

Century Plants Lie A Bit About Their Age

Once upon a time there was this Phoenician dude named Cadmus and he and his wife Harmonia had a pack of kids and one of them named Agaue and one of her sisters decided their brother was a monster and proceeded to tear him apart, piece by piece. This is called sibling rivalry. For reasons not totally clear, this Greek work "agaue" today means noble, illustrious and brilliant and from it derives our word "agave" which, again for reasons not totally clear, describes a genus of plants native to the Southwest whose best known representative is the century plant. And we've got two of them outside the Tech Area cafeteria.

If you've hung in there up to here, then you probably know that the century plant bears, among other things, a misnomer because most species bloom as often as every seven years, depending upon growing conditions. The rosette of leaves at the base of the plant stores up over the years enough plant food for the huge flower stalks. For two months or so (May and June in the Southwest) the stalk grows rapidly — as much as 18 inches a day — attaining heights up to 40 feet. The candelabralike flowers vary from a yellowish-green through red to almost pur-

Don Cotter Will Head AEC Division



Don Cotter, Deputy Director of the Advanced Research Projects Agency of the Department of Defense, has been appointed Director of AEC's Division of International Security Affairs.

As Division Director, Mr. Cotter will be responsible for the AEC's efforts in intelligence analysis, arms control, political-military security affairs, and mutual defense agreements. He will also be the Commission's member on the United States Intelligence Board.

Starting in 1948, Mr. Cotter held a number of positions at Sandia Laboratories, including that of Systems Planning Director, Advanced Systems Research Director, and Manager of the Systems Engineering Department.

From 1966 to 1968 he was Special Assistant for Southeast Asia Matters in the Office of the Director of Defense Research and Engineering, Department of Defense. In July 1968, he received the Secretary of Defense Civilian Meritorious Service Medal for contributions to military technology in Southeast Asia.

Following a stint at Sandia as head of Systems Planning (100), Mr. Cotter became Director of Overseas Defense Research Office of the Advanced Research Projects Agency in February 1970, and was named Deputy Director of the Agency in August 1971. He assumes his new post with AEC on July 17.

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

ple. After flowering the plant withers and dies but suckers at its base insure new growth.

The century plant is grown here as an ornamental. In Mexico, however, large agaves are cultivated for other uses: fibers are taken from the leaf for cord or rope; soap is made from other fibers; the heart (flower bud) can be removed and roasted and tastes like a cross between a sweet potato and an artichoke

heart; and agave is the source of several Mexican drinks — pulque (a beer-like drink) and tequila and mescal, distilled liquors which will make your hair curly if it doesn't fall out first.

The plant grows best in a sandy loam and responds to good light and lots of water in the summer. •nt



ANDY BRECKENRIDGE (3113) stops to admire the blooming century plants in front of the Tech Area cafeteria.

Afterthoughts

This Curious Thing About Baseball--There's a plaintive letter in the paper this morning deploring the skimpy attendance at the Duke's baseball games, and it goes on to cite the attraction of our shiny new stadium and, really, some of you out there who are staying away in droves--well it just ain't fittin! The point is that we should feel some sense of obligation to support the Dukes, and implicit in this is the premise that a game played by 18 men with a ball and a bat is a Sacred Institution which honorable citizens pay homage to, chiefly through attendance.

I wish someone could show me how baseball is not a form of show biz and is somehow basically different from, say, the entertainment offered at the local movie house (which I feel no obligation to support either). Baseball is not like the Marine Band playing in the park for free--team owners field teams for profit and the complexities of the business (which it is) are such that teams are composed largely of players not native to the city they represent, a circumstance that tends to inhibit my spontaneous outpouring of frenzied affection for the home town team. Honest, I don't have it in for baseball--just knock off all the mumbojumbo about its being more than another form of entertainment. (Send all hate letters to: Editor, LAB NEWS).

* * *

Genus, Running Dogs of Imperialism; Species, Robber Barons; Subspecies, Rock Music Group--Under the groundrules of what people like to call the youth subculture, when a popular, establishment-type event (like a basketball game) elevates its prices, then the only proper reaction is cries of "rip off!", and maybe even a little demonstration. After all, those greedy capitalist pigs are exploiting us, right? Lately, our city has been favored by the appearance of several rock music groups and, as we all know, young people flock to performances because they "relate" or "identify" with the youthful musicians, suggesting a kind of parity of relationship in which both the young person and the musician share a common outlook. But in at least one respect, the rock musician is out of the very same economic mold that is so decried by his youthful admirers. In extracting six (or more) dollars from a fan who is probably not too well heeled to begin with, the rock musician shows a nicely honed appreciation of one canon of capitalism: charge all the traffic will bear. And the irony is that the exorbitant prices create not a murmur among the young--they don't even realize they're being had. *js

ALO Deputy Manager McCraw To Retire



A friend to many Sandians retires from AEC June 30. He is James McCraw, Deputy Manager of AEC's Albuquerque Operations complex since 1964. His successor will be announced later.

A native of Kelly, N.M., he attended grade school and high school at Cerrillos, where his mother for several years was principal of the high school. He was graduated from Albuquerque High School and attended the University of New Mexico, majoring in electrical engineering.

In some 41 years of government service Mr. McCraw has served variously with the Border Patrol, the Office of Military Government in Germany, and AEC. Last month Governor Bruce King presented the Public Service Award to him. He joined the Commission's Albuquerque Operations Office in 1951 as Director of Security. He became Ass't. Mgr. for Inspection and Storage Operations in 1956 and Ass't. Mgr. of Operations in 1959.

Mr. and Mrs. McCraw live in Albuquerque and plan to remain here. They are the parents of a daughter, Patricia, and a son, Michael.

Credit Union REPORTER

By Bill Prekker
President, Board of Directors

About The Regular Reserve Account

From time to time and almost invariably at annual meetings, questions are raised concerning the regular reserve account and the requirements for such a reserve. Under the Federal Credit Union Act and the Federal Credit Union Rules and Regulations a certain portion of earnings must be set aside in a reserve account as provision against bad debts. At the present time this provision amounts to 10% of the gross earnings until the reserve reaches 7 1/2% of the risk assets, after which the portion of gross earnings set aside is reduced to 5% until the reserve reaches 10% of the risk assets. "Risk assets" may be defined as loans to members and certain other receivables. "Gross earnings" are primarily made up of interest received from members on loans and income from investments.

The regular reserve account is, therefore, built up over a period of time as protection against default by borrowers and serves to protect the shareholder against such losses. Under the law, no one has any legal rights to this reserve during the time a credit union is active. Shareholders are compensated for use of their money through payment of the dividend.

In the event that a credit union must be liquidated, the law prescribes procedures and priorities. If all loans are collected and all other assets are converted to cash, the reserve may be distributed to shareholders. If assets are not fully convertible to cash or if uncollected accounts exceed the reserve, then there would be no reserve to distribute. Note however that since your credit union share accounts are fully insured, every shareholder would receive no less than the amount of his shares in the event of a liquidation.

Tellers windows in Financial Department 6020 will be closed Monday, July 3, from 8 to 10 a.m. in order to complete the fiscal year-end cash audits and other closing activities.

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as does norma taylor while

bill lasker takes/makes pictures

&

in livermore lorena schneider does all



THE SMILE is like a breath of fresh air, and Pat Montoya sort of nestles among the dozen or so species of respirators on display in the lobby of the Environmental Health Bldg. 869. Point of display is to emphasize need for particular kind of respirator for particular kind of atmospheric problem. Visitors are welcome, and if your work ever calls for use of respirator you are urged to study the display.

Sandians On Sandias

We like trails and wilderness, but we don't want new roads or timber cutting. Existing picnic sites (including the Juan Tabo one) should be improved, but forget the Crest Highway.

That's John Q. Sandian talking. The above is the composite reaction of the 125 or so people who responded to the May 12 LAB NEWS article on the Forest Service's Land Use Plan for the Sandia Mountains.

Several respondents said it wasn't easy — that they'd prefer an alternative that wasn't listed in the chart at all. But if we accept the choices given in the Land Use Plan, we as Sandians don't want the Juan Tabo picnic facilities removed; we favor closing of the "ecologically unsound" Highway 44 now routed through Las Huertas Canyon, but we dislike both the proposed Crest and Palomas Peak Highways. We thus face increasing traffic volume without a north, or Placitas, exit.

Sandians also favor Wilderness Study Areas, especially in the Canoncito management unit. We're not quite so sure about the Sandia Front and Osha units.

The greatest uncertainty (i.e., closest vote) is in the La Madera unit where we can't really decide between a new trail and enhancement of the wild turkey habitat. And we're not quite sure what should be done with Highway 536 in the Capulin unit and whether more snow recreation sites are desirable there.

But, in summary, Sandians lean toward trails, wilderness, and natural beauty rather than toward roads, timber cutting, and resource development.

The LAB NEWS will accept responses to the Land Use Plan (available in the Tech Library) until June 29 and will transmit the whole package to the Forest Service by the July 1 deadline. On July 26, Ranger Jack Miller will discuss the plan during the noon hour in Bldg. 815.

Take Note

Jake Young and Ernie Mares (both 7143) were strolling outside their building in Area III when Jake happened to glance down, just in time to see a rattlesnake make a pass at his leg. Both men drew back, after which they dispatched the creature to wherever it is that snakes go. Those who work in outlying areas of the Base are aware that snakes show up from time to time, but a little extra caution this time of year probably isn't a bad idea.

