



# LAB NEWS

VOL. 33. NO. 12

JUNE 12, 1981



AT SANDIA LIVERMORE, the country's newest nuclear weapon—the B83—is being readied for production following extensive development and testing.

Here an F-111 heads toward Tonopah Test Range to make a test drop of the externally carried unit.

## The B83: Sophisticated, Versatile, Tough

### Bond Campaign Concludes

Bond Drive Chairman Art Eiffert (2450) has issued his final report on the recent campaign and, with a 93.58% participation, the Labs has very nearly met the 95% goal.

In addition, 28% of Sandians now participate at the level of a bond a month or more, with 97 new signups in this category. Annual purchases increased by \$59,285. Many organizations are now in the 100% participation category, including two at the directorate level: 5800 and 0400. Awards for this participation will be presented by the VP representatives to the Savings Bond Committee.

Succeeding Art as Chairman for 1982 is Morgan Kramm (4540).

The development of the nation's newest weapon, the B83 strategic bomb, is proving to be a challenging and rewarding task for Sandia Livermore.

This megaton-class bomb has recently entered Phase 4 status where development and preparation for production are proceeding. The project team at SNLL is designing the bomb structure and integrating the nuclear design provided by LLNL; components from both Sandia Albuquerque and Livermore are being used to produce this major new weapon.

Physically, the B83 is 12 feet long, 18 inches in diameter, and weighs about 2400 pounds. It provides a full range of air burst, ground burst and laydown fuzing options, and insensitive high explosive and other safety and command and control features, not all of which are incorporated in present strategic laydown bombs.

While many of the B83 internal components are patterned after those in other systems, the larger size of this bomb and the more stringent requirements

placed on it have necessitated new design approaches in several areas.

The B83 is the first megaton class bomb to be specifically designed for laydown against hard, irregular targets. In order to survive delivery from a fast, low-flying aircraft, the bomb is first slowed to about 60 mph with a new and very rugged parachute. The bomb must then withstand impact into such target complexes as railroad marshalling yards or steel production plants. After impact, the electrical system must continue to function reliably so as to provide safe escape time for the delivery aircraft.

Designing a bomb structure which will survive laydown and still adequately protect the sophisticated electronic components inside is a real challenge. "It's like stopping a compact car going 60 mph in six inches and expecting the radio to still work," says Gary Beeler (8152) who heads the B83 project division responsible for the structural

[Continued on Page Three]



EACH PIECE OF WORK turned out by Harlan Lenander gets careful finishing—no sharp edges or corners. The equipment is for use by children who are physically impaired. The happy hippo face in background will decorate a toy box.

## Harlan Lenander—Retiree In A 2nd Career

Three years ago, Harlan Lenander, then director of development testing, retired after 29 years at Sandia—busy years during which the Labs aggressively pursued the development and testing of weapons. For some people, retirement following an active career might be anticlimactic. Not so with Harlan! His activities today read like the calendar of events in the city newspaper.

Foremost among his interests is the design and construction of unique equipment for use by children who are physically impaired or medically disabled. Harlan works with teachers, therapists and physicians to satisfy the needs of individual children. "Let's just say I'm absolutely dedicated to the New Mexico Elks Cerebral Palsy program," he affirms. The Elks pay for material used by volunteers such as Harlan.

He has designed and built special equipment for schools, organizations and hospitals throughout the state. "I'd guess that I've made 150 major items." In recent

years, when funding for special education was made available, teachers and therapists were hired but very little money was available for equipment. And, when that equipment is ordered from specialty houses, it's expensive. For instance, Harlan makes one item that consists of a ramp with a set of nested steps. Catalog price for this unit is \$243—he uses about \$25 in material. "Some of the items needed are so simple, yet they can mean a real turnaround for a disabled child," he says.

Harlan's wife Helen is president of the Cosmopolitan Women's Club and a member of the Assistance League and, through these service organizations, others have benefited from Harlan's woodworking abilities. His most recent project was a redwood picnic table and fitted benches, seating 14 people.

Harlan and Helen are also volunteers at BCMC. Helen has recently passed the 1000-hour mark as a volunteer in BCMC's emergency room. Harlan spends one morning a week in their pathology lab repairing optical, mechanical, and electrical equipment. "The lab's equipment runs 24-hours a day and requires frequent repair," he says. "One piece of rotating equipment required a clutch replacement about every six months. It used to be sent out for repair, taking a month and about \$200. We ordered some spare parts for it and now, when it needs repair, we take care of it in about an hour for about 35 cents."

The Lenanders also like to travel. Following his retirement, they traveled for five weeks in England, Wales, Scotland and Scandinavia. Last year they toured the Holy Land, the Greek Islands and Turkey. This year—"Well, we've taken up square dancing—we dance twice a week—and we plan to take a square dancing vacation at Lake of the Ozarks," Harlan says. "During our travels we met a couple from Australia and have been invited to visit them—maybe next year."

## Supervisory Appointments



WAYNE LATHROP to supervisor of Range Operations Division 1173 (Tonopah Test Range), effective June 1.

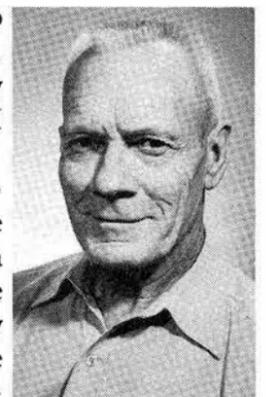
Following graduation from the University of Oklahoma in 1962 with a BS in ME, Wayne joined Sandia as a member of the Technical Development Program and earned his MS in ME from UNM. Wayne worked for a number of years with the handling equipment organization and with field test. He was test director at Tonopah from 1976-80 and, for the past year, has been test director at the Kauai test facility.

Off the job Wayne enjoys golf, bowling and photography. He and his wife Virginia are currently house hunting in Las Vegas. They have three children.

\* \* \*

LEWIS PEARL to section supervisor, Lieutenant, Security Operations Division II 3435, effective June 1.

Lewis has been a security inspector since coming to Sandia in February 1954. He served in the U.S. Navy from 1944-46. Off the job Lewis enjoys bowling and fishing. He and his wife Ellouise live in the NE heights. Their son also lives in Albuquerque.



Harlan and Helen play bridge and are members of two bridge clubs; they vacation at their cabin at Conchas Lake, and Harlan finds time to play golf. He's also science advisor for his alma mater, Southwestern College in Winfield, Kans. "Occasionally, after working in my shop all day, I play the organ as a way to relax," Harlan says. He also enjoys oil painting.

"There are so many agencies that need volunteer help," Harlan says, "and I know that there must be many retirees who have some woodworking equipment and the talent to help these people. Keeping busy is one of the secrets of a happy retirement, and there is such satisfaction in this work. I have never done anything in my life that has been more appreciated than the work I've done for the disabled children. If you want to help, give me a call and I'll steer you in the right direction." •nt

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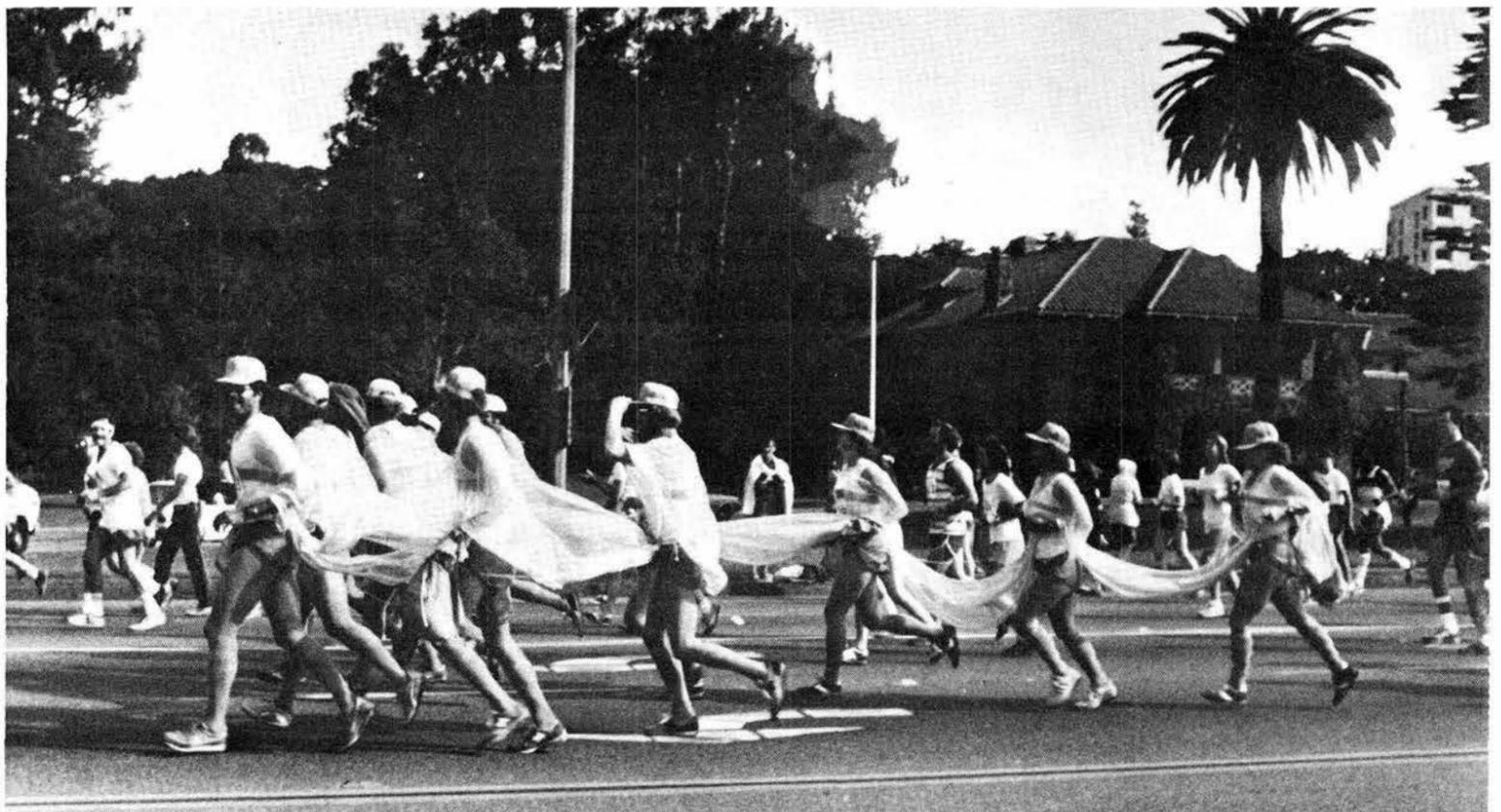
# The B83—Tough, Sophisticated

design. To accomplish this task, Gary's group has developed a rugged structural design featuring a high strength steel case and several novel shock mitigation components to protect the nuclear and electronic elements. All of these features, as well as the nuclear and electrical subsystem designs, are being evaluated in an extensive full-scale test program staged at Albuquerque's Coyote Canyon cable facility and at the Tonopah Test Range.

A unique structural feature of the B83 is the shock mitigation nose with ringlike "teeth." These teeth fulfill two important functions. First, they bite into the target to thus minimize transformation of the bomb's kinetic energy into rotational energy (as usually occurs when a bomb nose glances off the target surface). This rotational energy can produce slapdown side impact over the nuclear and component sections where shock mitigation is difficult. The second function of the teeth is to permit a controlled collapse of the nose shell in head-on impacts and thus to provide a near optimum deceleration profile for the bomb's internal components.

