



# LAB NEWS

VOL. 33, NO. 10

MAY 15, 1981

THE PERUVIAN ANDES tower over a lake near the city of Huancayo. For five months, Hugh Pierson (5834) traveled around the country on special Sandia assignment, lecturing on solar energy applications and inspecting Peruvian solar test facilities.



## Solar Potential

### Peru & The Sun—Waiting For It to Happen

“Peru is a land of almost continuous sunshine, so it’s ideally suited for solar energy. Yet until recently the development of solar energy has received little attention. Even the Incas, renowned for their engineering accomplishments seemed not to have used solar power even though sun

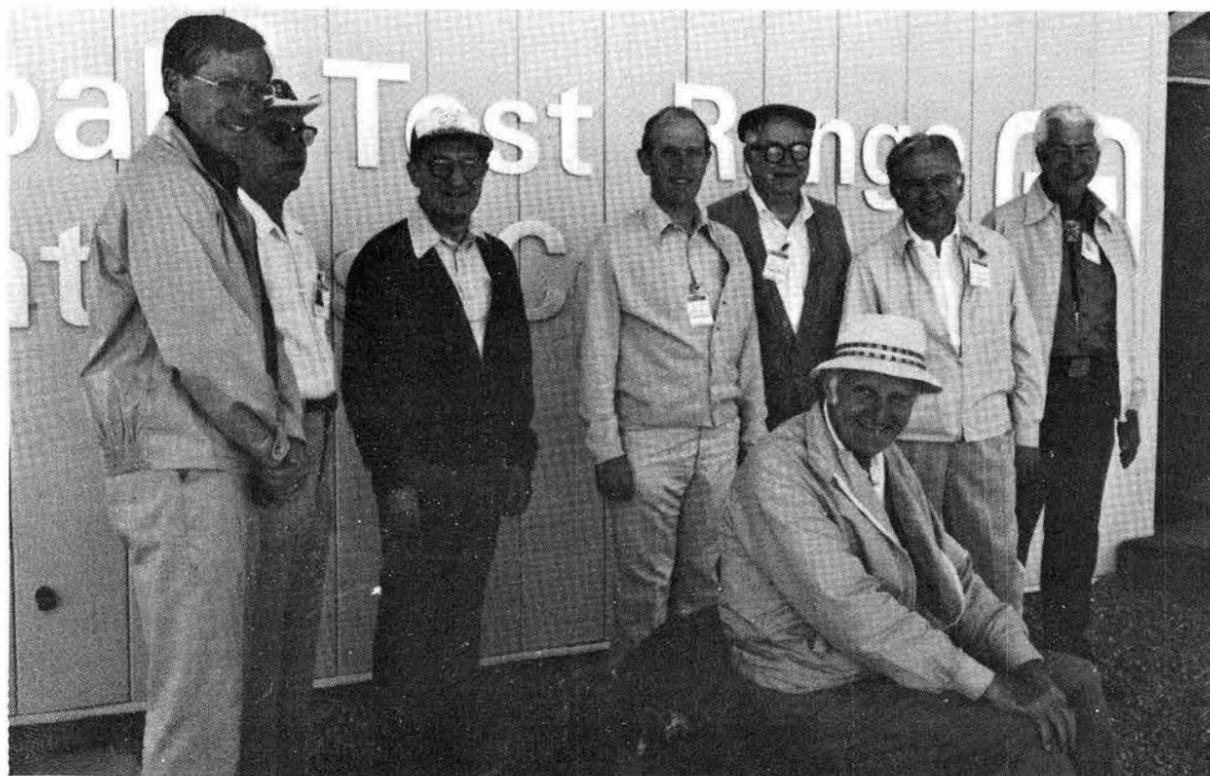
worship was the central element in their religion.”

So says Hugh Pierson (5834) who spent five months in Peru studying the application of solar energy to that country’s particular needs. “I was there on special assignment from Sandia from September

1980 to February 1981 lecturing at universities and inspecting different kinds of installations,” Hugh tells us. “I worked with ITINTEC, a Peruvian government agency doing energy research, both wind and solar.

“Except for some of the coastal area and Lima, the capital city, Peru gets a lot of sunshine. Unfortunately, Lima, with 30 percent of the country’s population and most of the industry, is almost always cloudy. In summer, from December to February, it clears up a little but the rest of the year the *garúa*—a pervasive mist—keeps everything cold and damp. But much of the coastal strip as well as Peru’s stretch of Andes Mountains, and their Amazon basin territory are well suited to solar development—passive solar-heated buildings, solar water heaters, crop dryers for household and industrial use, even a desalinization plant. Photovoltaic systems are being investigated, and they have an excellent potential in Peru, especially in telecommunications.”

Hugh explains that for a number of social, economic, and technical reasons, not least the country’s extremes in topography and climate, Peru’s internal communications are generally poor. For example, there is no nationwide power grid system. Roads are poor, many unpaved; along the coast roads are fairly decent—freeways extend about 30 kilometers on



SANDIA’S Board of Directors meets annually and, for its 1981 meeting, Tonopah Test Range was the site and April 29 the date. That’s President Sparks in front while behind him, left to right, are Warren Corgan (WE), Jack Howard (Sandia), Donald Procknow (WE), Ian Ross (BTL), George Cook (WE), Guy Accettura (WE) and Test Range Manager Sam Moore. Sandia’s VPs were also at the Range for the occasion.

[Continued on Page Four]

# Editorial

## Supervisory Appointment

by Ted Sherwin,  
Manager, Information Dept. 3160

Sandians who own AT&T stock were surprised, perhaps startled, to read a resolution presented at the recent Shareholders' Annual Meeting which called for a special committee to be set up to "evaluate our Company's operation at Sandia Laboratories." The resolution, presented by the Interfaith Center on Corporate Responsibility, asked that the committee, among other things, "study the moral, social and economic implications of continued nuclear weapons production."

The AT&T Board recommended a vote against the proposal, pointing out that the Company has operated the Sandia facilities for over 30 years as a public service and at no profit, doing urgent national defense work. "It is not an appropriate activity of AT&T's Board to take upon itself a critique of federal nuclear policy," the statement said. The resolution received only a handful of "yes" votes.

We Sandians tend to take our relationship with the Bell System for granted and probably aren't aware of the many advantages it provides. But most of us are happy to be a part of Bell, even though that relationship is a bit tenuous. A booklet recently issued by AT&T, entitled "A Statement of Policy," elucidates a company philosophy that gives us good reason to value our Bell relationship.

"Our purpose," says C. L. Brown, AT&T Chairman, in a foreword, "is to seek—at every point of decision—the highest and best use of the organizations and resources we call the Bell System. The highest and the best . . ."

In a dozen sections the Company's policy is set forth in matters affecting its relationship with employees, customers, the government, and the public. Section VII, dealing with the responsibility to communities in which Bell operates, follows:

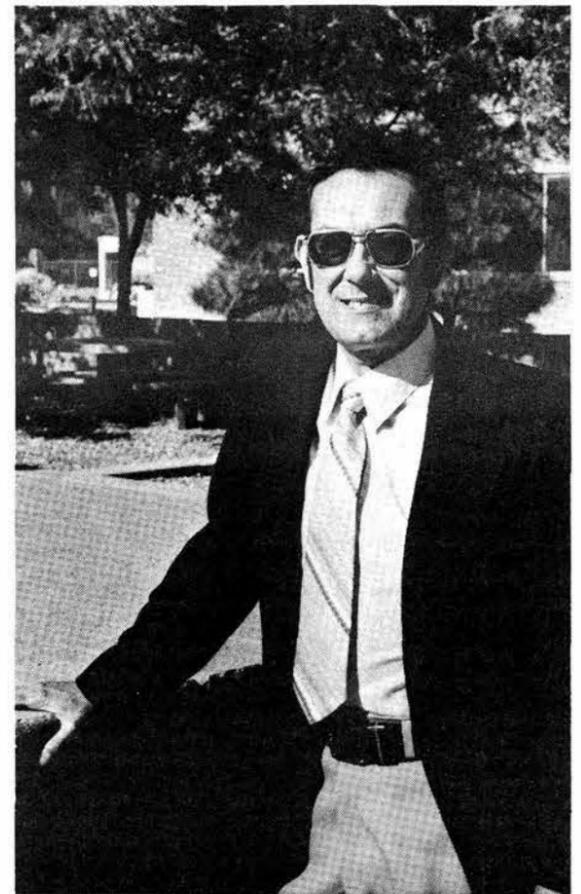
We in the Bell System recognize our responsibility to be good citizens in the communities we serve. Accordingly, we extend every reasonable effort to be sure that our facilities enhance and do not impair the physical environment in which we operate. And as much as we have a responsibility to our customers and share owners to pay no more than our fair share of the community's taxes, we recognize our responsibility as corporate citizens to pay no less. Beyond that, we have a responsibility to the future—to do what we can to restore where it has been lost—and maintain where it has not—a social environment conducive to the community's security and health and to its progress. It is to this end that each of our Associated Companies conducts its own conscientiously administered program of contributions—of time and talent as well as money—to community welfare organizations and educational institutions. And it is to this end that Bell System employees are encouraged to take an active role in community improvement undertakings.

We have responsibilities, too, to the larger community, the nation at large—first, to take scrupulous account of the impact of what we do on the general economy; second, to respond to the nation's needs whenever and wherever our skills are truly needed; and third, to give our wholehearted support to the goals our country has set for itself: a strong economy, a decent order in society, the conservation of resources and the maintenance of an environment that will sustain the continuing enhancement of our national life. And, finally, for our government, we stand ready to apply our skills and resources to whatever work the nation's interest may require of us.

I submit that we at Sandia can indeed be proud to be a part of the Bell System and that we can heartily endorse such a statement of policy. (A copy of the booklet is available for review in Dept. 3160.)

### Sympathy

To Frank Jaramillo (1485) on the death of his mother in Albuquerque, May 6.



LARRY VERZI to supervisor of Small Value Procurement Section 3741-1, effective May 1.

Joining the Labs in September 1955 as a document clerk, Larry later became a property clerk, an expeditor, a purchasing analyst, and an auditor in security and education training organization. He's also worked in finance, field support and logistics and, for the past three years, has been a commercial buyer in purchasing.

Larry attended UNM for a year and served in the U.S. Army from 1953-55. Off the job, he coaches a youth soccer team. Larry and his wife Deanna have four children and live in NE Albuquerque.