* * * * *

Pauline Aragon (4542) did her bit for Women's Lib last month when she reeled in a 21-inch rainbow trout on Dulce Lake. Fellow anglers, mostly men, were chagrined. "Greatest thrill of my life," Pauline says, "I was so excited I cried." The fish weighed four pounds, was ranked 7th in the state in May.

* * * * *

Hale Farley (5213) talked recently to students in the Careers in Science class at Hoover Middle School about his job as a laser technician. He described the two types of lasers with which he works and also discussed the laser plasma experimental chamber and detectors.

* * * * *

"Skiing Western USA," a film, will be shown during the noon hour on Wednesday June 28 in Bldg. 887, Rm. 121. A snowball fight will follow.

* * * * *

Lots of Nature Trails in the Sandias, but this one is different. It's for handicapped people. It's short with a looping path that brings you back to a parking lot, not much slope, lots of signs — big print plus Braille, and things to touch as well as see. Enter Cienega Picnic Area (beyond Sandia Park) and turn right. It's on the right just before the turnaround.

* * * * *

Roy Allison (1832) recently attended the National American Society for Quality Control conference in Washington, D.C. He served as chairman of the National Services Committee and on the Membership Committee. The National Services Committee, working at the ASQC section level, organizes quality control consulting services for non-profit organizations, civic service associations, and educational groups.

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ELLIOT HARRIS (7544) swept top prizes in three categories in a recent photo contest conducted by the National Community Services organization. He won two firsts, two seconds, and two third place awards for color slides used in Albuquerque's UCF campaign. Entries from more than 2200 agencies were in the contest.

Recreation Notes

FUN & GAMES

The Sandia Labs Tennis Association opened its '72 tennis ladder with the Annual Spring Tournament, played during two weekends last month. Results: Singles winner was Charlie Chavez (4337) over Bob Scipes (4123); consolation round went to Fayne Shead (7451) over Paul Peercy (5152). Winners in the doubles competition were Don Johnson (1435) and John McKiernan (1651) over Charlie Chavez and Bob Scipes; consolation round went to Eric Jones (5214) and Dick Palmer (5214) over Dan Blazek (7624) and Kelly Davis (1821).



LOWERING DAY and high drama seem the proper mix for this setting — the Adobe Theatre in Corrales. The dramatic season runs through the summer in the former church and it includes Slow Dance On The Killing Ground, now playing, and Home which starts next week with Bill Carstens (3150) in a starring role. Plays are performed Thursday through Sunday nights; for reservations call 898-3323.

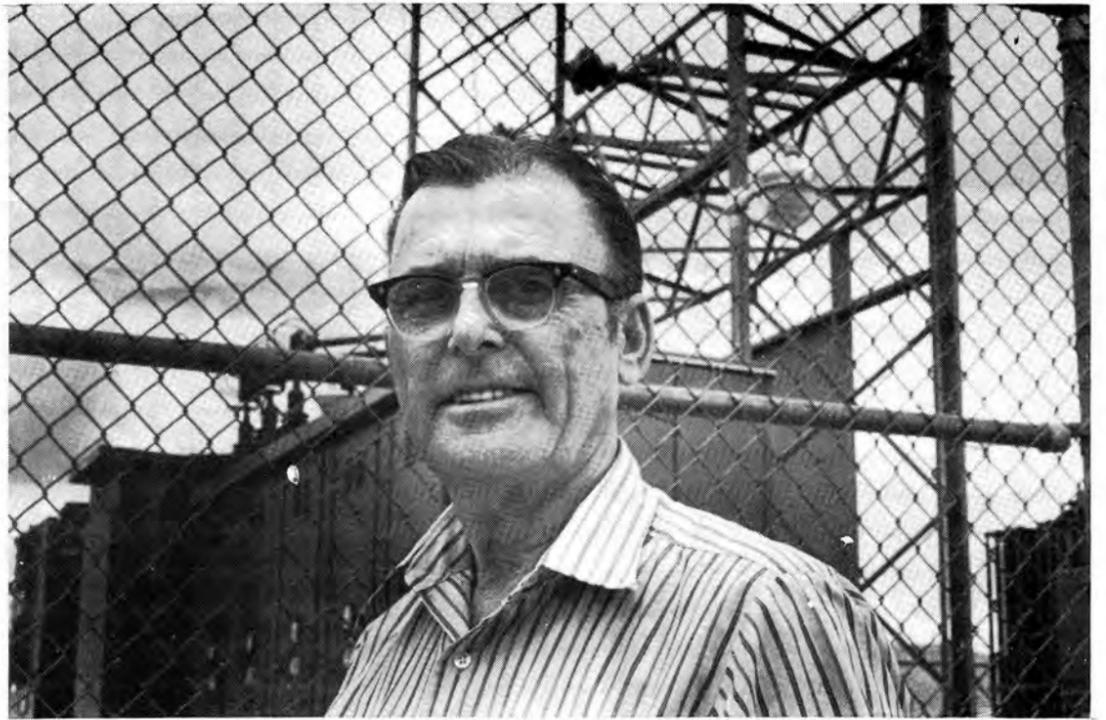
Retiring



Santiago Anaya (4515)



Albert Catuna (1832)



Joy Lewing (4511)



Grady Gatlin (4614)



Everett Massey (9461)



Ivan LeValley (7512)



Fred Sweet (9134)



Haddon Redding (4143)



Roscoe Brooks (7113)



Antonio Villesecas (4514)

Speakers

H.D. Arlowe (9323), "Dynamic Data Acquisition"; D.M. Darsey (9344), "Minicomputer Control and Measurement System for a High Accuracy Programmable Centrifuge"; T.S. Rathke and M.H. Woodward (both 9344), "Automation of Velocity Transducer Calibration," National Aerospace Instrumentation Symposium, May 15-17, Miami Beach.

O.M. Stuetzer (1440), "Cycles in Technology," LASL Section, IEEE, May 16, Los Alamos.

D.O. Smallwood (9332), "A Transient Vibration Technique Using Least Favorable Responses," 1972 SESA Spring Meeting, May 22-23, Cleveland.

J.C. Swearingen (5165), "Mechanical Behavior of 6061-T6 After Very Rapid Heating," Univ. of Washington, Seattle, May 22, and Sandia Labs Livermore, May 25.

R.J. Thompson (1722), "Computing Meteorological Effects on Aircraft Noise," International Conference on Aerospace and Aeronautical Meteorology, May 22-26, Washington, D.C.

D.W. Ballard (9461), "Composite Materials — A Real Challenge for Nondestructive Testing," ASM Chapter, May 23, Los Angeles.

J.E. Schirber (5150), "Pressure Induced Electron Transition in AuGa_2 "; Schirber and G.M. Beardsley (5151), "Effect of Pressure on the Fermi Surface of Cs"; V.H. Schmidt (5132), "Knight Shifts in CeMg, LaMg, LaZn, and LaAg"; R.L. Park (5331) and J.E. Houston (5332), "A Comparison of Soft X Ray and Auger Electron Appearance Potential Spectroscopy"; S.T. Picraux (5111), "Ion Implantation Disorder in GaAs, GaP, and GaAsP"; T.P. Wright and M.M. Widner (both 5231), "Numerical Simulation of Counterstreaming Plasmas"; R.C. Knauer (5154) and R.R. Bartkowski (5132), "Magnetic Susceptibility Measurements on the $S\text{-}\frac{1}{2}$ Linear Chain Antiferromagnet bis-(N methylsalicylaldiminato)-copper(CuNSAL)"; R.A. Langley (5111) and R.W. Blewer (1413), "Apparent Interfacial Diffusion of Thin Vanadium and Erbium Films"; L.C. Bartel (5151), "Pressure Dependence of the Curie Temperature in a Modified Zener Model of Transition Metals"; R.S. Blewer and J.W. Guthrie (both 1413), "Evidence of Interfacial Diffusion of Thin Film Erbium and Vanadium"; W.J. Camp (5151), "On the Statistical Mechanics of Ferroelectric Phase Transitions"; G.J. Thomas (5522) and S.T. Picraux (5111), "Ion Channeling and Electron Microscopy Studies of Epitaxial Silicon on Spinel"; R.J. Baughman, R.K. Quinn, H.T. Weaver and R.C. Knauer (all 5154), "Preparation and Magnetic Properties of Platinum Silicide"; H.T. Weaver (5154), "NMR Study of Sacandium-Hydrogen Solid Solutions"; J.P. Van Dyke (5151), "A Local Pseudopotential Model for the Fermi Surface of Pb"; J.A. Borders (5111), "Stopping Cross Sections of 0.4-2.0 MeV Helium Ions in Tungsten"; J.F. Cuderman (5213), "Ionization of K Atoms in Collision with Ne, A, Kr, and Xe"; N.S. Gillis (5151), "Static & Dynamic Properties of a Paraelectric Material"; G.E. Laramore (5151), "Low-Energy Electron Diffraction Intensity Profiles and Rotation Diagrams for the (100) Face of Aluminum"; A.C. Switendick (5151), "Energy Bands for Cubic Laves Compounds ZrZn_2 "; K.L. Brower (5112), "EPR of Defects in Ion Implanted Silicon"; M.M. Widner and T.P. Wright (both 5231), "Theory of Laminar Interactions in Counterstreaming Magnetized Plasmas, and Numerical Simulation of Counterstreaming Plasmas"; G.W. Arnold (5112) and F.L. Vook (5110), "Electronic Stopping Measurements of Charged Particles in Radiophotoluminescent Glasses"; P.D. Thacher (5113), "Origin of the Electrooptic Memory Effect in Ferroelectric Lead Lanthanum Zirconate Titanate Ceramics," APS Meeting, June 5-7, Albuquerque.

