

# LAB NEWS

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SANDIA LABORATORIES - ALBUQUERQUE NEW MEXICO & LIVERMORE CALIFORNIA

## In Coyote Canyon

### Deep Sea Simulation Chamber Used For Small Explosive Testing

The deep sea simulation chamber looks like a large beer keg, but it wouldn't be wise to tap it. The chamber, which can duplicate pressures at 15,000 feet below the surface, has been used to test a number of small explosive sounding devices under development.

The chamber was designed by Bill Leisher of Coyote Test Field Division 7343 as a quick, economical solution to the need for deep sea testing. In use, the chamber is filled with simulated sea water and pressurized gas up to 7300 psi. The gas acts as a cushion to blast pressure. The size of the explosive charge that can be fired depends on the pressure and charge configuration. The chamber has contained up to three grams of explosive.

A pit is dug in Coyote test field and the chamber with test device is buried in ice to bring the temperature down to 32 degrees, the temperature of the ocean at depths of 15,000 feet. The pit is covered with a pre-cast slab of concrete (for both security and safety reasons) and the explosive is remotely fired. Data are recorded through 48 two-wire channels.

Bill used a couple of novel design features in the chamber. End plugs for the thick-walled steel cylinder are held in place with large bolts located on the joint line. This method was chosen over more conventional means because of cost advantages and ease of assembly and disassembly in the field.

To seal the chamber an aluminum "o"



BILL LEISHER (7343) designed this deep sea simulation chamber to contain small explosions.

ring holder is used. The ring expands more than the chamber itself so that all the clearance is taken up; total sealing is reached when the pressure inside the chamber reaches 1600 psi.

## Sandians Exhibit Today With Arts & Crafts Fair

The gates opened at the State Fair Grounds this morning for the ninth annual New Mexico Arts and Crafts Fair. For three days more than 160 artists and craftsmen will exhibit and sell their wares.

In addition to paintings, sculptures, textiles, jewelry, ceramics, and photographs, there will be examples of Indian pottery from Santa Clara Pueblo, kachina dolls from the Hopi Reservation, and hand-carved furniture by Albuquerque craftsmen.

Ron Day (3131) and his wife Mary Kay will present their popular puppet show on Aug. 1 at 3 and 7 p.m. in the Indian Building.

Sandians exhibiting (numbers are booth numbers) are: Bob Burgess (2346), No. 33, paintings, mosaics, jewelry; Jack Cannon (7521), No. 85, paintings; Judy Elder (on leave of absence from 3417), No. 71, miniatures; Dick Hodges (3455), No. 122, photography; Voris Hope (3417), No. 81, bread-dough pictures; Tillie Pierce (3417), No. 152, paintings; Bill Stanton (9222), No. 71, paintings; Dick Strome (3417), and his wife Elaine, No. 64, paintings; Jim Walston (3417), No. 82, drawings; and Carlton Kentfield (7612), No. 89 and 90, jewelry.

Still other employees will be helping at booths displaying their wives' special interests. In this category are Nina de Montmollin (husband Jim, 9230), No. 101 and 102, paintings; Goldie Hart (husband is retiree Jack), No. 167 and 168, paintings; Louise Laval (husband is Joe, 3433), No. 149 and 150, critters (sic); Mary Elizabeth McDonald (husband is Corry, 3416), No. 103 and 104, weaving and jewelry; Caryl McHarney (husband is Rupert, 3417), No. 106, 107, and 108, fused glass and steel; Carol McIlroy (husband is Homer, 4513), No. 89 and 90, paintings; Jan Parker (husband is Don, 3311), No. 45, 46, 47 and 48, weaving; and Betsy Truby (husband is Frank, 5233), No. 17 and 18, paintings.

The gates are open 10 a.m. to 10 p.m. through Sunday, admission is 25 cents for adults (children free), and there is free parking on the Fair Grounds.

## Sandians to Help with Cratering Study Using Conventional Explosives

Four Sandians will soon take part in a cratering experiment using conventional high explosives at a site near Trinidad, Colo. The study, called Project Trinidad and conducted by the U.S. Army Corps of Engineer Nuclear Cratering Group, is aimed at improving the technology of explosive excavation in moderately hard rock. Nine one-ton charges will be detonated at various depths.

Luke Vortman (9111) and Jack Reed (9150) are responsible for making air blast predictions and measurements. Gerry Laurson and Bob Holt (both 9123) are responsible for the air blast instrumentation system.

The experiment is the first in a series of four that are scheduled during the fall. Results of the series are expected to contribute to an excavation technology for large scale civil engineering projects. One such possible project is the Trinidad Reservoir project on the Purgatoire River in Southeastern Colorado. Construction of the earth fill dam on this project will require excavation of a connecting channel, and completion of the dam will necessitate a number of cuts for relocation of the Colorado and Wyoming railroad.

Although Project Trinidad is not planned as a direct contribution to the Reservoir project, its results are expected to find application in the excavation phases.

## Paul Robertson Earns Doctorate at Okla. State

Paul Robertson (3134) is in Stillwater, Okla., today to receive from Oklahoma State University a doctorate degree he began working toward seven years ago.

His Doctor of Education Degree is in technical education and his dissertation was an evaluation of an electromechanical technology curriculum at Oklahoma State which he helped to set up while on special leave of absence from Sandia Laboratories. The majority of his course work was taken under the Educational Aids Plan.

Paul's BS degree in mathematics and physics was from Delta State College in Mississippi, and his MA in math was from George Peabody College for Teachers in Tennessee. He did some of his doctorate course work at the University of New Mexico.

Paul has had a varied career at Sandia during the past 18 years. He has been a field engineer for the military liaison organization; a project engineer in Spokane, Wash.; a quality assurance engineer and section supervisor at a remote site in Louisiana; supervised a neutron generator instrumentation design section, and most recently was responsible for administering the Doctoral Study Program and developing programs of Continuing Education for Sandia employees.



## Pete Thoma Heads National ASTM Committee on Plastics

Pete Thoma (5512) has been elected to a two-year term as chairman of the American Society for Testing and Materials' Committee D-20 on Plastics.

The committee has more than 450 members across the country and is responsible for the development of test methods, specifications, practices, and research relating to plastics, their raw materials and compounding ingredients, and finished products from plastic.

One subject Pete's committee may be concerned with is the writing of consumer standards for plastics, including disposal of plastic items. Since a sub-committee on permanence properties of plastics is already formed, this same group may be asked to take on the problem of impermanence.

"When a melamine dinner plate is whole, you want it to stay whole," Pete explains, "but once the plate becomes unusable, then you'd like it to dissolve or become disposable in other ways."

Pete has been working in plastics at Sandia since 1959. He has been a member of ASTM since 1960 and was formerly chairman of sub-committee 20.16.