"Development of the electrical system for the B83 is also a major engineering challenge," says Jim Wright, supervisor of the electrical system division. "While the B83 is an outgrowth of the B77 (which was cancelled because of high production costs), we had to start from scratch on the electrical system as well as much of the bomb structure. To save costs we adopted and adapted many components from other programs. But we also introduced new components and technologies when it was possible to reduce cost or to achieve improved operational or safety features. For example, a new solid state airburst fuze is being developed in organization 2340, a new trajectory sensing signal generator in 2330, and in 2520 a new family of thermal batteries which are easier to produce."

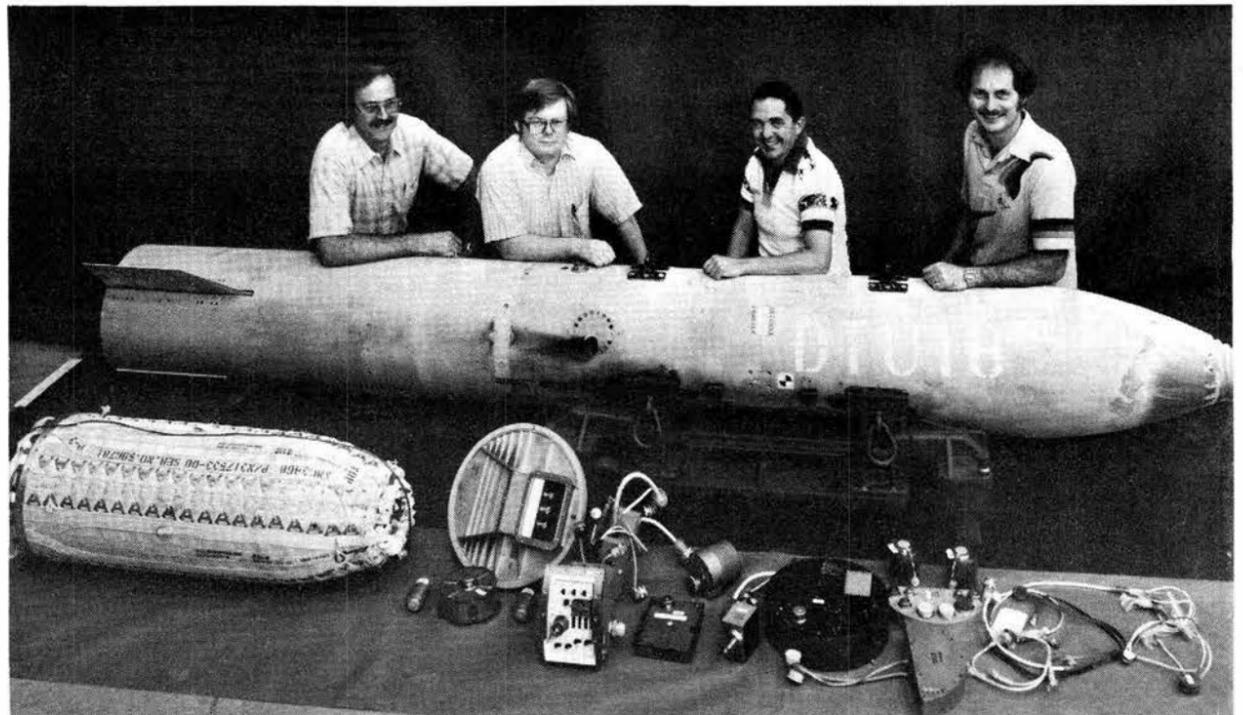
TWELVE SANDIANS took part in the 70th annual San Francisco Bay-to-Breakers run, with 30,000 entrants the largest event of its kind anywhere. The Sandia Livermore contingent ran as a centipede in the shape of a Thunderbird emblem, complete with beaked leader John Martin (8161) wearing a blue tuxedo. Others covering the 7.6 mile course were Barry Bolden (8212), Pat Driscoll (8335), Carol Ford (8341), Annette Freitas, Carl Melius, Oak Noell (all 8343), Steve Haney, Jenny Masquelier, Rick Stulen, Art Pontau (all 8347), and Anne Harrigan (8353). They covered the route in an hour and 28 minutes.



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COMPONENTS of the B83 are displayed by these men who work in the mechanical and electrical B83 project divisions. Included are the packed parachute (at left), aft filter pack, preflight controller, firing set, and drop test unit itself. From left, Mike Neuman, Rex Eastin (both 8153), Rodger Page and Jim Dremalas (both 8152).

Gary adds, "We're also having a new parachute retardation system developed in 5630 which slows the bomb down from supersonic delivery speeds, so that it will work after impact from a release altitude as low as 150 feet. This parachute stops the bomb so fast that it is sometimes overtaken by its own wake. Undertaking these new components and the technology they represent is a real challenge to the SNLL project group and the component engineers."

The first flight tests were done in the spring of 1979. Since that time, 30 B83 test units have undergone high altitude freefall drops, parachute tests, and low level laydown tests. In the most significant system test to date, a B83 unit with a mock nuclear system and telemetry successfully

survived a drop by an FB-111 from 150 feet onto the concrete target at Tonopah. As a new weapon, the B83 is proving itself to be both durable and reliable. •bls

## Take Note

Don Spencer (8265) was presented the "Best Paper" award for his paper "Communicating the Results of Scientific Work to the Laity" at the 28th International Communication Conference of the Society for Technical Communication held May 20-23 in Pittsburgh, Pa. The paper was one of 32 presented in the Writing and Editing Division. The conference was attended by some 1000 people from U.S., Canada and other countries.

# Retiree Picnic 1981

There were 1200 this year, reports Benefits' Eleanor Kelly, and they packed the C-Club patio. Packed it, that is, until a young hurricane descended. Paper plates flew, branches broke off the trees, 1200 people suddenly became very close as they squeezed inside the Club.

But a little weather had little effect, and the crowd enjoyed the food, the drink, and each other. The storm passed, and Sandians who hadn't seen each other since the last picnic were able to stroll around and renew acquaintances.



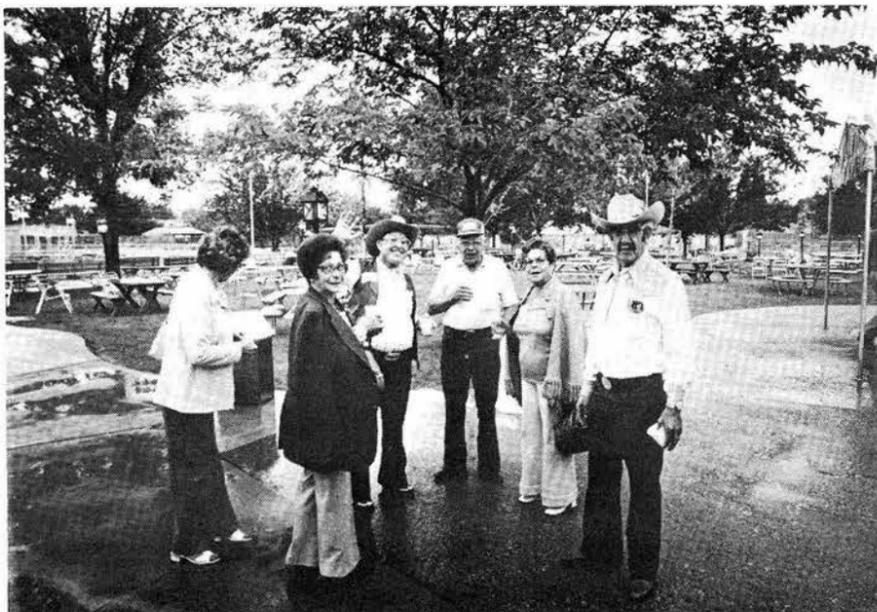
DRESSED for the monsoon, Bert Quelle tells Hap Kindschi about it.



VERN HENNING & KATHY MITCHELL from Benefits helped out at the registration table.



JUST BEFORE the big wind and rain, some action at one of the outdoor bars.



AFTERWARDS, things calmed down and the patio became habitable again.

## Take Note

School is out, the kids are underfoot and complaining, so what to do with them? If you can't quite hack their spending the summer with Grandma in Melbourne, then stop by LAB NEWS and pick up "Programs for Children and Youth" sponsored by the City Parks and Recreation Dept. The handout describes a number of activities—arts & crafts, sports, field trips, etc.—which the kids can pursue. LAB NEWS is in the trailer next to Bldg. 814.

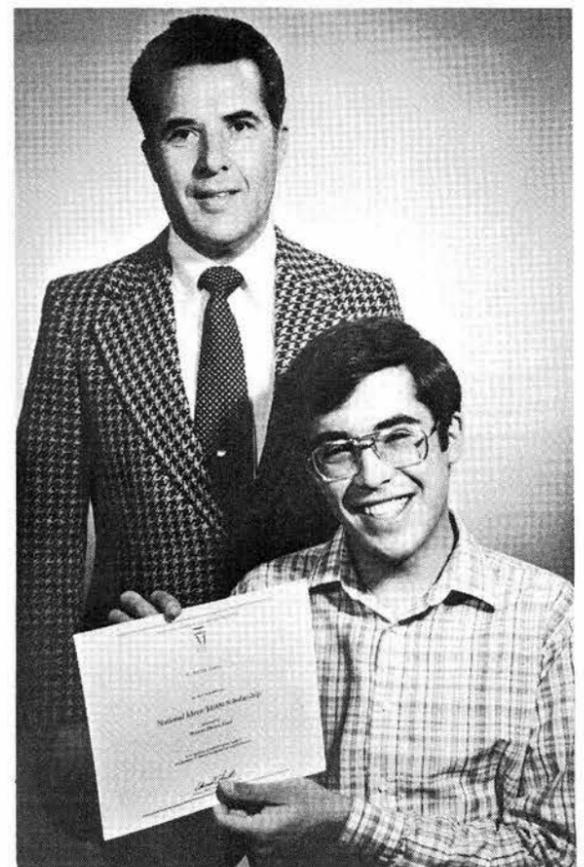
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The New Mexico Solar Energy Institute is offering two courses on the weekend of June 26-27. *Introduction to Residential Uses of Solar Energy*, June 26, ". . ." is recommended to those planning to build or retrofit using solar energy (who) are not thoroughly backgrounded." Cost is \$10. *Design of Passive Solar Systems*, June 27, is a technical design workshop and costs \$50. LAB NEWS has a registration form and additional information on the courses. Send your name and organization to Solar, LAB NEWS if you wish a copy.

\* \* \*

The next lecture in Medical's continuing series on aging is entitled "Cancer and Aging." The talk will be presented by Dr. Gaither Bynum of the UNM Med School's Family Practice Center. He will discuss the relationship between aging and cancer, describing the basic mechanisms involved. Dr. Bynum will also discuss social and demographic patterns as they relate to cancer and aging. The program will be presented on Tuesday, June 23, from 12-12:30 p.m. in Bldg. 815 (outside the Tech Area).

\* \* \*



WESTERN ELECTRIC each year awards a number of \$1000 scholarships under the National Merit Scholarship program, and one winner is Martin Chavez (seated), son of Ray, who heads Presentation & General Art Section 3155-1. Martin was graduated from Albuquerque Academy, will attend Harvard this fall.

# Solar Cell Efficiency Measured

A device to measure the efficiency of solar cells in sunlight concentrations ranging from 1 to 1500 suns and for temperatures ranging from ambient to 100°C has been developed by Burrell Hammons of Electronic and Transport Phenomena in Solids Division 5132.

The test cell and a Fresnel lens, used to focus sunlight on the cell, are mounted on a two-axis tracking pedestal. A simple sun-tracking device keeps the lens-cell unit facing the sun. A pyrhelimeter attached to the mount measures the intensity of solar radiation.

