

SANDIA LAB NEWS

published every other Friday for the employees of sandia corporation, contractor to the atomic energy commission



Vol. 7, No. 17

ALBUQUERQUE, NEW MEXICO

AUGUST 26, 1955

F. H. Shelton to Take AFSWP Post In Washington

Dr. Frank H. Shelton, who has been with Sandia Corporation since October, 1952, next month will become Deputy Technical Director for the Armed Forces Special Weapons Project in Washington, D. C.



—Frank H. Shelton—

A member of the Weapons Effects Department staff at Sandia, Dr. Shelton participated in Operation Teapot in 1955 and Operation Upshot-Knothole in 1953 at Nevada Test Site.

During Operation Teapot he was on loan to the Department of Defense and served as technical advisor to the Military Effects Director at the test site.

He has done extensive research in the field of blast and thermal phenomena associated with atomic explosions.

Born in Flagstaff, Ariz., Dr. Shelton was reared in Boulder City, Nev., and graduated from high school there. He attended college at California Institute of Technology and received his Bachelor of Science degree in 1949 and his Master of Science degree in 1950. He completed work for his Ph.D. degree there in 1952 and was awarded the degree in 1953 after arriving at Sandia. All three of his degrees were in physics.

Dr. Shelton saw three years of duty in the Army during World War II and was commissioned at the Armed Force School, Fort Knox, Ky., where he served as an instructor.

He is a member of the American Physical Society and Society of Sigma Xi. Dr. and Mrs. Shelton and their three daughters, Jill 5, Joyce 3 and Gwen 1, have been living on Sandia Base.

UNM Evening College Offers New Courses For 1955-56

The Bulletin of the University of New Mexico Community College has been received in the Employee Services office and a limited number of copies are available to Sandia Corporation employees.

The pamphlet lists credit and non-credit courses which will be offered by the University evenings and Saturdays.

Of particular interest to Sandia Corporation employees are the following offerings:

Business Administration

Business Law, Corporation Finance, Advertising, Principles of Organization and Management.

Accounting

Principles of Accounting, Intermediate Accounting, Accounting Laboratory and Income Tax Accounting.

Economics

Introduction to Economics, History of Economic Thought, Rise of (Continued on page 4)

★ Prizes Offered For Three Best Drive Slogans

Slogan writers again this year will have a chance to serve the Cause of the Red Feather and have a chance to win a valuable merchandise prize.

"We need a slogan for Sandia Corporation's Community Chest-Red Cross United Fund Drive," says Bob Hepplewhite, campaign publicity director, "and we're going to give prizes for the three best submitted."

First prize will be a four-piece silver coffee service; second, an electric toaster; third, picnic kit of nylon case, thermos jugs and metal sandwich box.

Hep says entries must be received in the Employee Services Division, 3122, by Sept. 9. The winner will be selected Sept. 12 and the slogan put into use immediately.

The prizes are being donated by the Coronado Club from the Bingo party collection.

Thunderbird Pin Is Winner of Service Contest

The colorful and symbolic Thunderbird, in brilliant turquoise enamel on a copper background, will be the central figure on Sandia Corporation's service recognition pin. The winner of the emblem design contest is H. C. "Clyde" Walker, 5262.



—H. C. "Clyde" Walker—

The Thunderbird design drew 532 employee votes, and the runnerup entry, submitted by Evelyn Cook, 1925, polled 514 votes. The two other entries in the runoff contest were submitted by Gene Oswald, formerly of 2463 (recently terminated), and William O'Neill, 5530.

Final voting was on the four best entries selected from over 200 proposed designs turned in by employees during the contest. The committee which made the preliminary selections consisted of the following employees:

L. E. Lamkin — 5600, Chairman
G. C. McDonald — 1630
Lila Ness — 1925-4
W. W. Ives — 2463
Dean Wise — 2151-4
F. C. Meacham — 2541-1
R. J. Blount — 4151
E. W. Peirce — 3120

Arrangements are now being made to have the pins manufactured in quantity. As soon as firm delivery date is set, plans will be made for presentation of the service awards to those employees now on the roll who have over five years service with the project. After that initial group of more than 1000 employees receive their pins the awards will be made on the five year anniversaries of qualifying employees. A new award will be made each five years.

NOTICE

Sandia Corporation engineers desiring to secure State of New Mexico registration may obtain necessary forms and full information from A. Burton Metzger, ext. 23258.

APOTA Gives Weapons Test Engineers Most Powerful "Eyes"

It looks mysterious. It's an engineering marvel and it receives messages from far out in space.

It is known as APOTA.

But APOTA is not a product of science fiction. It was developed at Sandia Laboratory by Sandia engineers. Its true name is Automatic Positioning of Telemetering Antenna and its purpose is quite simple.

In test operations, when a bomb is dropped, observers on the ground want to know what's happening way up there as the missile descends.

APOTA trails the missile and gathers this information; it's really quite a "bloodhound".

The test device being dropped is equipped with radio transmitting equipment. APOTA hangs on to this radio beam, follows the line of travel and receives vital information.

"Loud and Clear"

In addition to tracking the falling missile and gathering data APOTA feeds the information to magnetic tape recorders. Later the recordings are translated into a comprehensive report of how the gadget behaved as it streaked earthward. But the record will be only as good as the radio signals received and that's APOTA's main job—to "lock on" the signal and keep it coming in loud and clear.

A human gunpointer is a highly trained man but subject to fatigue and errors of judgment. When he wants to get on his target he looks through a telescope and by manipulating two hand cranks tries to keep the fleeting target centered on the cross hairs of the sight.

APOTA accomplishes essentially the same thing, but mechanically, eliminating human weaknesses. Electronic components substitute for the eyes and brain of the human operator and two servo-controlled electric motors replace the hand operated cranks.

Spots at Distance

So alert and sensitive is the electronic system that it can find the target when it is still five degrees below the horizon at a distance ranging from 50 miles for an aircraft flying at 1,000 feet to 200 miles for a plane at 40,000 feet.

APOTA is also a creature of economy. Its ability to get on the target quickly reduces the time the aircraft carrying a test missile must remain in the target area.

In addition, its dependability and rapid automatic action provides more time for checking telemetering equipment on the ground. This avoids the chance of costly drops which might be made before the ground equipment is fully operative in which case inadequate data would be collected.

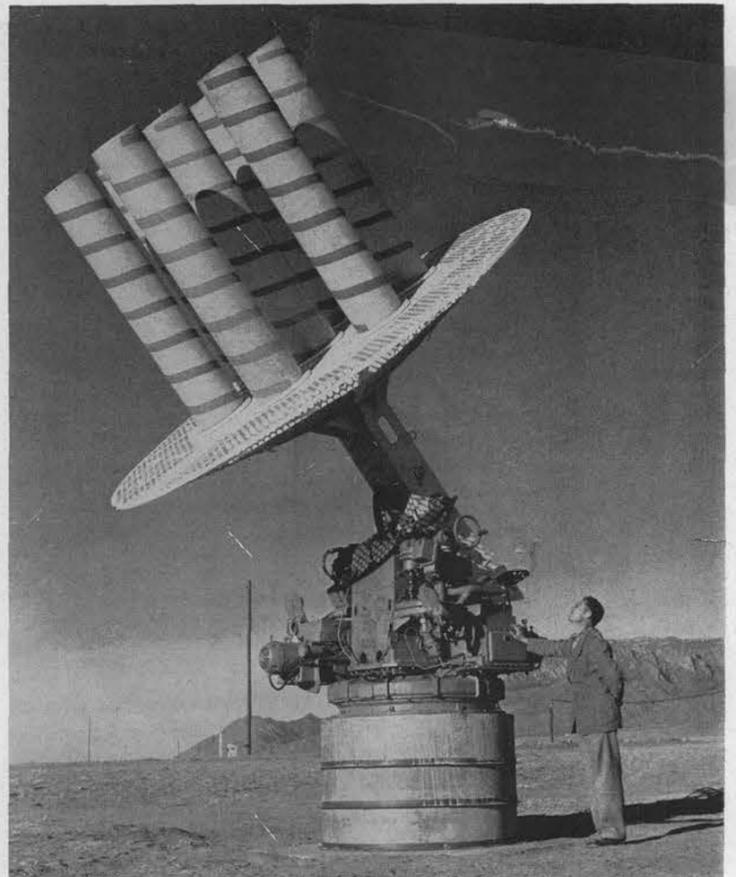
With APOTA there is less chance of missing data due to the missile "getting lost" by a human gunpointer. APOTA doesn't tire.