GLAD TO HAVE YOU ABOARD is the message the Laboratories conveys to these young people employed here this summer. Over 80 of them are working throughout Sandia as part of the Youth

Opportunity Campaign. Most plan to continue schooling this fall.



MORE THAN CASUAL interest is shown by (l to r) Harvey Brewster (3233), Art Hardeman (4112) and Katheryn Lawson (5522) in a new publication called "White Collar Blacks — A Breakthrough?" The book features interviews with each of the Sandians.

## Three Sandians Featured in New Management Publication

Three Sandians are featured in a recently-published book concerning capabilities and problems of white-collar black workers in industry today.

Published by the American Management Association, "White-Collar Blacks — A Breakthrough?" contains a series of inter-

views with 44 blacks who are in managerial or professional positions with their respective companies.

Katheryn Lawson, a research physicist in Electro-Optical Division 5522; Art Hardeman, a computer programmer and systems analyst in Technical Support Systems Development Division 4112; and Harvey Brewster, program coordinator for Compliance, Audit and Personnel Testing Division 3233; are the Sandians featured in the book.

Those interviewed were asked to comment on five questions posed by the book — How can more black people be recruited? How can they be better trained? How can they be more fairly promoted? How can employers improve the odds that competent black employees will stay with them? How can employers improve communication with their black employees?

Biographies of the interviewees suggest some of the background necessary for qualification for various white-collar positions.

Using conclusions drawn from the interviews and other sources, the publication summarizes ways for employers and managers to meet the problems discussed.

## Harold Jeblick Marks 25 Years With WE



Harold Jeblick, supervisor of Eastern Division 2491 of the quality operations organization, will observe his 25th anniversary with Western Electric Co., on Aug. 5. He has been on loan to Sandia Laboratories 15 years.

His career with WE began at the telephone apparatus shop in Kearny, N.J. He was subsequently transferred to Haverhill Shops in Massachusetts, Teletype Corporation in Chicago, and the 42nd Street Plant in New York City.

Harold's initial job at Sandia was to set up field inspection offices on the East Coast. Two years later he moved to Albuquerque. In his present job he returns to the East Coast every couple months to visit suppliers and the Sandia staff there.

## Follow-Up

### 'Ms.' Takes Misses and Mrs. by Storm

In the last issue of LAB NEWS we quoted a congressional representative who proposes that "Miss" and "Mrs." be forever banished and replaced by a universally applicable (to females) "Ms." pronounced "miz." So when you're talking to a lady whose marital status is dubious or, rather, uncertain, you may proceed blithely, confident that nothing in your manner of address at least will cause offense, e.g., "What nice eyes you have Miz. Brown."

Well, we had a pretty good response and almost all who called are enthusiastic about the proposal. One gentleman concerned himself with the wedding ring aspect of the problem and writes:

"... a young woman ... who I assumed was Miss Duncan since she wore no wedding ring. But later I discovered she actually was Mrs. Duncan. The wedding ring I was told chafed her finger and she simply quit wearing it.

"Perhaps the answer for women who wish to advertise that they are available is to wear something distinctive rather than the other way around.

"P.S. What should we do about our women PhD's here at Sandia?"

Clearly, the answer to this would be "Msdr.," pronounced — well let's say only by the most resolute.

A few callers observed that "Ms." is the abbreviation for "manuscript" as well, and that "Mz." would be more appropriate. But the fact is that most people can readily distinguish between a manuscript and a lady. Webster's unabridged has an illuminating entry under "Mrs." on "miz": "miz ... sometimes chiefly in substandard speech or in the speech of older persons."

Proponents thus run the risk of some social obloquy, being regarded either as substandard or, worse yet, as an older person. Sort of like saying "aint" in mixed company, i.e., including some from Texas.

Finally is the caller, male, who felt strongly that more, rather than fewer terms are needed to distinguish the precise marital status and, indeed, the marital history of the lady you've just met. "Miss" and "Mrs." would remain, but in addition distinctive terms would be coined for divorcees and widows. Under this scheme, the lady with, say, three divorces would have a different appellation from the lady with only one divorce. He didn't have any specific terms to recommend but felt that a committee, all male, could quickly settle on appropriate labels. He allowed that implementation might meet a few obstacles.

## Vandals Riding High in City Schools

How's \$10,000 for starters? That's what it cost in the last 12 months to replace windows in Albuquerque schools broken by vandals. The statistic comes from Walt Troy, supervisor of Patrol Division I 3522, who has recently accepted appointment to the Citizens Advisory Committee on Burglary and Vandalism. The Committee, initiated by the school system, includes a number of members who, like Walt, have wide experience in industrial security. Aim of the group is to suggest practical means by which the public school system can cope with vandalism and burglary.

"We've always had some vandalism and theft in schools," says Walt, "but the alarming thing is that the problem seems to be accelerating. In the last nine-month period we're looking at a total loss of about \$75,000. That kind of money would buy a lot of books and pay a lot of teachers' salaries."

Walt breaks the problem down into three areas.

First and perhaps simplest to deal with is "pure" vandalism — a disgruntled boy with a rock vs. a school window. Next is petty thievery, during or after school hours. An example would be breaking into a vending machine to get to the coin box. Third, and most serious, is of fairly recent vintage. This is the large-scale theft of expensive office equipment — typewriters, tape recorders, movie projectors, and so on.

"A dark and empty school can be a sitting duck for a professional thief," Walt observes. "He'll even back his truck up to

a conveniently situated door, break in, and systematically load up the truck with easily carried, costly items."

A number of protective measures are being studied. Exterior lighting is cheap and effective. Fencing of certain school areas to preclude vehicle access to the building is another step. Alarm systems, similar to those in use at Sandia, may be recommended, and the use of tempered glass in windows, though initially expensive, might be cheaper in the long run.

"The no-window type of school building — and we have a few in the system — does eliminate one problem," Walt states. "Of course, some people feel this cure is worse than the ailment. But these people wouldn't like what some school systems in other parts of the country have done, in part to counter vandalism and burglary: the entire school building is underground."

## Note To All Employees

The report now circulating to the effect that all employees will be required to bag their waste basket trash at the end of the working day and to set these bags outside their office door is wildly exaggerated. It is true that consideration is being given, as always, to more efficacious methods of trash pickups, but the best current trash thinking in relating to bags can be summed up in the phrase "It ain't my bag." Analysis of the various parameters continues, however, and a trash research project may be undertaken if sufficient computer time is made available.