The test cell is cooled by a jet of coolant striking the rear of the cell. Temperature is controlled by varying the temperature and flow of the coolant—a mixture of glycol and water.

Data acquisition, cell performance calculations and display of the results are computer controlled. Analog signals sent to the computer are cell current, cell voltage, cell temperature, ambient temperature and solar isolation.

## feed **liback**

*Q. Periodically I use the reproduction services in Bldg. 892, which is on the opposite end of the Labs from where I work. Each time I must walk twice to 892; once to input the drawing and once to retrieve it. Only rarely can I get a short job done while I wait. Reproduction staff inform me that it is against policy for them to return jobs via the mail system and I have tried to use mail with no results. I have also checked with the nearby reproduction services in 802 basement to see if they have jobs in 892 handled by a regular courier and the response was negative. Am I then to assume I must handcarry reproduction work to be done in 892?*

A. Thanks for bringing this situation to our attention. Apparently there has been some misunderstanding. Requests for reproduction services such as yours can be brought or mailed to Division 3154 in Bldg. 802. If such requests are for services provided in other locations, they will be taken there by us on a routine basis. The completed work also can be mailed back to the requester. We do advise customers that if the job is small and urgent, it is possible for them to take the request directly to other buildings and to wait for it to be processed; this is not a requirement, however.

Sorry for your inconvenience and if you have any future problems, please contact the supervisor in 3154-1.

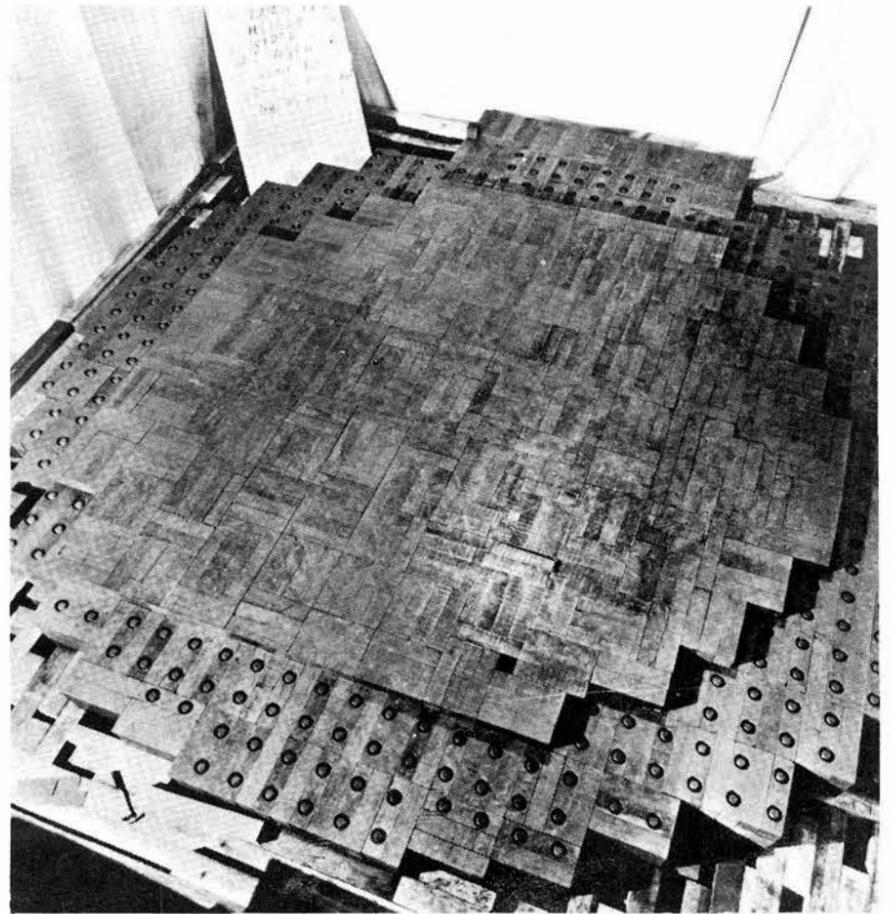
K. A. Smith—3100



A report out of the People's Republic of China informs us that a surgeon there has successfully removed a bladder stone from a patient by inserting a "miniature bomb" inside his bladder and blasting the stone to small pieces. It's reported the doctor is asking for combat pay.



**BOB SCHUCH (4233)** was a machinist working for the University of Chicago in December 1942 when the world's first sustained nuclear fission was achieved in this graphite block pile. Bob machined some of the blocks, helped move them into place. The pile contained almost 400 tons of graphite, six tons of uranium metal and 58 tons of uranium oxide.



## Bob Schuch Helps Build Chicago Pile

Bob Schuch of Simulation Operations Division 4233, now responsible for the Hermes II pulsed power x-ray machine, is one of the few people around who can say, "I helped build the Chicago Pile."

The nuclear age was born in December 1942 when the world's first sustained atomic fission was achieved in a graphite block pile underneath the west stands of the University of Chicago stadium. The graphite served as a moderator in the primitive reactor.

"I machined some of the graphite blocks," Bob says, "and helped move them to the stadium. At the time we in the shop had no idea of what we were working on."

Bob, 18 years old then and recently graduated from high school, was working as a machinist for the University of Chicago Metallurgy Lab. "They paid 10 cents more an hour—all of 95 cents—as a premium for working on the graphite."

Bob joined the Navy in April 1943. He was on a ship on security patrol close off Tinian, the island airbase for the B-29s that dropped the first two nuclear weapons, in August 1945. It was there that he read about the bombs and the Manhattan Engineering Project and realized that he had helped during the early part of the program and had probably witnessed the takeoff of the Enola Gay, the B-29 that dropped the Hiroshima bomb.

"We were happy the war ended before we had to attack the Japanese home islands," Bob says. "After my discharge, I went back to the University of Chicago Instrument Development Shop and was assigned to work with Harold Agnew, a graduate student who later became head of Los Alamos Scientific Laboratory."

Bob also worked with Ernie Anderson and Willard Libby on the instrumentation for the carbon 14 dating process, a process which earned Libby the Nobel Prize. By measuring the carbon 14 content of a substance, its geological or archaeological age may be established.

Anderson, who had made radioactivity measurements around the world as part of the carbon 14 dating project, moved to Los Alamos to head the health research lab—the concern at the time was measurement of radioactive fallout from atmospheric testing. Anderson invited Bob to join him at Los Alamos and help with instrumentation development. Among the devices developed were liquid scintillation counters that could measure minute amounts of radioactivity. These led to the medical use of radioisotopes as "tracers" in the human body.

Part of this work was the development of the "whole body counter" which could measure the amount of natural radiation in a human. Useful in a number of pioneering medical research programs, the project received widespread publicity in the national press—including LIFE magazine in November 1955.

In those years Bob was active in atmospheric testing and also helped in the development of radiation counters for the "free neutrino" project, a milestone in physics research. He also participated in the Kiwi nuclear propulsion project and helped build detectors used in the Ranger and Surveyor space vehicles. A small bit of ego here—Bob put his name under the seal of the spacecraft instrument packages so that at least his name would be on the moon.

After a couple of years with Packard Instrument Company heading installation of whole body counters in Europe, Bob returned to the atomic energy program at the University of California in San Diego. There he worked on high altitude balloon instrumentation to measure gamma rays from the Crab Nebula. He joined Sandia's electron beam research group in 1967.

"I've been lucky to have been a part of the atomic energy program from its beginning and through some of its big moments," Bob says. "Now I'm looking forward to being here when Sandia achieves the ultimate goal—sustained and controlled nuclear fusion."

## Fun & Games

**Golf**—SGA has scheduled a two-man best ball tournament at the new Cochiti Lake golf course on Saturday, June 27. For those who wish to remain after the play to picnic, space is available at the nearby lake. More information will be sent to SGAers shortly by tournament chairman Brian Finley (1223).

\* \* \*

**On the Rails**—If you've never made the Cumbres & Toltec Scenic Railroad trip out of Chama, you've missed a great day and some great sights (and sounds). LAB NEWS should have brochures on this ride by the time this issue appears—stop by and pick one up at our trailer next to Bldg. 814.

Meanwhile, the Que Pasa Rec Center is offering the easy way to make the trip, by bus leaving the Rec Center at 6 a.m. and returning late the same evening. It's set for Saturday, Aug. 22, costs \$39 per adult, \$23 for children under 12. Signup deadline is July 31, contact is D. J. Walker on 4-5420.

\* \* \*

**Blue water sailing**—If you've ever had a yen to do some ocean sailing, DOE's Bill Horton has an interesting proposition. As a qualified skipper in large sailboats, Bill proposes to charter a 35 to 40-footer for a month or so in the Virgin Island region of the Caribbean, then to schedule interested people (up to six) to ship on with him for all or a fraction of the month. For example, three couples might want to cruise for a week of island hopping and snorkeling. Bill is aiming at the fall months, would like those with an interest to call him for details on a get together where the subject can be more fully explored. He's on 846-2115.

\* \* \*

**Kayaking**—And if blue water sailing isn't your thing, then slip into a kayak, a device contrived to place you on intimate terms with that on which it floats. Tom Lenz, 266-7557, would like to talk to experienced kayakers interested in some pool sessions during the summer months.

\* \* \*

**Aerobic dancing**—An eight-week summer session is slated to start Monday, June 29, with classes on Mondays and Wednesdays from 9:30 to 10:30 a.m. and from 5:30 to 6:30 p.m. at the C-Club. If you're wondering if you can hack it, a demonstration is set for June 24 at the club from 12 to 12:30. Contact: 255-3614.

\* \* \*

**Basketball**—The Labs summer basketball league starts play June 22. Interested teams and players should contact Dennis Gutierrez on 4-5409 or Ron Van Theemsche on 4-6824.

\* \* \*

**Soccer**—The Labs coed soccer league will hold an organizational meeting on June 16 at 5 p.m. at the C-Club. Players, whether signed up or not, are urged to attend as the format for play will be



GERRY FOWLER (5114) became a Mended Heart member following recovery from his own heart surgery. He and the other members of the organization help allay the anxieties of pre- and post-operative heart patients.

## Gerry Fowler Is A 'Mended Heart'

Gerry Fowler, an ESA in Surface Physics Division 5114, underwent heart surgery (four by-passes) last July. The day before his surgery he was visited by retired Sandian Fred Sweet, a member of Mended Hearts, Inc.

"I'm not an organization joiner," Gerry says, "but I was so impressed with Fred's visit that when I recovered from the operation, my wife and I joined Mended Hearts."

Now Gerry is an accredited MH visitor, and twice each month he visits pre-operative or post-operative heart patients at Presbyterian Hospital. The MH visitors are also on call for visits to BCMC or the VA Hospital. In existence six years, Mended Hearts has 70 members, many of them Sandians.

"Most pre-op patients are apprehensive," Gerry says, "and we try to reassure them. All medical questions are referred to their physician but we can talk about our own experience. My wife Leona is an associate member and she talks with the patient's family. We sometimes help arrange lodging for out-of-town people—we do whatever we can to make it easier on the patient and his or her family."

decided at this meeting. Contact: Darryl Bouchard, 4-8634, or Tom Lenz, 4-8486 or 266-7557.

\* \* \*

**Tennis**—The first annual Tennis Picnic will be held Sunday, June 28, 4 to 8 p.m. at the Albuquerque Academy Tennis Courts. Just bring your racket—the Sandia Tennis Assn. will provide food, drinks, tennis balls and courts (at \$4 for STA members, \$5 for non-members). Play will consist of on-the-spot challenges (mens/womens/mixed doubles and mens and womens singles). Sign up deadline is June 24. Contact: Max Sandoval, 4-6877 or Terry Holovka, 4-0872.