★ Rain, Rain, Go Away: Weathermen's Prayer Is True Today!

Members of the Albuquerque Chapter of the American Meteorological Society entertained their families at a picnic in the mountains recently.

According to Larry Smith, 5243, Meteorological Section, the weather specialists enjoyed their most successful annual outing that day.

For the first time in years the picnic was not washed out by rain.



SANDIA'S APOTA, an electronic tracking instrument, is used in the study of falling missiles in Sandia Corporation's field test activities. Ordinarily, the device tracks missiles by picking up radio beams emitting from a special transmitter in the test weapons. However, recently APOTA proved its great sensitivity by tracking the sun for a period of several hours by "listening" to the solar noise the sun generates. Thomas V. Crawley, one of the engineers who helped develop the instrument, is shown here.

APOTA "sees" through clouds and haze. APOTA has infallible judgment.

"Born" in 1952

APOTA was born in the minds of many Sandia engineers, but much credit is given to Don B. Schuster, manager of Field Test Department I, for fathering the idea for such a device.

Back in April of 1952 work began. Engineering design work of the entire project was given to the Tracking Systems Division in the Instrumentation Development Department. The division was then headed by Robert C. Spence.

Working on APOTA through these engineering stages were James E. Palmer, John Lannon, Thomas V. Crawley, Jr., Richard L. Shaum, and Frank Hoover, who is now operating his own electronic firm in Albuquerque. Also engaged in development work were men in Burt J. Bittner's Lambda Division of the Electronics Research Department and in Arthur

J. Roth's Mechanical Division of the Electronic Development Department.

Fabrication Done Here

All the fabrication work on APOTA was done in the Electronic and Specialties Department, 2120, headed by John E. Tillman.

Startling in appearance, the APOTA has seven huge helical antennas mounted on a 14-foot base plate. The mechanical works consist of a modified anti-aircraft gun mount equipped with powerful motors capable of whipping the bulky antenna array through a full 180° arc in a remarkably short time.

Continued study and work with APOTA is being carried on the Tracking Systems Division which is now headed by John C. Eckhart.

Today, APOTA is seeing duty at Salton Sea Test Base in California. Located in the Base's technical area, deep among the sand dunes, the device points its fingers to the sky—another step in the quest for better weapons for the nation's safety.

September New Registration Period for Sandia Hospitalization-Surgical Plan

A new enrollment period for the Group Hospitalization and Surgical Benefit plan has been scheduled for the month of September. According to Insurance Committee Members this may be the final enrollment period for employees now on Sandia Corporation rolls.

If another enrollment period is opened it will be at least 12 or 18 months in the future.

During the first eight months the plan has been in effect more than 2,500 claims, totaling about \$200,000

have been paid. Today, 83 per cent of the eligible Sandia Corporation employees are protected by the plan.

The current enrollment period ends Oct. 3 and payroll deduction authorization forms should be received by 5 p.m. that day. The forms should be forwarded to Employee Services and Benefits Section, 3122-1.

Rates for the insurance remain unchanged: \$2.16 for individual employees and \$7.77 for employee and dependents.

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Telephones: Sandia Base Extension 25253 or 26135



Security Must Be Maintained

Despite the optimistic outlook for easing of world tensions, the need for guarding security information is still as great as ever. We must keep our guard up and not be lulled into indifference.

H. Struve Hensel, Assistant Secretary of Defense in charge of Internal Security Affairs, recently pointed out why security is always important and why the responsibility of persons handling classified information is so great. Said he:

"Security information is classified Top Secret, Secret and Confidential for three very good reasons.

"1—Because its disclosure would assist unfriendly nations in their attempts to frustrate the conduct of diplomatic relations or otherwise embarrass the government.

"2—Because its disclosure would forewarn enemies of the strategy and tactics we would employ in defending ourselves.

"3—Because its disclosure would destroy the time advantage we have gained in the technological development of new defense weapons.

"The Department of Defense has one or more of these reasons in mind when it classifies information and materials that are placed in the hands of industry. The Department of Defense takes every reasonable precaution to assure that persons having access to or knowledge of this information are reliable and trustworthy.

"It makes no difference whether they are scientists, technicians or engineers or whether they are industrial guards, office workers or production line employees.

"Information and materials are classified Top Secret, Secret and Confidential in order to indicate the degree of seriousness that disclosure or compromise entails and to indicate precisely what precautions must be taken to protect each category.

"Neither your rank, position or occupation nor your own notions about your integrity affect your responsibility to safeguard classified information."

Speaking of Reporters

This is another in a series of articles telling of the volunteer reporters who help provide news of their co-workers to the Sandia Lab News.

Mary Davis, Sandia Lab News reporter from 5215, today claims Albuquerque her home, but only in recent years has she settled down from a busy round of traveling with her pilot husband, Benton.

For six and one half years, the Davis family lived in Colombia, South America, while Benton flew for Pan American Airlines and Standard Oil Co. of New Jersey. During the Colombian revolution after World War II, Mary and her four children were "holed up" in their house for seven days, depending upon food brought them in an armored truck by the American Embassy.

Prior to the War, when her husband was employed with the Civil Aeronautics Authority, Mary traveled extensively throughout the United States and Alaska.

Mary has been in Corporation employ for four years; has been a Lab News reporter for one and a half. Her husband is with ACF's Security Office. Residing at 532 Carlisle NE, they are parents of four: Tom, Corporation employee in 1641; Benton, Jr., serving with the Navy; Charles, student at New Mexico A & M in Las Cruces; and Mary Ellen, in nurses training at Loretta Heights, Denver, Colo.



—Reporter Davis—

Club Dining Room Has Table Service Friday Evenings

Table service for dinner patrons of the Coronado Club dining room will be a new feature of the Friday night dances of the Club's winter season.

Vern Swingle's Cosmo Combo will play for dancing from 8 to 12 for the opening dance Sept. 2.

The dance will follow the customary Friday evening Social Hour at 4:45 to 6:15 p.m. and dinner in the Club dining rooms until 8 p.m.

around the departments

George Bradley, Jr., 5611-1, has been on a two-weeks military leave at Fort Bliss, Tex.

Dan J. Padilla, 5611-2, and family vacationed in Denver, Colo. Also enjoying the Denver sights has been Bob DeVore, 5611. Other recent vacationers from 5611 were H. H. Wilhelm, Richard Carpenter and J. C. Conant.

The Coronado Club was the scene of a dinner August 3 to honor A. K. Leupold, 2550, and C. E. Wedwick, 4310. The event was a farewell dinner for Mr. Wedwick who is returning to Western Electric in Montgomery, Ill., and an anniversary celebration of Mr. Leupold's 35th year with Western Electric.

The Tom Starrs, 5611-2, moved into their new home at 2825 Cagua Dr., NE, last week.

Fishing at Elephant Butte claimed the attention of Ruth Derrick, 2222-1, and husband on their two-week vacation. Henry Ray, 2221-1, wife and daughters returned from a two-week trip to Los Angeles, San Francisco, Yosemite National Park and Great Salt Lake.