## Supervisory Appointment

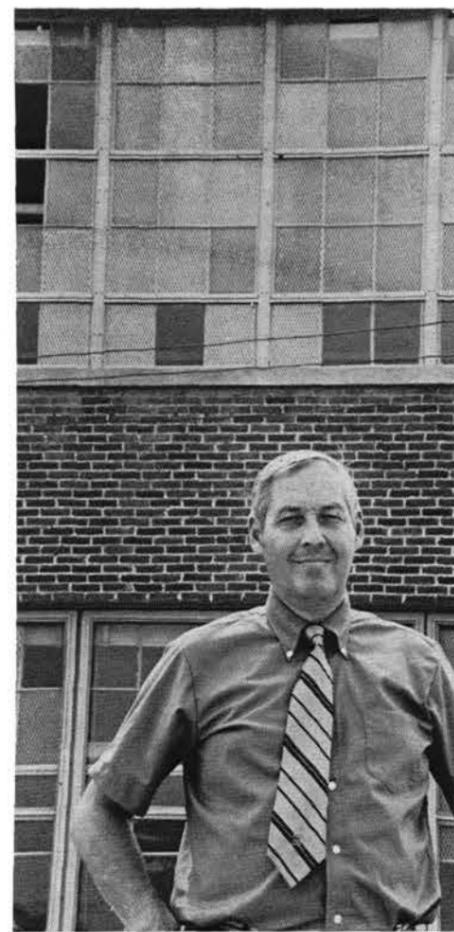


CALLA ANN CREPIN to supervisor, Library Reference Division 3424, effective Aug. 1.

She joined Sandia in 1956 and terminated in 1962 to continue her education. At that time she was an employment interviewer for women. A year later when she returned to Sandia, Calla Ann was assigned to the technical library. In June 1966 she was promoted to supervisor of the Book and Report Cataloging Section. From August 1969 until her present promotion, Calla Ann has supervised the Reference Section.

She has a BA degree in biology from Lake Forest College (Ill.) and an MS in library science from Western Reserve College in Cleveland.

Calla Ann is a member of the Special Libraries Association, the Americal Society for Information Science, and is currently president of the New Mexico Library Association. She is also a member of the New Mexico Library Development Council, which is an advisory group to the State Library for the administration of federal library funds.



SOUND OF TINKLING GLASS must have special attraction for small boys with rocks. Walt Troy (3522), now on school system committee on Burglary and Vandalism, is shown at John Marshall school before bank of windows whose variegated pattern reveals shattering history. Window breakage alone cost system \$10,000 in one year.

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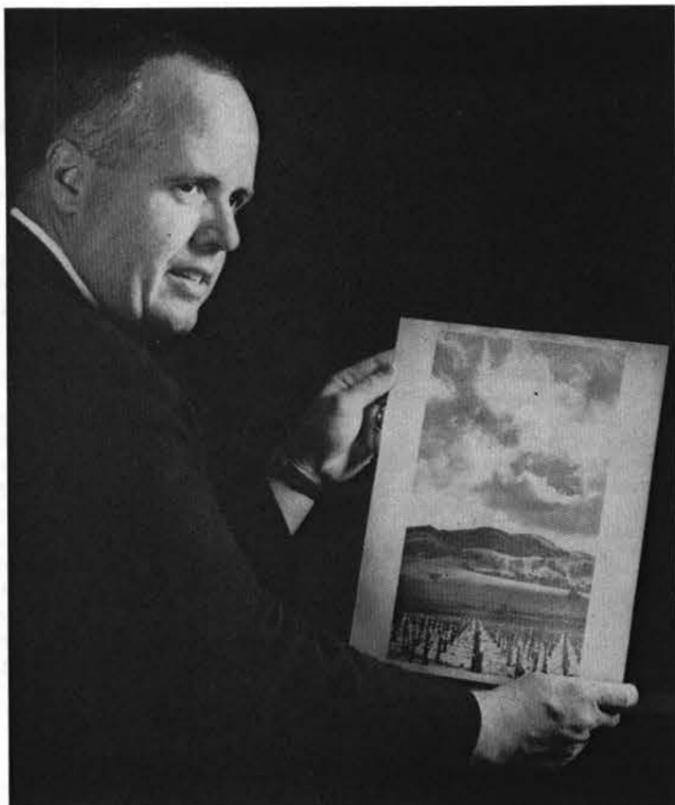
# LIVERMORE NEWS

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BILL GORDON (8175) displays his photograph, "Storm Over Vineyard" which has been included in an exhibit called "The Face of California."



## Photo By Bill Gordon Makes Senate Office

A photograph, "Storm Over Vineyard," by Bill Gordon (8175) is being featured in an exhibit which opened recently in the office of California Senator Alan Cranston in Washington, D.C.

Called "The Face of California," the exhibit is presented in cooperation with Famous Photographer's School through which Bill just completed a three-year correspondence course. Included are 18 photographs by California resident, typifying the photographic work being done by home-study students throughout the State.

The exhibit will tour California following its display in Senator Cranston's office.

Bill, an electrical engineer in Advanced Projects Division, joined Sandia in June 1956, following graduation from Purdue University.

Photography has held his interest as a hobby ever since his father gave him an old Leica for Christmas about 20 years ago. "I enjoy the total creative process of photography right through to the actual film developing," comments Bill.

"My favorite photographic subjects are country scenes near growing urban regions and architectural structures of unusual design."

## Congratulations

Mr. and Mrs. Steve Cvitovich (8254), a daughter, Karen Alice, June 23.

Mr. and Mrs. Ralph Thompson (8122), a son, Paul Lawrence, July 2.

## Touring Northern California

A number of special events are upcoming in the summer program sponsored by the naturalist staff of the East Bay Regional Park District. The events include activities that appeal to all types — eager hikers, leisurely walkers, and staunch sitters.

"Star Parties" will be featured at Sunol Valley Regional Park Saturday evenings, Aug. 1 and Sept. 5, offering an opportunity to go on a "star trek" through space. Meet at Las Encinas meadow telescope pier one hour after sunset.

Beginning Aug. 2 and continuing for five Sundays from noon to 2:30 p.m., a guided tour is sponsored at Anthony Chabot Regional Park, San Leandro. Using the tour boat "Chabot Queen," the naturalist will explain the ecology of Lake Chabot. Meet at the boat dock at the Chabot Marina (Lake Chabot Road entrance). Enrollment is limited. To register, call 524-1034.

After the boat tour, there will be a nature walk from 3:30 to 5 p.m. Meet the naturalist at the snack stand.

An Open House will be held at the new maritime classroom at Alameda Beach Regional Park on Saturday, Aug. 22 from 10 a.m. to 4 p.m. The room, located on shore, is designed specifically for study of San Francisco Bay and resembles the hold in an old sailing ship. One wall features a life-size, three-dimensional diorama of virtually every bird, fish and plant found in the Bay.

The staff of the Regional Park District suggests comfortable shoes and warm dress.



GILDED LILY, John Liebenberg (8184) and crew lead the fleet heading for the first buoy during the final race of the recent Islander Bahama National on San Francisco Bay.