\* \* \*

**Backpacking**—"Trek for Life and Breath" is a fund-raiser for the American

Lung Association of NM. It's a seven-day, 100-kilometre backpack in the Pecos Wilderness Aug. 17-23. Food, transportation, supervision and training for the trek will be furnished—you supply your own backpacking equipment. Trekkers raise money through sponsored pledges. Proceeds will be used to help fund the Lung Association's programs in New Mexico. For more information contact ALA, 216 Truman NE, Albuquerque, NM 87108 or call 265-0732.

Gerry and other MH visitors complete a training course, currently instructed by Frank Francis (5815), before becoming accredited. The group gets together once a month, usually to hear a speaker from the medical profession. At a recent meeting, doctors demonstrated a heart/lung machine. "Whatever new information we learn helps us in dealing with the patients," Gerry says.

"Becoming an invalid is one major concern expressed by patients before surgery. Seeing and talking to a person who has recovered seems to help them overcome some of their fear. And, when we visit a post-operative patient—seven days after surgery—the most frequently asked questions deal with recovery time."

Improvements in techniques and equipment for heart surgery have been rapid during the past decade and Gerry feels that people in the Southwest are fortunate because Albuquerque has first-class facilities and cardiovascular surgical teams. "Our time and effort spent in training and making these visits are worthwhile," Gerry adds, "especially when the patient says, 'Thank you; I feel so much better now.'"

### Instrumentation Clinic Set

A physical measurements and instrumentation clinic featuring exhibits by major manufacturers is scheduled Tuesday, June 16, at the Classic Hotel. The display area in the Starlight Room will be open from 9 a.m. to 7 p.m. with factory representatives available to answer questions.

## Board of Directors OKs Pension Increase For Retirees

A special increase in pensions for eligible retired employees or their surviving annuitants has been approved by Sandia's Board of Directors. The increase follows the benefit structure of the Bell System.

All eligible retirees and annuitants have been notified of their assignment to one of the two new benefits structures recently announced, the Retirement Income Plan or the Pension Security Plan.

The effective date of this increase for the Retirement Income Plan is April 1, 1981. To be eligible, a retiree or annuitant must have elected to participate in the Bell System benefits structure in July, 1975, and have been receiving a pension on March 31, 1981. Eligible retirees or annuitants will receive an increase in their present pension of 1/16 of 9% (approximately .56%) for each full month of retirement between December 1, 1979, and March 31, 1981. The minimum increase will be 0.5625% (one month), and the maximum will be 9% (16 months).

The effective date of this increase for the Pension Security Plan is July 1, 1981. To be eligible, a retiree or annuitant must have elected to participate in the Bell System benefits structure in July, 1975, and have been receiving a pension on June 30, 1981. Eligible retirees or annuitants will receive an increase in their present pension of 1/19 of 9% (approximately .47%) for each full month of retirement between December 1, 1979, and June 30, 1981. The minimum increase will be 0.4737% (one month), and the maximum will be 9% (19 months).

This special increase has been filed with the Internal Revenue Service for approval. Actual payment of the increase cannot be made until IRS approval has been obtained, which is expected to be by the end of 1981. When approval has been received, a retroactive payment of the increase amount for the period between the effective date (April 1, 1981 for the Retirement Income Plan and July 1, 1981 for the Pension Security Plan), and the actual payment date will be made.

This increase affects over 2200 retirees and annuitants of Sandia. Here is how the increase will work:

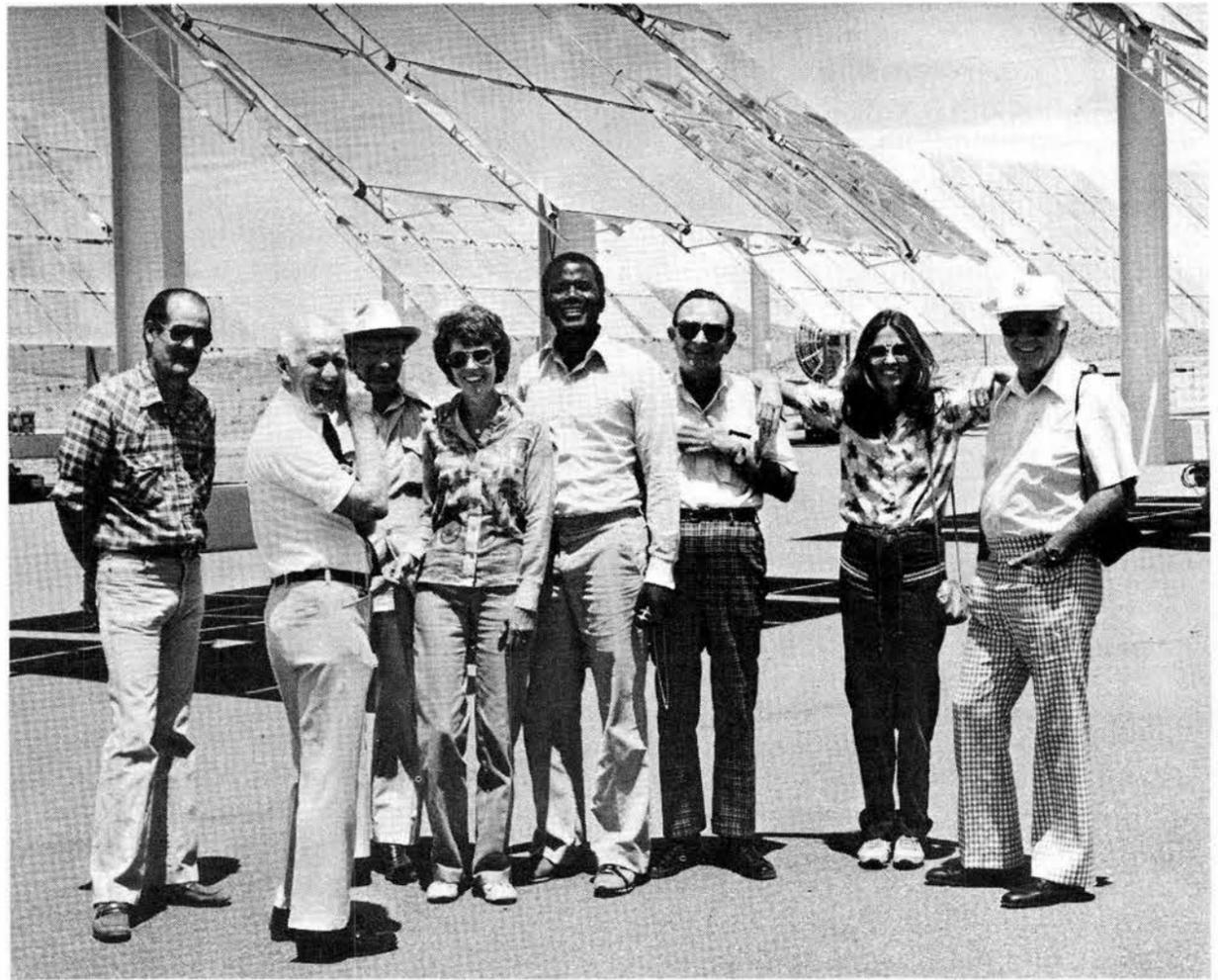
*Retirement Income Plan:* An employee retired February 1, 1980, with a pension of \$500 per month;

1. 14 (months of retirement during the period December 1, 1979, through March 31, 1981) X 0.5625% = 7.875%
2. \$500 (monthly pension) X 7.875% = \$39.37
3. \$500.00 + \$39.37 = \$539.37 (monthly pension effective April 1, 1981)

*Pension Security Plan:* An employee retired January 1, 1980, with a pension of \$500 per month;

1. 18 (month of retirement during the period December 1, 1979 through June 30, 1981) X 0.4737% = 8.527%
2. \$500 (monthly pension) X 8.527% = \$42.64
3. \$500.00 + \$42.64 = \$542.64 (monthly pension effective July 1, 1981)

Where a surviving annuitant's pension is in effect or the survivor option has been elected, the same percentage increase that



TRACES—That, we are told, is the name of a comedy film directed by well-known actor Sidney Poitier (center) and featuring several sites, including Sandia's Central Receiver Facility (the Power Tower). Bob Gall, second from left, from Public Information Division 3161, hosted the film crew during its visit and has just learned that this is to be a comedy film. Sidney and company will be back this fall to do the actual filming.

## Helicopter Flights To Test New Air Pollution Instrument Package

Shortly after sunrise on three mornings this month, a helicopter dangling a Sandia instrumentation package on a 150-ft. cable will fly through Tijeras Canyon and over the city. It will fly downwind from PNM's Reeves Power Plant and several other energy-consuming facilities in the area as part of an air quality/energy study sponsored by DOE.

In addition to proof testing the instrumentation package, data will be gathered concerning the effect of morning winds in mountainous terrain on effluents from energy-related facilities.

The instrumentation system, under development for several years by Bernie Zak's Environmental Research Division 4533, is being tested for the first time.

Sandia first fielded airborne air pollution studies in three manned scientific balloon

would apply to the retiree's pension will also apply to the annuitant's pension.

A letter explaining this adjustment has been sent to all retirees and surviving annuitants whose pensions will be adjusted.

The Board of Directors stated that this special increase in pensions was approved in the light of current economic conditions and that this action cannot be considered as an indicator of future pension changes. The Board further stated that any such decisions regarding pensions will be independent of any past or present actions and will remain at its discretion.

flights (Project Da Vinci) which began in November 1974, according to Bob Woods (4533), principal investigator. The first flight went from Las Cruces to Wagon Mound, NM, and the second two, in June and July 1976, extended from the St. Louis area to southwestern Indiana and to Morehead, Kentucky.

The balloon-borne instruments were large, heavy, and required an operator. Since then, Sandia has designed the compact, remotely controlled, 350 lb. instrumentation package to be used in the helicopter flights and in future unmanned balloon flights.

The instruments include an ozone monitor, nitrogen oxides monitor, sulfur oxides monitor, a nephelometer to measure atmospheric turbidity, particle samplers, chemically active filter samplers for other gaseous pollutants, and stainless steel bottles for whole air samples. Instruments to measure atmospheric conditions, such as atmospheric pressure and relative humidity, are also included.

During the flights in the next couple of weeks, telemetry and other ground stations will be manned by Gerry Gay, Lee Jensen and meteorologist Hugh Church (all 4533).

### Congratulations

To Rosario and Jose Rodriguez (2146), a son, Jose Jr., May 14.

To Richard (1254) and Shanna (3253) Cernosek, a son, Martin, May 26.

To Loretta (5111) and Chester Chavez (3418), a daughter, Clara Amber, June 1.

## Some Hobby

# Kelly Doesn't Play Much Tennis

A familiar face looked through my doorway.

"You still doing hobby stories—you know, where the employee is doing something interesting in his off hours?"

*Well sure, John. What are you up to?* John Kelly, a physicist in Radiation Physics and Diagnostics Division 4426, is on my brief list of Labs superjocks, and I assumed he would be telling me about his next senior decathlon.

"Sissy and I bought a tennis club last year—the Sierra Vista which we changed to the Showdown. We thought it would be fun and rewarding."