Tech Library Displays Hugh Pierson Paintings

Pictures now on display in the Tech Library Bldg. 804 are the work of Hugh Pierson, a chemist in Composites Materials Development Division I 5313. Hugh paints primarily for relaxation, but he's been working seriously at it for the past six years.

The pictures on display include some portraits, landscapes and symbolic abstraction.

"They are really very mild," Hugh says, "I keep the wild stuff at home."

Hugh likes to back pack into the New Mexico mountains and make sketches. Later he works from these sketches for his landscape ideas. His only formal training as an artist was a couple of sessions at the academy at San Miguel de Allende, Mexico, during summer vacations.

Take Part in a Miracle — Let There Be Sight

The Sandia response (over 1600 volunteers) to the recent appeal for blood donors prompts us to tell you about another donor program — The New Mexico Eye Bank, sponsored by Lions of New Mexico.

The donation of eyes at the time of death is a generous action which may restore the sight of two people. Donation is a simple procedure, requiring only the signature of the donor and two witnesses.

The need for donated tissue is vital, as human eye material is the core of an eye bank program — a patient cannot buy a cornea. Surplus tissue is also preserved for detached retinal repair or other surgical procedures.

The Eye Bank operates on a 24-hour, 7-day basis because the time element is so important. Notification to the Eye Bank by a physician or hospital that an eye donor has died sets off a fast-moving chain of events involving many people: obtaining authorization from next-of-kin for removal of the eyes, which must be done within three to five hours following death; transportation of the eye tissue by Lions Club members and Highway Patrolmen; a call from the Eye Bank to the

eye surgeon and his call to his patient, summoning him or her to the hospital. Within the next 48 hours two corneal transplants may be performed. If no immediate need exists locally the Emergency Eye Bank Radio Network passes the word to Eye Banks across the country. The Bank needing the tissue arranges for its immediate transportation before the 48-hour time limit expires.

Any eye from an person of any age can be used — even those who have had a cataract operation or a corneal transplantation, or who wear glasses. If a donated eye is diseased or cannot be used for grafting, it is carefully studied to help find causes and cures for blindness. All religions have approved the procedure. Eyes cannot be designated for a specific person; they are used for the next patient on an eye surgeon's list. The Eye Bank furnishes eyes free to patients and hospitals needing them. They are never bought or sold.

Information and pledge cards are available in the LAB NEWS office, local Lions Clubs, or the New Mexico Lions Eye Bank, 5200 Gibson SE, Albuquerque, 87108. •nt

Those Were the Days . . .

From LAB NEWS, Spring 1952

—An improvement program for streets leading to Sandia Base has been given the go-ahead sign by the government. Wyoming Street, Gibson Avenue and Eubank Drive, all leading to gates to Sandia Base, will be surfaced. . .

—Charles W. Campbell, 1920, (now 4000) elected president of the Coronado Club Board of Directors.

—Two hundred thirty-three employees added to rolls during June 1952.

—Joe Paruta, 2352, (now 4154) is the proud owner of a new 1952 Ford. He plans to break it in on his trip to Kansas where he and his family will spend their vacation.

—Coronado Club events: Freddy Martin dance, square dances, bingo nights, fried chicken dinner, Men's Night (featuring free beer, soft drinks, popcorn and pretzels), and afternoon bridge and canasta sessions.



AMBULANCES tended to the functional back in '52. If you survived the jolting ride you had it made. Art Chacon, the driver, is now retired, and Nurse Bernice Beeson (3302) stands at the ready.

ART created by Hugh Pierson (5313) is currently on display in the Tech Library, Bldg. 804.



Touring Northern California . . .

Mendocino County is known for its rugged coastline — high cliffs, deep bays, and rocks that jut into the sea. The county begins about a hundred miles north of San Francisco. Take Highway #1 straight up the California coast and return to Bay Area via Highway #101 or reverse routes.

- A. Gualala. Salmon and steelhead fishing. Quaint old hotel. Gualala River Redwood Park.
- B. Point Arena Lighthouse. Second most powerful lighthouse in U.S., juts 115 feet up from a 40-foot cliff. Operated by Coast Guard, it is open 1 - 4 p.m. weekends and holidays.
- C. Mendocino. Lumber port settled in 1852, now flourishing artists' colony. Neat frame buildings reflect New England flavor.
- D. Pygmy Forest Reserve. Miniature growths of pine and cypress, only a few inches tall though full grown — chemicals in soil cause dwarfing.
- E. Russian Gulch State Park. Good camping; natural blowhole and a waterfall cascading beneath redwoods add to scenic enjoyment. In 1811, Russian settlers ran a fur warehouse here.
- F. Mendocino Coast Botanical Gardens. 47 acres of rhododendrons, begonias, fuchsias, lilies, ferns. Two miles of winding paths with ocean views.
- G. Ft. Bragg. Western terminus of California Western Railroad's "Skunk" (diesel) and "Super Skunk" (steam) trains which run through redwood forests, offering 40 miles of scenery along a route inaccessible to automobile travel. Reservations advised. One of the largest redwood lumber mills; free guided tours; museum featuring a history of early coastal lumbering and shipping. Noyo, fishing port south of town, offers charter boats for ocean fishing.
- H. Piercy. 250-foot tree house. Steelhead, salmon and trout fishing. Standish Hickey State Recreation Area.



WESTERN ELECTRIC CORTEL REPRESENTATIVES Jack Sauchelli, second from left, and George Jones, right, visited Sandia/Livermore recently for a look-see of the new educational television facility which brings live, graduate engineering courses for degree credit from the University of California at Davis to Sandians at Livermore (about 100 miles). CORTEL provides guidance and consultation for all corporate television activities of WE and AT&T. Shown with the visitors are training specialist Jim Smith, left, and Marlin Pound, supervisor of Training and Benefits Division 8236.

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- I. Leggett. One-Log House of Ripley's "Believe It or Not" and the Chandelier Drive-Through Tree in Underwood Park.
- J. Mendocino National Forest. Hunting and fishing area.
- K. Willits. Eastern terminus of the "Skunk" trains. A large frontier museum, open from 9 a.m. to 5:30 p.m., Sunday through Friday, and 9 a.m. to noon, Saturday.
- L. Ukiah. Lake Mendocino (five miles north), water sports center. Black Bart Rock (10 miles north) reported to have served as a hiding place for the legendary bandit.



SAFETY IS FOR THE BIRDS? At least that's what the mother bird thought and maybe she still does. However, this time the hard hat didn't prove to be safe. A few days after this picture was taken an "uncleared" cat entered the hold area near Bldg. 963 and got the young ones. Hat belongs to George Rafal (8257).

Congratulations

Mr. and Mrs. Dick Jones (8332), a daughter, Diana Marie, May 7.
 Mr. and Mrs. John Teodoro (8431), a son, Tadashi Jeffrey, May 6.
 Annette Freitas (8212) and Jack Hicks, married in Reno, Nev., May 13.
 Mr. and Mrs. Dick Silva (8257), a son, Frank Joseph, June 11.

Speakers

Jim Shelby (8331), "Helium Migration in Borate Glasses," 74th Annual Meeting of American Ceramic Society, May 8, Washington, D.C.

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Sympathy

To Bill McGuire (8431) for the death of his father in Medford, Ore., May 21.
 To Pete Oliver (8423) for the death of his father-in-law in Livermore, May 17.
 To Lou Rosnoski (8412) for the death of his wife in Livermore, May 29.



CAREER DAY AT SANDIA/LIVERMORE — Three high school students, Eric Telchman, Cathy Kirks and Deborah Perkins, spent a day recently with Evelyn Ostrander (8217), Wes Hodges (8261), and Don Wagner (8212) as part of a Career Day service project sponsored jointly by the local schools and the YMCA Men's Club. Some 120 students participated in the project, along with about 100 businessmen. Here Gary Drummond (8322), left, explained computer center operations.

Committee Action - Vintage '76

Action by committee and the need to change drafts is not unique to our time. This type of activity has been going on at least since the Declaration of the Thirteen United States of America, or as we know it, the Declaration of Independence, was signed in 1776.

Here is a chronology of the events leading up to the signing:

June 7, 1776 — Richard Henry Lee, Virginia planter, introduced a resolution in the Continental Congress stating "that these United colonies are, and of right ought to be, free and independent states. . ."

June 10 — A committee headed by Thomas Jefferson was established to express the sentiments of the June 7th resolution in a declaration of independence.

June 28 — Jefferson's committee reported back to the Congress with a draft.

July 2 — The resolution introduced by Lee was adopted by Congress, and the colonies

were independent.

July 4 — After making 86 changes and eliminating 480 words, the Congress approved the Declaration.

July 19 — The Congress adopted a resolution which stated "That the Declaration passed on the 4th be fairly engrossed on parchment . . . and that the same, when engrossed, be signed by every member of Congress."