## Gilded Lily Sloop Doing Right By Part-time Labs Sailors

"Three times is usually out, but I'm going to try for first place again next year," says John Liebenberg (8184) who finished second for the third consecutive year in the recent Islander Bahama National Championship sailing race.

Held annually on San Francisco Bay, the national race was sponsored this year by the Golden Gate Yacht Club of San Francisco. Jerry Weber (8172) served as race chairman.

Sailing "The Gilded Lily," a 24-foot fiberglass sloop, John's crew consisted of former Sandian Bud Herzog and Larry Brandt (8155).

"The Islander Bahama National is actually a series of three races, and we needed to win the final race to place second overall," explains John. "What turned out surprising was that in that final race we started first and finished first — but during the race we had to make a sail change because the grommet at the head of the jib pulled out.

"We just happened to take the better

course from the standpoint of the currents. If we hadn't taken that course we would have finished out of the money."

John is a member of the Cal Sailing Club in Berkeley and berths his boat at the Berkeley Marina. He is also a member of the local Del Valle Sailing Club and gives sailing instruction in El Toros.

## Take Note

Discount tickets are available from Employee Benefits for Bay Area performances of the 100th anniversary edition of the Ringling Bros. Barnum and Bailey Circus. These tickets are for the 2:30 and 8 p.m. shows on Friday, Aug. 21, at the Oakland Coliseum-Arena and, at the Cow Palace, for the 8 p.m. show Wednesday evening, Aug. 26, and the 2:30 and 8 p.m. shows Thursday, Aug. 27.

Seventy-seven Sandians recently received their Red Cross First Aid cards for successfully completing the 10-hour American Red Cross Standard First Aid Course. The course was conducted during lunchtime by Safety Engineering, Environmental Health and Medical Services Division 8263. Instructors included Jerry Maloney (8274), Dick Myers (8124), Wil Vandermolen (8122), Jack Wilson (8121-1) and Vern McNabney (8263).

Bill Ormond, supervisor of Affirmative Action, Compliance, and Personnel Records Division 8217, was promoted recently to the rank of major in the U. S. Army Reserve. For the past year, Bill has served as senior chemical, biological, and radiological instructor for the 49th Infantry Brigade of California's National Guard and attended the Army Reserve's Command and General Staff School.

Bruce Held (8263), member of the State Environmental Quality Study Council, spoke recently to the Men's Club of the Springtown Association. Title of his talk was "Environmental Problems in California."

## Sympathy

To Gordon Bjork (8275) for the death of his mother in St. Paul, Minn., July 3.



YOUTH OPPORTUNITY CAMPAIGN EMPLOYEES AT LIVERMORE—Seventeen summer employees from high schools and colleges in Livermore and surrounding areas are performing a variety of assignments at Sandia Laboratories Livermore this

year under the Youth Opportunity Campaign. Program offers young people close look at industry while earning money which helps meet school expenses.



"WHAT'S a nice girl like you doing in a place like this?" seems appropriate here but it turns out that the girl is Kathy Mead and the hairy customer is husband Phil Mead (3411) who has a largish role in western movie "A Gun Fight," with Kirk Douglas and Johnny Cash, filmed recently near Santa Fe. Kathy is an alumna of Sandia Livermore and daughter of Chester Wolowicz (7623).

## Kirk & Johnny & Phil & Others Make Shoot-Em-Up Western

When "Cheyenne Social Club" was made locally a few months ago, quite a few Sandians had roles as extras, and one Sandian — Phil Mead, a tech writer in 3412 — had a one-liner speaking role. Now Phil has come into his own, so to speak, and in the new movie "A Gunfight" he has what might be called a "supporting" role. That is, he's not a star (yet) but he has lots of lines and appears many times throughout the picture. He plays Kyle Briggs, a flunky in the livery stable of a Texas border town.

Kirk Douglas and Johnny Cash are the stars and both play aging and weary gun fighters who have come upon slack times. But Phil and another local character sense the dramatic possibilities in one last confrontation and their role consists in bringing the gunfighters to the inevitable showdown.

Phil enjoys movie making but observes that "... it's demanding and tiring work, 13 hours a day, six day a week. On the

last week of shooting we did the night scenes and worked from 7 at night till 5 in the morning."

About the two stars Phil notes, "Both were approachable and friendly, but especially Johnny Cash who lifted countless youngsters to his shoulders so that they could have their picture taken with him." Both Cash and Douglas entertained at the state penitentiary, not too far from the Eaves ranch where the picture was filmed.

Phil's interest in drama is of long standing and he brings wide experience to his acting roles. He had the major male role as the king in the Civic Light Opera's "The King And I" two years ago, in Peter Pan (last year) he played Captain Hook, and just recently he directed Old Town Studio's "Cymbeline," by W. Shakespeare. Next will be a bit of a switch from livery stable work in a western movie: the role of Shylock in "The Merchant of Venice" at Popejoy Hall in September.

## Antipollution—For Fun and Profit

Most Sandia parents came to a quick realization earlier this summer when school let out: jobs for kids are scarce. Here's a way young people can earn a little money and, at the same time, improve the quality of our environment. It is suggested in the newsletter of the New Mexico Citizens for Clean Air and Water and consists of the collection and sale of scrap aluminum, paper, and bottles.

**Aluminum**—The Coors Company of Colorado reprocesses and reuses aluminum collected in its buy-back program now being sponsored in 11 western states. Used all-aluminum cans of any type or brand may

be sold for 10 cents a pound to collectors acting as agents for them. No mixed-metal cans will be accepted. An all-aluminum can may be identified by its rounded bottom edge and its lack of a side seam.

Other aluminum products such as TV dinner pans, pie pans, aluminum foil and scrap aluminum of all kinds will also be accepted at slightly lower prices.

Cans must be packed in containers such as boxes, paper bags or gunny sacks and must be packed separately from other aluminum products. They may or may not be crushed. Albuquerque agents accepting scrap aluminum are:

Acme Iron and Metal Co., 6144 Second St. NW, phone 345-2457

Rubi's Metal, 2227 Mayflower Road SW, phone 877-2192.

**Newspapers** — Save a newspaper and you may save a tree. Kaiser Gypsum Co. buys old newspapers delivered to their Rosario Plant north of Albuquerque. Price varies widely according to supply and demand. The papers are pulped and mixed with gypsum and other materials for use in the manufacture of wall board. Glossy magazines (and LAB NEWS) are of a different chemical composition and are not usable.

Contact Will Padilla, Kaiser Gypsum Co., on 243-5194 for instructions before trucking material up to the plant. Another local purchaser of newspaper is Albuquerque Waste Materials at 301 Hannett N.W., tel. 255-5468. All papers must be bound with twine for ease in handling. (Note: according to one source, a ton is some 30 feet of stacked and bound newspapers.)