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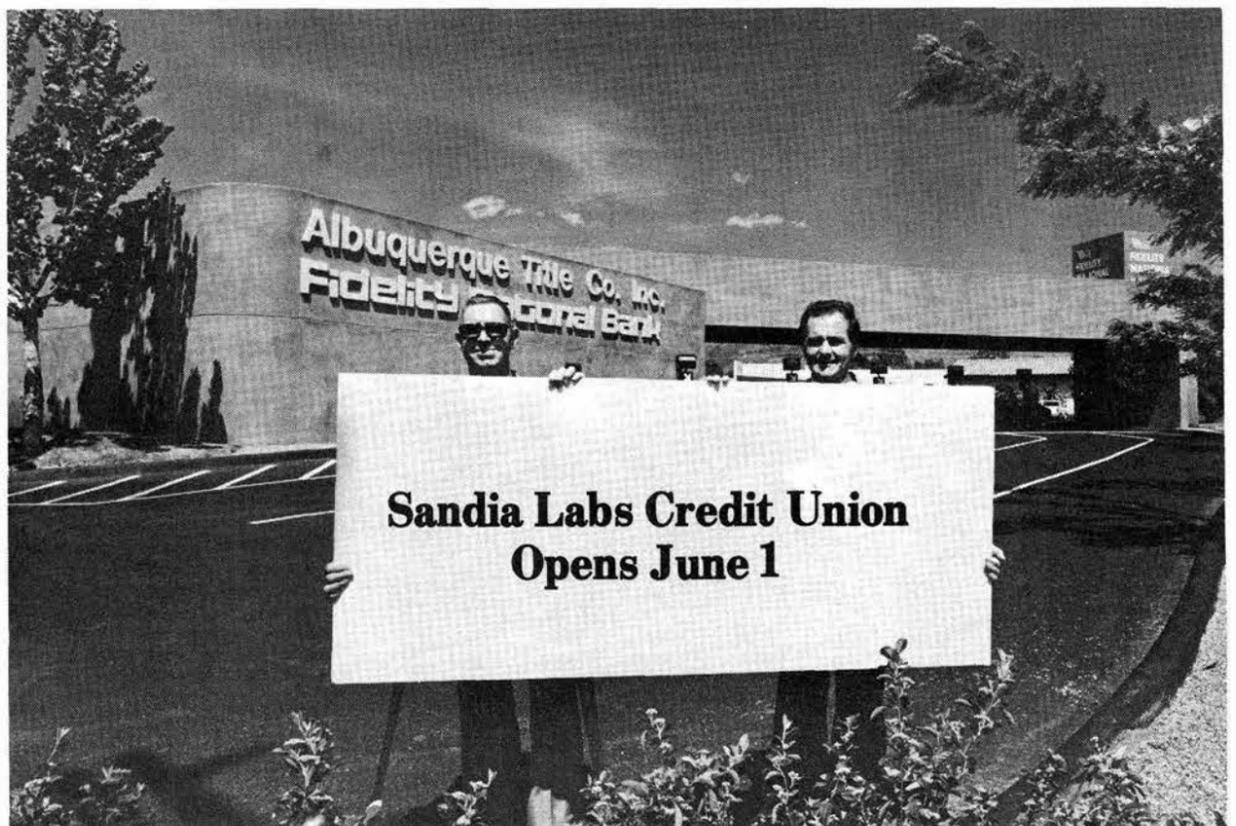
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aided by gerse martinez

barry schrader reports livermore.



NEW BRANCH OFFICE of the Sandia Laboratory Federal Credit Union opens June 1 in this newly purchased building at the corner of Wyoming and Candelaria. Red Turner, Credit Union manager, and Marv Daniel (2113), board president, invite you to an open house at the new facility on Saturday, June 6, from 9 a.m. to 1 p.m. The office will be open from 10 to 5:30 Mondays through Fridays and from 9 to 1 on Saturdays.

## Supervisory Appointments



**KEN TSCHRITTER** to supervisor of Test Assembly Group Section 8412-1, effective April 16.

The section assembles prototype weapon units for testing as part of the activities of the Engineering

Test Department.

Ken began at Sandia Livermore in 1964 as a draftsman. He then spent two years in the materials department; next and until the present he was a mechanical technician working with weapon components. He received his AA degree in mechanical engineering from San Joaquin Delta College.

Residents of Livermore, he and his wife have one daughter who is 13. Ken's hobbies include woodworking, gardening and camping. He also enjoys winemaking and grows enough Ruby Cabernet grapes in his yard to provide his family with red wine each year.

\* \* \*



**MIRIAM HALL** to supervisor of Purchasing Division 8264, effective May 1.

She joined Sandia Livermore in 1960, working as a clerk in safety. In 1974 she moved into purchasing and, later, was promoted to member of the administrative staff. Last year she became section supervisor of the newly created purchasing section.

Miriam has her BS and MBA degrees in accounting from California State University and a Doctor of Jurisprudence degree from Golden Gate University. She passed the California Bar exam in July 1980 and has been admitted to practice.

She resides on Chateau Way in Livermore where she enjoys gardening in her spare time. Her married son and two grandchildren live in Oregon.

\* \* \*



**DAVE BRAY** to supervisor of Model Labs Division 8424, effective May 1.

The division develops and installs electrical and microelectronic modules.

Dave has been at Sandia Livermore for 21 years, beginning in the flight test data center. From there he moved into electronic design of airborne telemetry components and systems. For the last few years he has done design work on custom large-scale integrated circuits for use in weapon components and, most recently, for use in microprocessor-based telemetry systems.

The new supervisor received his BSEE degree from Oregon State University and MSEE from UC Davis.

# LIVERMORE NEWS

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LIVERMORE LABORATORIES

MAY 15, 1981



VINEYARD president Jim Concannon shows the family winery's historic status.

## Vista California

### Historic Concannon Winery Hosts 'Art in Vineyard'

"Livermore Valley" is synonymous with fine wines, and the historic Concannon Vineyard is one of those wineries that has survived the suburban sprawl spawned by the rapid growth of the sixties and seventies.

Situated on 200 acres along Tesla Road, the vineyards surround the family home and winery which was declared a State Historical Landmark in 1958. The bronze plaque, "Landmark No. 641," adorns the front of the red brick winery building that houses the processing, cooperage and tasting room.

Even though third generation Jim Concannon still heads the winery, it was sold in early 1980 to Agustin Huneeus, owner of the Noble Vineyard in Kerman, Calif. However, Jim assures anyone who asks that the family tradition of quality wines continues, and he plans to stay around to be sure that it does. He moved into the presidency of the vineyard after the death of his brother Joe three years ago.

Founded in 1883 by James Concannon, an Irish immigrant, the vineyards at first produced only altar wines for the Catholic Church. Later, the vintner journeyed to Mexico where he introduced grape cuttings from Livermore and helped to improve that country's viticulture. He also achieved

Dave and his wife Shirley have two daughters and reside in Livermore. His recreational activities include running, youth soccer—both as coach and referee—and abalone diving.

a quality in both sacramental and commercial wines that helped to establish Livermore Valley as one of this country's select wine-growing districts.

He and his wife Ellen had 10 children, five of them sons who continued the tradition of winemaking. The third generation produced two males—Joe and Jim—who took over the family business; and now just Jim is left.

The most popular wine since its introduction at the winery in the sixties is Petite Sirah; its vines along with those of Cabernet Sauvignon—also popular—are ideally suited to the valley's rocky soil and hot weather.

Two newer wines have also caught on as popular dessert wines on American tables. Since 1974 Muscat Blanc, the after-dinner aristocrat of Muscat grapes, has been fast gaining attention. Then, in the early seventies, the Concannons introduced the top varietal in Russian—Rkatsiteli, a very dry white that has wide appeal.

A tradition begun seven years ago as a joint effort of the winery and the Livermore Art Association is the annual Art in the Vineyard—slated for Sunday, May 24, from 10 a.m. to 5 p.m. It attracts thousands of Bay Area people each Memorial Day weekend to see the outdoor art exhibits as well as artists working at their canvases, looms, pottery wheels and woodcarving. And while the visitors are wandering among the tree-shaded displays, they have the chance to taste the wines being served as a part of the cultural event.

## Peru & the Sun

either side of Lima but they just "peter out." On the other hand, the railroad system is good even though it must traverse tremendous mountain ranges—the highest standard gauge rail line in the world, 4758 metres (15,608 feet), is Ticlio Pass in the Andes.

Headquartered in Lima, Hugh—who speaks Spanish fluently—visited just about every major Peruvian city. "I traveled mostly by Aero Peru and a lot by bus—domestic transportation is very cheap," he recounts. "My first talk was in Piura to university and industrial groups. At the scheduled time of 6:30 in the afternoon there wasn't a soul in the auditorium. At 7 a couple of guys had drifted in—by 7:30 the place was filling up fast. That was my introduction to 'Latin time'—Peruvian version.

"I also gave talks at Pucallpa in the Amazon basin. This is all flat jungle country where the only travel is by dugout, small boat, or small planes. There's little development in the area. The government urges people to move there but transportation is a problem—there's only one road which is often impassable during the rainy season. The Amazon basin is an unknown and ignored part of Peru, even though it comprises over half the national territory. Solar energy would be invaluable in the development of such isolated regions."

But it wasn't all work and no play. Reports Hugh: "The most interesting trip was to Cuzco, the old Inca capital. From there we took the train to the Urabamba River. Then we got off and crossed the river over an old Inca bridge. We trekked up to 14,500 feet and ended up in Machu Picchu, the lost Inca city discovered in 1911 by an American, Hiram Bingham. We crossed high mountain passes, dropped down again into rain forests, and climbed up again. The entire route was dotted with Inca ruins—fortified towns, temples, agricultural terraces.

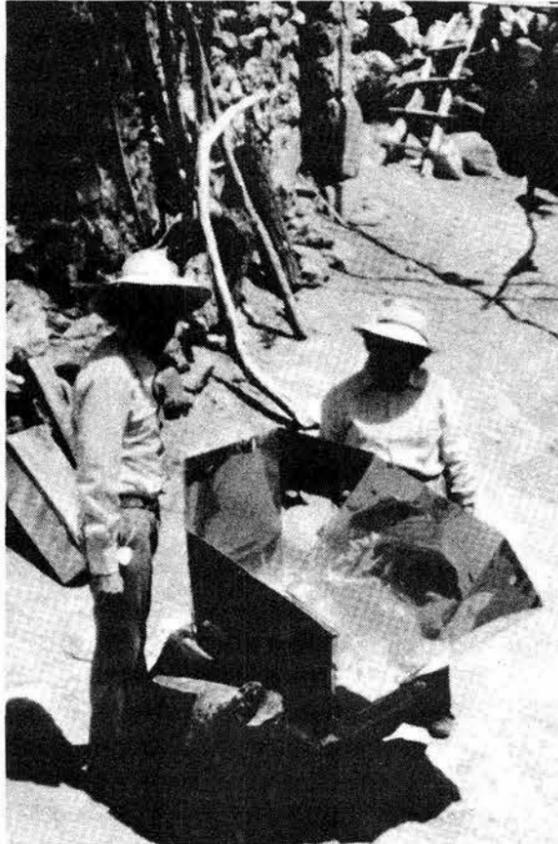
"For thousands of years the Indians have chewed coca leaves. Some say the habit inures them to the effects of altitude and thin air. I tried some but it didn't do a thing for me. Coca numbs your mouth like novocaine—it tastes awful, too, very bitter. The Indians mix it with lime.