*And has it worked out that way?*

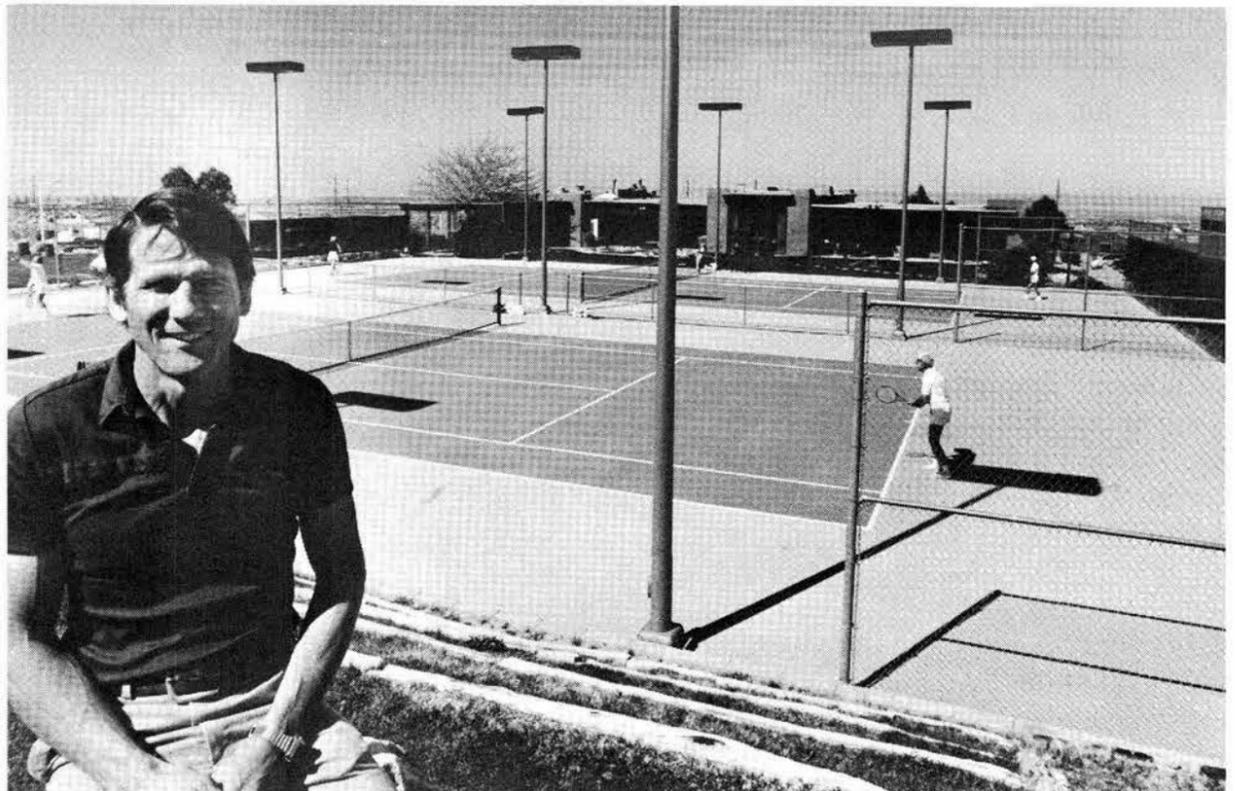
"Yes, but . . . we've had some problems. Like three days after we took over, a fluke wind storm knocked our fences down and blew the roofing off the rec room and spread it over six courts."

*That must have hurt.*

"Then there's the weeds. Never realized how fast they could grow . . . and pulling them is certainly not high technology. It just takes a rice picker's back and I've found out mine doesn't qualify."

*Nothing like variety.*

"And Sissy was getting ready for the U.S. Open—she ranks fifth nationally in 35



**KELLY'S TENNIS CLUB**—Also known as the Showdown, club has 16 courts and a swimming pool, is located near Montgomery and Tramway. Running it, a job that John (4426) shares with his wife Sissy, has been "an educational experience."

singles—when her back spasmed for the nth time and she had to have a triple fusion in September. Since she was managing the club as well, things got pretty complicated for a while."

*Sounds like running a club is not exactly your fun-filled job.*

"Actually it is, but it does take a lot of time. We still feel very upbeat about the whole adventure. Sissy's back has recovered and she is back to full effectiveness—getting the club running smoothly and the tennis programs going. The club members

are fun to be around and we're doing something that we both believe in deeply—the value of athletics to a person's physical and mental health."

*John, you've got yourself a real commitment there . . . not exactly a hobby. Do you ever get to play tennis?*

"Sure, one of these days . . . soon as we get the swimming pool squared away, the new phone system in, computerize our books, improve the irrigation system, work on the courts . . . maybe even Sissy will have a chance." •js

# Introducing the Buffalo Chicken Wing

There were 12 of them lying there in the basket looking like miniature drumsticks. They were covered with a sparkling caramel-colored sauce.

Jim Heider (1716) is grinning like a proud parent. "Cooked them myself," he says. "It took months to perfect the sauce."

We're at Jim's place, a restaurant out on north 4th. Jim opened it in February because there was no place in New Mexico where he could get Buffalo chicken wings.

"I'm addicted," Jim says. "I grew up eating Buffalo chicken wings and shoveling snow. The snow I can live without, but I can't live without Buffalo chicken wings. Are you gonna eat that thing or not?"

Frankly, I'm not all that fond of chicken. With the price of meatballs out of sight, we eat a lot of chicken at my house—fried chicken, baked chicken, chicken casseroles, leftover chicken. I even invented a chicken and green chile dish—I plan to enter it in a chile cooking contest and win first prize one of these days. But chicken wings? You have to be kidding.

Jim keeps smiling. "Back in Buffalo," he says, "everybody eats chicken wings. They're the greatest thing in life. Kids who leave home to go to college drop out and come back to Buffalo. They can't stand being deprived of chicken wings."

Jim's wife Linda and his daughter Karen are there. They run the place during the day. Karen is waiting for a Q-clearance. She'll be joining Sandia's guard force soon. Jim's 13-year-old daughter Kristen helps

out on weekends. Jim hurries to the restaurant after work to take over the cooking. He builds the sauce.

"Man, this sauce recipe is the most closely guarded secret in the world," Jim says. "You can't get it for love nor money."

How did you get it?

"I had to re-invent it from scratch," Jim says. "Took months. I had to perfect mild, medium and hot."

"When we opened the place," Jim says, "about 90 percent of our business was the deli sandwiches, about 10 percent chicken wings. Now, it's the other way around. We sell a lot of chicken wings—about two tons since February. Are you going to try one or not?"

Jim is still smiling but his teeth are showing now. He owned a security service in Buffalo before joining Sandia three years ago. He's a small arms expert—pistols, rifles and like that.

So I try the chicken wing. Mmmmm. Tasty. Crispy. The sauce is snappy. Piquant. Conversation ends. I finish all 12 chicken wings, mopping up the sauce as I go. There are celery sticks on the side. These are dipped in blue cheese dressing. Refreshing. Lots of napkins.

"This is not chile sauce," I say. "This is not barbeque sauce. This is good stuff and different. What's in it?"

"Not for love nor money," Jim says.

"OK, then, bring me another order. Medium hot." •dg



**JIM HEIDER (1716)** prepares to mix his special sauce—either mild, medium or hot—for Buffalo chicken wings, the specialty of the house at his new restaurant.