Texas, Arkansas and Colorado were vacation spots for Sigrid Nissen, 2533-3. Julia Polito, 2532-2, visited relatives in Amarillo, Tex. Friends and relatives in Pennsylvania and New Hampshire enjoyed the visit of Marge Pierotti.

While returning from Denver, Colo., Don Robbins, 5131, had to stop over in Trinidad, Colo., for — of all things — an emergency appendectomy. A more pleasant vacation was enjoyed by Joan Longhurst, 3160, and husband who went to Madison, Wisc. Bernice Beeson, 3164, spent two weeks in New York visiting friends.

On August 17, employees of 5122 and 5131 and their families feasted on watermelon at the home of Don Stoddard, 3116 Cuervo Dr., NE, while they bade farewell to Bruce Miller, 5122, and Marian Hills, 5131.

2531 wishes a quick recovery to Jane Brueggemann, infant daughter of Harold Brueggemann, 2531-1. Jane suffered a skull fracture in a recent accident.

Combining work and pleasure, Gurdon Miller, 1911, spent his vacation managing the K/A ranch in Rio Arriba area. On a recent weekend, Marian Hills, 5131, and Joan Linenthal, 2312, took in the sights at Red River. On another weekend, Marian, Joan and Letha Hacker, 3153-2, drove to Mesa Verde.

While visiting his family in Kentucky and Virginia, Jack Hale, 5122, attended the centennial reunion at his alma mater, Beria College, in Kentucky. Helen Tuttle, 5131-1, and husband were guests at the August wedding of their niece in Tulsa, Okla. Bill Jemison, 5131, found time on a recent jaunt to Denver to visit friends.

Disneyland, in Los Angeles, Calif., appealed to 3160's Myrtle Brown, and Marianne Humphrey on their vacations. Joe Beeler, 5123, took his in-laws from Spokane, Wash., on a trip to the Jemez mountains.

John Logan, 1931-2, has returned from military leave in Denver. While there he attended opening night of "Bus Stop" at the Central City Opera House, and also concerts presented by Victor Borge and Yehudi Menuhin at Red Rock Theater.

Marilyn Langmyer, 5210, participated in the opera workshop presented by Eduardo Rael at the Danfelter's School of Music. Marilyn played the role of Musetta in La Boheme.



SURPRISED — PLEASSED — Art Jones, 2464-1, was both surprised and pleased when the members of his publications section presented him with a baby shower. His third daughter, Barbara Ann, was born June 9.

E. R. Phillips, 1632, and family made a two week trip to the Northwest, stopping at Mesa Verde, Grand Tetons and Yellowstone Park. Constructing furniture for his new home at 11501 Mountain Rd. NE, Princess Jeanne Park, occupied the vacation time of Jarvis Bumgarner, 1631. Latest product to leave the workbench was a sectional divan.

John and Irene Berger, 2452 and 2561, are happy to report that Irene's parents, Mr. and Mrs. Harry Nason, have moved here from Maine to enjoy sun and fresh air of the Southwest.

Back from vacation are John Cundy, 1932-1, and wife, who spent three weeks motoring through the midwestern states and visiting friends and relatives in Pennsylvania and Michigan. Nick Perea, 1932-2, passed his leisure time at home just resting. Eddie Zachewicz, 2124, and family traveled to Boston. Marie Hanson, 2113-2, reports having her fill of blueberries while in northern Minnesota.

Al Hall, 2124, and family chose Corkins Lodge in the northern part of the state for their vacation spot.



FISHIN'S GOOD — Bill Seelbach, 2152-2, has the satisfied look of a successful angler. In case you're interested, the stream was near Mesa Grande.

E. F. Johnson, 1634-2, has returned from a two-week Nuclear Sciences Seminar, sponsored by the Office of Naval Research, at Idaho Falls, Ida. A pleasurable trip to San Antonio, Tex., was reported by Allan P. Stacker, 5210, and family.



DISTAFF DAVY CROCKETT — Nancy Lynn Taylor, year old daughter of Cliff Taylor, 2152-2, wears what every true fan of the famed frontiersman should wear.

Vacation news from 4135: Flying to Mexico City are Bernice Armour, 4135, and husband. Two weeks were spent by Frances Wright visiting with her mother in Missouri. Fishing and relaxing with his family in northern New Mexico were the vacation plans of Kurt Baars. Lucille Keeney and her children took in the Indian ceremonies in Gallup while away from work. Ethel Kind enjoyed a reunion with her nephew who has just returned from overseas.

Maridel Dyke, 1334, has returned from a Folk Dance Camp at College of Pacific, Stockton, Calif. Lou Hanchey, 1332, was taking a scenic ride aboard a narrow gauge railroad in Colorado when he happened to spot Bill Wells, 1332, with his family watching the train as it passed. Ed Thomas, 1333, returned to his home state, Alabama, for two weeks. Jerry Durrie, 1332, was accompanied by his mother and brother on a recent trip to Mexico.

2222 vacation news: Norma Taylor and family spent two weeks roughing it in the fish-ridden waters of Colorado. The Red River country attracted the J. W. Bensons. Norma Jean Voitle went to Houston and Bay City, Tex., to see relatives.

The W. R. Luxfords, 2220, attended a two-week musical festival in Gunnison, Colo. Their son "Tink" who is a drummer, participated in the festivities. Southern California was enjoyed by Mary Beth Henry, 2225.

around the departments

Recent vacationers include **Robert Jack**, 5213, to Idaho and California; **Vernon Baker**, 5216, to Yellowstone Park; **Ivan LeValley**, 5213, to Illinois; and **Armon Fink**, 5213, on a fishing trip in the Red River area.

Frog legs have been the menu of **W. B. "Pappy" Sheaffer**, 5215, and **Jasper Mason**, 5212, who have been getting their daily limit of eight since the opening of the 15-day frog season Aug. 15.

Exchanging vacation tales are **Sam Boyden**, 2231, who toured parts of Colorado, Utah and S. Dak., and **William Meyer**, 2234, who did some fishing in the Delaware River while in N. Y.

Bob Lemm, 2113, and family almost had a bout with a mother bear and her two cubs while camping and fishing in Yellowstone Park. The Lemms took refuge in their auto until their unwelcome visitor left the scene.

Prize dahlias of the neighborhood are being raised by **Millie Stout**, 2561, and her husband, **Lester**, who formerly worked for Sandia Corporation. Their garden is a show spot and reflects lots of hard work.

George Revels, 2561, has been vacationing in Colorado recently. **Nyrah Marchant** spent her leisure vacation days in Utah and Kansas.

Howard Reese, 2113, and wife took the southern route to San Diego for a vacation, then drove the coastal route to San Francisco, and came back home the northern route through Salt Lake City. Returning from visits with relatives in the midwestern states are **Don Loehle**, 1932-1, and family. **Amado Chavez**, 1932-1, has been on two weeks military training with the New Mexico National Guard at Fort Bliss, Texas.

C. L. Carpenter, 1241, and family chose Denver, Colo., for a recent trip. On their trip to visit relatives in Costa Valley, Calif., the **Dave Robertsons**, 1631, also toured Bryce, Zion and Yosemite Parks.

Gus Krause and **Al Rizzoli**, both of 1632, took their families to Durango, Colo., the weekend of Aug. 13 for some fishing and a ride to Silverton on the Denver and Rio Grande narrow gauge railway. **Gene Mead**, 1632, introduced his bride to friends and relatives in Wyoming during their two weeks vacation.

Recent vacationers and their destinations were: **J. Gordon King**, 1632, Tennessee and Alabama; **B. H. Wickett**, 1634, Lake George, Mich.; and **W. A. Scranton**, 1632, Cleveland, O.

Two Scientists on Program at Physical Society Meeting

Dr. E. F. Cox, manager of Weapons Effects Department of Sandia Corporation, will appear on the program at the meeting of the American Physical Society in Mexico City, Aug. 29-31. He will present a paper entitled "A Proposed Change in Scaling Laws for Explosive Phenomena."