"Peru's a different world altogether. I've been to many countries but never before saw the contrasts I saw there. The Andes are totally different in appearance from the Rockies. The mountain vegetation and animals are completely unlike those of the Amazon basin. South of Lima no rainfall has ever been recorded while the Amazon has some of the heaviest rainfall in the world.

"I thought the Peruvian people generally more reserved than, say, most Mexicans, but they're also sincere and pleasant. I met some very dedicated scientists, especially Alipio Nahui Ortiz, my ITINTEC guide and colleague. They have limited facilities



HUGH PIERSON (5834) tries out a dugout on the Ucayalli River in the Amazon basin.



A SOLAR OVEN designed by Prof. Durán (left) of the Universidad del Centro in Ayacucho.

—ITINTEC didn't even have a working piece of equipment to measure sun intensity. So much could be done in Peru if we just sent them equipment that we routinely discard."

## Medical Reporter

### Women's Health Is Program Subject

by Arlene Price, Sandia Medical

#### The Feminine Mistake

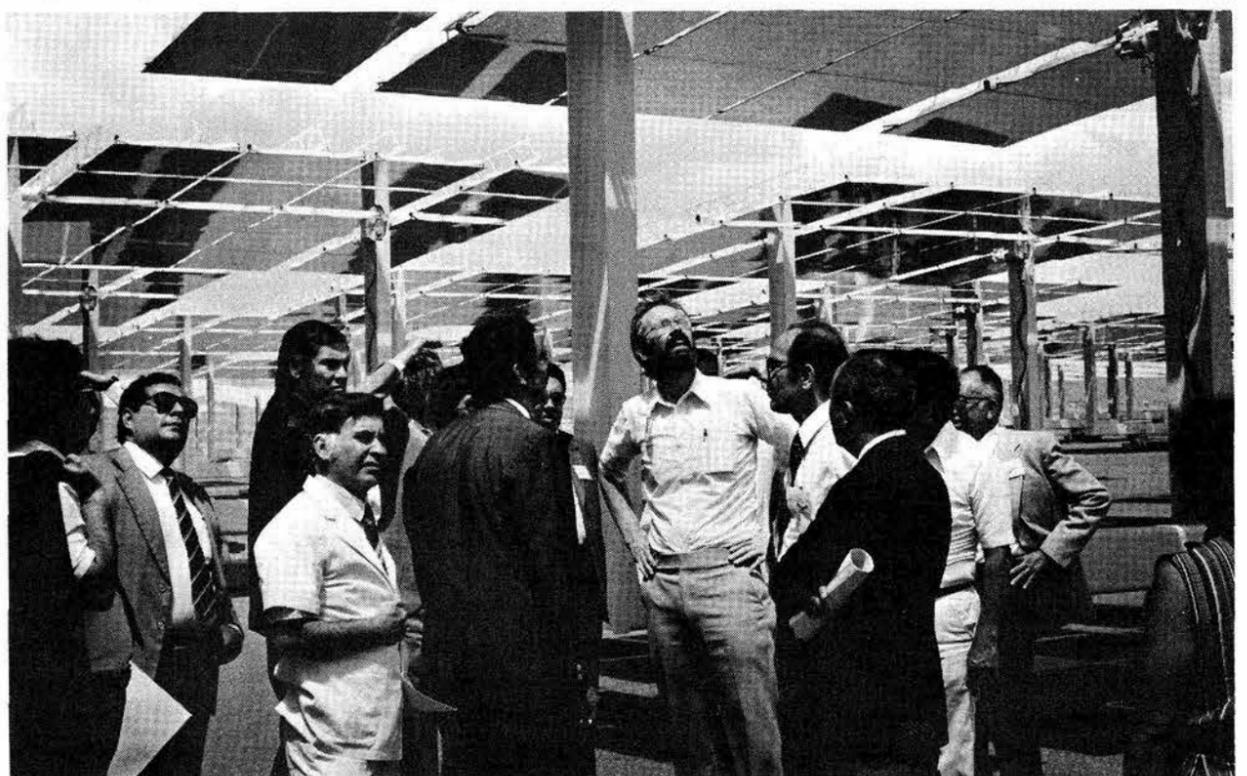
In a Surgeon General's report, *The Health Consequences of Smoking for Women*, the finding is presented that women smokers face the same risks as men smokers of lung cancer, heart disease, and other respiratory illnesses. A particularly disheartening finding is the harm smoking mothers can cause in their unborn babies and infants.

A movie, *The Feminine Mistake*, highlights these findings. It also describes a Quit Smoking Program aimed at secondary and junior high students to challenge increased smoking among adolescents, particularly female adolescents. The movie will be shown by Sandia Medical on Friday, May 22, from 12-12:30 p.m. in Bldg. 815 (outside the Tech Area).

#### Let's Talk About Aging

Stroke ranks third after heart disease and cancer among the most frequent causes of death in the United States. While commonly felt to be a disease of the elderly, stroke may occur at any age and, in fact, may affect school children as well as grandparents. Thus, it is important to identify those risk factors which predispose to stroke, for success in addressing this affliction lies in prevention rather than treatment.

Stroke is not generally a capricious and unheralded event but, rather, the conclusion to a story in which arteriosclerosis, hypertension, and smoking are major characters. Control of these risk factors will be the focus of this presentation—"Aging and Stroke"—by Larry Clevenger, M.D., of Sandia Medical. The lecture will be held on Tuesday, May 26, from 12-12:30 p.m. in Bldg. 815 (outside the Tech Area).



A GROUP of doctors and businessmen from Guadalajara was given a tour of Sandia's solar facilities by Jack Jackson (4724) on April 30. Here host Jack employs his fluent Spanish to explain the operation of the *torre de potencia*, or Power Tower, to the Mexican visitors. The 40 doctors and businessmen were invited by the Hispano Chamber of Commerce and local businesses to acquaint them with Albuquerque and its facilities.



SOLAR GREENHOUSE built by retiree Jim Stueber measures 10x12 ft., saves one-third on the cost of heating his home. Lush jungle of plants inside the greenhouse provides 50 percent humidity in the living area, vine-ripened tomatoes all winter.

### **Energy Do-it-yourself Project**

## **Solar Greenhouse Cuts Heating Costs**

[This is another in a series of articles about employees' home energy saving systems. If you have an operating system, give us a call on 4-1053.]

It all started with a LAB NEWS article back in September 1978, one of the earlier ones in this series. It described the solar greenhouse built by retiree Helen Smith and her teenage grandson.

Jim Stueber read the article and filed it away. When he retired in May 1979 after almost 28 years in telemetry development, Jim had decided to add a solar greenhouse onto the south side of his NE heights home. He completed the project in a couple of weeks of part-time effort and, for the past two winters, has enjoyed vine-ripened tomatoes and a lush jungle of flowering plants.

More important, he's paying one-third less for heating than his neighbors with similar houses.

"With rising fuel costs, gas bills from previous years are not valid for comparison," Jim says. "Then there's the difference in weather from year to year. The greenhouse does make a significant difference. The furnace comes on only during the really cold weather. And the plants contribute to a constant 50 percent humidity to the rest of the house. It's very comfortable around here."

Jim's greenhouse measures 10x12 feet, is basically 2x4 frame construction tucked neatly into a right-angle corner against the back of the house and a workshop extension. This took advantage of two existing brick walls.

Translucent fiberglass covers the outside of the frame, a thinner vinyl plastic covers the inside of the frame to give the greenhouse its heat-trapping characteristics. Jim built a 4-ft. insulated wall and a 4-ft. insulated roof as part of the greenhouse addition and used a modified screen door from the workshop. The existing patio concrete pad became the floor of the greenhouse.

Five-gallon plastic containers are filled with water and stacked in rows inside the greenhouse to serve as heat collectors and storage units—a total of 200 gallons.

"The temperature has never dropped below 50° in here," Jim says. "I use no auxiliary heat but my plants survive."

Jim took two panes out of the top of an existing window in the house wall and chiseled a vent out of the brick beneath the window and close to the floor. These openings provide a flow of air from the greenhouse into the living area. Simple plastic flaps close the air flow when the air in the house is warmer than the air in the greenhouse.

"Final design of the greenhouse and the air flow features came from a couple of free booklets available from the New Mexico Energy Institute and Public Service Company," Jim says. "I followed their directions, including advice on materials, and spent only \$300 on the project. Now I'm thinking about building a narrow solar greenhouse-collector against the remaining area on the back of the house. This should be sufficient to take care of all my heating needs."

In the summer, Jim plants flowering vines—such as morning glories—against the solar greenhouse wall to shade it and cut down on the heat. He has also covered it with a white sheet on occasion.

"It's vented, Jim says, "but the summer heat can be brutal on plants if I don't provide some shade."

Since retiring, Jim has been developing some property he owns near Placitas. He's also helping his three sons build passive solar homes in the area. Each is constructing his own design.

"We form a pretty good team helping each other," Jim says. "We've shared a lot of satisfaction building the homes and some differences of opinion over whose ideas are best. Passive solar is the wave of the future—it doesn't matter how the details differ."

## **INTEC Offers New Computer Science Series**

In the Fall '81 INTEC course catalog, distributed this week, is a listing for three new computer science classes, part of a series of offerings planned for coming semesters.

The courses are Introduction to Computer Science, Intermediate Programming and Numerical Computing, and Mathematical Software.

Others in the series include Introduction to Computer Organization and Assembly Language; Data Structure, File Processing and Algorithm Analysis; Operating Systems and Computer Architecture; Software Design and Development and Computer Graphics.

"These new course offerings are aimed at equipping the staff with basic and advanced information of software and hardware design and applications," says Mike Rex (3522), INTEC coordinator. "The classes are intended to add computing skills to the student's existing toolkit for solving problems."

Most of the new courses will be taught by UNM Computer Science Department faculty members in Sandia's TV classrooms in Bldg. 892. There are prerequisites, as listed in the catalog descriptions, but the courses need not be taken in a certain sequence.