The 56 signers wrote "For the support of this Declaration, with a firm Reliance on the Protection of divine Providence, we mutually pledge to each other our Lives, our Fortunes, and our sacred Honor."

Five of the signers were captured by the British and executed as traitors, nine died in battle, and two lost sons in the Revolution. The homes of 12 were burned to the ground, one had a fleet of ships destroyed by the British, and several died in poverty. Back in those days it was tough being on a committee.

Sandians In The Swim

Again this year Sandians participated in the second annual Livermore Aquathon. Bill Wilson (8334) directed the event and publicity was handled by Bob Schultz (8412). And Karen Medeiros (8332), Wendy Grady (8181) and Renee Canfield (8334) served as hostesses.

John Schipper (8341) participated in the 18-hour night marathon swim (36 miles) and Pete Mattern (8331) was official photographer. To raise funds participants swim a given distance to redeem a pledge for a specified amount of money for each lap completed.

This year's Aquathon saw four world class swimmers in attendance — Debbie Meyer, Ellie Daniel, Mike Burton and Mark Spitz. The four demonstrated their swimming specialty and presented awards.



MARK SPITZ, winner of the Sullivan Award last year and holder of seven world swim records, presents a trophy to Jim Turnbull (son of Herb Turnbull, 8321) at the 2nd Annual Livermore Aquathon.

Retiring



Gus Brockmoller (8421)

Jake Ludington (8433)

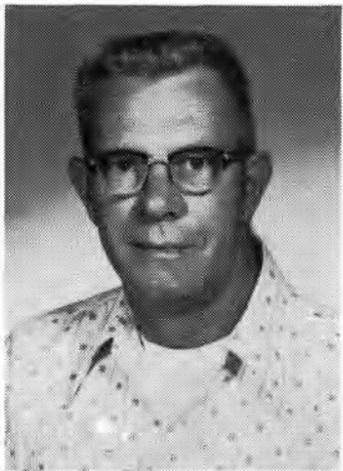
Jim Munyon (8333)

Take Note

For the second straight year, the first and second place winning teams in the Sandia Mixed Handicap Bowling League's winter competition were the "Hugger Muggers," captained by Bill Moore (8178), and the "Tigers," captained by Roger Baroody (8160).

For the Sandia men, individual awards were won by Don Knaple (8161) for his high-scratch game of 269; Bob Wood (Sandia guard service) for high-scratch series, 645; and Bill Moore for high-handicap series, 707.

Taking honors for the women were Gayle Tschritter (wife of Ken Tschritter, 8313) for her high-scratch game of 223; Jan Inzerilla (8323) for high-handicap game, 257; Mary O'Shea (8235) for high-scratch series, 548; and Janet Rego (a former Sandian) for high-handicap series, 653.



Joseph Langdon — 7122 25



Isabelle Fuller — 4331 15

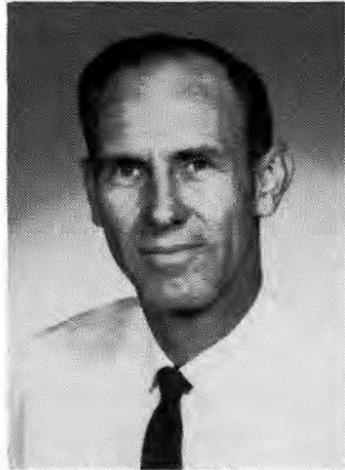
MILEPOSTS

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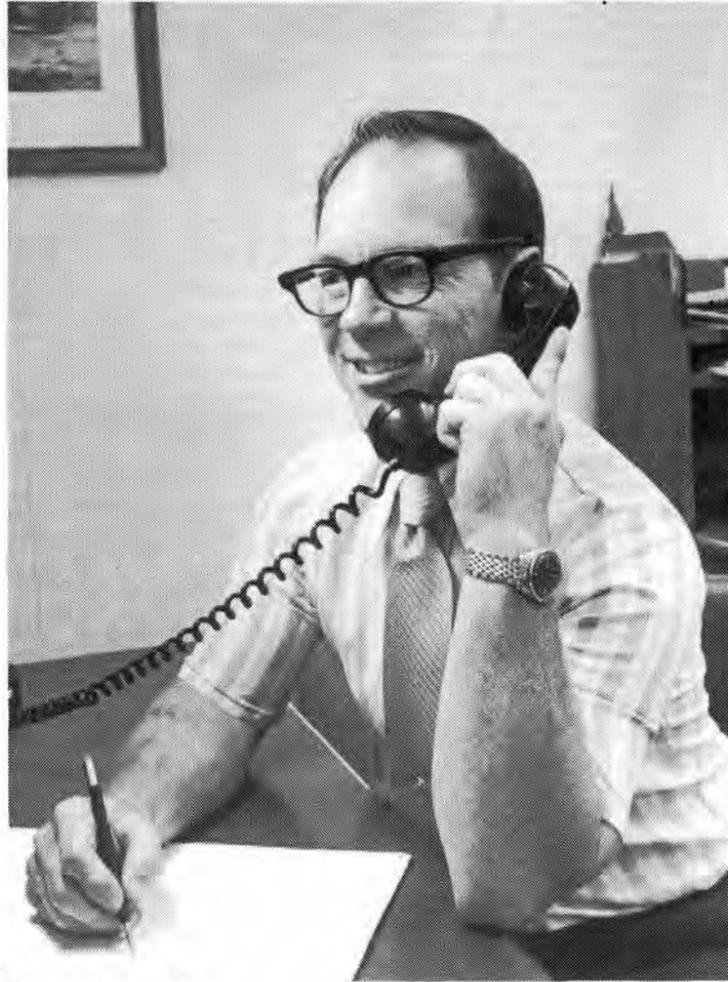
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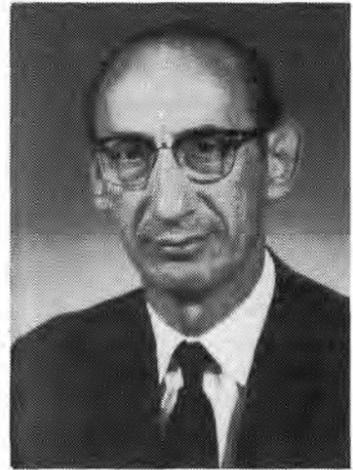
Fred Martinez — 4141 20