**Glass**—Southwest Distributing Co., at 229 Lomas Blvd. NE, buys used wine bottles (no whiskey or beer bottles). They pay two cents for a pint bottle, three cents for the quart, fifth and half-gallon size, and five cents for a gallon bottle. No plastic bottles and only white unmarked glass wine bottles are accepted.

## TAKE NOTE

Another of the popular hunter firing safety courses will be offered Aug. 10, 12, 17, and 19 at the Coronado Club from 7:30-9:30 p.m. The course is free and will be taught by Doug Loescher (5153). The series is sponsored by the State Department of Game and Fish and the Albuquerque Wildlife Conservation Association. Registration will precede the first meeting.

## Gallup Ceremonial May Be Runner-Up In Contest With Autos

Several special events are planned for the 1970 Inter-Tribal Indian Ceremonial, Aug. 13-16, in Gallup. This will be the final year that the exposition is held at the present location—the buildings will be razed to make way for Interstate 40. It is hoped that new facilities can be erected elsewhere but, at this writing, the future remains uncertain.

The ceremonial goes back to 1922 when a small wooden grandstand was built at the present grounds. In the early days Indians from miles around came by horse-drawn wagon to spend a week camped nearby. At night, their camp fires on the hill-sides lent extra color to the evening Indian ceremonial dances. The grandstand has grown into a large covered steel structure, but three large bonfires in the arena still provide the only illumination for some of the dances. And pickup trucks and campers have replaced the wagons.

The schedule of events includes parades

through downtown Gallup on Friday, Saturday and Sunday at 10 a.m. The marchers represent over 10 Indian cultures of the United States and Mexico and are all in their native costumes. Indian sports, athletics, and rodeo events are held each afternoon at 2:15 p.m. and Indian dances are presented at 8:30 p.m., except on Sunday.

Examples of Indian handicraft are on display and for sale every day at the large exhibit hall.

Added attractions this year will be some of the traditional Indian sports competitions and fun events that marked the early years of the ceremonial. Another extra is a seminar program with daily programs of Indian speakers on various topics. Opportunity will be provided for discussions and questions and answer sessions.

Information on tickets and accommodations may be obtained from the Ceremonial Association, Box 1029, Gallup, N.M., 87301.

### Ah Wilderness

## Tom Harrell Is Man with Message

Tom Harrell (4364) is a talker. He talks to Boy Scouts, PTA's, conservationists, hunters and environmental interest groups. He talks about hunter safety and survival in the southwest, but mostly he talks about ecology. Ecology is a very fashionable word in these times of worry about pollution and out-of-control environment, but Tom Harrell was talking about "nature" a long time ago.

Tom is a North Carolina country boy who grew up during the depression. He knows what it's like to hunt and fish as a matter of survival. Now he does it for fun and sometimes for profit — during hunting season he works as a professional guide to hunting parties in the northern part of the state.

"New Mexico is beautiful," Tom says, "with really spectacular scenery. It is one of the few places left in the country where there are still large areas of unspoiled wilderness."

By "unspoiled" Tom means very little or no human interference. Through the changing seasons, nature creates a balance between the species — if the grass is lush, the jackrabbits prosper, then in turn the coyotes prosper and if there's too many coyotes, the jackrabbits decline and pretty soon there's few coyotes left.

Tom is creating his own balance on 120 acres in the Estancia valley that he purchased 14 years ago. Originally it was a bean farm with cleared timber and plowed fields, badly eroded, and pretty much "farmed out."

Tom has planted trees and grass and dug ditches to minimize the erosion. Except for a pasture for horses, the land is being returned to its original state. At one time Tom grew hay and raised cattle. Now

he keeps only the horses and a mule which he uses on his hunting expeditions.

"It's great," Tom says, "we often spot a herd of deer from the front porch, coveys of quail live in the old fields, there's a lot of birds, rabbits and a coyote or two. After work, it's nice to come back to the open country."

Tom knows that country living is not for everyone but he believes that there is a part of being human that calls for exposure to unspoiled nature. "Everyone needs to get away from city life once in a while," Tom says. "Your perspective improves after you take a good look at the sky, the hills, the trees and the grass."



THREE HORSES and a mule keep Tom Harrell company on hunting expeditions. They are the only stock he keeps now on his ranch near Edgewood.

## Brown Bagger Contest Entries

LAB NEWS will run a few entries in each of the next issues. In case you missed the contest announcement, we asked for luncheon menus, suitable for brown baggers, that represent escape from the tedium of ham on rye. Contest winner gets one free lunch at the Coronado Club. These looked good to us:

"Several homemade enchiladas with lots of cheese and meat and a fair amount of chili sauce . . . wrapped in aluminum foil so that they can be warmed up on a hot plate.

A couple of flour tortillas . . . buttered, honeyed and rolled, Thermos of cold, fresh milk — muy bueno!"

Ken Mills (2612)

"Open face sardine sandwich with egg salad, sliced olives and radishes on buttered rye bread

Corn chips

Grapes

Miniature pecan tarts"

Nell Norton (3417)

And our favorite, which may induce more than heartburn:

"Cold borsch with sour cream

Stuffed cabbages

Beluga caviar Polonaise (chopped egg yolk) on Melba toast

Chilled Wolfschmidt vodka, neat"

(Ed. Note: Better make that a potent koolaide).

Paul Abrams (4143)



COUNTRY LIVING in Estancia valley appeals to Tom Harrell (4364) who is converting his 120 acres into a personal kind of wildlife refuge and wilderness area.

## Service Awards

### 20 Years



Vaun Atkins  
4511



Rudy Baca  
4552



Jack Graham  
3522



Donald Lewis  
2492



Marvin Ozmun  
7652



Edward Sims  
3520



Paul Syroid  
7421



Chester Weaver  
2343

### 15 Years



Helen Agats  
4231



Christine Baca  
4110



George Banos  
3233



James Carmody  
4233



Mary Clay  
1526



Marjorie Endres  
1723



Patricio Garcia  
4212



Charles Herndon  
7324



Carl Lundbom  
8274



Geoffrey Lynch  
7411



Pedro Ortega  
4212



Jacob Sandoval  
3512



Robert Stewart  
4222

### 10 Years

John Mulligan 8333.

### Congratulations

Mr. and Mrs. Leslie Hill (9111), a son, Joel Emil, May 23.

Mr. and Mrs. Ken Sellers (2491), a daughter, Dawn, July 7.

### Sympathy

To Earl Johnson (4551) for the death of his wife, July 16.

## Events Calendar

July 31-Aug. 2—New Mexico Arts and Crafts Fair, State Fair Grounds.

July 31 and Aug. 7—Forest Service natural history lecture series, 7 p.m., UNM Anthropology Bldg. Free.