Enrollment for the fall semester is May 25 through June 5. Complete the enrollment card in the catalog and mail it to Division 3522. For additional information, call Mike on 4-3247.

## **Events Calendar**

May 15—NM Symphony Orchestra, a program of Russian music, 8:15 p.m., Popejoy.

May 22—Navajo Rug Auction, 7 p.m., Crownpoint, NM, elementary school.

May 22-24—Red River: Third Annual River City Rally, AMA motorcycle club spring rally; tours, events.

May 22-June 7—"A Tribute to Bernard Slade," Albuquerque Little Theater, Tues.-Fri., 8 p.m.; Sat., 6 & 9 p.m.; Sun., 2 & 8 p.m.; 242-4750.

May 29-30—Albuquerque Opera Theater, "An Evening of Opera Scenes," 8 p.m., Stage One, U of A.

### **Nuclear Plant Workshop Set**

The Regent Hotel is the locale of a conference entitled Technology Workshop for Improved Nuclear Power Plant Instrumentation, to be held May 28 and 29. Purpose is to acquaint people in the nuclear power industry with high temperature, radiation-hardened electronics developed at Sandia in support of weapon, energy and aerospace programs and to suggest ways this technology could be applied to power plant instrumentation needs. Chairman is Glen Otey (4440), and Bill Snyder (4400) will deliver the keynote address. The Workshop is sponsored by the Dept. of Energy.

# BSSP Savers Have a \$2.6 Billion Nest Egg

[Ed. Note: Prepared at AT&T Headquarters, this article on the Bell System Savings Plan presents an overview of the Plan and its administration.]

Wall Street is just a few minutes walk down the crowded sidewalks of Lower Manhattan from AT&T Headquarters at 195 Broadway.

You can't quite see it from the 11th floor offices of the administrators responsible for the Bell System Savings Plan, but they still keep a wary eye on Wall Street. And well they should.

Approximately \$2.6 billion that belongs to eligible Bell System employees, including 42,500 Western Electric people, is invested through brokers and investment managers along Wall Street. Even by the standards of "The Street," the BSSP is a big chunk of investment money.

Basically every dollar deducted from an employee's paycheck for investment through the plan is augmented by a company contribution, which is equal to 50% of an employee's basic allotment. (Pending approval at the April 1981 share owners meeting, the company contribution will increase to 66⅔%.) Since BSSP started in 1969, there have been three investment options: 1) AT&T stock, 2) a selection of other stocks known as the Diversified Equity Portfolio, 3) Government Obligations, usually Treasury notes and bonds. In December of 1979, a fourth investment option was offered: the Guaranteed Income Fund. Of course, you can divide your investment dollars among the options in various combinations.

The new Guaranteed Income Fund represents the first time BSSP has been able to guarantee employees a specific return. BSSP money slated for this fund is invested with three major insurance companies which guaranteed interest at an effective annual rate of 10.3 percent for 1980.

There is some risk in each of the other options, even government obligations are affected by changing prices in the bond market. Keeping the risk minimal and the returns maximum is the job of the investment managers retained by AT&T and monitored by the BSSP administrators.

Day-to-day investment decisions are made by three outside firms. These are the investment firms of Brown Brothers, Harriman & Company, Equitable Life Assurance and the giant Banker's Trust bank. In addition to handling investments, Banker's Trust does the mammoth record-keeping job that involves keeping track of the investments made by more than 248,000 participants in the plan.

In selecting a money manager for the BSSP billions, AT&T is something like the owner of a major league baseball team. It's critically important that the team manager's philosophy and operating style be consistent with the owner's. The investment goals and strategy of the money manager have to be consistent with the client's. You can review a manager's record, but once

the game starts he has to be free to call the plays.

"Before you hire a money manager, you have to know a lot about him," explained Tom Judge, Division Manager in AT&T's Pension Fund Administration organization, which is responsible for the BSSP. "What makes him tick? How does he make investment decisions? And you have to make sure he does what he told you he'd do when you hired him."

While the money managers watch the market, savings plan administrators manage the managers. They are in daily contact with the managers, discussing their strategies and monitoring the return their investments are yielding for BSSP investors.

The Standard & Poor's index of the 500 leading stocks (known on The Street as the "S & P 500") is commonly used as a point of comparison for evaluating the performance of investment portfolios.

In any given year, only 20 percent of the money managers in the country earn better returns for their clients than the average return on the S & P 500. It's almost never the same managers from one year to the next, but our managers have consistently matched or out-performed the S & P 500 in the last five years.

The ten years since the BSSP began have been the most erratic decade for stock market performance since the Great Depression. BSSP returns over the last ten years show good growth in all three risk-oriented investment options. In fact, as the following table shows, the return on Government Obligations and AT&T stock have exceeded the S & P 500.

#### Average Annual Return on Investment 1969-79

S & P 500	6%
Government Obligations	7%
AT&T Stock	6.6%
Equity Portfolio	4.1%

The last three years have been much brighter for the market. This is reflected in the rate of return on the equity portfolio shown on the following chart:

#### Average Annual Return on Investment 1977-79

S & P	5.4%
Government Obligations	6.3%
AT&T Stock	1.2%
Equity Portfolio	6.7%

The Bell System regards the BSSP as a long-range investment and savings plan, but employees' savings aren't locked up until they retire. There are periodic partial distributions and other withdrawal options.

"Basically, BSSP is a method for employees to save and supplement their retirement income," Judge explained. "But the plan provides flexibility so people can use it to buy houses or send kids to college."

Whatever BSSP members use their money for, the fund's administrators are mindful of the responsibility that comes



ON "THE STREET"—Manhattan's Trinity Church tower looms behind Tom Judge of AT&T as he pauses along Wall Street. Judge oversees the work of the money managers who invest \$2.6 billion in savings from BSSP participants, including 42,500 WE people.

with handling over two billion dollars that represents the personal savings of a quarter million Bell System people.

#### SAVINGS PLANS IN BRIEF

Most salaried employees with at least one year's service are eligible for participation in the Bell System Savings Plan. As of January 1, 1979, non-salaried employees with one year's service became eligible for the new Bell System Savings and Security Plan (SSP).

Very briefly, the plans work like this. BSSP participants may have 2%, 4%, or 6% of their regular salary deducted each month and placed in the savings plan. Non-salaried employees may have from \$5 to \$20 a week deducted from the basic weekly pay, depending on individual pay rates, and placed in the savings and security plan. Effective January 1, 1981, employees whose basic weekly rate is \$400 and over may have \$25 a week deducted.

Under both plans, the company will add 50 cents for each \$1 you save, up to the maximums stated above. Pending approval at the April 1981 Share Owners Meeting, the company contribution to BSSP Savings will increase to 66⅔ cents per dollar. You may make an additional

## To Kenya, With Appreciation

Question: What do you do if you're in a Kenyan game preserve on Christmas Eve? Well, if you're a New Mexican you'd probably set out luminarias around your tent, which is exactly what Rupert McHarney (3155) did. "I'd brought 36 candles and brown bags with me from Albuquerque," he says. "The park guard thought the luminarias were for keeping the animals away and I'm not sure we convinced him otherwise."

Rupert, or "Mac" as he's better known, went to Kenya in late December to visit his daughter and her husband who are Peace Corps teachers. They and another Peace Corps couple rented a no-frills Datsun and spent four weeks touring the game preserves and fixing flats.

"The game parks are large and not fenced in," says Mac. "We had to stay in designated camping areas—not because they're especially safe but so park officials knew our whereabouts. Some of the campsites have water and shower facilities.

"At night the animals were so close by we could hear their tummy rumblings. The night noises, from the animals, are terrific. They made it hard to sleep sometimes. We couldn't leave food outside or in the tent—baboons will go after food in tents and elephants have been known to rip open car trunks to get at food. The animals just aren't afraid of cars—we saw one van that foolishly tried to honk its way through an elephant herd crossing the road. A young

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supplementary allotment, which is not augmented by company contributions. The supplementary allotments can be up to 4% of salary for salaried employees, for non-salaried employees the percentage is based on individual pay rates.

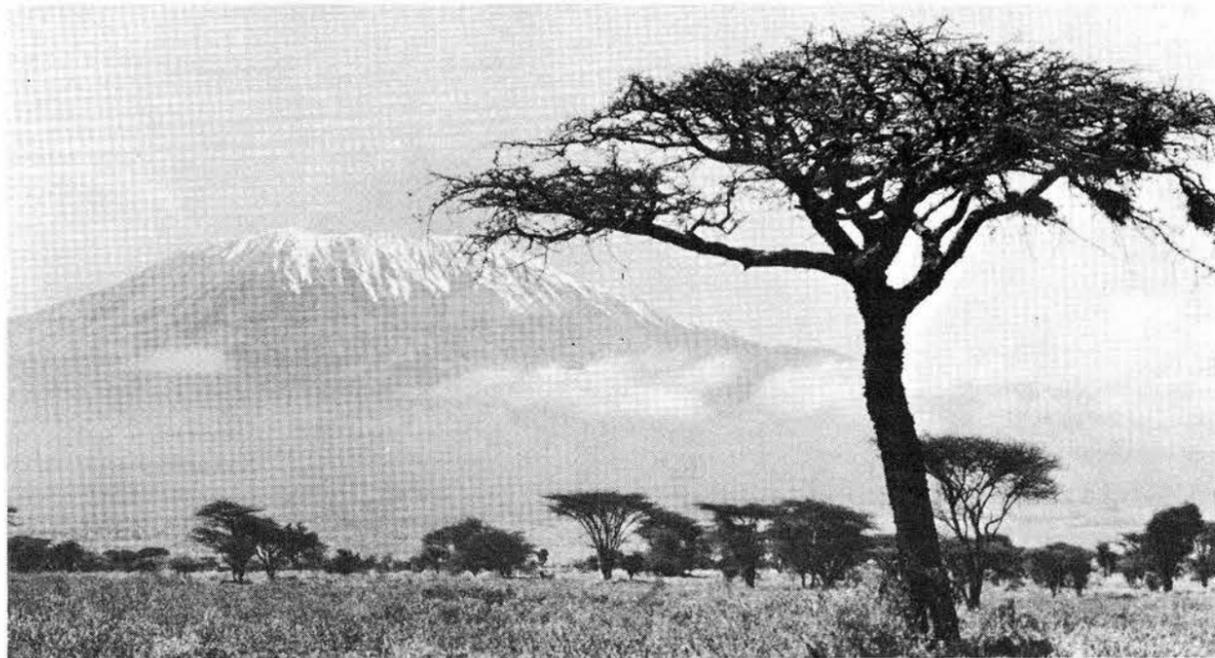
Professional money managers retained by the Bell System then place employees' savings in a variety of investments.