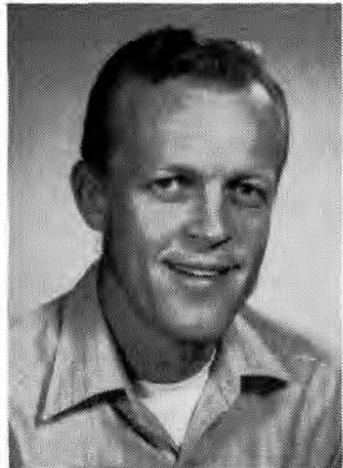
John Johnson — 9132 15



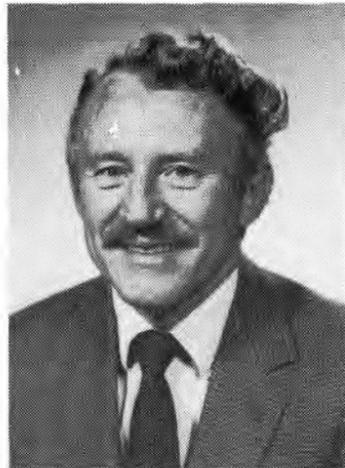
Norris Rose — 3113 15



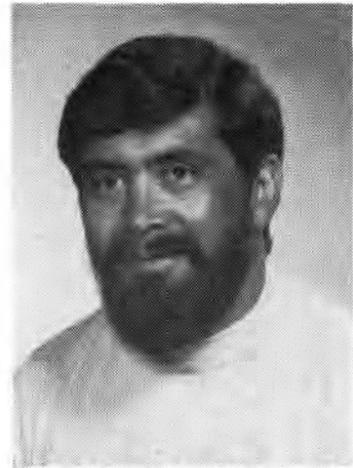
Herman Levine — 5324 15



Carl Duimstra — 9126 15



Jack Rex — 3251 10



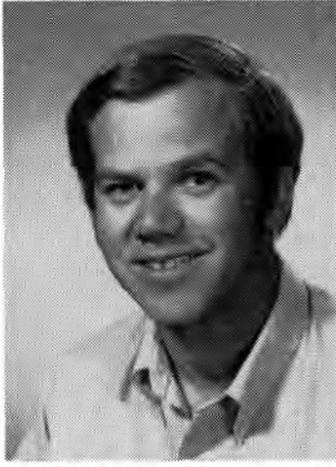
Eulojio Sanchez — 5411 15



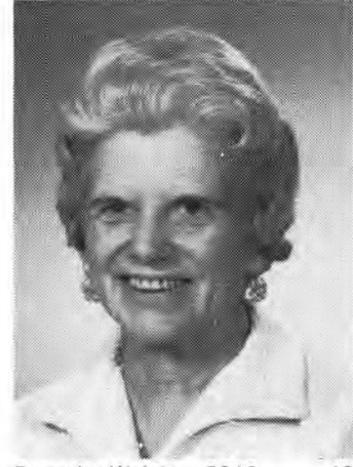
Richard Tullar — 1514 15



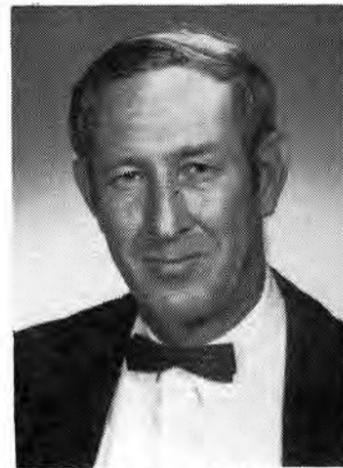
Bruce Barth — 1423 20



Dave Skogmo — 1932 10



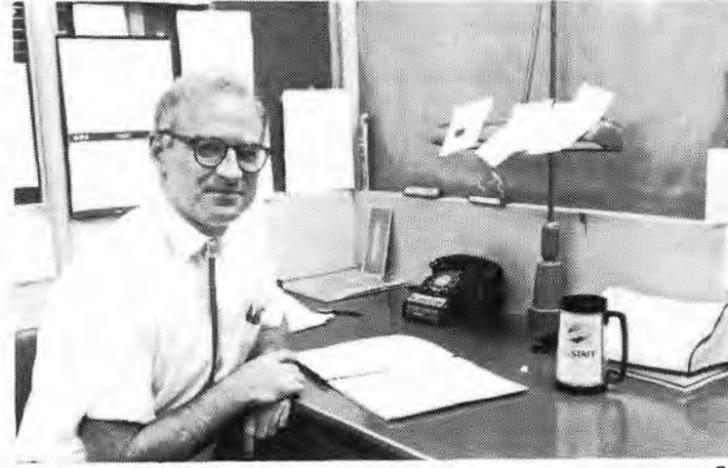
Dorothy Welch — 3310 10



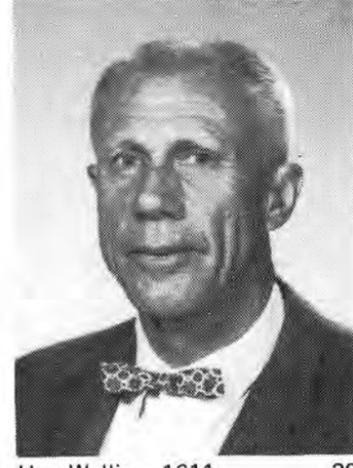
Warren Taylor — 7451 20



Ramon Baldonado — 1612 15



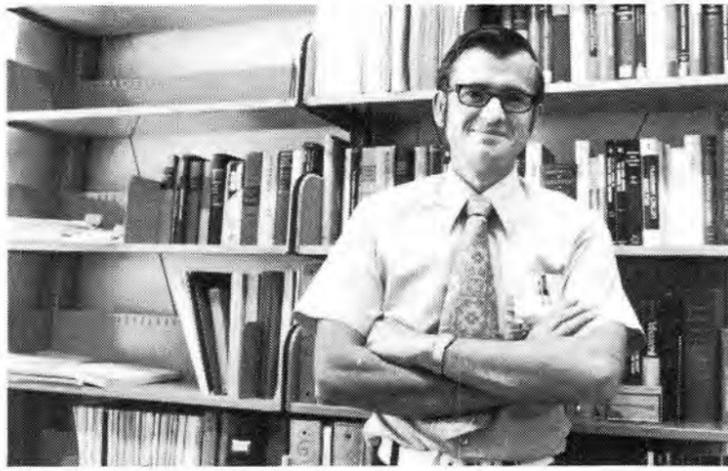
Robert Fox — 1325 20



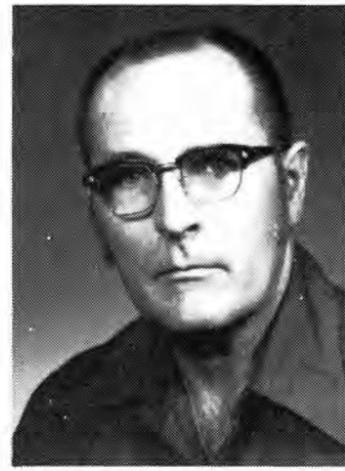
Hup Wallis — 1611 20



Russ Richards — 8421 15



Charles Gwyn — 1933 10



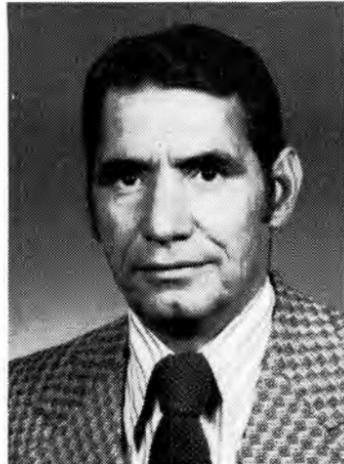
Elmer Pitts — 7141 20



R. C. Schreiner — 4115 15



Ken Shriver — 8168 15



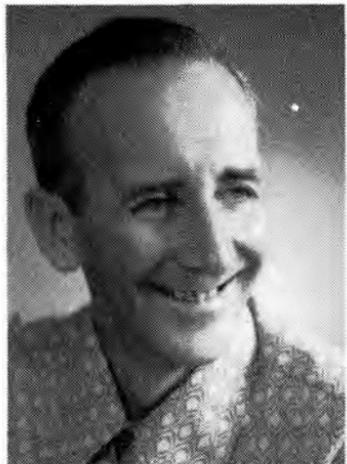
Leo Arellano — 4113 20



William Stevens — 1650 15



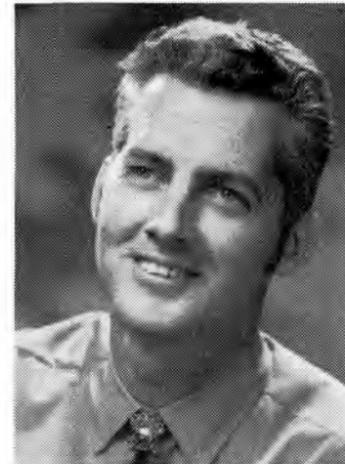
Judy Wills — 7633 15



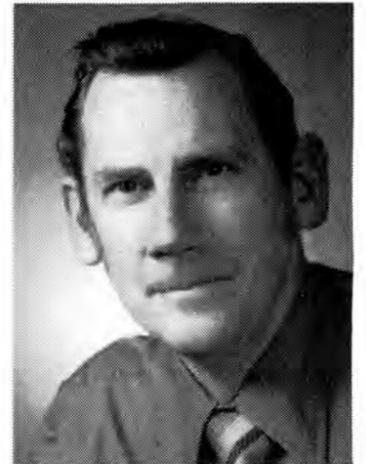
Bill Long — 8182 15



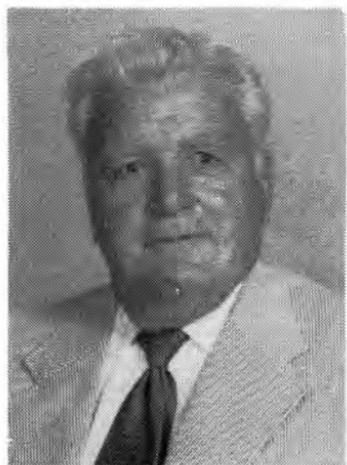
George Ingram — 5131 15



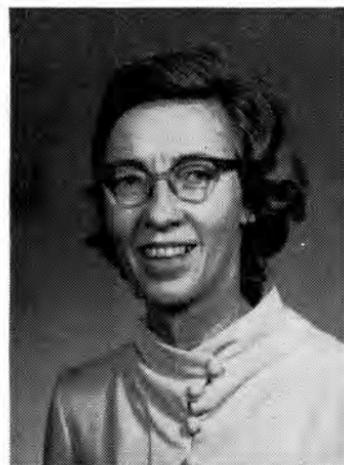
Will Irwin — 8421 10



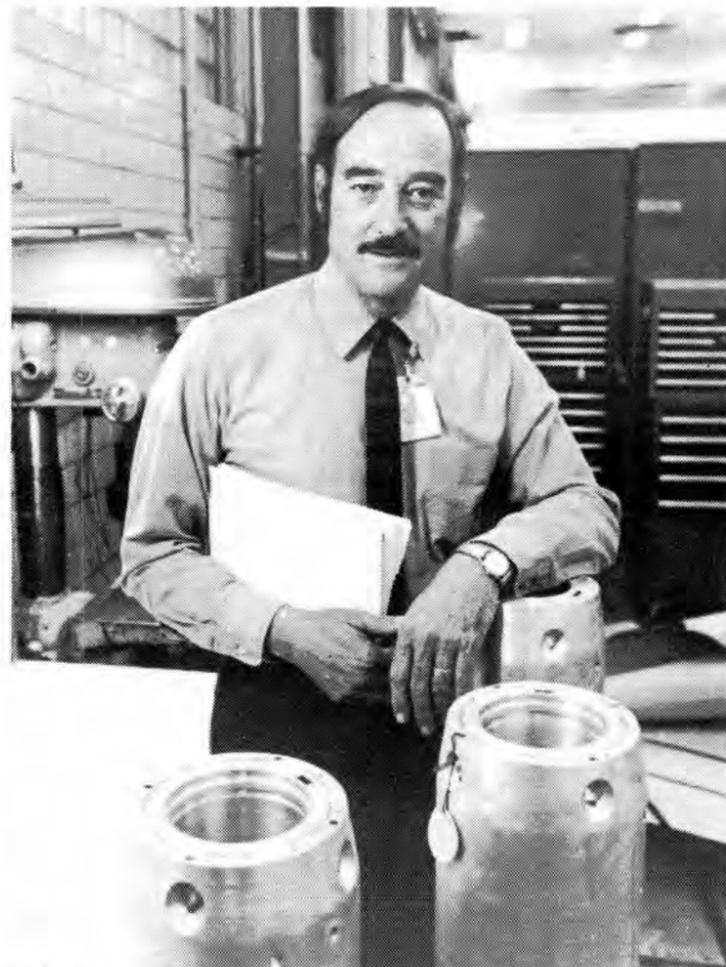
Dick Feil — 8181 10



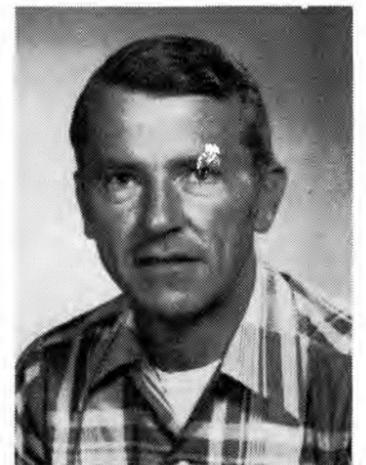
Perry Higgenbotham — 1831 15



Louise Dow — 9230 15



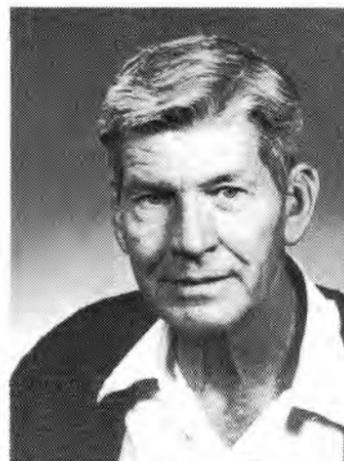
Ira White — 9484 15



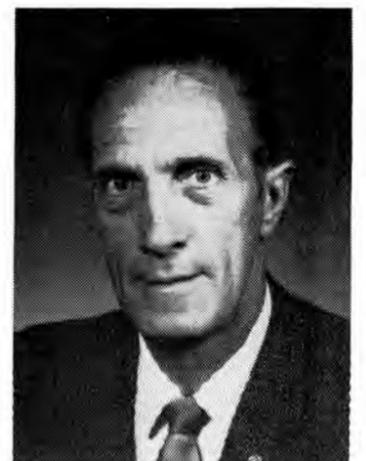
Hubert Fifer — 7612 15



Ray Rychnovsky — 8176 15



Glen Casey — 7154 10



John Erni — 5163 20

All She Lost Was Her Cool

Well, she really lost two Kennedy half dollars. But that doesn't count because you shouldn't have money lying around anyway.

The point is that it could have been worse — a lot worse. And it probably would have been (worse) if Nina Clark's (7134, 7135, 7151) home hadn't been the scene of Opera-



EVERYTHING BUT THE KITCHEN SINK was inscribed earlier. Now Nina Clark (7134, 7135, 7151) makes it a part of Operation Identification too.

tion Identification a couple of months ago.

Here's the scenario. Nina comes home from work. She unlocks her door. She goes into the living room. All is well. She goes into the bedroom. All is not well. The terrarium is on the very edge of the sewing machine.

This may not sound very startling to those who habitually place terraria on sewing machine edges. But Nina is not one of those. She is startled. She checks the window over the sewing machine. It is open. The screen is on the ground below.

It is now apparent that an intruder has intruded. Nina checks her possessions. All easily resalable ones were earlier inscribed with Nina's social security number. All are still there — TV, stereo, mixer, blender, toaster, binoculars, and (holding the terrarium) the sewing machine.

Nina calls the police. Jaded police (it's a high crime-rate area) arrive. They investigate. Less jaded, they say, "You are a very lucky woman. Operation Identification has foiled another thief." They do not say it in unison.

Some scenarios have a moral. This one does. Thwart thieves by inscribing your social security number on your valuables. Register the number with the Albuquerque Police Department and with the Base Security Police. Put OpId stickers on your doors and windows.

Start by going to the Kirtland East Security Police Building — it's across the street east from the tennis courts near the Base Gym. Ask for Operation Identification. They'll furnish you with a metal engraver plus everything you need to know about engraving.

Have an Engraving Party for fun, for profit. And remember Nina Clark. •bh



DISPLAYING the new book they co-authored are James Peek (left), now on leave of absence from Sandia, and Gordon McClure (1412). Published by John Wiley, the book is a critical review of published information concerning the dissociation of molecules undergoing single collisions with other atomic particles.

LAB NEWS
PAGE TEN