# MILEPOSTS

## LAB NEWS

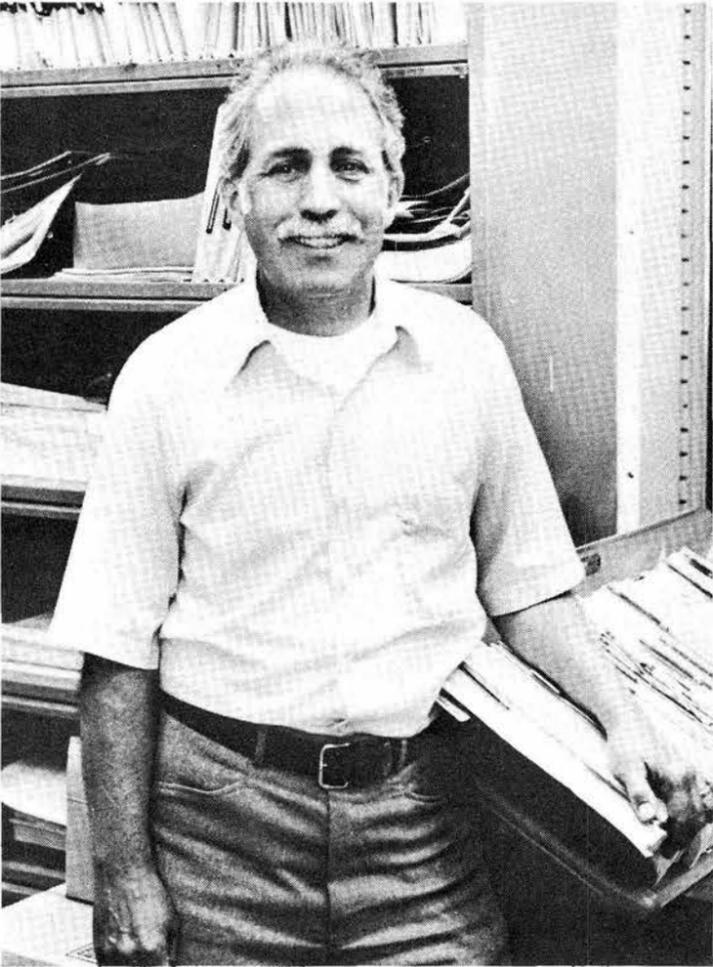
JUNE 1981



Anna Isham - 8212 20



Craig Jones—2610 20



Jose Chavez—3421 30



George Easley—2162 15



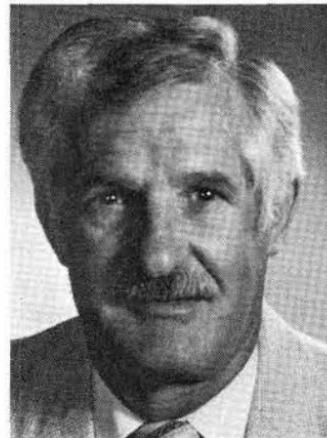
Darrell Dykes—1543 25



Roger Baroody—8410 30



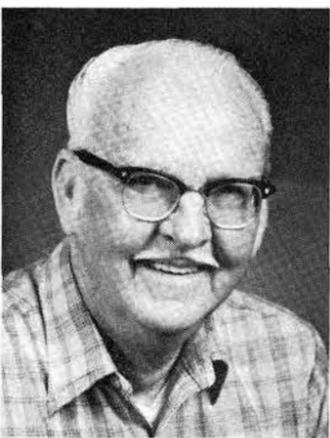
Marv Morris—1553 15



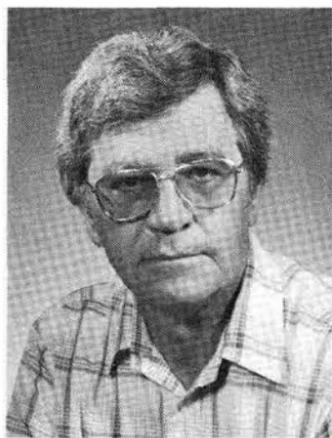
Jim Hillman—1415 25



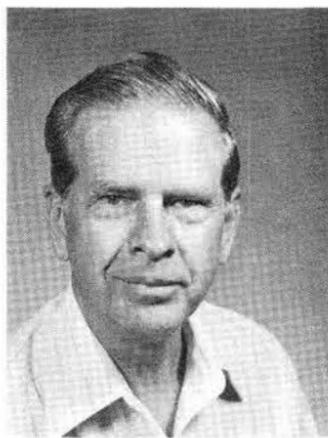
Paul Phipps—1242 20



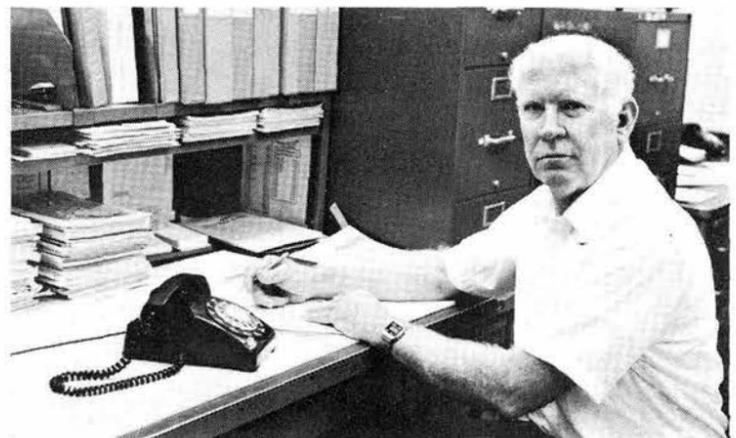
Stan Pickens—8161 30



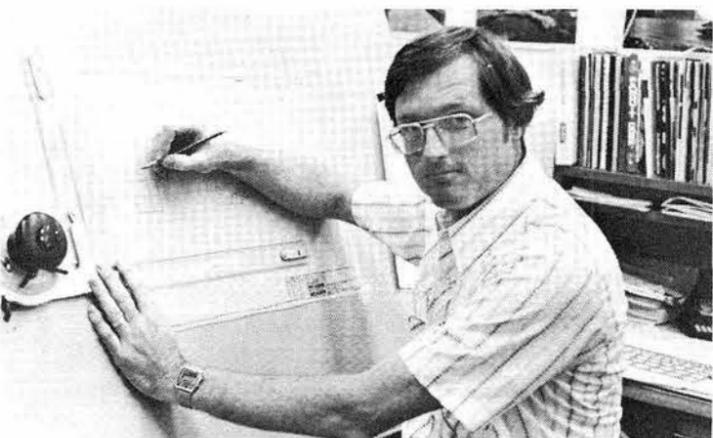
Bob Austin—3542 25



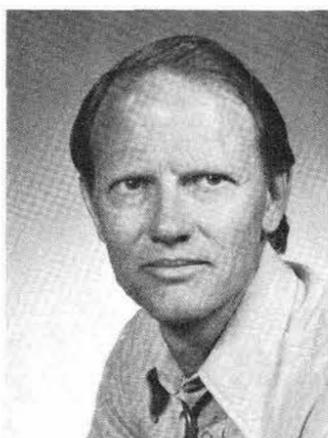
Harold Jeske—1584 30



Robert Crain—2332 35



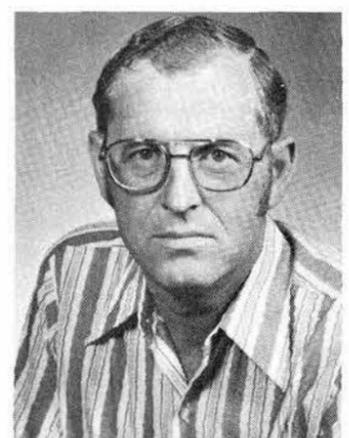
Ron Haid - 2452 15



Sam Martin - 2323 20



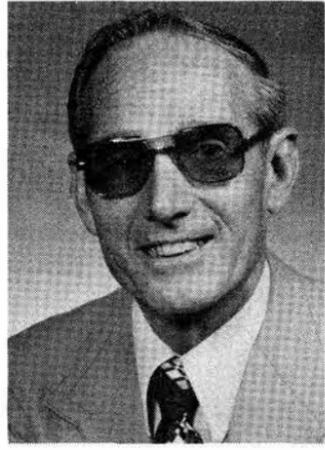
Calvin Rogers—4726 25



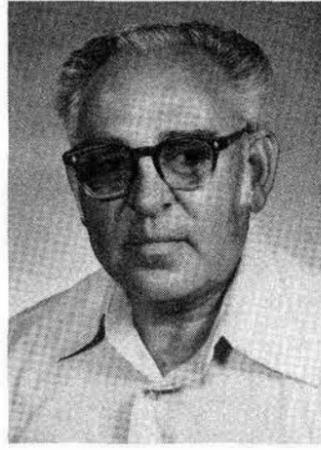
Charles Johnson—1754 25



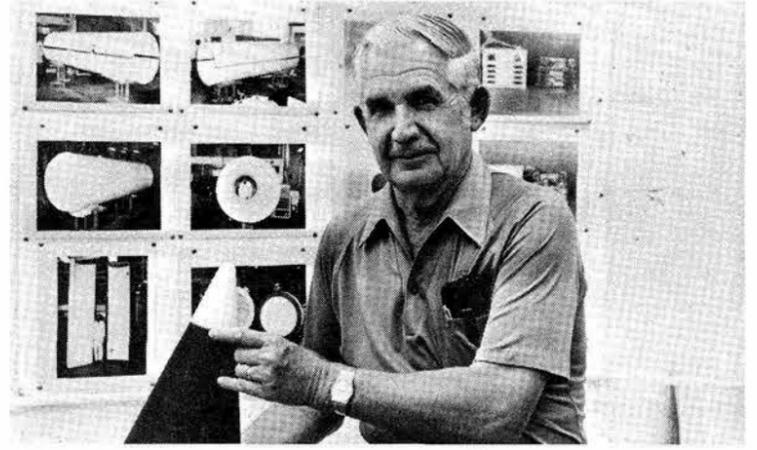
Ben Lucero—2154 30



Ron Hayenga—2532 30



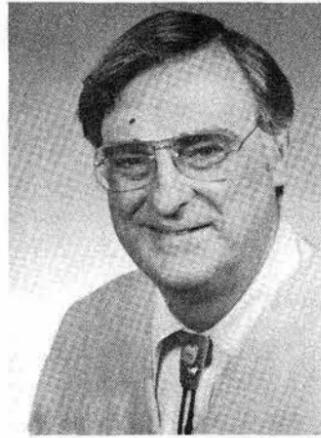
Ramon Gabaldon—3612 25



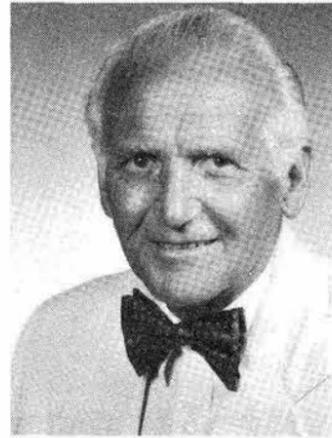
Blythe Wemple—1472 35



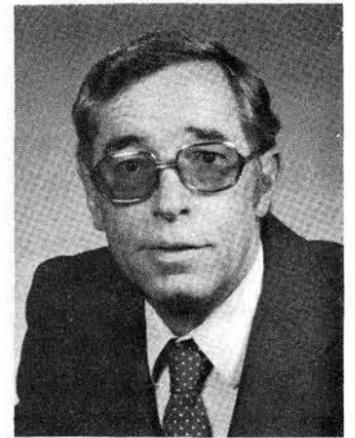
Dan Neff—3711 30



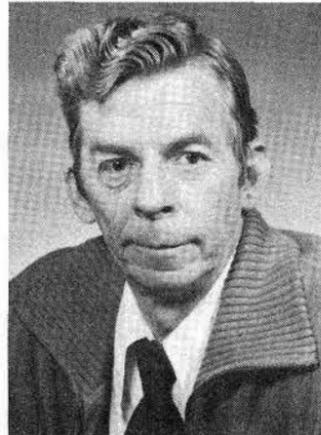
Alan Swain—1223 20



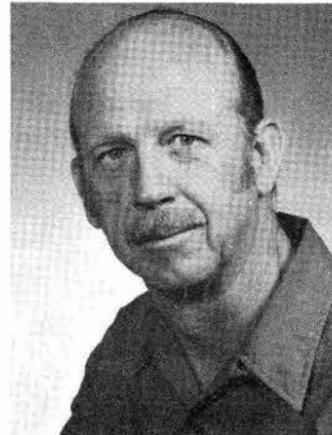
Ted Botner—5632 25



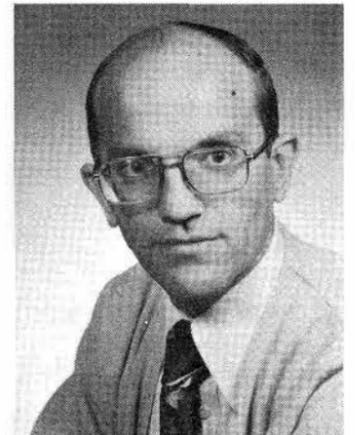
Max Newsom—5620 25



Bill Burns—1582 25



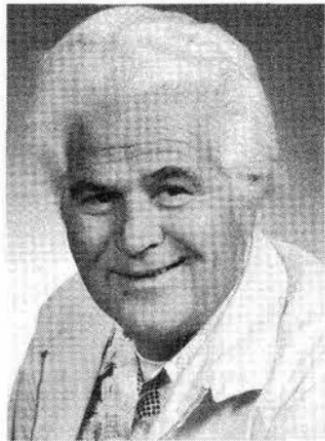
Leon Keck—1582 25



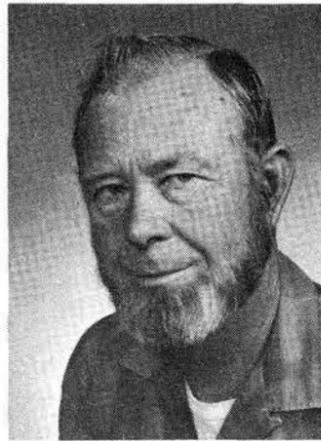
David Larson—5513 15



Ed McKelvey—8115 20



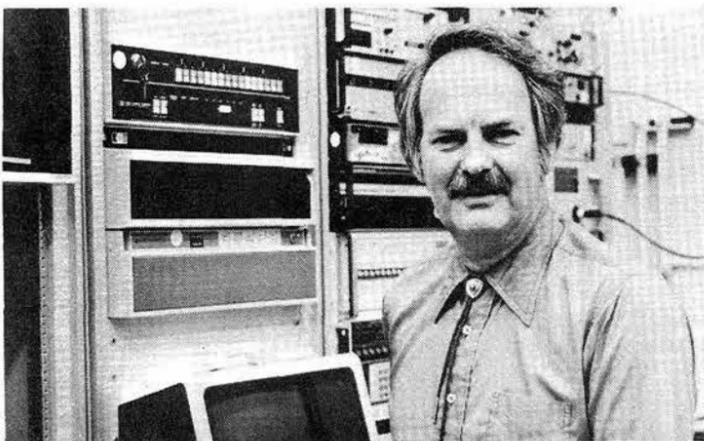
Bob Wood—2553 25



Charles Peeples—5834 15



John Martinez—3417 30



Bob Taylor—1587 25



Charles Borgman—2336 15



Dodie Hoffman—3431 25



Bill Byroads—8441 20

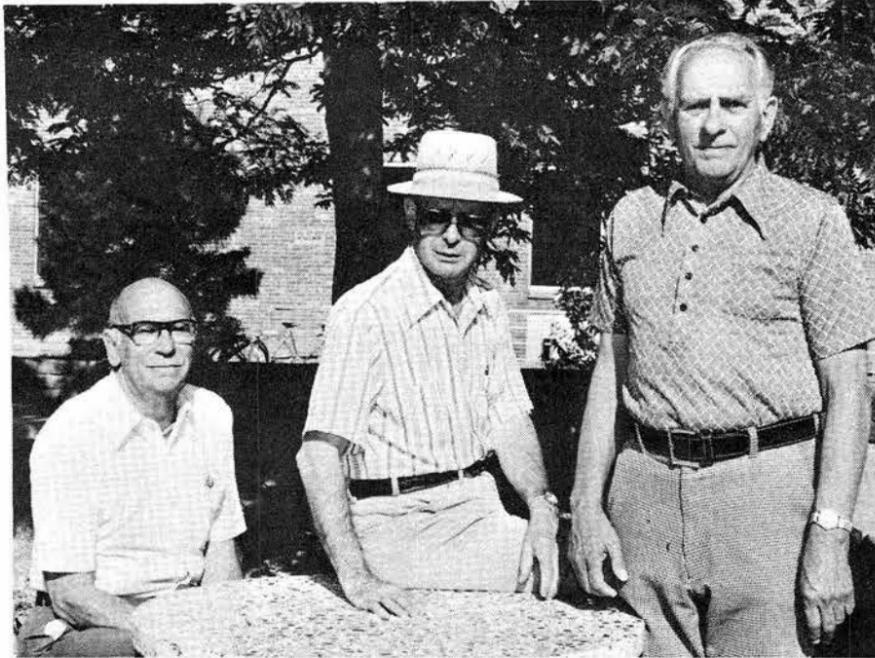
# Events Calendar

June 12-14\*, 19-21\*, 25-28\*—Albuquerque Civic Light Opera, "Show Boat," Popejoy, 8:15 p.m., \*2:15 p.m., 345-6577.