Your local Benefit office has more information on both the Bell System Savings Plan and Bell System Savings and Security Plan, and can tell you how to enroll.

Being the financial capital of the world, New York is full of investment tips, but the BSSP money managers don't buy into anything that can't be closely analyzed.

Of course, the savings plan welcomes letters from BSSP investors. These letters were coming in regularly while the U.S. economy was expanding after the 1974-75 crunch. Most of the correspondents urged more exotic investments, more risk-taking in areas like precious metals.

In good years or bad, though, there is always an element of risk in financial investments. The BSSP administrators realize there is no reward without risk. Their goal is to get the best possible advice and take the most intelligent risks. But they are quick to admit that neither they nor the proven experts they hire have all the answers.



THE SNOWS of Mt. Kilimanjaro (19,500') sparkle in the sun across the border from Kenya in Tanganyika.

bull faced the van down and forced it to back up."

The McHarney party had five people in two tents. They carried basic foods and bought fresh vegetables, milk, and some meat from village markets. There was no problem obtaining potable water or petrol—that's gasoline—at \$3 a gallon. Traveling in the game parks is limited to between 6 a.m. and 6 p.m. to all except some commercial vehicles. The roads are well patrolled and maintained. Only park guards and the military carry firearms.

"There are two or three luxury game lodges in every game park. The guests—mostly Europeans and Japanese—are flown in by jet or picked up in Nairobi by van buses. The minimum charge is \$150 daily per person. We'd stop by at one to freshen up or have a drink at the bar. Sometimes we'd pay one of the staff to let us shower or take a dip in the pool.

"The Kikuyu people are the majority in Kenya, although there are 20 other tribes including the Maasai. English is widely spoken or understood so there was always someone to help if we ran into trouble. Most people don't like to be photographed—a few out of superstition but most because they consider it an invasion of their privacy. I tried to take a picture of one Maasai leaning on his spear while he watched over his cattle. He saw me, threw down his spear, and picked up a rock to throw at us. Luckily, the rock was too heavy and the car too fast.

"The country is a riot of color," Mac continues. "The clothes of the people are fluorescent colors and there's a backdrop of saturated green and rust-red soil—even the garbage was beautiful. Eighty percent of Kenyans live on 15 percent of the land, and many know as little as we about the rural areas and animals of their country. At Mt. Kenya we ran into groups of high school and college students from Nairobi on 'outward bound' treks.

"My daughter and her husband speak fluent Swahili, which is a *lingua franca* throughout most of east Africa. With this advantage, we were able to travel into back-country villages to look for authentic woven baskets and sculptures. The main roads are lined with souvenir stands, but most of what they sell is overpriced and factory-made—not at all typical of Kenyan handicrafts.



MAC McHARNEY'S party sets up housekeeping at a campsite in a Kenyan game preserve.

"In 3000 miles of driving, we visited most of Kenya including the Great Rift Valley which runs north-south the full length of the country. It's where the Leakey's made their early finds of ancient man! In southeast Kenya, we camped on the foothills of Mt. Kilimanjaro. The mountain itself is in Tanganyika. We visited Lake Victoria, now devoid of commercial shipping because of political problems with Uganda. We saw snow-covered peaks, grasslands, deserts, lush tropical rain forests, enormous tea plantations and canefields, and bustling modern cities. Kenya is most of all a land of startling contrasts.

LOGISTICS: The round-trip airfare from Chicago to Nairobi via Frankfurt was \$2000 although, says Mac, "You can do it for a lot less if you don't go during the holiday season and look for group flights and such." The car rental was \$1100 for the four weeks with unlimited mileage, but gas not included. Admission to the game parks is 10 shillings (\$1.33) and 10 shillings more for each night in camp. "And," advises Mac, "take lots of tire patches and a good air pump—and soap."

ONE of these young women has the right idea . . . we'll let you decide. The occasion was the first annual Fitness Day, sponsored by the Labs' Friends of Health. Several hundred showed up on the Parade Ground to walk/jog/run, do a bit of stretching, listen to some music and generally have a good time. The message, that some fitness is better than no fitness, was well received.



## Fun & Games

*Corporate Cup*—Is this weekend, May 16 and 17, at Milne Stadium (south of Coal SE on Spruce St.). Sandia took this handily last year, but the opposition this year is making fierce noises and the issue remains in doubt. Come and watch.

\* \* \*

*Swimming*—The military say that the Olympic pool will be open this summer, 50 cents for daily use or \$5 for a season patch. You can get patches at the Que Pasa rec center.

\* \* \*

*Running*—"The Great American Running Trails" is the title of a series of nifty pamphlets that show popular running trails in various locations: Washington, D.C., Central Park in New York, Lake Michigan: Chicago, Encanto Park: Phoenix, Belle Isle: Detroit, Balboa Park: San Diego, Washington Park: Denver, along the ocean in LA, lake runs in Minneapolis, downtown Norfolk, Philadelphia, Portland and St. Louis. The pamphlets can be seen—don't take 'em!—in the Friends of Health fitness library shelf in Safety's office in Bldg. 838. Other health and fitness related publications will be added to the FOH library shelf in the coming months.

Coming up: Funfest Marathon and Half Marathon in Amarillo, May 23; the 5th annual LeRoy Bearman Run, 5 miles, May 31, Kit Carson Park; the High Altitude Mini Marathons at Los Alamos, 5 and 20k, July 11; and the Governor's Cup, 7k, May 23 at UNM. LAB NEWS has forms for the Amarillo and Los Alamos events.

\* \* \*

*Biking*—The inaugural Gardenswartz Sportz Criterium Bike Race is being run on Sunday, May 17, starting at 7:30 a.m. at Spruce Park.

An "Atlas of Albuquerque Bikeways" has been prepared and published by Rick Dulas, a cartographer and biker, and is now available in the LAB NEWS office for \$1.50 a copy. The atlas runs to some 20 pages, and its format—8½x11—makes it easier to handle than the conventional multi-fold-out map. Besides showing bike-

ways, the atlas is also an excellent map of the city and its environs.

\* \* \*

*Table tennis*—A team tournament is set for Saturday, May 30, at the Monroe Jr. High School gym starting at 12 noon. Play is limited to 40 people, and teams will be chosen by the draft system. Entry fee is \$4 and is payable in advance to tournament director David Sealey (2525) or Tom Lenz at the C-Club. Sandia and DOE employees, retirees and dependents are eligible as well as C-Club members.



STAFF PEOPLE from the offices of New Mexico's four Washington legislators—Senators Domenici and Schmitt and Representatives Lujan and Skeen—paid a visit to Sandia Labs earlier this month for briefings on weapons and energy programs. Here Steve Goldstein (4254) tells the group about the workings of the particle beam fusion accelerator.

## Take Note

"Volcanoes in and Around the Pacific" is the title of the next colloquium, to be held May 20, 10 a.m., Bldg. 815. Prof. Alex McBirney from the Univ. of Oregon is the speaker.

\* \* \*

If you dig chamber music, you'll be happy to learn that the Guarneri String Quartet returns to the city next month and will present concerts on June 1, 3, 5, 7, 9 and 11. It's called the June Music Festival, and the series costs \$28 through May 15 (today), \$33 thereafter. Contact: 842-8565.

\* \* \*

But if chamber music isn't your bag, then there's the Albuquerque Police Dept. annual open house, Sunday, May 17, from 1 to 4 p.m. Says the flyer: "Talk to Police Chief Hansen . . . see the horse patrol . . . see the Batmobile . . . watch rappelling." The APD show is staged at 401 Marquette NW.

\* \* \*

The Base Que Pasa rec center is offering a one-day bus tour to Bandelier National Monument on Saturday, June 20, which, besides the monument, includes a stop at Valle Grande. Refreshments will be served en route, cost is \$15, deadline is June 12, and you can get more info on 844-5420.

\* \* \*

The Coast Guard Auxiliary is conducting a water safety day at the Base's Main Exchange parking lot, Gibson and Pennsylvania, on Sunday, May 16, from 9 a.m. to 4 p.m. Water fun and survival are the themes of the program.

\* \* \*

LAB NEWS has eight or nine entries in its Vacation Rental loose leaf binder, including condos in Hawaii, cabins in the Jemez, and sundry retreats elsewhere. But we need more entries. Call us for a form on 4-7841 if you've got a condo, cabin, boat, inner tube or what-have-you you'd like to rent out.

\* \* \*

Lloyd Nelson (5836) reports that his favorite educational institution, the Peanut Butter & Jelly Therapeutic School, will hold its annual PB & J Jamboree tomorrow, May 16, from 12 noon to 6 p.m. at the Spanish Village, State Fair Grounds. The *piece de resistance* will be the world's largest PB & J roll, but there will also be refreshments, story telling, an auction, bingo, games, prizes and more.

\* \* \*

Special inducements are offered this month by the KAFB Aero Club to pilots or potential pilots who join the organization. Initiation fee is reduced to \$10, free ground school for all programs is offered, and a free check ride for anyone signing up for the multiengine program is available as part of the membership drive. Also, an open house is scheduled tomorrow at the

Club headquarters, Bldg. 333, KAFB West. For more info, call 4-0884.

\* \* \*

Retiree Bill Carstens, now leading the Adobe Theater in Corrales, called to report the Adobe's slate for the summer season. All shows run for three weekends, Thursday through Sunday, with curtain time at 8:30 p.m. The schedule: May 28, *Lovers and Other Strangers*; June 25, *A Hatful of Rain*; July 23, *Arsenic and Old Lace*; and Aug. 20, *The Night of January 16*. You can reserve seats after 2 p.m. Wednesday through Sunday by calling 898-3323. A season pass runs \$12, while tickets for individual performances are \$3.50. If you need additional information, call Bill on 898-0065.

\* \* \*

The former director of the Lawrence Livermore National Laboratory, Mike May, addressed the Large Staff at Sandia earlier this month. Mr. May's talk was entitled "Thoughts on Nuclear Strategic Forces." He is now an Associate Director-at-Large with LLNL.

\* \* \*

Becky McCaflin (3251) has received the Wall Street Journal Student Achievement Award, presented to a graduating college senior who demonstrates the highest academic achievement in the field of business. Becky graduates this month from the U of A's Adult Education program with a bachelor's degree in business administration and a perfect 4.0 grade point average. She will be presented with a medal and a year's subscription to *The Wall Street Journal*. Becky is an MAS trainee in General Accounting Division 3251. She plans to begin work on a masters in business administration this fall.

\* \* \*

The Highland High School class of '56 is holding its 25th-year reunion July 3 at the Four Seasons. A banquet and dance are planned. For information or reservations, call Chris Underwood, 296-0766.