JUNE 23, 1972



Events Calendar

- June 24** — N.M. Mt. Club, moonlight hike along Canyon Estates Trail, Sandias, meet at Western Skies at 7 p.m.
- June 25, July 2, 9** — The Potts Puppets, "A Magical Day," and "The Walrus and the Carpenter," Old Town Studio, 2 p.m. For reservations, 242-4602 or 243-7186.
- June 25** — N.M. Mt. Club, Cowles-Santa Fe Ski Basin crossover, Gulf Mart, 7 a.m.
- June 26** — Forest Service presentation on Land Use Plan for the Sandia Mountains, noon, Bldg. 815.
- June 26** — Lecture, "Thoughts and Thinking," Dr. Vera John, Assoc. Prof. of psychology and education, Yeshiva University, 8 p.m., UNM Mall or in the Kiva if the weather is bad.
- June 29** — Fiesta, Santa Ana, San Felipe, Santo Domingo, Cochiti and Isleta Pueblos.
- June 29-30, July 1-2, 6-9** — "Home," Corrales Adobe Theatre, 8:30 p.m. For reservations, 898-3323.
- June 29-30, July 1-2, 6-9** — "Luv," Old Town Studio, 8 p.m. For reservations, 242-4602.
- June 30** — Indian Ceremonial Dances, Coronado State Monument. Twilight tour of ruins 7:30 and dances at sundown.
- July 2** — N.M. Mt. Club, Lake Peak, Gulf Mart, 7 a.m.
- July 6** — Lecture, "The Faithful Flagellants," Mauro Montoya, Highland High School, 8 p.m., UNM Mall.

Congratulations

To Mr. and Mrs. Dick Rogers (4151), a daughter, Patricia Jo, May 23.



TECHNICIANS TWO. Richard Starkey (4511) is now a Mechanical Technician II and Dutch Hinrichs (4513) is a Structural Technician II. The former apprentices received their completion certificates from Bob Hooper (4500). Bob Flaxbart, Manager of Plant Maintenance, didn't get one.

Sympathy

To Peter Lysne (5131) on the death of his father, June 4.

To Mack Deaton (4551) on the death of his father, June 2, in California.

To Myron Barnes (4136) on the death of his mother-in-law, June 12, in Massachusetts.

To Gene Newlin (6011) on the death of his mother in Marion, Iowa.

UNM Lecture Series

A series of lectures by Tom Smylie, forest naturalist at the Sandia Ranger Station, will be presented in the Anthropology Lecture Hall at UNM from 7:30 to 9:30 p.m.:

June 27 and Aug. 1 — "Profiles of Flora"; July 5 and Aug. 8 — "Patterns of Wildlife"; July 11 and Aug. 15 — "Where the Action Is"; July 18 — "The Making of Mountains"; and July 25 — "The Ancients Slept Here."

The Maxwell Anthropology Museum, adjacent to the lecture hall, will be open from 7 to 9 p.m. on the nights of the lectures.

Help

The Red Cross is facing a major financial crisis in meeting the disaster needs of flood victims in Rapid City, SD. The agency hopes to raise five million dollars nationally and looks to Bernalillo County for \$8700 of this amount. Over \$300,000 has been spent by the Red Cross in the past three years in Bernalillo County and in Belen for disaster relief. Can you help? Send your check, payable to American Red Cross for Disaster Relief, to PO Box 8706, Albuquerque, 87108. (In Livermore, send to ARC at PO Box 1257, Oakland, 94604.)

Promotions

John C. Carter (7542) to Bindery Operator
Sandra K. Huston (8353) to Secretarial Steno
Robert R. Vasquez (9425) to Staff Assistant Technical
Richard N. Chavez (7412) to Record Clerk
Virginia L. DeWitt (4553) to Record Clerk
Joe E. Gonzales (5411) to Computer Facilities Clerk
Eloy S. Montoya (5411) to Computer Facilities Operator
Conrado A. Otero (7121) to Technician (Physical Electronics Maintenance)
Diane E. Wadleigh (8352) to Secretarial Steno

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.
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

30" AUTO. Frigidaire elec. range, speed-heat, white; Gerry carrier; solid maple high chair, turquoise. Aeschliman, 298-7846.

GUINEA CHICKENS, \$1 ea. Heath, 869-2181.

TWIN SIZE BED, innerspring mattress, box spring, frame & headboard, \$30. Hoke, 298-6619.

MOBILEHOME, 10x50, financing available to responsible party, \$2800. Jolly, 684-3544.

PING PONG table, fold-up on castors w/nets, paddles, & ball, \$16. Griffin, 298-1174.

15' FIBERGLAS BOAT, 45hp outboard motor, both Sears brand, tilt trailer, 8" wheels, cover. Neel, 299-9309.