July 31, Aug. 5—"Anna Bolena"; Aug. 1, "The Marriage of Figaro"; Aug. 7 and 13, "The Rake's Progress"; Aug. 8, "La Traviata"; Aug. 12 and 14, "Opera." Santa Fe Opera.

Aug. 4—Corn dances, Santo Domingo Pueblo.

## Speakers

N. E. Brown (2341), "Preparation of Organic Explosives"; Brown and E. A. Kjeldgaard (2341), "Preparation of Inorganic Coordination Compounds"; A. C. Schwartz (2342) and H. S. Schuldt (2346), "HNS-Aluminum Linear Shaped Charge"; W. B. Leslie (2346) and Schuldt, "Propagation Velocities of High Temperature Resistant MDS"; R. N. Roberts (2341), "Polymorphism of HNAV and HNS," Symposium on Thermally Stable Explosives, June 23-25, U.S. Naval Ordnance Laboratory, White Oak, Md.

E. R. Frye (5312), "Carbon Composites for Reentry Applications," 16th Annual Meeting of the American Nuclear Society, June 28-July 2, Los Angeles.

A. C. Saxman (5114), "Direct Measurement of the Duration of Picosecond Pulses," Physics of Quantum Electronics Conference, June 30, Prescott, Ariz.

J. M. Hueter (3134), "Creative Analysis for Value," National Contract Management Association, Albuquerque chapter, and Purchasing Management Association of New Mexico, June 17, Albuquerque.

W. F. Chambers (5522), "A Computer Assisted Microprobe Laboratory," Fifth National Conference on Electron Probe Analysis, July 22-24, New York City.

R. R. Prairie (1643), "The Role of the Prior Distribution in Bayesian Decision Making for the Binomial Situation," and R. G. Easterling (1643), "On the Use of Prior Distributions in Acceptance Sampling," Ninth Reliability and Maintainability Conference, July 20-22, Detroit.

F. K. Bechtel (7211), "A Nonparametric Recognition Procedure with Storage Constraint," International Symposium on Information Theory, June 15-19, Noordwijk, The Netherlands.

P. W. Cooper and J. P. Weber (both 2342), "Water Ignition of Hypergolically Reactive Pyrotechnic Compositions," Second International Pyrotechnics Seminar, July 22-25, Estes Park, Colo.

L. F. Shampine (1722), "Solving Boundary Value Problems for Ordinary Differential Equations by Collocation," Conference on the Applications of Approximation Theory and Functional Analysis to Solving Ordinary Differential Equations, July 20-24, Boston.

A. D. Swain (1644), "Development of a Human Error Rate Data Bank," Navy Human Reliability Workshop, July 22-23, Washington, D.C.

P. R. Wilkes (9327), "Investigation of Marine Sediments Utilizing Low Velocity Telemetering Penetrometers," Marine Technology Society's Sixth Annual Conference and Exposition, June 29, Washington, D.C.

### Variable Annuity Unit Value

August 1970	1.239
July 1970	1.264
Average 1969	1.697

## Retiring



GWEN WARNICK  
(on leave from Division 3412)

## Authors

J. A. Brammer (5165) and C. M. Percival (5315), "Elevated Temperature Elastic Moduli of 2024 Aluminum Obtained by a Laser Pulse Technique," June issue, EXPERIMENTAL MECHANICS.

D. G. Swanson (1224) and N. T. Porile (Purdue University), "Statistical - Model Calculation of the Angular Distributions of (alpha, n) Reaction Products," Vol. 1, No. 1, PHYSICAL REVIEW C; "Average Ranges, Cross Sections and Isomer Ratios for the <sup>134</sup>Ba(alpha, n) <sup>137m,g</sup>Ce Reaction," Vol. A144, page 344, NUCLEAR PHYSICS; "Angular Distributions of <sup>137m</sup> and <sup>137g</sup> Ce from the <sup>314</sup>Ba(alpha, n) Reaction," Vol. A144, page 355, NUCLEAR PHYSICS.

M. K. Linn (3400), "Water Planning for Equilibrium," May issue, NEW MEXICO BUSINESS.

T. P. Wright (5231) and O. H. Theimer (New Mexico State University), "Non-Maxwellian Equilibrium Distribution for Free Electrons in a Plasma," April issue, PHYSICS OF FLUIDS.

K. L. Brower (5111), "Electron Paramagnetic Resonance of the Aluminum Interstitial in Silicon," Vol. 1, No. 5, PHYSICAL REVIEW B.

R. H. Plumlee (5153), "Sample Preparation for Ferroelectric Switching Measurements," Vol. 41, No. 4, REVIEW OF SCIENTIFIC INSTRUMENTS.

D. W. Swain (5243), "Boxcar Integrator Attachment for Oscilloscopes," Vol. 41, No. 4, REVIEW OF SCIENTIFIC INSTRUMENTS.

P. J. Chen (1721), "On Second Sound in Materials with Memory," Vol. 21, No. 2, ZAMP.

T. S. Edrington (2625), "Setting Threshold Levels According to Mean First-Passage Time," Vol. AES-6, No. 3, IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS.

## SHOPPING CENTER

**CLASSIFIED ADVERTISING**  
Deadline: Friday noon prior to week of publication unless changed by holiday.  
A maximum of 125 ads will be accepted for each issue.

**RULES**

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

### FOR SALE MISCELLANEOUS

BUNK BEDS; sectional sofa; rocker. Taylor, 299-5559 after 5.

AMPEX tape playback deck, 900 series, plays stereo & monaural tapes, \$50. Sinnott, 299-1300.

30-06 AMMO, box of 20 rounds, \$2, total of 5 boxes. Smailer, 299-8413.

CANNON 35mm 1.8 lens, range finder, 1/1000 speed, \$45. Liquori, 256-3613.

TIRES, 4 gen. dual 90's, 7.50x14; 4 Firestone safety champion 8.25x14; all have tread, \$2 ea. or all \$12. Gillespie, 298-8485.

DELTA 10" table power saw plus 6" jointer attached, plus \$100 worth of molding cutters, \$350. Hainlen, 255-6988.

CLOTH TOP for Jeep. Kurovski, 256-7295.

'67 HONDA 160 converted to 175, set up for dirt, have tail light, \$250. King, 298-2991.

BENDIX IRONER (mangle), \$60; boy's 20" bicycle w/training wheels, \$10. Smith, 299-7151.

PUSH lawn mower, \$10. Oberst, 1105 Espejo NE, 299-1224.

30 CAL. BULLETS, 140 gr., \$8/1000 or \$1/100; powder, Hodgdon, H-57 (use 4320 data), \$1/lb.; targets, many sizes. Ristine, 298-8383.

REFRIGERATOR TYPE AC for windows, needs motor, \$10. Eaves, 299-7728.