\* \* \*

Helen Smith, retired Sandian, is currently teaching a class in jewelry casting at the Palo Duro Senior Citizens Center. She says their equipment is inadequate for melting silver quickly and would appreciate a response to her ad in the classified section: Wanted—oxygen/acetylene welding torch and tanks, with carrier. If you can help, call Helen at 255-7389.

\* \* \*

If you've a yen to pick up a bit of French, the Alliance Francaise is offering conversational French classes in two sessions of five-week classes, from June 1 to July 2 and from July 13 to Aug. 13. No prerequisites, non-credit, and the small classes are held "in the relaxed atmosphere of the teacher's home." Cost is \$20 per session, and registration deadline is May 26. Contact: Richard Karnes, 883-1075, or Margery Storrs, 821-5788.



AS "YOUNG CAREER WOMAN FOR 1981," Gloria Zamora (3144) was presented with this traveling trophy by the NM Federation of Business and Professional Women.

## Sandian Named 1981 Young Career Woman

Gloria Zamora (3144) has been named "Young Career Woman" for 1981 by the NM Federation of Business and Professional Women. She joined the Labs one year ago as a reference librarian and is currently working in the fields of chemistry and materials science.

Gloria, a member of the Downtown BPW Club, was nominated for the honor by her club. Her selection as young careerist resulted from several activities, including the preparation of an essay, "Young Women—Our World Builders," and presentation of a speech, "Changing Family Roles—A Communications Challenge." Gloria credits part of her success to the Sandia out-of-hours speech class she is currently taking from John Gardner (3142).

A native of Albuquerque, Gloria received her undergraduate degree in history and a master's degree (in 1976) in library science from the University of Michigan. Before coming to Sandia she worked for the Air Force Weapons Lab in their technical library.

She will be the 1981/82 president of the Rio Grande Chapter of the Special Libraries Association and does volunteer work at the Suicide Crisis Center. Gloria has a number of hobbies, including photography and furniture refinishing, not to mention "Zion," her Great Dane.

## Death

Pablo Baca of Remote Areas Maintenance and Test Support Division 3618 died May 2. He was 50.

He had worked at the Labs 23 years.

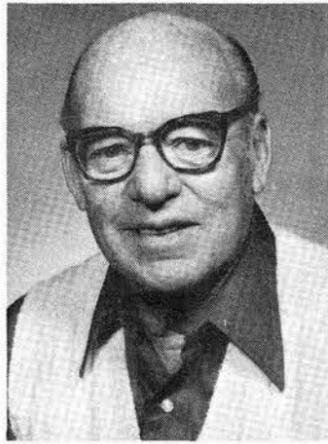
Surviving are his widow, a daughter and three sons, including Paul Baca (3432).



# MILEPOSTS

## LAB NEWS

MAY 1981



Al Young - 1137 35



Rubel Romero - 3155 15



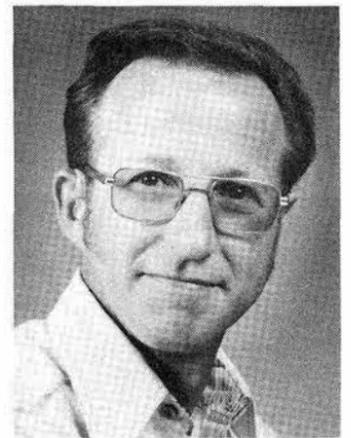
Dick Bassett - 2354 30



Sam Key - 5531 15



Ralph Olson - 1247 30



Bill Rego - 8275 15



Gerry Hurley - 1212 30



Eugene Aronson - 2646 25



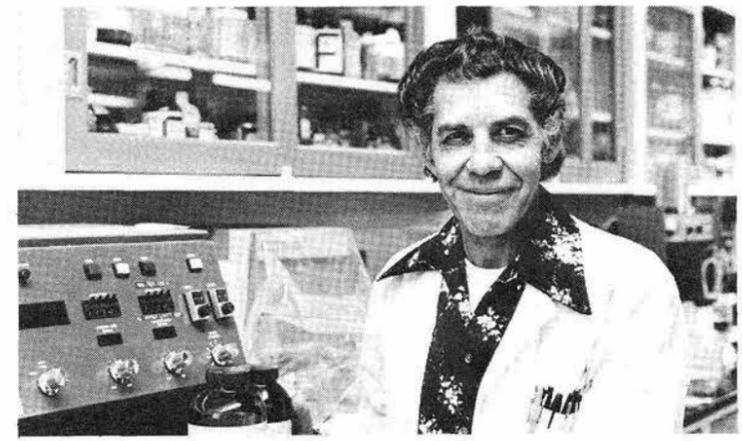
William Walton - 2425 25



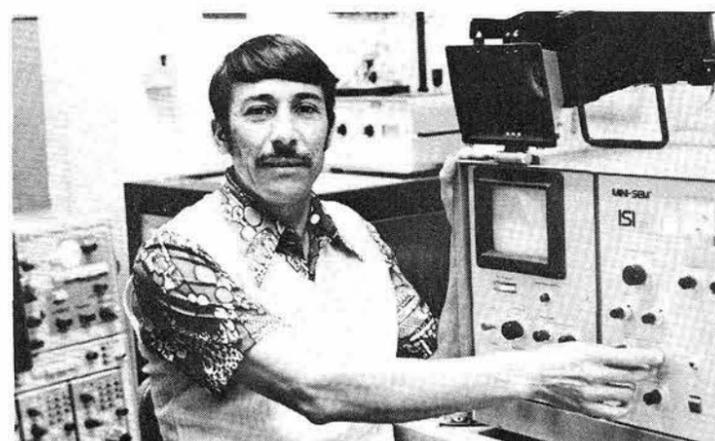
Paul Goen - 1171 30 Leslie West - 1762 35



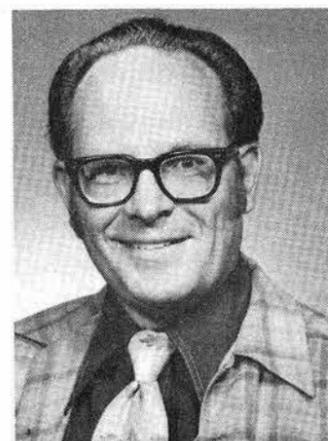
John Toler - 3432 30



Vincent Cordova - 1471 15



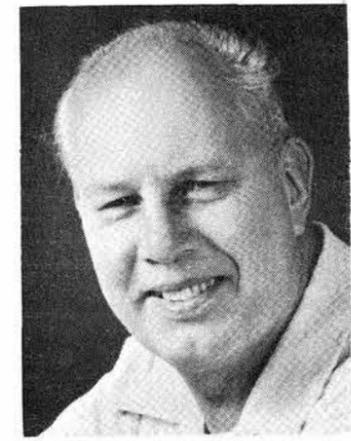
Carmel Chavez - 2154 15



Gary Kinemond - 1758 20



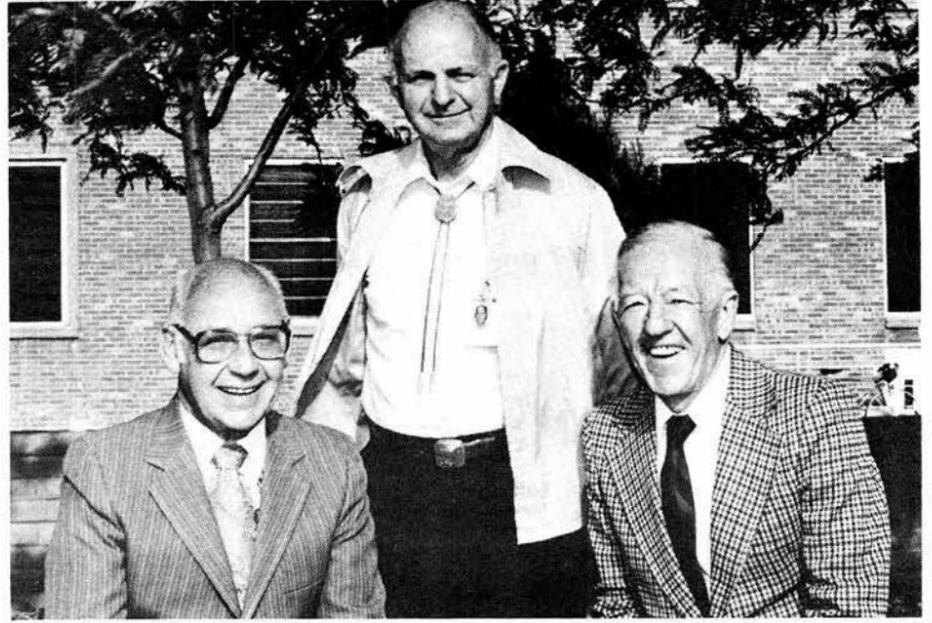
Jonnie Finley - 2626 15



Vic Krause - 8423 15



RETIRING—Don Hurt (1417), Albert McMurray (1481), Jose Martinez (3426) and Lew Jones (5821).



RETIRING—Charles Roehrig (2613), Fred Leckman (3154) and John Wimpling (3740).

**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**

**BOOK SALE, LAB NEWS** (next to Bldg. 814), also caps, \$5; T-shirts, \$6; windbreakers, \$15; Tech Area color prints, \$5 & \$15. S. Hwy. 14 Village Project.

**BALDWIN** Acrosonic spinet piano, \$800 or best offer; lg. framed mirror, \$20; Pong and soccer video games, \$40. Barker, 294-0254.

**WHEELS**, 14x6, 6-hole, \$10 ea.; hub caps, \$5 ea. Fisher, 298-0526.

**FAIRING** for Yamaha XS-750, complete w/headlight, turn signals, wiring hook-up & locking compartments, \$150. Hesch, 881-9874.

**SEARS** elec. dryer; Motorola stereo cabinet; 2 10' curtain rods; maple chest of drawers; misc. items. Trollinger, 268-3414.

**SIBERIAN HUSKY PUP**, black & white female w/two blue eyes, avail. in approx. 3 weeks, \$175. Young, 884-9512.

**ETHAN ALLEN** queen size antique pine dual-height poster bed w/canopy, \$495; Signature 20 cu. ft. chest freezer, \$175. Hagen, 298-4025.

**SINGLE GE** walkie-talkie hand unit, 49.8 mhz, \$4; two CJ-5 Jeep soft doors, \$20. Wright, 296-7670.

**OUTBOARD MOTOR**, runs but needs tuning, \$40. Meikle, 299-4640.

**SKIROULE** model 440 snowmobile plus a junker Larsen snowmobile, \$295 or swap for refrig. or hi-fi equip. Foster, 281-3975.