NEW REAR BUMPER w/brackets & light for Chev. pickup, \$18; overload springs, leaf type w/brackets for Dodge pickup, \$18. Milton, 299-4586.

R.M.I. Electro-Piano w/Leslie speaker & pre. amp., organ mode & various combinations cost \$1600, sell for \$1150, 4 mos. old. Valerio, 266-3204.

SCHWINN Stingray, 5-spd. stick shift, thornproof tubes, \$50; Gym Dandy swing set w/stakes, \$25; German half-black guppies. Bowen, 255-8195.

WEIMARANER PUPPIES, 4 males, 2 females, fully reg. Barnes, 877-0841.

SEARS 18" Craftsman reel power mower w/3 hp Briggs & Stratton engine. \$35. Ferguson, 299-1097.

MAGNAVOX radio & hi-fi combination, excellent sound system, \$15. Jackson, 299-5107.

FM-STEREO tuner, Realistic TM-7, walnut cabinet, \$45 or best offer. West, 298-6966.

TWO SHOW-QUALITY fluffy scarlet red Persian male kittens, CFA reg. of champion parents. Kirby, 299-2948.

BOAT, 16' 65hp Mercury, convert. top, sleeper seats, new rack & pinion steering, fast, stable, completely equipped, many extras. Fuller, 268-5384.

SWING SET w/2 swings & teeter-totter, \$9. Shipley, 298-2433.

YAMAHA 170 MX racer, 21" front wheel, ported, 4 x 18 Barum knobbies, Konis shocks, other extras, \$400. Durant, 298-4952.

HONDA CB500, late '71, fairing, \$1150. Shane, 296-4430.

TELESCOPE, Tasco 600 power, \$300; Carrier refrigeration system, 3/4 ton compressor, \$50; Burgundy wine bottles, \$1.20/case; 39" lamps, \$20/pr. Scott, 298-2129.

EVINRUDE outboard, 4-cyl., needs work, best offer. Weber, 298-9845.

COFFEE & END TABLES, kidney shaped, walnut finish, \$40 ea. or 3/\$110. Montoya, 344-6222.

EXERCISER, \$10. Grotberg, 299-1704.

PORT. evaporative cooler w/recirculating pump, \$20. Smith, 299-6873.

'72 INDIAN racing minibikes: 50cc & 70cc; '72 Zundapp motorcross models 19-5 HP, super handling. Chavez, 299-8194.

TWO bathroom lavatories, one yellow, one white, one white wall hanging commode, all new, unused, priced to sell. Souder, 282-3121.

OLD IRON floor safe; powder horns; spurs; gold leaf mirror; iridescent goblets, sell or trade for knives. Smitha, 299-1096.

PIANO, Wurlitzer, spinet, mahogany, 3-pedal w/seat/bench, \$475. Rynders, 294-2367.

TWO-MAN mountain tent w/floor, \$10; folding Coleman camp table w/4 stools, \$12; Miller, 255-1324.

POODLE PUPPIES, silver miniature females, pure bred, no papers, 6 wks. old, \$35. Garst, 299-5870.

'70 SUZUKI TS-90, just tuned up on June 8, \$185. Walters, 296-5803 after 5.

SAILBOAT, 24' Venture, fiber-glass hull, dacron sail, w/Genoa, trailer and full equip. Quant, 296-6826.

STUDIO COUCH, nearly new Chinese red modern, 73" long, new \$175, sell for \$85. Matlack, 256-7371.

'72 YAMAHA, 250cc, DT2 Enduro, \$775. Stieler, 255-9845.

NEW SCUBA equip: tank, back pack regulator, weight belt, \$80; Blue Flake motorcycle helmet, \$10. Sanchez, 345-0454.

14' ALUMINUM Lone Star boat & trailer, \$295; Mark 25 Mercury outboard motor, \$195. Patterson, 898-1778.

CAUSTIC SODA for chemical toilets, \$2.50 for 10 lbs. Stamm, 255-2640.

'71 HONDA CL-350, \$600, 2500 miles; bdr. furn.: chest, dresser, bed w/box spring & mattress, \$80. Duran, 867-5251.

GARAGE SALE: June 24 — tables, single bed, easel, linen drapes, stroller, toys, hi-fi, much more, 1116 Georgia SE. Beardsley, 255-5313.

KITTEN — playful 8-wk.-old, housebroken female wishes to establish residence in good home. Schkade, 247-3427.

13' TRAVEL TRAILER, '63 Garway, sleeps 4, \$800. Lysne, 296-5037.

USED TAPPAN gas range, \$30; almost new metal dog bed, 13x22", w/cushion, for small dog, \$5. Ezell, 842-9136.

REGISTERED QUARTER HORSE, Western Pleasure, 3-yr.-old red roan mare, professionally trained, \$400. Jelski, 898-4052 after 6.

MOTORCYCLE, '66 Honda 450 CB, \$400. Fogleman, 299-5957.

SOFA BED, matching reclining chair & ottoman, rose nylon fabric & naugahyde trim, modern. Chinn, 296-5172.

AIR CONDITIONER, evaporative, 5500 cu. ft., roof mounting structure & duct work included, \$40. Barth, 299-2668.

BELOW BOOK RETAIL, '71 Honda CB 175 street bike, 3300 miles, \$400; would consider small trail bike as trade-in. Jacobson, 296-1420.

'68 HODAKA 100cc, 2200 miles, includes windshield, buddy seat, rifle scabbard, \$285. Lassiter, 255-0532.

TANDEM trailer axles, five 12" wheels, new tires, springs, shackles & bolts, 2400 lb. capacity, \$125. Danclovic, 255-4927.

**FOR SALE
CARS & TRUCKS**

'69 DATSUN, PL510, 2-dr. Condit, 282-3877.

'66 GTO, new tires, chrome wheels, new paint, tri-power. Prevender, 299-5253.

'64 CADILLAC, 4-dr., white, all power, \$800 or trade for

pickup or sports car. Gallegos, 255-5264.

'69 OLDS 442 w/everything, make offer. Dickerson, 9701 Salem Rd. NE, 299-3449.

'67 CHEV. Impala, 283 engine, 2-dr., engine overhauled, available after July 1, \$750. Gallegos, 344-3290.

'67 BUICK LaSabre, AC, PS, PB, R&H, new tires, battery, white over blue, \$900. Iverson, 869-2675.

'70 AMER. MOTORS Hornet, 6-cyl., radio, std. trans., 2-dr., white w/blue interior, \$1300. Rodriguez, 345-0961, or 344-5723.

1935 DODGE, 4-dr., front wheel mount, \$795; 1931 Buick coupe, straight 8, basket case, \$195; '54 Sears, 175cc cycle, \$125. Ryan, 298-7084.

'70 SUBARU 360, \$700. McMurray, 296-7850 after 5.

'61 VW BUS w/'68 1600cc engine; '69 Yamaha 175 Enduro, adult driven. Campbell, 268-8445.

'70 CHEVROLET Impala 2-dr. HT coupe, 28,700 miles, radio, air, AT, \$2475. Lewis, 299-4217.

'64 FORD Fairlane 2-dr., R&H, 4 new tires, \$350. Sanchez, 265-1686.

'62 I.H. SCOUT, 4-w/d, hubs, long top, low mileage, \$750. Howell, 298-4001.

'68 CHEVROLET pickup, lwb, V8, 4-spd. Hoagland, 282-3825.

'66 CHEV. II sta. wgn., 283 V8, PS, factory air, 52,000 original mileage, book value \$950, sell for \$850 or best offer. Liguori, 256-3613.

3/4 TON TRUCK & s.c. camper: '65 Ford camper Special w/10 1/2' Avion self-contained camper, truck has 47,000 miles. Marceau, 255-2343.

'68 CHEVY Impala, sport coupe, PS, PB, AC, radial tires, below book. Wentz, 298-2630.

**FOR SALE
REAL ESTATE**

LARGE 4-bdr. & den in Winrock area, dishwasher, disposal, fp, carpeting, drapes, etc. cash to 4 1/2% loan. Felsen, 296-1138.

MOBILE HOME LOT at Cochiti Lake. Howe, 282-3619 after 6.

3 LOTS in Paradise Hills; full acre plot in Sierra Encantada Addn., 5 miles south of 66 on Hy 217, terms. Brown, 296-5949.

3-BDR., den home, 2 fireplaces, viga ceilings, immaculate, \$22,000 VA. Roth, 877-4997.

2-BDR. house near UNM & KAFB, fp, garage, sprinklers, walled back yard, small equity &

assume 6% loan. Berg, 266-2058.

BRICK, near new, lg. 4-bdr., 3 bath home, Valle Encantada Subdivision, walk to school, deluxe landscaping, \$46,950. Kluherz, 298-8057.

FOR RENT

IN SANDIA PARK, 2 rooms, 1/2 bath, private entrance, share mt. home w/single male, \$100/mo., utilities included. Gelinias. 282-3409 mornings.

2-BDR. APT NE, \$137.50 including utilities plus \$50 deposit, references required, no pets. Larsen, 296-0327.

WANTED

USED oscilloscope, preferably Eico. Bircher, 268-0726.

CONTROLS for Westinghouse fry pan. Peterson, 256-7514.

USED Yamaha 360 Enduro. Roth, 877-4997.