2 & 4-POUND styrofoam in irregular blocks, approx. 25 cu. ft. total, suitable for boat flotation, \$10. Erdman, 298-3097.

DESK, 20x48", \$40; sofa, \$50. Pope, 255-6702.

CUSTOM TENT for VW campmobile, new, never used, regular price \$260, sell for \$150. Goodwin, 256-2216.

TABLE SET: 2 step tables, 1 end table, mahogany finish, \$20; end table, mahogany finish, \$5; trunk 34"L, 23 1/2"H, 20"D, \$10. Stark, 299-5953.

12"x17" OVAL BRAIDED RUG, \$35; 11' braided rug hall runner, \$5. Nelson, 255-2364.

BICYCLE, Schwinn, girls 20", thorn-proof tubes, blue, \$25. Daut, 255-2529.

45# camouflaged wing bow, left-handed w/Bear bow quiver & 1 doz. Bear field & razorhead arrows, \$27. Allen, 299-8747.

FREE DOG: affectionate, medium size, 4-yr.-old spayed female, black, white & brown. Steck, 299-2313.

CAMP TRAILS backpack & frame, \$25; Gerry 3# sleeping bag & stuff sack, \$60. Nielsen, 255-2045.

4-BBL. CARB., manifold, air cleaner for Olds 394 cu. in. engine, \$20; Jeep trans. w/OD, \$15; or trade for auto air conditioner. Frasier, 299-6933.

INTEGRATED CIRCUIT stereo FM-AM receiver, 64 watts peak, 20-40,000 response, walnut case, \$125. Peay, 298-4112.

GIRL'S 26" bicycle, w/headlight, basket, \$25. Laskar, 299-1024.

GARAGE SALE: moving, chest, VW trailer hitch, dishes, books, much more, near Menaul & Eubank NE. Dietzel, 9925 Leyendecker NE.

TWO part Toy Manchester Terrier pups, female tiny, male larger. Arnold, 282-3940.

PREMIER DRUM SET, 1/2 original price. Hartman, 296-3810.

PAIR concave picture frames, 22"x16", \$20; Harvard Classics, 51 vols., bookcase, \$25; oak dining table, 6 chairs, \$50. Porter, 299-7985.

SINGLE horse trailer, \$95; Western saddle, \$100; Olds recording trumpet, \$175. Bernard, 296-1385.

MILK GOAT, over 1 gal. a day. Mora, 842-9736.

PUP TENT, 2-man, heavy duty, used twice, \$6. Guttman, 299-7031.

PORTABLE TYPEWRITER; Practiflex 35mm camera; elec. lawn mower; camp stove; tent; port. elec. range for trailer. Hall, 298-3774.

TWO 8.15x15 tires; 35 mm slide camera; stereo speakers. Snelling, 268-5895.

REG. Miniature black poodle puppies, whelped June 1, 2 females, 1 male. Hill, 299-8870.

TABLE: steel shelves; cartop carrier; 2 carbide; stroller; speaker w/cabinet; unicycle; 2 VW rims; boy's bicycle. Bushnell, 298-9631.

80 USED CONCRETE BLOCKS, 10c each. Weart, 298-0614.

BAY GELDING, gentle for children, and lively for adults, good home important, \$165. Mumm, 256-3177.

'69 CARDINAL 15' camper trailer, brakes, range & oven, sleeps 6, \$1495. Roberson, 299-3344.

16 1/2' SAILBOAT molded fiberglass foam flotation, handles 4 or 5 adults comfortably, ready for the lake w/sails, trailer, all rigging, \$800 or best offer. Shuster, 268-8491.

BOAT, 10' aluminum w/oars and car top carriers, \$40; Colt revolver, .38 special, \$50. Will trade for old guns. Zaluga, 344-1564.

TAPE RECORDER, Akai X-355, 3-motor, cross field heads, auto, reverse & shut off, remote control, \$225. Gardner, 344-2547.

JUDSON electronic ignition system, 12-volt, negative ground; 2 F70:14 tires, used. Fuller, 256-1593.

FOLDING GAME TABLE, seats 8, felt, converts to dinette, 4 oak chairs, \$35; chrome dinette, \$35; bar; glasses, cabinet, liquor cabinet, refrig., \$129. Rush, 10004 Woodland NE.

STEREO TAPE RECORDER, Roberts 1725-III w/microphones & speakers, 1 yr. old, \$180. Steele, 877-1225 evenings.

TASCO 60mm telescope, tripod, carrying case, up to 500X. Olsen, 265-3508.

TUBULAR STEEL constructed wire covered dog run, 7'x7'x14'; twin beds; chest of drawers; pair of Army field phones. Wilson, 282-3225.

USED bathroom washbasin & plumbing, basin has small hairline crack but does not leak, \$10. Erickson, 299-6824.

'59 BUICK SERVICE & chassis manuals, both \$4. Bassett, 898-1840.

**CARS & TRUCKS**

'66 FALCON CLUB WAGON, big engine, R&H, new battery, extra wheels, tires, service manual, \$1350. Mendel, 265-3840.

'70 HORNET, loaded. Lewis, 255-3483.

'67 GTO, 400 cu. in. engine, 4-spd., PS, PB, tape deck, bucket seats, console. Milesosky, 255-8904.

'55 CHEV., in use now, but son enlisting in Navy, make offer. Gray, 299-7035.

'68 TRIUMPH GT6, 4-spd., wire wheels. Kohut, 298-0695.

'61 FORD station wagon, PS, PB, AC, \$400. Hart, 268-5077 after 5.

'59 DODGE pickup, \$350. Chavez, 242-6078.

'60 PONTIAC, \$90. Bouton, 898-3562.

'64 FORD pickup w/camper shell, 3/4-ton, 4-spd., 6-cyl., \$1100. DePew, 255-3231.

'66 CHRYSLER 4-dr. HT, PB, PS, AC, radio front-back, less than book value, 58,000 miles. Minter, 256-9225.

DUNE BUGGY, 40HP synchro trans., red fiberglass body, make offer. Nickelson, 11420 Angelina Pl. NE, 296-2945.

'64 RAMBLER 4-dr. Classic 660, R&H, OD, factory air, tinted glass, 55,000 miles, white, 125HP, \$575. Baxter, 344-7601.

'61 CORVAIR, 4-spd., radio, HT, bucket seats, 150HP turbo charger, \$235. Deller, 298-3260.

'56 FORD wagon, R&H, AC, AT, \$125 or trade for freezer, motor bike, power tools or ? Faw, 299-7360.

'51 FORD V8 or sell new or rebuilt parts: battery, starter, carburetor, mech. & elec. fuel pumps, radio; also 4 tires and wheels & 2 snow tires. Jacobs, 296-4522.