Dr. Walter Bleakney, Princeton University, and a consultant to Sandia Corporation, will present a paper at the same meeting. His subject will be "Transient Surface Temperatures in the Shock Tube."

Sandians Help Present 'Time Out for Ginger'

Marvie McFee and Allene Snyder, both 2221, members of Beta Sigma Phi, are assisting with the presentation of "Time Out for Ginger," being sponsored by the business women's sorority Aug. 28 in Old Town's Summerhouse Theater. Admission will be \$1.75, and all proceeds will go to charity. Tickets can be purchased from Mrs. McFee, Alb. 6-0827, or Mrs. Snyder, Alb. 6-6152.

Weddings

Sept. 24 is the wedding date chosen by **Margaret A. Pierotti**, 2222-2, and **A/C George E. Kenney, Jr.**, of Manzano Base. The morning ceremony is to be performed in the Catholic Chapel on Sandia Base, and a reception for close friends and families of the pair will be held at 2 p. m. at the bride's home, 3064 35th Pl., Sandia Base. The newlyweds will honeymoon at Grand Canyon and Las Vegas.



Miss Pierotti Miss Armijo

To be married Oct. 15 in the St. Charles Catholic Church are **Lillian Armijo**, 5143, and **Fred Gunckel**. After receiving friends at an afternoon reception at the Women's Club, the couple will leave on a two-week honeymoon trip through California.

Marie Hanson, 2113-2, and **Donald Bush**, 5311, will be wed Aug. 28 in the Community Church of the Sandias in Tijeras Canyon. Immediately following the nuptials, they will greet guests in the bridegroom's home in Sandia Park.



Miss Hanson

Nikki Field, 2533-3, became Mrs. **Joe Brislin** in The Church of Latter Day Saints Aug. 16. The Brislins are honeymooning in Pennsylvania.

Sympathy

To **A. K. Trammell**, 5215, for the death of his father Aug. 15 in Oklahoma.

To **Verna Clark**, 2231, for the death of her mother Aug. 13 in New Jersey.

To **Harold Howard**, 1243, for the death of his mother Aug. 6.

Chairman Appoints Team Captains for United Fund Drive

Luther J. Heilman, 2400, has announced appointment of 13 Sandia Corporation employees who will serve as solicitation team captains for the Red Feather-Red Cross drive here in October.

Heading the teams which will raise money for the Sandia Employees Community Chest-Red Cross United Fund are the following: (numbers indicate organizations their teams will solicit)

- Edward Clamp — 1200, 1320, 1330, 5500 and 5600
- B. E. Arthur — 1600
- Eugene K. Baker — 1900
- Meade Arbogast — 2100
- W. C. Price — 2500, 2610, and 2620
- Robert J. Blount — 4100, 6010 and 6020
- Calimero Lucci — 2410, 2440, 2470
- Maurice Gowdey — 2300 and 1700
- Brian F. Finley — 3100 and 2460
- B. C. Benjamin - 5100 and 5200
- H. C. "Cap" Carmody — 2200
- Robert W. Higgins — 5300, 5400 and 1340
- C. B. Kraus — 2450

227 Sandia Employees Enter Military in Past 5 Years; 102 Return

Since July, 1950, 227 Sandia Corporation employees have entered military service. And of this figure 102 have been discharged and have returned to jobs with the Corporation.

Still on military leave are 93 men. Thirty-two former employees have been discharged and are now working elsewhere, or elected to remain in military service.

The 2000 organization has sent the most men off to serve in the military. There have been 101 go from this group. Next comes 1000, Development, which has released 61 employees to the armed forces.

The Research organization, 5000, has provided 52 men, 4000 has sent eight, and 3100, five.

During the past 12 months 42 men have left Sandia Corporation for military duty. Twenty-six others were reinstated during that period after completing their duty.

No job is so important and no service is so urgent that we cannot take time to perform our work safely.

The Inquiring Reporter Asks—

What Do You Think of the Community Chest?



E. B. GUTIERREZ, 2235: Often charity giving is misunderstood. Giving to the Community Chest, for example, reminds me of a hungry child with an outstretched hand or the figure of a blind man standing with cane and cup. That, of course, is only a part of the true picture. The picture might easily contain the face of the worker next to us—or even ourselves—needing a helping hand to overcome a sudden crisis or tragedy in our lives.



JESSIE HODGES, 4153: To me the Community Chest is people helping people. It gives each of us a chance to extend a personal hand to someone less fortunate than ourselves. I think a yearly contribution is little enough to pay to support such groups as the Salvation Army, the Red Cross, YWCA, homes for the aged, foster homes and day nurseries for children, and family counseling services.



Photo by Dunlap

DOORKNOBS are Henry Austin's business in 2413. Henry says he can fix and adjust several brass fixtures in a working day.

Door Expert Henry Austin Has His Exits, His Entrances; All Sandia Is His Stage

The name of Henry Austin opens more doors — and closes them — around the Sandia Corporation, perhaps, than any one man in the place.

Hank, who's in 2413, is responsible for the repair and maintenance of glass doors, steel doors, wooden doors, their brass and chrome hardware, and the hinges they hang on. "I have spent my seven years with the Corporation just walking in and out," says Hank.

Gray-haired, but youthful appearing at 63, Henry Austin works in a corner of the giant maintenance shops in Building 887, east of the Laboratory technical area.

Here, surrounded by egg-headed brass knobs, faulty door closers, twisted hinges, rusted locks, Austin smoothes the way for people who forget their keys in the morning, and

for people who—in a hurry at night—want to get home, and can't lock the office door. A reluctant hinge, a lock that won't lock, these can be a crisis during rush hour.

Nasty Jam in 880

"Some time ago," Henry reports, "we had a nasty jam in Building 880. Seems some 'wheels' got locked into a conference room. We took a long time to work around the lock. With Bill Shively's able help, I finally got that bunch out of there."

Henry's work calls for him to remove twisted keys from desk locks, replace door bolts, repair all types of door hardware and fixtures. He maintains that the elaborate hydraulic hinges and sunken door closers on the glass doors of Building 800 are the most difficult to repair.

"It usually takes an hour for such a door repair job," Henry says, pointing out that there are more than 50 small parts in each lock, all of them machined to extremely fine tolerances. He works daily with three types of locks: tumbler locks, warded locks in which the key does not make a full revolution, and letter locks of Yale and Sargent manufacture. The keys on these locks can be turned to more than 33,000 combinations, he says.

Sharpens Saws Too

When emergency calls and routine repair work on location do not require his expert attention, Austin can usually be found in a small shop in 887, hand filing saws to a fine edge, or performing other services when needed.

He has been an employee of the Sandia Corporation since 1948, but he can remember Albuquerque's early days—he came here in 1919!—when he made an attempt to homestead on what is now the Corporation Technical Area. "Some financial expert advised me against it," Henry recalls.

He remembers Central Avenue as a dirt street lined with ruts, and trolley car tracks that apparently never went anywhere. He has worked at Kirtland Field and for the University of New Mexico, and lives now at 5611 Fourth NW.

"I've lived here for some time," Henry reports, "watching the town grow up around me."



ROBERT E. SMITH, 5243: While I've heard a lot about the many worthwhile things done by Red Feather organizations, I am most familiar with the work the youth guidance agencies are doing for the young people and the strides being made by the Boy Scouts, Girl Scouts, "Y's" and camps to combat juvenile delinquency in our city. My 9-year-old son, **Lon Michael**, is a Cub Scout, hopes some day to be an Eagle. He's having fun, but he's also learning a lot of practical things, most important the meaning of sportsmanship.

