 281-1227.

'81 CROWN Victoria LTD, all options, low miles, \$7500 firm. Garcia, 268-8064.

'79 F-100 FORD truck, 25K miles, with camper. Silva, 268-2607.

'78 HONDA Hawk motorcycle, electric start, less than 3400 miles, \$850. Zownir, 298-1603.

'60 ¼-TON Dodge pickup, rebuilt 318 electronic ignition, dual exhaust, leaf springs, diamond plate bed, \$1090. Walker, 821-5938.

'82 DATSUN Stanza, 4-dr, HB, silver, XE pkg., AC, AT, PS, PB, CC, low mileage. Rauch, 821-6992.

'65 FORD pickup, longbed, stepside, 352 V-8, runs on gas or propane, CB hookup, \$1800. Carr, 266-1687.

'80 JEEP CJ-5 Laredo, blue, soft-top, 19K miles, 6 cyl., 4-spd., PS, hd cooling, \$7000. Clem, 296-5204.

'72 TRIUMPH 650 Bonneville motorcycle, completely rebuilt & customized. Gonzales, 344-4933.

'75 MOTORCYCLE, Honda 750, supersport, 4 cyl., 3600 miles, \$1695. Ortega, 296-7090.

'71 DODGE Demon AC, 2-dr, 6 cyl., new tires, \$1100 or any reasonable offer. Villa, 298-0435.

'70 OLDS 98, 2-door, all power, air, AT, AM/FM radio, \$800. Banos, 884-3790.

'77 PINTO Runabout, new engine, tire, and paint, 4 speed, A/C, \$1800. Martin, 869-2049.

'69 VW BUG, new engine, new tires, sun roof, carpeted interior. Shipe, 822-0924 after 5 p.m.

'73 PONTIAC Grand Prix, \$1000 or best offer. Apodaca, 883-1538 after 5:30 p.m.

**BICYCLE,** Schwinn Varsity, 10-spd., 27 in. rims, 22 in. frame w/rack, \$75. Bahr, 256-7452.

'73 JEEP pickup, 4 WD, AT, PS, \$1850 or trade for small car. Marder, 883-3863.

'73 BUICK Estate, SW, AC, AT, PB, PS, PW, 126K miles, \$850. Hebron, 883-0738.

'73 BUICK Centurion convertible classic, new transmission and paint, full power w/AC, \$2600. Smith, 298-8227.

'80 HONDA CM200T, 1800 miles, \$750 or best offer. Cieslak, 294-0371.

'83 YAMAHA Vision, 550 cc, liquid cooled, drive shaft, fairing, 1800 miles. Rasmussen, 266-1097.

'75 PEUGEOT, new seat covers, battery and timing chain, \$1200 or best offer; 20" Ramper bicycles. Morales, 345-1381.

'77 OLDSMOBILE Starfire, V-6 engine, 4-spd. transmission, \$2000. Pre-vender, 299-5253.

**BICYCLE,** '82 Laguna Cruiser/BMX, Chromoly frame, cranks, pedals, bars, Araya 26 x 1.75 rims, coaster brake, \$300. Fleming, 255-6196.

'72 PLYMOUTH Sebring 400, 4-bbl., 4-spd., AC, PS, Positrac, 35K miles, \$1900. Fletcher, 293-4204.

'66 FORD Galaxie, 500 HT w/289V8, \$450. Smathers, 298-0613.

'82 SUZUKI 1100E, 1600 miles, w/extras, \$3495. Gunckel, 255-4325.

'79 YAMAHA 650 Special, black, \$1200 incl. plexifaring, lug rack, helmets. Mooney, 299-1774.

'80 YAMAHA X5850 Special, front fairing w/lowers, shaft drive, saddle bags, back rest and rack, 9600 miles, \$2800. Stackhouse, 255-6302.

**BICYCLE,** 20-in., boys, gold, \$30. Thome, 296-8173 after 5.

'76 FIAT 131 wagon, 5SP, AC, new upholstery, \$1600 or make offer. Barton, 268-7349.