June 13—San Antonio Feast Day, corn dance; Sandia, San Ildefonso, San Juan, Taos, Picuris and Santa Clara Pueblos.

June 14 through Oct. 12—Cumbres & Toltec Scenic Railroad, Chama. Call LAB NEWS, 4-7841 and we'll send you a schedule.

June 14—Arts In the Parks: Old Town Plaza "Fiesta Day," includes flamenco dancing, Adobe String Band and Aztec dances. June 21—Bataan Park "Fantasy Day," includes performances by story theater group, NM Stunt Actors, and Dance Makers, Inc. No admission, 1-5 p.m.



RETIRING—Hank Baisdon (1471), Don Rauch (3431) and Rox Kent (2166).

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

### CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday. Mail to: Div. 3162 (M0125).

### 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 & organization.
9. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

### MISCELLANEOUS

BOOKS, BOOKS, got a bunch, got to sell—romances, westerns, mysteries, texts, classics; new shipment Sandia T-shirts, all sizes, \$6; Sandia windbreakers & caps. S. Hwy. 14 Village Project, LAB NEWS, MO125 next to Bldg. 814.

FREE kittens, 3 orange/white, 8 wks. old. Mikkelsen, 881-3921.

HAM EQUIPMENT: Signal One CX7A XCVR, \$700; fully iambic keyer w/dot/dash memory, Ten Tec KR1 paddle, \$85. Draper, 821-5455.

CHRISTMAS greenware, 35 cents ea.; bisque, 55 cents ea.; ceramist tools; baby crib, \$25; changing table, \$20; books, wide assortment, 1/2 price. Decker, 898-8991.

DISHWASHER, Hotpoint, avocado green, has options to be used as under-the-counter or portable unit, \$100. Auerbach, 296-1489.

DENCO 4 Into/header system for Kawasaki KZ650, left exit, black w/removable baffle, \$130. Barnard, 831-4114.

BALDWIN ORGAN, Interlude model, \$1300. Ewing, 268-6920.

TWO E78-14 tires, \$20; truck mirrors w/some brackets, \$15; 120V AC 60 #2 heat panel (Aztec), \$15. Stevenson, 242-7635.

CHINA CABINET, walnut finish, 39"wx72"hx16"d, \$275; All-Pro bicycle, 20" dirt, \$35. Hawn, 298-1231.

FURNITURE: black vinyl recliner, \$50; formal accent chair, \$75; glass top end table, \$40; 2 pecan stack tables, \$80; glass top coffee table, \$30. Nuttall 293-2250.

GREEN overstuffed chair w/cushion, rolls, 33x33, \$30; trailer, two wheels, powder blue. Hitchcock, 294-5153.

TEKTRONIX oscilloscopes: 531, 535, 541, 545, low as \$250. Kraft, 299-2157.

CAR RADIO, AM/FM stereo, CB, 8-Tk., digital readout & clock, seek & scan, GM's best, \$280. Luther, 293-4462 after 5.

TIRE CHAINS, heavy-duty, fit 700x15 truck tires, seldom used, \$20 for the pair. Simmons, 298-8510.

TRS-80 computer 16K Level-II, 6 mos. old, \$500. McDaniel, 299-6189.

SEA KING outboard motor, forward & reverse, 16 HP, \$80. House, 255-2646.

GRASS CLIPPER, 4" blade, Sears Craftsman cordless rechargeable, \$20. Kohut, 884-4338.

FREEZER, 14 cu. ft., 1960 Admiral, holds zero temp. Meyer, 296-9066.

1 PR. hiking boots w/vibram soles, size 6D men's, practically new, \$38; acoustic Summit guitar, no case, 6 strings, \$30. Tolman, 299-6060 after 5.

AM RADIO for Ford pickup, \$20; AM radio for Mustang, \$20; CB radio, \$20; fiberglass camper shell for LWB, white, \$200. Jaramillo, 864-8491.

GOATS: good milkers, 1 gal. per day, \$125; neutered kids, \$20. Williams (Belen) 864-3617.

FREEZER, 16 cu. ft. upright, frost-free, \$150. Hoffman, 296-0124.

DINING TABLE & 6 matching chairs, solid wood, \$80 or best offer. Chen, 298-6477.

PEDIGREED Brittany Spaniel, 1 yr., female, affectionate, good w/children, has all shots. Bennick, 299-9687.

4-WHEELER GOODIES: 48"hi-lift jack, \$30; tow hooks, \$5/pr.; 102" CB mobile antenna w/mount, \$10; all for \$40. Reed, 268-7484.

25" COLOR television w/Mediterranean hardwood cabinet, non-working, manuals & extra HV power supply included, \$75. Hale, 298-1545.

TABLE TENNIS TABLE, Sears' best, regulation 5x9", 3/4" particleboard, folding, 1 1/2" steel apron. Grear, 281-3166.

LAWN MOWER, rotary, 21", snapper, self-propelled, 4 hp engine, \$295. Burgeson, 898-5859.

WASHER-DRYER, \$290; used carpet & drapes, lamp, chair, end tables, misc. furniture. Garcia, 293-3937.

REAR SEAT for '67-'77 Bronco, w/seatbelts, \$50; 2 sets 15" truck tire chains, \$20 ea. Brammer, 266-5158.

LIVING ROOM FURNITURE: Early American sofa bed, arm chair, recliner, 2 end tables, cocktail table, all for \$175. Romero, 865-5681.

TRAILER TIRE, 5.70x8, on 4-hole rim \$25; 5-hole 8" wheel only, \$7.50 (\$49.99 & \$13 plus ship., Sears). Baxter, 344-7601.

SEARS oval nylon sculptured pile area rug, paprika color, cost \$130, 1 yr. old, sell for \$75. Moyer, 881-3879.

FRENCH provincial white triple dresser w/tilt mirror & matching single 4-poster headboard and footboard, \$175. Craven, 298-0978.

MALAMUTE registered female, 1 yr. old, \$150. Cyrus, 898-4038.

GE garbage disposal, reconditioned, \$35; GE portable dishwasher, \$100; dbl. kitchen sink, faucet, all fittings, \$25. Pavelko, 296-3346.

C FLUTE. Doyeto, 883-1867.

AUX. 15-GAL. gas tank, made to fit under floor of Volvo wagon, w/pump, fittings, \$45. Berg, 296-2695.

35MM CAMERA, Nikkormat FTN body, \$125; 105mm Nikkor lens, \$100; 200mm Nikkor lens, \$110; 20mm Vivitar lens, \$75. Casper, 268-4464.

77 STARCRAFT camping trailer, Starlette XL, sleeps 6, \$1450; Wards Porta-Potti, 55-flush, \$40. Trujillo, 869-3008.

BEAR POLAR LTD BOW w/sights & camouflage, \$120 cash. Weishuhn, 293-2166 after 5.

SEARS copper under-the-counter dishwasher, \$125; rotary lawn mower, \$50; Sears vacuum cleaner, \$25; Barbie doll house, \$50. Adams, 881-6836.

15 SCREENS: aluminum, various sizes, \$2 ea.; \$25 all; quilted bedspread, green, king size, \$25; 2 stadium seats, \$10. Lynch, 298-7817.

SOLID MAPLE table & 6 chairs, \$200; rotary lawn mower w/3 1/2 hp B&S engine, \$45. McIlroy, 299-4977.

ITHACA model 37 pump shotgun, 20 ga., 28" plain barrel modified choke; Weaver K6 wideview scope. Haaker, 293-1077.

KITTENS, 10 wks. old, several colors, free to good home. Turcotte, 884-3304.

BABY STROLLER, \$20; Mags for Datsun Z-car, \$80; elec. lawn mower, needs some work, \$20. Mercer, 821-6449.

OAK wagon wheel twin bed, mattress, complete, \$275; multicolored upholstered toy chest, \$30. Barker, 294-0254.

KEESHOUND PUPPIES, 10 weeks, \$50 ea., no papers, Morales, 345-1381.

WASHER-DRYER SET, avocado, \$250; king size mattress, springs & rails, \$100; 7700 BTU, 110 AC, \$100. Bolwahn, 294-3475.

GARAGE SALE: high chair; baby clothes; women's clothes, 10-14; misc. household items; aquarium, Sat. 9-5, Sun. 12-4, 3325 Britt NE, Moulton, 293-0373.

VETTER FAIRING SS model; Dan Gurney-Samsonite motorcycle luggage w/three suitcases. Draper, 877-2801 after 5.

SHURE SM58 studio mikes w/pre-amps, 2 for \$100; Rabco ST-4 turntable, parallel tracking, w/o cartridge, \$35. Pritchard, 293-5297.

HEATHKIT 25" transistor color TV chassis, \$125; SB201 linear amplifier, \$395; Western Union Fax machine, \$20. Bernard, 881-0640.

HEARING AID, in-ear type, in 3x4 plastic case. Ehrman, 281-3976.

### TRANSPORTATION

70 1/2-ton FORD pickup; new engine, battery, shocks, etc., \$1050. Baker, 294-3334.

75 HONDA CB360T, adult ridden, 14,000 miles, fairing, luggage rack, runs but needs work, \$200 as is. Hueter, 299-7263.

71 CHEV. Nova, badly damaged left front, 3 new tires, engine, trans., etc. good, sell as is, \$350. Sheaffer, 255-9473 before 7 p.m.

76 CAMERO, 6800 mi/yr., \$3650; 78 custom Chevy van, \$7750; 79 Yamaha IT250, \$1100; 11' Sunflower sailboat, \$325. Lassiter, 298-2461.

1/10 SHARE of Club assets which include 1965 Cessna 182, \$32/hr. wet; \$21/mo. dues, \$2100 neg. Fewell, 292-5517.

79 DATSUN 310, low mileage, 4-spd., AC, AM-FM stereo, 28 mpg town, \$4650. Hawn, 298-1231.

75 PINTO Squire stn. wgn., 4-cyl., 4-spd., AC, PS, PB, alum. wheels, new tires, \$1650. House, 255-2646.

78 GS 400 SUZUKI, Silhouette fairing, Monarch helmet, crash bar, new tires, new suspension, 14,000 miles, 60 mpg. Herrera, 247-9094 after 5.