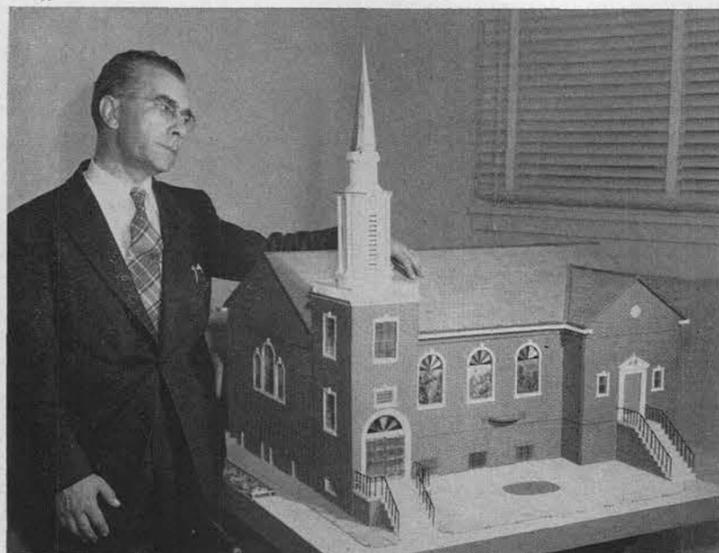


Photo by Hodges

FRANK PATTERSON views with justifiable pride his completed scale model of Detroit's Puritan Avenue Baptist Church.

Model Church Constructed by Sandian Will Be Displayed at State Fair

A thousand hours of painstaking labor have gone into the construction of a scale model of Francis Patterson's home town church. Frank, a mechanical engineer in 5511, has been working on the model in his leisure time since July, 1954. Now, as it nears completion, he is preparing it for display on a trailer specially built to carry the unique 4-foot structure. It will be exhibited at the New Mexico State Fair in September.

The church model was constructed to scale from the architect's original working plans of the Puritan Avenue Baptist Church in Detroit, Mich. Within the church are hand-carved pews, baptismal fonts, altars, wrought iron railings, stained glass windows. The windows open and close and the floor is constructed of tiny boards.

Each of the rooms is lighted electrically. Control switches and rheostats to dim the lights for various effects are located in one of the roof gables.

The model was designed for exterior display, and has been weather-proofed. Solid copper front doors of the model were hammered around hand-made dies, as was the copper steeple.

Hi-Fi Music

The lower basement floor of the model houses a Webcor high fidelity record player. Patterson can play hour-long recordings of organ music through a speaker outlet in the steeple. The entire body of the model

has been acoustically engineered to act as a sounding board for the record player.

The model is mounted on a steel display case, can be rolled about on casters.

Francis Patterson, who lived in Detroit for 20 years, was a member of the Puritan Avenue Baptist Church in that city. He acted as chairman of trustees and chairman of deacons, and during the construction of the original church, represented the congregation in negotiations with the contractor.

To Exhibit Model

He will exhibit the model in the lobby of the original church in Detroit prior to displaying it at the New Mexico State Fair. He hopes to put the model on tour, displaying it at the Council of Churches to be held in Los Angeles and New York.

Frank lives at 3381-52nd Street, Sandia Base. He is a graduate of the University of Edinburgh, Scotland, holds a master's degree from the Dundee Institute of Technology, and a degree in law from the University of Michigan. He has been a Sandia Corporation employee since November, 1949, and is active in the Crestview Baptist Church in Albuquerque where he is chairman of the finance committee.

Now that he's completed the church model, Frank looks forward to building an elaborate doll house. "Special request from my wife," he says.

Jack Windsor Named To Drive Committee

Jack Windsor, 2451, has been named a member of the Sandia Corporation Employee Community Chest-Red Cross United Fund Drive committee.

His was the final appointment to the 10-man committee which will prepare for the drive which starts Oct. 4.

-College

(Continued from page 1)

Electrical Engineering

Fundamental Electronics, Generating Stations, Transients in Linear Systems, Microwave Circuits.

Mechanical Engineering

Seminar and Similitude in Engineering.

Astronomy

Introduction to Astronomy and Physics, Descriptive Astronomy and Meteoritics II.

Mathematics

Intermediate Algebra, College Algebra, Plane Trigonometry, Introduction to Calculus I, Mathematical Probability, Advanced Calculus, Ordinary Differential Equations, Point Set Topology, Advanced Topics in Analysis.

Physics

Introduction to Weather and Climate, Heat and Thermodynamics, Optics Laboratory and Geometrical Optics, Electricity and Magnetism, General Meteorology, Synoptic Meteorology, Contemporary Physics, Statistical Mechanics and Thermodynamics, Advanced Mechanics, Quantum Mechanics, Advanced Seminar.

Singers Invited

The musical group, Sandialiers, is inviting men interested in singing with them to join their initial fall practice Sept. 6 at 7 p.m. in the Coronado Club.

Further information may be secured from Bill Bailey, ext. 56263; E. J. Szymist, ext. 31161, or Ken Pope, ext. 41138.

College of St. Joseph Course Information To Be Offered Sept. 6

Prospective students of the College of St. Joseph will have an opportunity to meet with a member of the school's faculty at the Coronado Club Tuesday evening, Sept. 6. Dr. C. M. Flumiani, director of the Division of Economics and Business Administration, will be on hand from 7 to 9 p.m. to discuss evening school and Saturday course offerings for the fall term.

Over 30 courses are available for part-time students. Subjects of possible interest to Sandians include: accounting, algebra, typewriting, commercial lettering, language arts and fundamentals of speech. Other courses of cultural or avocational interest, such as watercolor painting, music theory, and rhetoric and composition, are also available.

Registration at the College of St. Joseph will be held Sept. 10 and 12, and classes will begin Sept. 14. The school is located on the west bank of the Rio Grande, north of the city.

J. R. Townsend to Speak at Meeting Of Ordnance Ass'n

John R. Townsend, Director of Materials and Standards Engineering for Sandia Corporation, will speak at a meeting of the Albuquerque chapter of the American Ordnance Association, Sept. 1, at 7:30 p.m. The meeting will be at Mitchell Hall on the University of New Mexico campus.

Mr. Townsend will speak on "Standards—An Aid to Modern Industry."

Awarded the Dudley Medal of the American Society for Testing Materials in 1930, Mr. Townsend has served as a member of the Technical Staff of Western Electric Company, and as materials standards engineer with Bell Telephone Laboratories.



Mr. Townsend

Sandians Who Serve



—Ralph S. Fox—

Helping to plan the expansion of Albuquerque's Unitarian Church is Ralph S. Fox, 1631, a mechanical engineer in 1631.

Ralph is active as treasurer of the congregation, and is a member of its board of directors. In addition, he's a member of the building committee and ways and means committee. He's also head usher.

Until the Unitarians construct their own building members are gathering at the Danfelter School of Music. Sunday services are to resume in September following a summer recess, but committee meetings have continued throughout the summer months with work directed toward purchase of a building site.

At the present time Ralph and his wife, Kathleen, and their two young sons, Karl and Paul, are living in an apartment at 4614 Marvel NE while their new home is under construction. They previously lived in the Alvarado Heights section and Ralph was a block worker for the Alvarado Heights Civic Association.

He is a member of the Albuquerque Citizens Committee and of the newly organized American Legion Post 99. In World War II he was a naval aviator for 4½ years. He was graduated from the University of New Mexico in 1951 with a B.S. degree in mechanical engineering.

G. I. News—

From Sandians in The Armed Forces

James T. Carroll, formerly of 5424, has completed his Army basic training at Fort Ord, Calif., and is now stationed at White Sands Proving Ground. His address:

Pvt. James T. Carroll
9393 TSU Det. 1 (Box 77)
White Sands Proving Ground
New Mexico



—Art Graybill—

Art Graybill Wins State Championship In Tennis Singles

Physicist Art Graybill, 5133, defeated Paul Butt of the University of New Mexico to capture the New Mexico State Tennis Singles Championship, 4-6, 6-4, 6-4.

Art, a Sandia Corporation employee since January, 1955, lives with his family at 8506 Claremont NE. He has been a tennis player for 18 years.