'79 CAMARO, Z28, 350-V8, AT, PS, air, other options, below book. Garcia, 298-7340.

'50 CHEVY pickup, \$1000 firm. Molina, 344-7959.

**BICYCLE,** ladies 10-spd., \$50. Tufts, 255-9663.

### REAL ESTATE

3-BDR house w/pool, 5 minutes from base, landscaped, near schools/shopping, Siesta Hills. Silva, 268-2607.

**RECREATIONAL SITE** east of Santa Fe, near Pecos River and I-25, \$2000 down for 2½ acres. Diem, 294-3503.

4-BDR., 3-baths, in Kachina Hills area, stone entry, FP, 9% loan. \$105,400. Campbell, 299-2556 or 293-2325.

**RESIDENTIAL LOT** in Glenwood Hills on cul-de-sac, unobstructed views of city and mountains. Hereford, 884-4428.

3-BDR, 1½ bath, LR, formal DR, den, 2065 sq. ft., Hidden Valley/Four Hills area, \$88,500. Banach, 292-3127.

**MT. TAYLOR** ranch house w/3.5 acres, 3-bdr., den, 1½ baths, \$80,000, terms negotiable. Doherty, 285-5376.

### WANTED

TI-59 with printer. Muench, 867-5115. HERCULES or Sturmey-Archer 3-speed bicycle rear wheel. Woods, 884-4224.

WALL Calendars from 1979, 1980, and 1949 through 1968. LAB NEWS, Division 3162.

GAZEBO. Moss, 298-2643. SMALL, inexpensive typing table. Weems, 281-5837.

CASH for non-working electronic games or computers, Atari, Mattel, Coleco, Sinclair, Timex, TI, VIC20, etc., needed for parts. Allen, 296-6453.

HOUSE to rent by August 1, 2-3 bdr., w/garage - unfinished, have own appliances, prefer Northeast area. Greer, 836-1411.

MINIATURE Schnauzer, female puppy, AKC registered, need this summer. Dalphin, 265-4029.

MALE pug wanted for breeding. Bernal, 869-2305.

HOUSEMATE to share 3 bdr. house, Indian School/Tramway area, den, formal living/dining, dbl. car garage, \$225/mo. including utilities. Jacobs, 292-6174.

BORROW to copy, owners/service manual for 1969 7-hp Montgomery Ward Sea King outboard. Horton, 883-7504.

POWER supplies, 5V and 12V working or not, parts, single-board computer any cond., peripherals, memory for KIM/AIM bus. Stixrud, 298-0478.

### WORK WANTED

YARD WORK — sod installation, rototilling, mowing, hauling, etc., experienced. Paul Holt, 294-6928 or Tom Edrington, 881-2395.

## Luau Tomorrow, 4th of July Coming

HEADING OFF the summer doldrums, the Club offers a packed calendar of events in coming weeks. Starting with tonight's Happy Hour, there's something for everyone. The Chavo Organization holds the bandstand tonight, playing a variety of Spanish and western music while the menu special is Rio Grande-style Mexican food. In addition, the club's standard menu with fine steaks, seafood, and chicken is also available. Happy Hour prices are in effect from 4:30 until 8:30.

TOMORROW is the big one. It's Luau time on the Rio Grande. The Club's pool and patio area will resemble a South Sea paradise while the dinner spread is every Polynesian's heart's desire — roast pig, mahi mahi, Maui sweet and sour chicken, Hawaiian rice, Waikiki peas and mushrooms, oriental vegetables, tropical fruit salad, and more. Freddie Baker and his Polynesian Review entertain. The troops wear grass skirts and wild sports shirts. Cost is \$11.95, and if you call the Club office *right now* you can still get reservations. The number is 265-6791.

A CLUB FAVORITE, The Isleta Poor Boys (we identify with the name) returns to the Club on Friday, July 1, to present an evening of western dancing. A shrimp peel special is offered at \$7.95, and the Club's regular menu will also be available.