'56 JEEP 4wd station wagon, 6-cyl., all new springs & brake linings, \$650. Weydert, 299-6211.

'59 FORD Country sedan, new trans., \$140. Roy, 268-7139.

'70 COACHMAN 11' camper, completely self-contained; '70 3/4-ton Dodge 4-wd pickup, side-mount compartments, AC. Muir, 296-2252.

'63 CHRYSLER New Yorker, everything, \$595; '55 Cad., stout, \$200; trade for decent pickup or both for \$800. Shummy, 265-1620.

'61 DODGE Lancer, 2-dr. HT, AC, slant six, new tires & white paint job, original owner. Barr, 298-3718.

'61 CHEVROLET Bel-Air, 2-dr. sports coupe, R&H, \$325 or best offer. Reynolds, 299-5157.

MERCEDES 190SL Classic '59 sports convertible, hard & soft tops, r&h, conditioned motor. Fitz, 265-1155.

### REAL ESTATE

3-BDR., 1 1/2 bath, newly decorated & carpeted, near Los Altos-Grant school, \$93 on 4 1/2% loan, hw/ floors, AC, walled, contract w/reasonable down, \$16,995. Harper, 298-0146.

3-BDR. HOUSE, lg. kitchen, single garage, \$14,700. Dietzel, 298-3295.

### WANTED

WOMAN'S 26" lightweight 3 or 5-spd. bicycle; girl's 24" bicycle. Sektan, 296-5396.

ALUMINUM CANOE. Baxter, 344-7601.

ALUMINUM CANOE; lightweight .38 cal. revolver. Tiefs, 299-2763.

DRIVING MEMBER for car pool in vicinity of Osuna Rd. & Second or Fourth St. Hofer, 344-8047.

'62 or later model Volkswagen, must be in good condition. Ballard, 299-4530.

FIBERGLASS MOTORCYCLE saddlebags. Bernard, 296-1385.

**LOST & FOUND**

LOST—Ladies Rx glasses w/black frames, '70 gold class ring w/ruby, Sandia safety Rx glasses, Rx sunglasses w/black frame in black case, man's brown billfold, brown leather key case w/keys. LOST AND FOUND, tel. 264-2757, Bldg. 832.

FOUND—SMALL gold earring w/amethyst stone. LOST AND FOUND, tel. 264-2757, Bldg. 832.



COSTUMES are not required for the Beachcombers Ball at the Coronado Club Aug. 15 but prizes will be awarded for the best ones. Peggy Stevens (5310) is a likely winner.

### Coronado Club Activities

## Wear Your Grass Skirts to Beachcombers Ball Aug. 15

Dinner, dancing, swimming, two floor shows with grass-skirted Polynesian girls — all this will be part of the annual Beachcombers Ball at the Coronado Club Saturday, Aug. 15.

Dinner will feature shrimp cocktail, baked salmon, fried clams and corn on the cob plus assorted salads and fruit.

Herb Remington and the Beachcombers will play for dancing and present two shows featuring Melanie and Lia, called "triple threat wahinies" in the publicity package.

The blast starts at 7 p.m., ends at 1 a.m. Costumes are not required but prizes will be awarded for the best ones anyway. Tickets are \$4 for members, \$4.50 for guests.



Herb



Melanie



Lia

\* \* \*

### Social Hours

Tonight the Club's famous chuckwagon roast beef will top the buffet while Phil Graham makes the happy music. Social hours start right after work on Fridays with special prices in effect until 9 p.m. The buffet costs \$1.75 for adults, \$1.50 for kids.

On Friday, Aug. 7, Frank Chewiwie will be on the bandstand while manager Jim Noonan's special Italian food buffet is spread. Price is \$1.25 for adults, \$1 for children under 12.

Sol Chavez and the mighty Duke City Brass will play for dancing Friday, Aug. 14. Southern fried chicken will be the buffet feature.

In the meantime, Tuesday happy hours continue from 5 to 8 p.m.

\* \* \*

### Annual Meeting

Annual meeting of the Coronado Club membership will be held Monday, Aug. 3, starting at 8 p.m. New members of the board of directors will be elected.

Candidates include Jake Gonzales (4253), George Kinoshita (1221), Herb Filusch (9228), Don Hosterman (3134), Dick Coughenour (4143) and Max Newsom (1213).

Free refreshments will be served following the meeting.

\* \* \*

### Teen Go Go

Teenagers can dance or swim on Saturday, Aug. 8. The go go and pool party starts at 7:30 p.m., ends at 10:30. Member parents must pick up tickets for their youngsters.

\* \* \*

### Comedy Classic Night

"Duck Soup" with the Marx Brothers is the film scheduled Thursday, Aug. 13, starting at 8 p.m. Two episodes of the old Flash Gordon movie serial with Buster Crabbe will also be shown. Happy hour prices start at 7 p.m. It's free to members.



STEAK is the feature on menu and summer fashions the accompaniment at the Coronado Club during the noon hour Thursday, Aug. 6. Models include Mary Benton, left, and Stephanie Carter of Mademoiselle Agency. Special luncheon steak is being offered for 99 cents.

\* \* \*

### Bridge

Coronado Ladies bridge meets Thursday, Aug. 6, at 1 p.m. Duplicate bridge meets Tuesdays at 7 p.m.

### Bowling News

Liz Schellhase (daughter of Myron Schellhase, 9213) is competing in the national scholarship bowling tournament in Washington, D.C. for a \$1000 college scholarship. She qualified for the national tourney after winning the New Mexico championship recently. She was competing with graduating senior high school students with high scholastic standing.

For the past three years Liz has been a volunteer assistant coach with the Coronado Club junior bowlers.



PAT GOETTSCHÉ, president of Sanado Womans Club, invites all wives of Sandians to a "Portrait of Sanado" membership party Tuesday, Aug. 11, at 2 p.m. at the Coronado Club. Various Sanado groups will explain their interests. Call 299-5293 for more information.

## LAB NEWS

PAGE SIX JULY 31, 1970

### Conundrum Corner

- Cigarettes
- a. taste awful
  - b. are expensive
  - c. make me cough
  - d. and probably do more than that
  - e. all of the above
- I am
- a. rational
  - b. anxious to quit
  - c. convinced of health hazard
  - d. and would like to save \$
  - e. all of the above

Today's Conundrum:  
Why don't you quit?



PAST PRESIDENTS of the Coronado Club helped celebrate its 20th birthday recently with a cake cutting ceremony. From left are Harold Schulte (7614), Chet Fornero (4337), George Horne, Jr. (9413), Al Gruer (3260), club manager Jim Noonan,

Cliff Taylor (4252), current president Bob Banks (5100), Dave Tarbox (3200), Del Olson (1510), Ed Brawley (AEC), and Charlie O'Keefe (3123). About 350 people attended the Club's birthday party.