79 HONDA CM 400T, low mileage, matching bags, windshield, luggage rack, crash bars. Baczek, 255-3429.

78 SUZUKI PE175 Competition Enduro, lt. wt., powerful, adult ridden, never raced, NADA \$850, asking \$750. Schkade, 292-5126.

10-SPEED BICYCLE, 21" frame, \$50. Walters, 881-7027.

77 VW VAN, 9-pass., AM-FM, \$3900. Williams, (Belen) 864-3617.

74 PORSCHE 911 Targa whaletail, CB, AC, racemark, alarm Blaupunkt, Halogens, new tires, clutch, tensioners, sell/trade, \$11,500. Baca, 293-8218.

76 PINTO, AC, AM-FM, 8-Tk, custom interior, 2-dr., std. trans., 4 new Peerless tires, 42,000 miles, \$2300. Aragon, 265-9109.

70 OLDS Cutlass Supreme, 2-dr. HT, AT, PB, PS, AC, \$845. Bradley, 298-2263.

PANASONIC bicycles: two new 10-spd., pre-teen size, 19" frame, 27" wheels, thorn-proof tires, \$75 ea. Garner, 292-3859.

'80 PONTIAC Grand LeMans, loaded, wv-radials, wire wheel covers, PS, AC, disc PB, \$6150. Gallegos, 881-1363.

79 ALFA ROMEO Spider convert., orig. owner, dealer-maintained, 22,000 miles, green w/champagne trim. Dale, 268-2834.

75 TOYOTA pickup w/camper shell, AM/FM cassette, chrome rims, \$2500. Dubois, 881-4135 after 5.

KAYAK, 13' fiberglass, Iliad paddle, float bags, spray skirt, helmet, wet suit (large), booties, mitts, \$375 total. Luikens, 881-1382.

75 MUSTANG, 4-cyl., 4-spd., 20-25 mpg, \$1950 or best offer; '73 Scout 4x4, loaded, \$1895 or best offer. Garcia, 293-3937.

77 DATSUN 200SX, 5-spd., AM-FM radio, new rubber, 59,000 miles, \$3000. Lundy, 877-9669.

HONDA 450, new battery, top end; disk brake. Crist, 836-1708.

74 KAWASAKI 750, \$1295. McFarland, 292-8136.

### REAL ESTATE

3-BDR. HOUSE, 2 baths, lg. corner lot, super-sealed, insulated & expandable. Aragon, 294-4275.

LOT on Regal Ridge NE, Candlelight Estates or build to suit southern exposure for solar application. Kaushal, 821-2584.

3-BDR. HOUSE, \$44,900; 15 years term, 10% interest, \$8000 down, avail. June 23. Miller, 266-0939.

1900 SQ. FT. 3-bdr., 20x22 greatroom, fp, storm windows, 2-car, 15'x30' covered patio, barbeque, \$70,000, 7304 Winans NE. Spradling, 821-4777.

2-BDR., 1 1/2 bath townhouse, Juan Tabo-Central area, \$15,000 down, assumable 8% loan. Stuart, 294-2820.

4-BDR. & den w/solar greenhouse, NE heights, \$65,000, negotiable terms. Bennick, 299-9687.

3-BDR., 1 1/2 bath, views, storage, extras, assume 7 1/2% mortgage, \$229/mo. PITI, \$68,900, \$15,000 +

REC, negotiable. Schkade, 293-7453.

CEDAR CREST, 3-bdr., 1 1/2 bath, carpeted, screened patio, 6/10 acre, additional 6/10 acre & 1/2 acre adjoining available. Wheeler, 281-2402.

### WANTED

BASKETBALL backboard for roof mount. Jaramillo, 864-8491.

1974-78 Honda XL350 engine, must be in good running condition; BMW factory manual for 1974 R90/6. Barnard, 831-4114.

EXTENSION LADDER, at least 24'; patio table & chairs. Moss, 298-2643.

8 to 16-GAL. TANK for compressed air, 100 PSI or greater. Doggett, 293-6210.

WHEELS from old tricycles, 8" to 12" diameter preferred, can use others. Rodacy, 293-2668.

CEMENT MIXER, 2 1/2 or 3 cu. ft. Potter, 831-0155.

WATCHMAKER tools, bench, and/or texts. Korak, 296-1165 after 5:30.

TRAILER for 14' sailboat. Walters, 881-7027.

SLIDING GLASS DOORS, used, prefer 6' but will also buy 8' width, reasonable, please. Morrison, 877-7425.

HOUSESITTING JOB or inexpensive rental for summer graduate student; references available from Sandians. Lagasse, 299-8357.

WANTED TO RENT: Motor home (RV) Oct.-Nov. for 3000-mile trip to Seattle & West Coast. Provide own insurance; retired couple. Rowe, 821-1982.

COPIES of June 1981 *Smithsonian Magazine*. McHarney, 255-7883.

5-GAL. propane tank w/regulator & hose. Garcia, 293-3937.

BOY SCOUT uniform for adult leader, size med. or lg. Bryant, 266-6166.

### WORK WANTED

COLLEGE STUDENT wants any kind of yard work, NE heights preferred. Northrop, 884-4718.

TEENAGER wants odd jobs, lawns to mow, or hauling—\$10 & up per load. Randy Crawford, 881-3812.

TWO STUDENTS require work: house-sitting, yard work, odd jobs, etc. Jeff & Steve Thompson, 298-5800.

TEENAGER desires yard work or other misc. jobs. Bobby Gerber, 296-4286.

### SHARE-A-RIDE

AM taking a summer class at UNM from 12:50 to 1:50, Mon.-Fri.; would like to set up a ride system, any volunteers? Copass, 296-4296.

### LOST & FOUND

LOST—from bike onto roadway: pile-lined blue denim jacket, Sandia vinyl briefcase containing INTEC class notes. Fisher, 881-8072.

## Coronado Club Activities

# Get Luau Tickets Now

**HAPPY HOUR TONIGHT** shapes up as a super evening—in the first place, dinner is a sit-down affair with your choice of London broil or lobster tail with all kinds of extra goodies including an assortment of desserts. Secondly, the popular Gary Waters entertains in the lounge and a group called Together plays in the ballroom for dancing. No reservations required for dinner. Happy Hours start right after work on Fridays and run until midnight or so with reasonable prices in effect all evening. Your discount ticket from the Club calendar is good for \$2.50 off the top for dinner.

**NEXT FRIDAY**, June 19, is a country-time special with chuckwagon steak on the buffet menu and Tom Black and the Fugitives on the bandstand. On Friday, June 26, the buffet is Rio Grande style Mexican food. Al Hurricane plays for dancing. Make reservations by mid-week for these buffets.

**THE ANNUAL LUAU** with dancing girls, flaming swords and an out-of-this-world oriental food spread is scheduled Saturday, June 20. Roast pork, sweet and sour pork, boiled shrimp, boiled lobster tail, Hawaiian chicken and teriyaki baked fish are some of the goodies planned for the buffet. A show group called Hawaii Nei provides the entertainment while Marci and the Talkabouts play for dancing. Tickets (members \$9.75) should be picked up by tomorrow.

**TALK**, a lot of it, is what we're hearing about the Kids' Dog Show coming up Sunday, June 28, at 1 p.m. It seems that every family has kids and kids have dogs and each and every one is special. Well, bring them out to the C-Club and win a prize—there will be a bunch. A prize for the handsomest, funniest, smallest, biggest, best behaved and more will be awarded. Pick up an entry blank at the Club office right away or call Adele at 293-1643 after 6 and have one mailed to you. Don't dawdle. This is your dog's chance to be famous. Only kids may enter but spectators are welcome to watch the fun.



**PRIMPING PANCHO**, Aura readies him for the Kids' Dog Show at the Coronado Club Sunday, June 28, at 1 p.m. Lots of prizes will be awarded. Pick up entry blanks at the Club office.

**TRAVEL DIRECTOR** Frank Biggs (4231) announces two new trips. Well, one of the trips is not new—it's a repeat of the Club's most popular travel package which has led to the designation of the Playa Mazatlan resort beach hotel as the "Coronado Club South." Mazatlan trips number 18 and 19 are scheduled Nov. 2-9 and Nov. 9-16. The price is \$369 per person (double occupancy) and includes airfare, lodging, transfers, tips, taxes and a cocktail party. A deposit of \$75 is required right away with the balance due by Sept. 22.

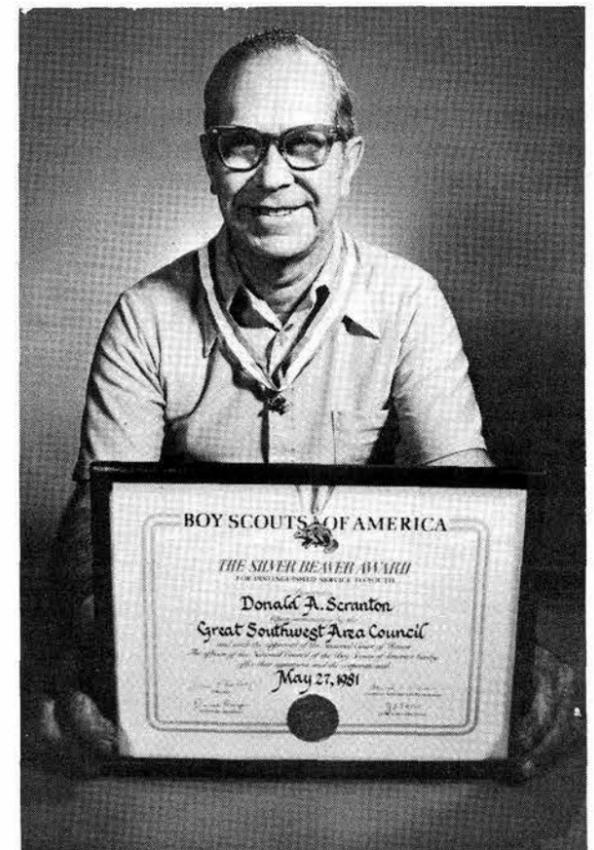
The second package is a Caribbean cruise Dec. 13-20 on the S.S. Mardi Gras out of Miami for \$1031 per person (double occupancy, category 4) which will decrease to \$996 if 30 or more sign up for the cruise. The package includes airfare, port taxes, transfers, and all meals while on board ship. Deposit \$150 now, balance due by Oct. 21.

Frank also has had a number of short but exciting charter bus trips scheduled this summer—Cumbres and Toltec scenic railway, July 26 and Sept. 26, \$42 for

adults and \$30 for kids 11 and under; Gallup Indian Ceremonial, Aug. 8, \$28; a four-day trip to Juarez, Carlsbad Caverns and Ruidoso races, Sept. 4-7, \$145; Las Vegas, Sept. 13-16, \$110; and Canyon De Chelly, Oct. 24-25, \$78.

An organizational meeting for the China trip is scheduled at the Club, June 18 at 7 p.m. Everyone is welcome.

For more info, see Frank in the lobby tonight between 6 and 7.



**DON SCRANTON** (1543) displays the Silver Beaver pendant and certificate he received for his outstanding contributions to Scouting. He was one of nine New Mexicans to be honored with Scouting's highest adult award at the Convention Center on May 27. Former President and ex-Boy Scout Gerald Ford gave out the awards. Don started out as a cubmaster in 1958 and since then has worked in all levels of scouting, including a stint as an Assistant District Commissioner. His sons are also active—all three are Eagle Scouts.

"Go Among Strangers,  
And Ye Shall Be There  
Among Them."