THE FOURTH OF JULY is another big one. It's a whole day of fun and games in the pool and patio area starting at 11 a.m. The Albuquerque Parks and Recreation Municipal Band presents a concert from noon until 2 p.m., then Stomper takes over playing stompin' country and western. There will be a full schedule of games and contests for kids and adults ending with a spectacular balloon toss. Two food lines will be operating offering barbequed beef, hamburgers,

and hot dogs with potato salad and other assorted goodies. The snack bar will provide cokes and ice cream while a special beer truck offers 50-cent beer. Members and families are admitted free. Guests pay \$1.

TUESDAY EVENING two-for-one dining continues at the Club with next Tuesday's menu featuring pork ribs at \$9.95 for two. Arlen Asher entertains with the trio. On Tuesday, July 5, baked halibut is the two-for-one special at \$8.50.

THE GAMES NIGHT CROWD is growing, enticed by the lure of three Krugger-rands. On Thursdays, the early bird game is called at 6:45 p.m. and regular play starts at 7. Super sandwiches are available at 5:30. Mondays through Fridays, a single game is called in the main lounge at 6.

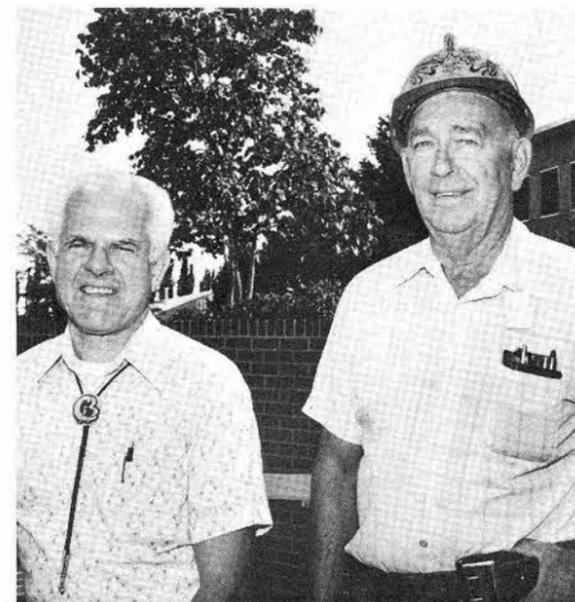
A SWIM EXERCISE class is offered on a "drop-in" basis on Tuesdays and Thursdays from 5 to 5:45. Instructor is Mary Kienl. Cost is \$2.50 for each session. Check in at the pool office.

A NEW CLASS in round dancing starts Wednesday, July 6, sponsored by the Redondo Round dancers. Round dancing is a form of ballroom dancing in which all couples do the same steps in a big circle under the guidance of an instructor/cuer. The class starts at 7 p.m. each Wednesday through September. After an hour of instruction, the beginners join the group for club dancing at 8. For more information call Charlie (2611) or Betty Clendenin, 299-2071. Charlie says if you like ballroom dancing, you'll love round dancing.

SUMMER SCHEDULE for the Coronado Grandsquares calls for sessions every other Monday starting July 11 for plus dancing at 7:30.

TRAVEL — The minimum signup has been met so China is a "go" trip. There are a number of seats available. It's scheduled for Sept. 18-Oct. 7. Cost is \$2810. Also available are berths on the Caribbean cruise Oct. 28-Nov. 6. Price is \$1095. Sign up at the Club office.