**PIANO**, Steinway grand, model M, 57", serial No. 219961, made in 1923, prof. refinished and re-felted, \$6500. Love, 884-8475.

**MOUNT** for outboard motor for canoe, used once, \$18. Holmes, 292-0898.

**HORSE**, reasonable to good home, or will board at our home near Sandia Heights, for child or beginner. Baker, 294-3334.

**AM/FM** table radio, dual speakers, digital clock w/alarm, cassette player, cost \$69 last fall, sell for \$40. Shunny, 265-1620.

**TOOL BOX** for std. size pickup, \$65. Blaine, 299-1036.

**WILSON** 4-band vertical trap antenna w/ground plane for short wave, \$45. Jensen, 821-6178.

**THOMASVILLE** server, top slides to formica, \$100; Whirlpool dbl. oven, copper-tone, \$50; formica slate 4x8

sheet, \$15; 18" range hood, \$10; kids' x-country skis, \$15. Cole, 293-6122.

**TWO** 14x10 white spoke wheels & L60-14 tires, \$65; camper shell for LWB pickup, \$250. Nelson, 881-0148.

**FREE TO GOOD HOME**: old English sheepdog, purebred, reg. female, 5-yrs. spayed, all shots, desire country home. Roberts, 255-9527.

**USED** chain link gate, 7'-7" x 6', \$30. Arnold, 898-1467.

**NEW DOUBLE CONTOUR CHAIR** w/vibrator, half price. Bray, 298-9443.

**RETRIEVER PUPPIES**, black or golden, 4 wks. old, no papers, \$25. Bass, 821-6365.

**BREXEL** leather top Louis XV (French provincial) game table, \$155. Horton, 883-7504.

**DRAPES**, different sizes & colors, \$2 & up; ladies' wigs, \$3; hair piece, \$2; wig stand, \$1. Brockway, 344-1901.

**DRAPES**, blue-green-gold print, lined, 90x300, \$100; area rug w/pad, 10x12 off white, \$75. Beck, 256-3350.

**SANTE FE OPERA**: 2 tickets, \$13 ea., July 24, La Boheme. Plein, 884-3749.

**DOUBLE WINDOW**, 4060 (2 units, 2060 ea., in one frame), aluminum framed, French style, vertical sliders, \$45. van Berkel, 897-2541.

**TWIN SIZE BED**, box springs, mattress & frame, \$35. Navratil, 293-5527.

**DOBERMAN/SHEPHERD** cross puppies, female, tails docked and dew claws cut, \$15. Garcia, 867-3483.

**SHOP MANUAL** set (5) for 74 Ford cars, \$8. Roberts, 255-9527.

**MAHOGANY** round lamp table, leather top, \$200; small drop-leaf formica table w/2 matching chairs, \$60. Wade, 296-6533.

**PHOTO** processing chemicals C-41, Bessler 2-step A and some Ektacolor RC 74 paper. Kraft, 821-6417.

**LARGE** capacity dryer, timer not working, \$10. Larcom, 266-6577.

**BURGLAR ALARM**, Doppler radar type, \$100; computer programs, TRS-80, Apple, Pet Vitafacts series, \$10 ea.; IBM std. typewriter, \$125. Zaffery, 294-6768.

**MAYTAG** port. dishwasher, wood chopping block top, used 2 yrs., \$250 or best offer; wheelbarrow, 3 cu. ft. capacity, \$10. Smith, 296-1908.

**SEARS** one-wheel trailer, for small cars, \$125; 2 gals. alum. pigment, \$20/gal.; new H78-15 tire on Monte Carlo wheel. Stuart, 299-9190.

**BANJO**, Ome, single X, case, strap & Keith tuners included, \$600. Downs, 293-7616.

**RELOADING** equipment: press, scales, powder measure, brass & dies, for 30-06, .270, 45 APC. Work, 293-9508.

**GARAGE SALE**: Fri. & Sat., 9-4, 2601 Sandler NE: dbl. innersprings, yellow ginger lamps, dog carrier, infant supplies, misc. Bradley, 293-9586.

**LARGE** COLOR TV in wood cabinet, needs work, \$85; white porcelain lavatory, \$7. Boes, 268-4481.

**DINING ROOM TABLE** w/4 chairs, dark wood, modern, \$100. Ryan, 298-8692.

**FOUR** white spoke rims, six lugs, w/E60-14 tires, \$100; black roll bar for small truck, \$75. Sippio, 268-3846 or 268-4085.

**SET** of 10 Time-Life photography books, \$150 new, now \$75. Schroeder, 344-1011.

**MAPLE DRY BAR** on rollers, 33" high, \$100; overstuffed lg. chair w/cushion, 33x33, \$50. Hitchcock, 294-5153.

**EARLY AMERICAN** red maple couch, \$100; upholstered chair, \$25; Rampart dirt bicycle, \$70; golf cart, \$10. Mathews, 881-7368.

**LIFE VESTS**, 2 Stearns blue denim w/pockets, for adults, \$35/pr.; 8'x8' outside-frame-umbrella tent, \$40. Brammer, 266-5158.

**BUNNIES**, 4 wks. old, \$2 ea., Widenhoefer, 298-2510.

**DISHWASHER**, Penney (Hotpoint) machine, avocado green, port. or permanent installation options, 2 cycles, \$100. Auerbach, 296-1489.

**FREEZER**; elec. range; camping gear; living room set. Keller, 265-8909.

**FLYING CLUB** membership: 1/10 share of '65 Cessna 182; fly for \$32/hr. wet & \$21/mo. dues, \$2100. Milloy, 268-3467.

**COFFEE TABLE**, kidney shaped glass top on modern wood base, \$50; bicycle exerciser stand, adjustable for load, \$15. Waite, 867-5953.

**SAVAGE** 110 bolt action .30/06 rifle w/scope; Ithaca model 37 pump shotgun, 20 gauge, modified choke. Haaker, 293-1077.

**SEARS** dishwasher (copper, under the counter), \$125; rotary lawn mower, \$50; Sears cannister vacuum, \$50. Adams, 881-6836.

**DOG**, Doberman Pinscher, 1 1/2 yrs. old, \$35. Sanchez, 344-1937.

**GOLF CLUBS**: men's right hand Wilson Sam Snead Blue Ridge bag, cart, \$150; lady's starter set, \$60. Menschel, 892-5827.

**'78 APACHE** camper, hard-top, fold-down, vinyl sides, sleeps 6, power converter, furnace, elec. water pump, 3-burner range, \$2500. Schaefer, 294-0862 after 5.

**DRUM SET**, Ludwig, complete w/seal & pedal, \$190. Nee, 266-4278.

**LIGHT** fixture, black iron, clear bead roping, \$25; medicine cabinet, attached mirror, \$15; Montini ski boots, size 9, \$15. Keeling, 296-9729.

**TOYOTA** Shadow louvre for hatchback, nominal dimensions: 40"x27", black, \$68. Mead, 294-2298.

**SEARS** zig-zag sewing machine in blond cabinet, w/cams, \$75 or make offer. Barton, 268-7349.

**BABY SWING** with bassinet & swing seat, used only 6 mos., \$35; GM infant car seat, \$10. Peterson, 298-1235.

**CAMPER SHELL** for 8-ft. pickup truck, paneled, \$225 firm. Menschel, 892-5827.

**KENMORE** portable dishwasher, saxophone, clarinet, antique banjo, ukeleles, 1866 Winchester, English saddle, desks, chest o' drawers, electric lawn edger. Cooper, 869-2198.

**TRANSPORTATION**

**MINIBIKE**, 4 hp engine w/torque converter, \$200. Loeber, 821-3674.

**12' BOAT**, Alumacraft, trailer w/new tires, 2 adult life jackets, 1 child's, anchor, 2 oars, will take up to 15 hp engine, \$500. Ramirez, 881-0128.

**BICYCLES**, boy's 10-spd., 26", & girl's 3-spd. 26", \$20 ea. Wentz, 881-7125.

**'75 MAVERICK**, AT, AM-FM-8TK stereo, green, 2-dr., \$1500. Padilla, 831-3151 or 265-4154.

**CHAMPIONSHIP** rollers for bicycle training, \$45. Strait, 268-4893.

**'79 HONDA** CM400A, auto., running lights, extra lights on rear, 55-70 mpg, \$1200. Hollis, 821-9501.

**'72 HONDA** 350, street bike, 45 mpg in town, 8500 miles, orig. owner, helmet, \$750. Patrick, 822-0703.

**'75 DODGE** 4x4 318V8, 4-spd, 4x4 cam, big radials, over \$3000 extras; Chevy HD 3/4-ton, 307 V8, 4-spd., new bat. & tires, w/8 1/2' Open Road camper. Griego, 299-0627.

**'68 TRIUMPH** TR4A, rebuilt engine, new upholstery, carpet, HT & tonneau, recently tuned wire wheels, \$2500 firm. Schimmel, 296-2295.

**'77 YAMAHA** 100 Enduro, \$400. Christenson, 293-3562.

**'78 JEEP** Cherokee Chief, 26,000 miles, auto. quadtrac, reg. gas, all factory options, perfect for towing. Hopper, 296-2492.

**'76 CAMERO**, 40,000 miles, AT, PB, PS, factory air, AM-FM-8TK, \$3650; '78 customized Chevy van, everything, \$7750. Lassiter, 298-2461.

**'65 WAGONEER**, 4x4, 6-cyl., SB tires, 16 mpg, radio, \$995. Syroid, 299-8256.

**SAILBOAT**, Fast 14' Laser w/trailer, custom equipment bag, ratchet block, spare tire, \$1300. Novotny, 296-7167.

**'79 YAMAHA** XZ250F motocross bike pro-ported, new tires. Navratil, 292-3897 or 293-5527.

**'71 PLYMOUTH** custom suburban, 9-pass. stn. wgn., power, air, cruise-control, 50,000 miles, one owner, reg. gas, \$1000. Carter, 296-8709.

**'59 CHEVY** half-ton pickup, 235 6-cyl., 4-spd., AM-FM cassette, \$2500. Betterton, 884-8528.

**'64 CHEVELLE**, 283, 4-spd., (no reverse), all or parts. Shenk, 296-6015.

**'68 FORD** pickup w/Gold Line camper, stove-oven, combination gas & elec. refrig., furnace, will take payments. Neas, 883-0178.