He held the Los Angeles Junior Metropolitan Championship in 1941 and in 1943 and 1947 he was Southern California Intercollegiate Conference Champion.

Other Sandians who captured championships in the New Mexico Closed Tennis tournament, for which only New Mexico residents were eligible, include Hup Wallis, 1731, and Eugene Russel, AEC.

Hup and his brother, Mal, of Los Alamos, won the New Mexico State Junior Veterans' title. Play in the Junior Veterans' competition was limited to players over 32 years of age.

Gene and Russell Ball of Albuquerque, took first place in the New Mexico Closed Doubles competition.



T. P. Halloran Dies Saturday, August 13

Thomas P. Halloran, a Sandia Corporation employee since November, 1951, died Saturday, Aug. 13, in an Albuquerque hospital.

He was a personnel investigator and had been assigned to the Medical Organization, Health Services Division, 3164.

Mr. Halloran was New Mexico Director for the Conference of Christians and Jews and had been active in church work. He is survived by his wife, Ethel, who previously worked for Sandia Corporation, and two daughters, Mary Margaret and Marian Sara.

He is also survived by his parents, Mr. and Mrs. John Halloran, of Chicago, three sisters and four brothers.

Congratulations

BORN TO:

Mr. and Mrs. Albert J. Tucker, 1611-4, a son, Stephen Jay, Aug. 8.

Mr. and Mrs. R. H. Bucklew, 5352-2, a boy, Steven Patrick, Aug. 13.

Mr. and Mrs. Roland W. Kurth, 2221-2, twin boys, Roland Scott and Robin Stuart, Aug. 6.

Mr. and Mrs. Rambert Rivera, 1931-1, a daughter, Renee Denise, Aug. 5.

Mr. and Mrs. R. W. Crain, 5443-2, a son, James Bateman, Aug. 14.

Mr. and Mrs. Duard Woffinden, 5443-1, a daughter, Elaine, Aug. 17.

Mr. and Mrs. George Oltman, 5412, a daughter, Joan Marie, Aug. 11.

Mr. and Mrs. William C. Myer, 5252, a son, John Walter, Aug. 12.

Mr. and Mrs. Robert Hostetler, 5215, a son, Joseph Allen, Aug. 16.

To Mr. and Mrs. Dick Prokash, 1631, a girl, Jerry Dee, Aug. 4.

Mr. and Mrs. Arnold D. Carlson, 1240, a girl, Peggy Ann, Aug. 4.

Mr. and Mrs. Joffre Myers, 1241, a daughter, Jean, Aug. 8.

To Mr. and Mrs. O. H. Berlier, 2232, a daughter, Delia Eileen, Aug. 5.

To Mr. and Mrs. Elio Cultreri, 2111-3, a daughter, Claudia Victoria, Aug. 12.

Mr. and Mrs. Al Hoge, 2152-3, a daughter, Terry Ann, July 21.

Dr. Shreve Addresses Gravel Products Group

"Atomic Weapons and Tools" was the topic of a talk given by James D. Shreve, 5112, at a meeting of Albuquerque Gravel Products employees last week.

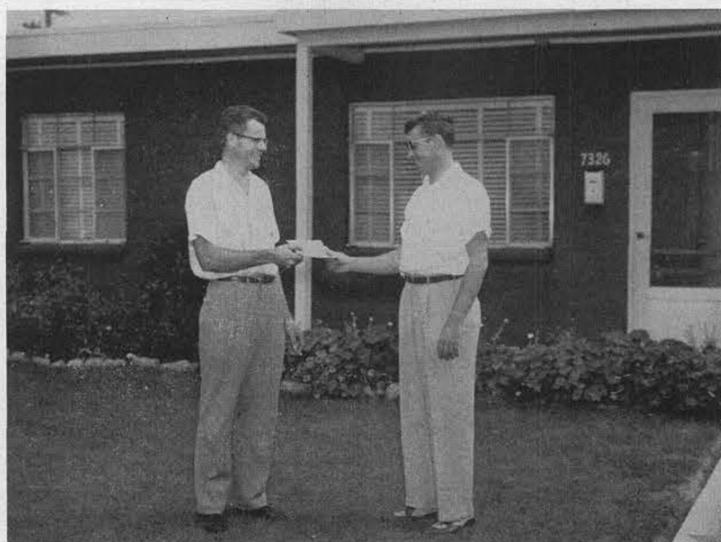
Dr. Shreve, who holds a Ph.D. in physics, discussed some of the basic differences in the manner in which fissionable material is used in weapons and in controlled reactions, such as atomic reactors. He is supervisor of the Coyote Canyon Division of the Weapons Effects Department.

Welding Society Meets

Albuquerque section of the American Welding Society will hear Harry F. Reed, manager of the technical services division of the McKay Company, speak on "Iron Powder Electrodes," Sept. 16.

The meeting will be at 8 p.m., following a dinner at Leonard's Restaurant.

Mr. Reed has wide experience in the ceramics field, acted as research engineer for the Brittelle Institute from 1942 to 1951, and has been with the McKay Company of York, Pa., since 1951.



Air Force Photo

WINNER OF FIRST PLACE in the Wherry Housing Lawn Contest is Leland D. Swanson (left), 5331-2, shown receiving his \$50 check from Ken Groves, Wherry Housing manager, in front of the Swanson home at 7326 Gerris SE.

New Mexico's Little Bernalillo Dates Back to 1540, But Is It

America's Oldest Town?

New Mexico's oldest town, and some say it is the oldest settlement in United States, is Bernalillo (pop. 2,227, elev. 5,050), a quiet little community 17 miles north of Albuquerque.

Today, the town is on U. S. Highway 85, but most of the traffic will soon bypass it on the new highway nearing completion east of the town—another step in the village's long history which began some 415 years ago.

Conquistadores Headquarters

Back in the 16th century the town was the focal point for the tide of settlers who colonized the southwestern part of what is now the United States. It was in 1540 that the colony became a command post for the Conquistadores and settlers who came from Spain to live in the Rio Grande valley.

"Where two roads branch," wrote Francisco Vasquez de Coronado, "one to Cia, one to Acoma, near El Rio de Nuestra Senora (the Rio Grande), there are many cottonwood groves, fields of maize, beans, melons and chickens in abundance."

Coronado described, too, the Pueblo village of Tiguex (where Bernalillo now stands) whose residents later defeated the ill-fated Conquistador's attempts to find golden treasures. There were no golden plates here, no precious stones, no silver altars.

The Spanish warrior found only the narrow valley, desert winds, mountains, mud, rain and heat. The fabled jackpot of the wealthy Seven Cities of Cibola never materialized.

With Spanish History

Bernalillo's history ties in with the long story of Spain's struggle to colonize the New World, and to remain here. Through Bernalillo marched symbols of man's progress from the ancient firearm, the arquebus, to the atom bomb.

In 1945 (remember?), the convoy carrying the Trinity Bomb rolled through the shuttered town at night, on the way to the first test of a nuclear weapon—the device which was to end the war.

Some historians assert Bernalillo is the oldest, continually occupied, European colony within the western hemisphere. Its claim to this distinction, however, remains tenuous and hazy.

Coronado, searching for the Seven Cities of Cibola, left Compostela, Mexico, Feb. 23, 1540. He arrived at Tiguex with the remnants of his army about March 25. In that short time he had led his armor-clad compadres across more than 2,000 miles of hostile countryside.

That bitter winter of 1540 he stayed in Tiguex. He and his half-frozen cohorts sought shelter in a "pueblo that was remarkably clean." He

writes reproachfully that the Indians he drove from the pueblo were uncooperative and unfriendly.

"They resisted our levies of food and blankets," he recorded.