MAN's bike, will pay to \$50 depending on condition & equip., prefer 3-spd. or 5-spd. Tiefa, 299-2763.

SWAP .25/06 Remington BDL mint condition for .338 Winchester model 70 in same condition. Gonzales, 242-6264.

SCOUT PACK & FRAME; Yucca model w/Frontier frame; or camper w/Cruiser frame, good condition. Hegge, 268-3287.

BICYCLE WHEELS using 26 x 1 1/4 tires. Joseph, 299-6989.

TWO 16" Jeep wheels, have one 15" Jeep w/tire for trade & one 15" split rim, 5-hole, spare from house trailer. Wentz, 298-2630.

WORK WANTED

MARY, qualified Sandia senior, giving beginning piano lessons, \$1 per half-hour, references. Walter, 296-7062.

JOHN, qualified teenager, giving beginning private tennis lessons, \$1 per half-hour. Walter, 296-7062.

LOST AND FOUND

LOST — Silver loop earring w/turquoise stone in center, man's reading glasses w/smokey-clear frames, trifocal safety glasses, 4 keys, 3 keys on chain. LOST AND FOUND, tel. 264-2757, Bldg. 832.

FOUND — Man's glasses w/gray frames, old style 5-yr. service award, safety glasses w/brown frames in black clip-on case, old style 20-yr. service award. LOST AND FOUND, tel. 264-2757, Bldg. 832.

Club Calendar Packed

The Club calendar is packed with outstanding events during the next couple of weeks. Chronologically you can:

MAKE IT to Happy Hour tonight and dig a new group called Christopher playing a big modern rock sound. A vocalist named Kris Ellis helps the excitement. Roast beef will be spread for the buffet. Yolanda will hold the main lounge.

* * * *

TOMORROW NIGHT about 500 assorted revelers wearing grass skirts, wild sport shirts, sarongs, etc., will enjoy Polynesian food and a floor show featuring the Likolehua Hawaiian Revue and Ernie and the (Hawaiian) Saints. It's called a luau and it should be a blast.

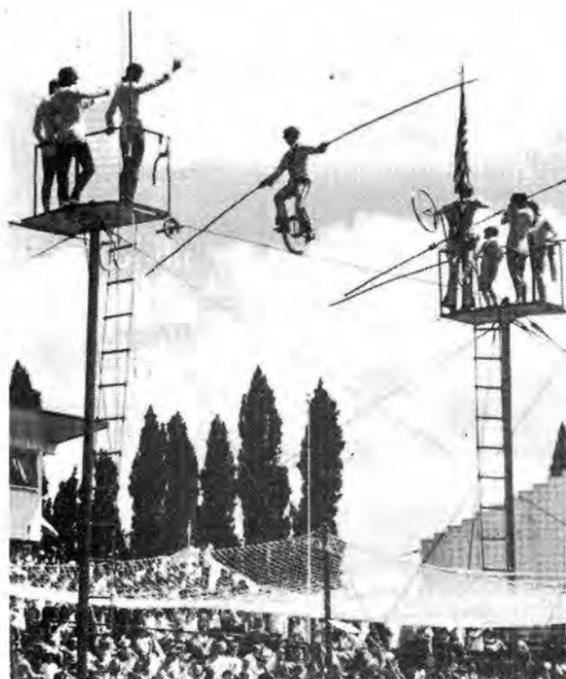
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NEXT FRIDAY, Happy Hour will feature a barbequed chicken buffet and Sol Chavez and the mighty Duke City Brass. It is always a pleasure to hear Sol. He's got one of the few well-rehearsed larger combos around. They play original arrangements — a balanced selection of modern stuff with Latin classics.

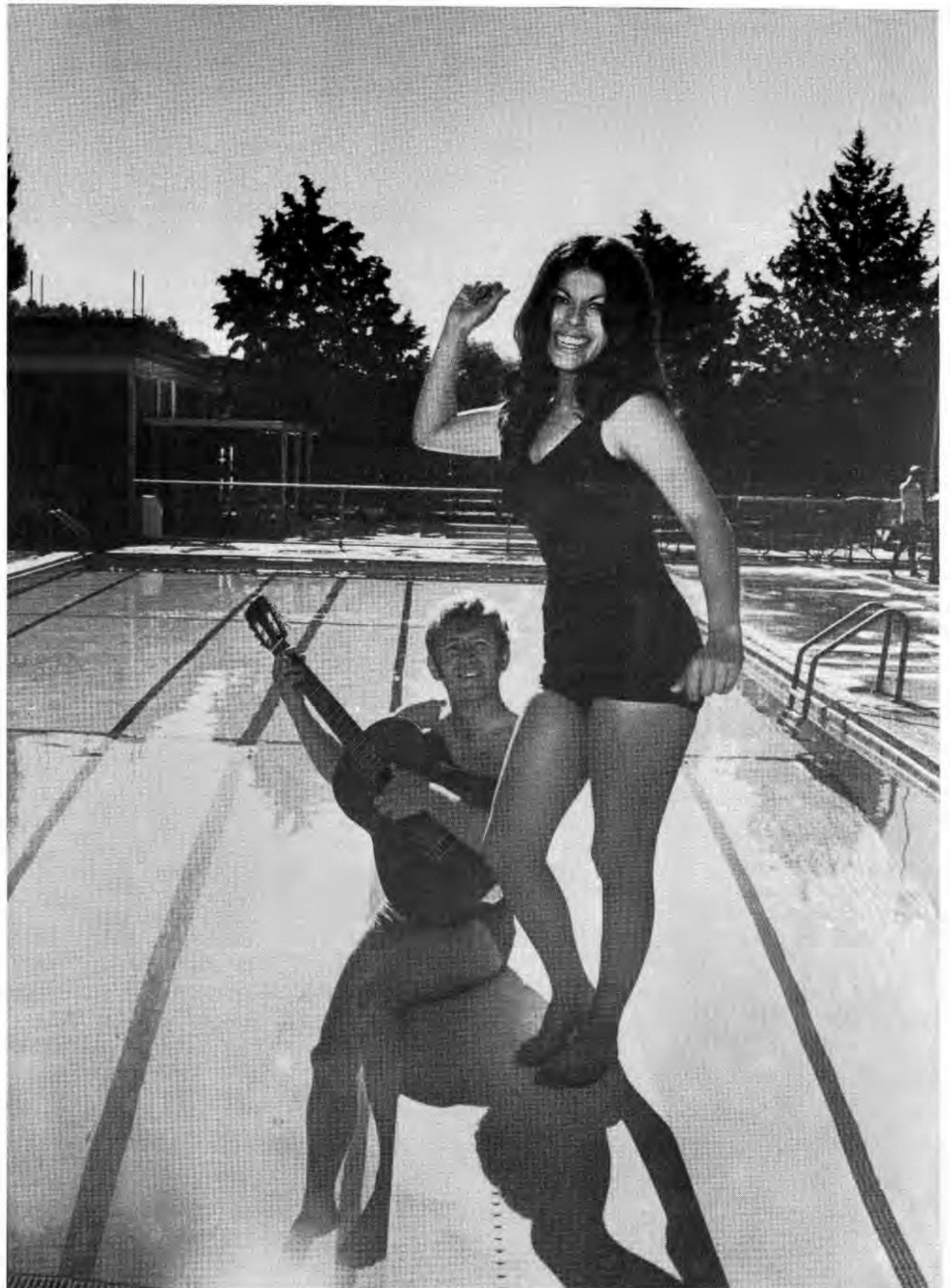
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ON SATURDAY, July 1, it's Soul Session time from 8:30 to 12:30 with Happy Hour prices (cheap) and a group called Swartz playing for dancing. Super sandwiches are available. Admission is free to members, guests pay \$1.

* * * *



THE YOUTH CIRCUS is coming says John Johnson (9132), to the Baseball Stadium on July 1st, and performances are scheduled for 5:30 and 8:30. Proceeds go to the Big Brother program that John and Don Gould (1915) work with. The Circus, now touring nationally, features young people in acts ranging from fire eating to trapeze flying. Call John or Don for further info or tickets.



THIS comely young lady, Nadine Ortiz (3523), thought it wise to cool off a bit before the red hot Soul Session at the Coronado Club on Saturday the 1st. Looks like she may wipe out the guitar player, Ed Shoaf (7142), en route, but he appears undismayed by the prospect.

ON TUESDAY, July 4, the Club will repeat the same kind of Independence Day celebration that has made this event outstanding in the past — fun and games for the kids, 10 cent beer, a special hot dog lunch for 40 cents, a spectacular concert by the American Legion Drum and Bugle band from noon to 2 p.m. and a Happy Hour bar from 11 a.m. to 5:30 p.m.

* * * *

TEENAGERS can do their thing on Thursday, July 6, from 7:30 to 10:30. The usual format — a rock band, a local emcee from one of the radio stations, record albums given away for various kinds of contests, soft drinks and chaperons. Member parents

should pick up tickets for their youngsters.

* * * *

HAPPY HOUR on July 7 will feature the Country Express and Denny Gallegos in the main lounge.

* * * *

NEW HOURS for operation of the Coronado Club twin pools have been announced (changed slightly since the opening of the season). Monday through Thursday, the south pool will remain open until 6:30 p.m. On Fridays, both the north and south pools will remain open until 10 p.m.

All other announced hours of operation remain unchanged.