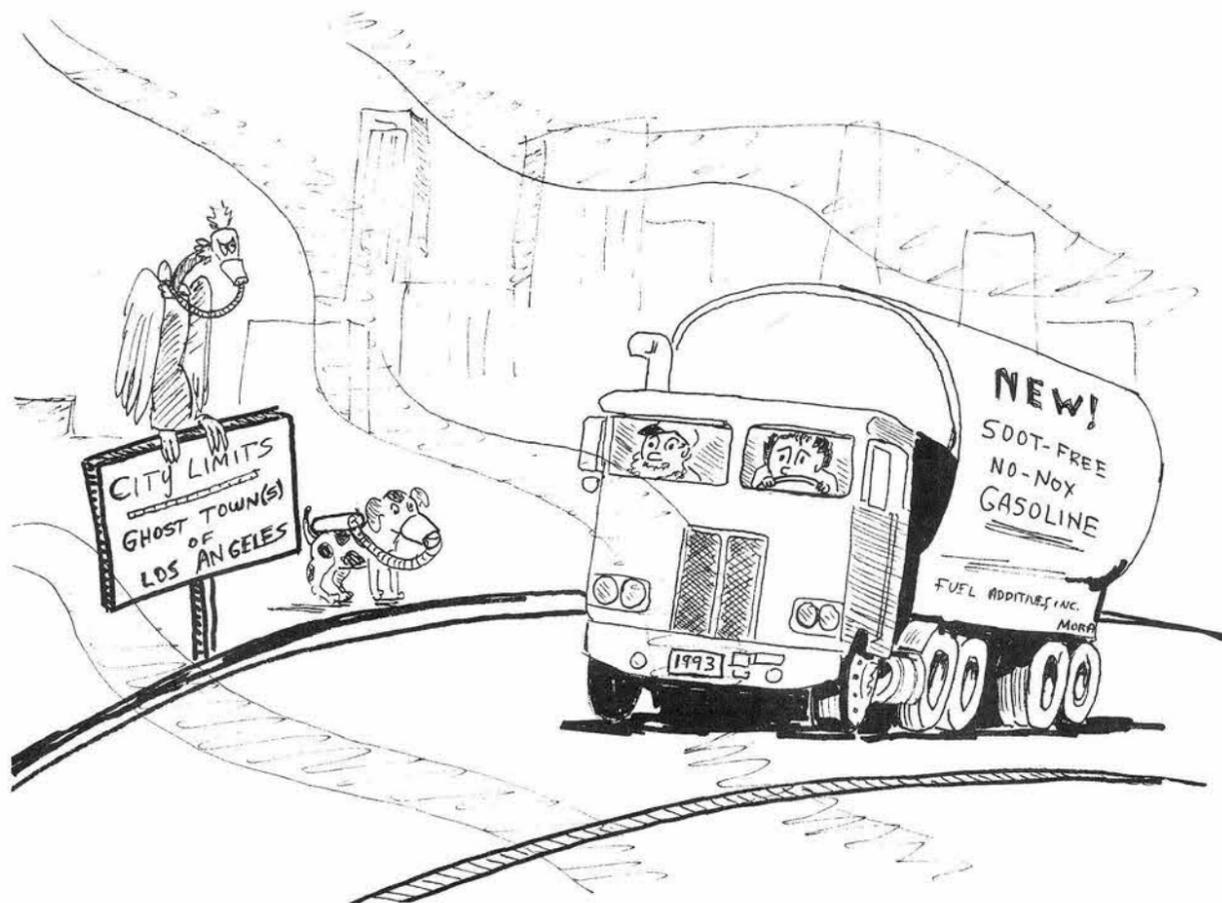
THE CORONADO CLUB SWIM TEAM hosts its first swim meet in the pool and patio area tomorrow starting at 9 a.m. C'mon out and cheer for the kids. Opening of the twin pools for recreation and lap swimming will be delayed until 1 p.m.



RETIRING — Bruce Coleman (2425) and Dave Bailey (3611).



ON THE JOB, Claudina Anzara doesn't dress quite so elaborately. She is posing in her graduation togs — a traditional Isleta Pueblo dress that she wore for commencement at the Southwest Indian Polytechnic Institute. She recently graduated with a two-year certificate in secretarial skills. As the steno pad suggests, Claudina is currently enrolled in Sandia's Secretarial Skills Building Program. A part of the Affirmative Action program, the six-month course is designed to increase students' skills in shorthand, typing, and grammar. Program participants are not officially Sandia employees, but they are paid the minimum wage while taking the course. At the present time, the Secretarial Skills Building Program has five students.



"Oh no, Sam — looks like we're a little late to save L.A."