Discovered Canyon

Despite the ceaseless hostility of the Tiguex pueblo peoples, Coronado was able to maintain his headquarters on the frozen banks of the Rio Grande northwest of the town. From this contested foothold in the storied Cibola country, he launched expeditions to Arizona where Alvarado discovered the Grand Canyon, north and east to Quivira (Kansas), and to the Indian pueblos along the banks of the river.

Those brief winter months, and the subsequent winters spent at Tiguex by the men of the expedition, constitute Bernalillo's claim to antiquity as a colony. Have white men lived in Bernalillo ever since then? Was this truly the first European settlement in the New World?

Modern history books say the first enduring colony in this area was established near what is now Bernalillo in 1698. Some descendants of Bernal Diaz de Castillo, a follower of Cortez in the bloody conquest of Mexico, came here to live at that time.

This date, 1698, follows by more than 100 years the founding of St. Augustine, Florida, on September 8, 1565.

Ft. Nassau Older?

Again, there's the claim of the Dutch colony known as Fort Nassau, settled in 1623. It lays claim to being the longest, permanently settled town in America. Today Fort Nassau is known as Albany, New York.

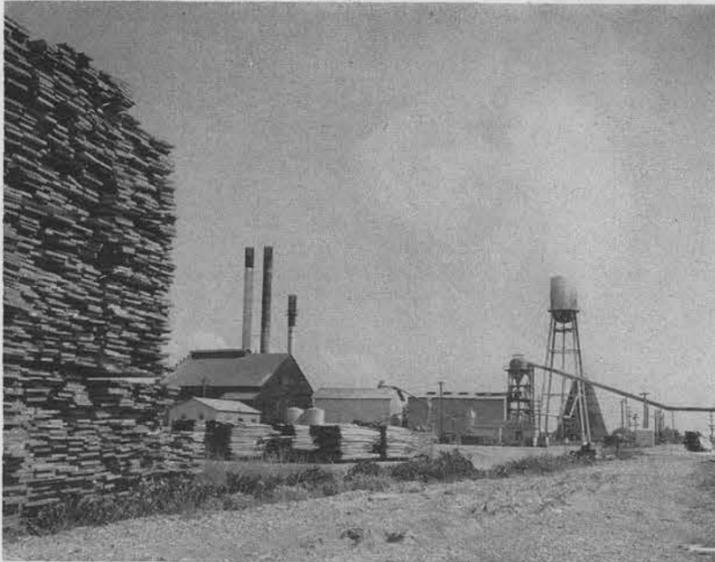
Be this as it may, the Pueblo Indian residents of Bernalillo, Tiguex of another day, may have dwelt there continuously since 1200 A.D.

Bernalillo, nowadays, is a shipping point for livestock, some fruit, lumber products and dairy items. Its people for the most part are farmers, ranchers and truck gardeners. Even though the new highway will by-pass the town, there is no indication it will be seriously affected. Another phase of a long and proud history will have passed, but another will be beginning.

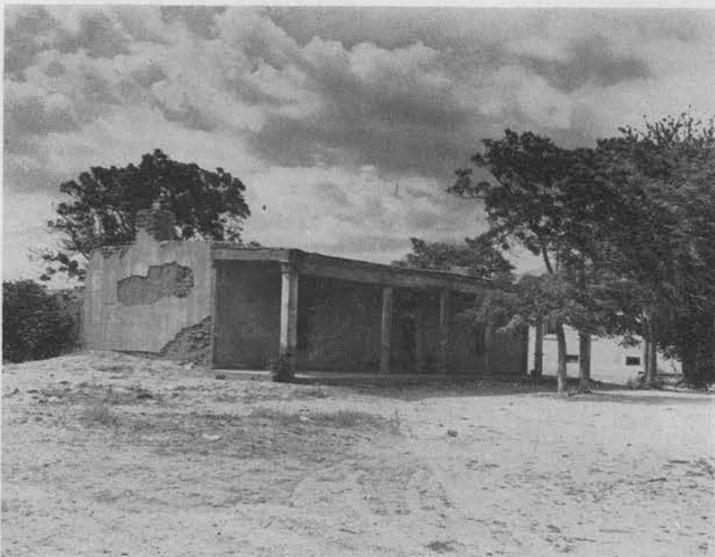


OUR LADY OF SORROWS church in Bernalillo is Three times in history the church structure has been about 100 years old—not old by Bernalillo standards. destroyed by flood waters.

—Photos by Dunlap—



MODERN BERNALILLO—Though highways may by-pass today's Tiguex a lumber mill flourishes, provided with timber from the nearby mountains.



AGE UNKNOWN, but said to have once been a stage coach stop, this old adobe structure shows the ravages of time. Located on the main street of Bernalillo, the building had a second story until just a few years ago when it was removed.

Latin American Dancing Lessons Beginning Sept. 19

The second in a series of Latin-American dance courses begins Sept. 19 at the Coronado Club, according to Martha Howard, entertainment director.

The ten-week course, designed for beginners, will provide instruction in the rumba, tango, and samba. Ten step patterns will be taught for each dance, progressing gradually from basic steps through more advanced routines.

Class sessions will be of two hours' duration, with formal instruction offered during each first hour, and the second hour being devoted to supervised practice.

The dancing classes will be limited to 15 couples.

Registrations for the courses will be taken during the period Sept. 1 through 19. Tuition fees are \$6 per person, payable in advance at the Coronado Club offices. Instructor for the course is Justin Heineman, 5568.

UNM Counselors to Meet Sandia Students At Coronado Club

Members of the faculty of the University of New Mexico will meet with interested employees of Sandia Base and Kirtland Field at the Coronado Club, Monday evening, Sept. 12, at 7:30. Registration will be Sept. 16 and 17.

Representatives of various colleges and departments will be present to give advice and information on courses being offered for the fall term which begins Sept. 19. UNM Registrar J. C. McGregor says that a large variety of credit and non-credit courses are being offered this fall in both evening and Saturday classes.

Elsewhere in this issue of the Sandia Lab News are listed the evening classes which are of greatest interest to Sandia Corporation employees.



EL CAMINO REAL, the old trail to Santa Fe, passed near the Bernalillo of a hundred years ago. Today the Super Chief roars through the village without stopping.

shopping center

CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication.

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 Corporation and AEC employees only
6. No commercial ads, please

Next Deadline: Noon, Sept. 2

FOR SALE—

TWO SKYE TERRIER puppies, 3 mos. old, AKC registered, reasonable. Weinreich, Alb. 4-6213.

HEATH PREAMPLIFIER, birch container, 2 years old \$10. Gerber, Alb. 5-0291.

TRAILER, 1953, 22 ft., Terry Rambler. Wood, Alb. 4-3511.

FORD, 1951, 6 cyl., best offer over \$400. Shzum, Alb. 5-1904 evenings.

KLIPSCHORN 2-way corner speaker system, 15-in. woofer, X over network, University tweeter, rattan trim \$150. Talley, Alb. 6-6748.

TWO CAMPING TRAILERS \$295 and \$395. Southerland, 336 Gen. Somervell NE, Alb. 6-5865 or 6-5426 after 5.

DRAPES, for large picture window and smaller window, French pleated, custom tailored, gray, off-white lining. Myers, Alb. 2-1106.

CHEVROLET 2-door, 1951 \$650. Worth, ext. 3-4193.

SWORD, museum Kamato Samurai, silver inlaid, 300 years old \$29, or will trade for old guns. Smitha, 8607 Menaul, Alb. 6-9493.

SADDLE HORSES, colts, Saturdays, Sundays only. East on 66, 1 mi. past Comers, right 9 miles, follow signs. Redlinger, ext. 46244.

SINGER treadle sewing machine \$20. Laskar, Alb. 3-1554.

CHEST, walnut, 5 drawers \$15; Maytag 42-in. Dutch oven gas range. Stewart, ext. 51272.