**LADIES** 3-spd. Penney's, \$50; '77 Yamaha YZ80 dirt bike, \$350. Furaus, 822-0146.

**'66 MUSTANG**, AT, 289 V8, partially restored, mechanically sound, \$850. Bell, 821-7148.

**'73 CHEVY** Impala stn. wgn., 9-pass., AT, PB, PS, AC, luggage rack, \$1375. Ripi, 884-4683 after 5.

**'80 HONDA** Express, 650 miles, adult driven, 100 mpg, 600-mile service recently, \$350. Ennis, 881-0819.

**BOY'S** 20" Schwinn bicycle, high-rise handlebars & banana seat, \$40. Giddings, 298-6221.

**'69 MUSTANG** convertible, 351 Cleveland engine, 4-spd., AM-FM stereo, cassette deck, extras, \$3500. Cooper, 869-2198.

**'77 DATSUN** pickup, AC, 5-spd., camper shell w/sliding window, \$3800. Padilla, 831-3500 after 5:30.

**REAL ESTATE**

**NEAR UNM**, 3-bdr., 1 1/2 bath, fp, carpeted, appliance, shaded porch, yard w/big tree, tool shed. Yu, 268-5355.

**'78 MOBILE HOME**, 14x70. Sanchez, 281-1505.

**AMERICAN** mobile home, 8x35, \$2225, located at 6710 Cochiti SE. Brockway, 344-1901.

**40 SCENIC** Mtn. acres, 1/4 mile trout stream, surrounded by National Forest, in Colo., \$1400/acre. Syroid, 299-8256.

**4 ACRES** Mt. land w/many trees, 6 miles east of Albuquerque, buy all or half. Barr, 293-7542.

**TRADE** house in Las Cruces, near NMSU, 6 1/2 rooms, good condition, for property in Abq. area. Boes, 268-4481.

**3-BDR.** all brick, lg. corner lot, super-sealed & insulated, expandable, \$65,000. Aragon, 294-4275.

**WANTED**

**LIFE PRESERVER** for 1-yr.-old child. Morenus, 293-0339.

**ENGINEERING** or scientific instruments, old but serviceable or repairable: transits, sextants, theodolites, barometers, balances, scales, etc. Hughes, 299-6674.

**UTILITY** or tent trailer capable of being towed by Datsun pickup. Kohut, 877-0153.

**OXYGEN/acetylene** welding torch & tanks, with carrier. Smith, 255-7389.

**ELECTROLUX** TANK SWEEPER, must be cheap. Souder, 281-3121.

**CAMPER SHELL** for short-stepside Ford truck. Romero, 897-0083.

**BOARDING HOME** for black poodle cross, nice pet, loves children, from June 13 to Sept. Houston, 255-4658.

**.22 CAL. RIFLE**, lever-action, pistol-grip type stock only, good to excellent condition. Smiel, 865-9081.

**FULL-TIME** babysitter in our home or in Wyoming-Indian School area, start in June. Matzen, 294-8734.

**PORTABLE** dishwasher, not a converted unit, reasonable; small drafting table. O'Neil, 892-6754.

**10-SPEED BIKE**, frame size 21-23 in., lt. wt. only (no Columbia, Huskey, etc.), must see by noon Sat., May 16. Lane, 884-4566.

**"N" Gauge** elec. train & equip. Stuart, 299-9190.

**NEED** tailgate and hardware for '73-'78 Ford wide-bed pickup; '74 Ford truck repair manual. Molina, 299-8718.

**BABY BED** & mattress, must be in good to excellent condition, reasonably priced. Rush, 296-1244.

**SANDIA-ISSUE** blue plastic briefcase, old style w/Velcro fastener, good condition, will trade currently stocked zipper-fastened version. Hawkinson, 281-5239.

**SHARE-A-RIDE**

**RIDE TO UNM** from Sandia, summer session, Mon.-Fri., 12:50-2:10, will pay for all gas. Call collect 1-864-4241, Benton.

**NEED RIDE** from Aspen or Constitution & San Pedro NE to Tech Area II. Montague, 255-2670.

**LOST & FOUND**

**LOST**-Fx/45 Casia credit card size scientific calculator. Stinnett, 4-6845.

# Spinningwheel Plays Tonight

A POWERHOUSE GROUP, formerly of Las Vegas, called Spinningwheel plays the ballroom of the old C-Club tonight. Dinner is a sit-down affair with your choice of prime rib or king crab for \$8. Happy Hour prices are in effect all evening and your calendar discount coupon is good for \$2.50 off the top. No reservations required.

SWIM SEASON starts next Friday in conjunction with Happy Hour—the buffet that night is fried chicken and the idea is that you can take the goodies onto the patio and enjoy a picnic dinner with the family. The pools will be open for swimming and the snack bar will be in operation. Later in the ballroom, a group called Family Reunion plays for dancing.

ON SATURDAY, May 23, fried shrimp is the dinner feature (\$7 for members) starting at 6 p.m. Together plays for dancing starting at 8. You can make plans and reservations starting now. Tickets must be picked up tomorrow.

TRAVEL DIRECTOR FRANK BIGGS announces three new one-day travel packages—two trips on the Cumbres-Toltec Railway on July 26 and Sept. 26 and a charter bus to the Gallup Indian Ceremonial Aug. 8.

The Gallup trip includes busfare, parade, ceremonial dances, admission to the exhibit hall, museum, rodeo plus coffee and donuts on the way over and refreshments and snacks on the way back. The price is \$28 per person. "We need a bus full by July 29," Frank says.

The Cumbres-Toltec tours include train passage (all the way across to Antonito) and charter bus fare from Albuquerque with coffee and donuts on the way up and refreshments and snacks on the way back. The Club price for this package is \$42 each for adults (\$30 for children 11 or younger) which is less than the usual cost of a full



SWIM SEASON opens at the C-Club's twin pool and patio area next Friday, May 22, at 4 p.m. in conjunction with a special Happy Hour buffet. Randy Stone (3742) and Patricia Barton (3154) think it's a great idea. The pools are open for the next three days—Saturday, Sunday and Monday (Memorial Day) from 11 a.m. to 6 p.m. then close for three days to reopen for the remainder of the season on Friday, May 29, at 4 p.m. Regular summer hours are 11 a.m. to 6 p.m. every day except Friday when closing time is 9 p.m.

one-way train ticket alone. "We need full buses at least 10 days before the departure dates," Frank says.

"Also," Frank continues, "we need a full bus by May 29 to make the West Coast tour (June 7-14) go. The tour includes transportation, lodging, the Riverside Casino, boating on the Colorado, Disneyland, San Diego Zoo and SeaWorld, Old Tucson, the Arizona Sonora Desert Museum and much more for \$340 per person."

The Las Vegas trip (May 24-27, \$132) has space for two more people.

Stop by the Club lobby tonight between 6 and 7 and talk about these trips with Frank. Or discuss a three-day air package to Reno in early August for about \$312 or Lake Tahoe for about \$340.

## feed *hi* back

**Q.** Why don't replacement pages for the phone book have five holes instead of three? The one-inch-thick, three-hole notebooks were minimal when this system was started. Now, out of necessity, most of us have switched to five-hole, inch-and-a-half-thick notebooks.

**A.** As mentioned earlier, a one-and-a-half-inch, three-hole binder, ordered specifically for the expanded telephone directory, has been in general stores for about two years. The stock number for these binders is 690 642. Another notice will be included in the Weekly Bulletin about the availability of this binder.

To accommodate those who prefer the five-ring binder, we will have replacement pages five-hole punched.

Thanks for your recommendation.

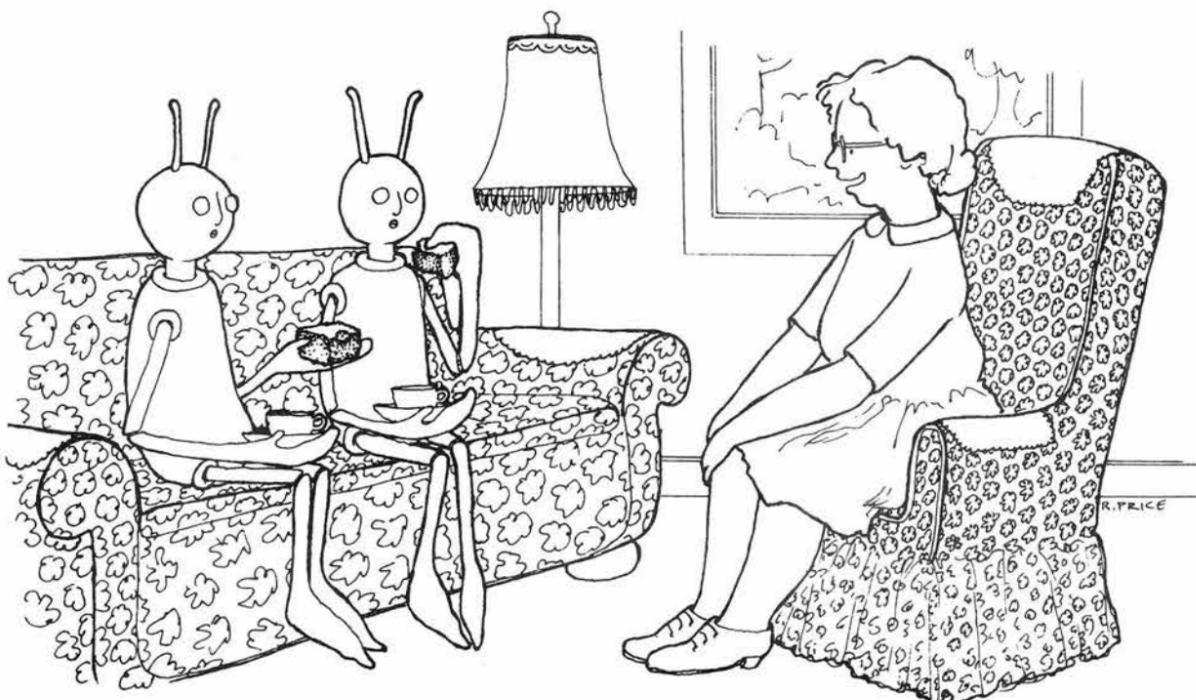
K. A. Smith—3100



**TIME** reports that inflation is pushing marginally stable mental patients over the brink. One psychiatrist who has studied the link between the economy and mental health puts it this way: "Money problems aren't sufficient to produce illness in themselves but they can increase the severity of an illness in a patient who is vulnerable for other reasons."

### New Funnies

You'll be seeing some new cartoons in the space at left. We've come to an agreement with *Century: A Southwest Journal of Observation and Opinion* to use some of their drawings. The artists are J. P. Rini, the managing editor, Rini Price, art director, and V. B. Price, editor. (If it sounds like a family operation, it is.)



"YOU KNOW, I HAD NEVER SUSPECTED YOU FOLKS LIKED GINGERBREAD."