TRAILER, one wheel, 4x5 box \$40; Nesco electric roaster \$15; 2hp outboard motor, oars \$25; Bendix washer \$18. Finders, Alb. 5-4408.

TWO BEDROOM HOME, wall, trees, lawn, 1/2 block Whittier school, near bases, shopping center. Smith, 1206 Jackson SE, Alb. 6-1665.

DIVAN, grey floral design; high chair, converts to play table \$7; nursery chair, baby mattress \$6. Wright, Alb. 5-5386.

CRIB, blond, full size, springs, worn mattress \$15; almost new inner spring mattress, box springs, steel frame \$55. Willett, Alb. 7-8551.

CRIB \$10; youth bed \$10; double bed \$7.50; hard wood table 40x40 (small split) \$15. Sorley, Alb. 5-9217.

BOAT, Shell lake model, 16-foot, with 2 motors, trailer, also 2 male Pekinese pups, AKC reg. Whitehill, Alb. 6-6777.

HOUSE, 2 BR, with carpet, sprinklers, wall, \$9450. Smith, Alb. 6-9411.

HOUSE, 2BR, fence, garage with workshop, trees, \$6000, all cash. Skelley, 447 Louisiana, SE.

MOTOR, Maytag gasoline model, \$10. Marchbanks, Albuq. 4-3359.

HOUND, beagle, male, 5 weeks old, AKC reg. Kindschi, 3820 La Hacienda, NE.

WASHER, Maytag Model E with square aluminum tub, \$75. Johnson, 2842 Bel Air, NE.

PUPPIES, Dachshund, 1/2-registered, \$10 ea., also 30.06 Enfield, sporter stock \$40. Pfeffer, Alb. 6-3200.

TRAILER, 2-wheel utility, 7 ft. long, 6.70x15 tires, tail lights \$45. Shew, ext. 22156.

PARTITION, folding accordion, 8' high, 8-10' wide, makes two rooms of one \$75. Shunny, Alb. 5-2005.

HOUSE, 2 BR stucco, close in, tiled bath, double garage, low down payment, \$9000. Ozmina, Alb. 2-0413.

PROJECTION SCREEN, 50x50 Radiant Colormaster with case, \$32. Keller, Alb. 5-9456 after 5.

'51 STUDEBAKER Land Cruiser, automatic transmission, R&H, turn signals, \$550. Ansley, Alb. 3-9735.

TRAILER, utility, 4x7 1/2. Wiesch, 2912 Cagua, NE.

DAVENPORT, chair (rose upholstering), buffet, all \$100 or best offer, cost \$350 2 years ago. Hoff, Alb. 5-7274.

MOUNTAIN CABIN, north Sandia Mountains on running stream with large fireplace. Gowdye, Alb. 3-8216.

'48 FORD 4-dr sedan, 6-cyl., \$100 or best offer. Pollard, Alb. 5-5126.

CUMMINS SHOP, mounted \$50; portable patio lamp \$7.50; 1931 Model-A convertible \$150. Cromie, Alb. 4-2801.

TWO BEDROOM HOME, Hoffman, corner lot, brick tile exterior \$8,500. Loeschen, Alb. 6-8160 after 5.

MAYTAG WASHER, wringer-type, pump \$45. Spack, 7809 Bellamah NE, Alb. 6-6030.

MOTORCYCLE '49 Harley Davidson 74, OHV, Hydra Glide, new paint, battery \$325, part cash, part trade. Sortland, 3406 Montclair NE, Alb. 4-3149.

DUPLEX, one bedroom, near Kirtland, furnished. Cox, Alb. 5-2828.

HALLICRAFTERS S-53, good condition \$60. Woffinden, Alb. 6-4852.

BABY CRIB and chest of drawers \$25; 6-in. lathe and motor \$35. Freedman, 608 Dakota St., SE, Alb. 5-3623.

FLOOR LOOM with accessories, 39-in. 4 heddle, easily stored, some yarn included. Neeves, 202 Sycamore St., NE, Alb. 3-5874.

GOLF BAG, never used \$10. Blakely, ext. 2-9145.

THREE VENETIAN BLINDS, good shape, for 36-in. window. Lang, Alb. 5-7953 after 5:30.

WALL TENT, 12x14; Coleman stove; lantern; campers icebox; umbrella tent 9x11. Milton, Alb. 6-4384.

HOFFMAN deluxe brick three bedroom home, two baths, dining room, \$2,500 down. Little, 2710 Mesa Linda Dr., NE, Alb. 6-3768.

BOXER, female, 6-mos. old, all shots, ears clipped, papers \$90 or best offer. Brandenburg, 2804 Parsipal NE, Alb. 5-3658.

KOROSEAL POOL, 7-ft.; boy's 26-in. bicycle, balloon tires \$10. Castle, Alb. 5-8162.

1947 BUICK sedanet, recently overhauled engine, new tires \$200. Linde, Alb. 6-5682 after 5.

B L O N D E RADIO-PHONOGRAPH, 3-speed. Clinton, 532 Cedar SE after 5.

APT. SIZE electric range \$68.50. Fesler, 8902 Phoenix, NE, Alb. 5-6603.

GE AIRLINER electric range; set of lined drapes; dachshund puppies, AKC registered. Fox, Ext. 33163 or Alb. 6-2606.

1952 JAGUAR XK-120 roadster, \$1795. Siler, 3157 44th Pl., Sandia Base, Ext. 2-5173.

DIVAN, 3-cushion, \$25 or best offer. Corkran, Alb. 5-1793.

WALNUT GATELEG TABLE, \$20. Wilson, Alb. 6-1847, 7613 Euclid.

HALLICRAFTERS S-38 receiver, 4 new tubes, \$30. Ruddy, Alb. 5-8542 after 6.

4 BR HOME, walled, landscaped, patio, near schools, bus, shopping, low down payment. Kaspar, 3224 Ortiz Dr., NE, Ext. 47287.

DINETTE SET, 5-piece, yellow chrome, extends to 60 in. oval \$50. Luckett, Alb. 6-2346 after 5.

CHIHUAHUA PUPPIES, AKC reg., males, females. Arthur, Alb. 4-3354 after 5 p. m.

KELVINATOR refrigerator, 11 cu. ft., 40 lb. freezer chest \$135; apt. size washer \$15. McMaster, Alb. 4-2703.

SERVEL REFRIGERATOR, 8 cu. ft., 5-yr. guarantee \$95; O'Keefe & Merritt 30-in. gas range \$85. Graving, 328 1/2 Truman, NE.

MOUNTAIN HOME, cabin, utilities, 6 mi. north on Highway 10, turn right at San Antonio, go 1.3 miles. Erickson, Alb. 6-6717.

'48 STUDEBAKER, R&H, overdrive, insurance \$19 per year \$250, consider camping equipment part payment. Copeland, Alb. 5-4688.

BLOND MAHOGANY coffee table, Drexel, with magazine rack, glass top; cement laundry tub with faucets. Preston, Alb. 6-4565.

BOXER PUPPIES, AKC reg., beautifully marked, flashy, championship lines. Lindsey, 524 Jackson SE, Alb. 6-2632.

RIFLE, .32 Marlin special, new, never used \$60. Nelson, Alb. 6-7982.

HOME, small down payment FHA, landscaped, 1/4 acre ground, 3 bedroom, garage. Garrett, Alb. 5-6330, see at 2101 Palomas NE.

THREE BEDROOM HOUSE, different, 1 1/4 baths, pine panel den, 2 car garage, workshop, patio, carpeted, large trees. Brown, 2336 Gen. Bradley NE, Alb. 6-3461.

HOME IN SANDIAS, furnished, modern, N. Highway 10, accessible all year, easy terms or lease. Richardson, Alb. 5-2218.

COUCH, small, red frizze, makes into bed \$40. Walker, ext. 3277 after 5.

WANTED—

RIDE from 400 block Dallas NE (vicinity Tesuque Drive-in) to Medical or Adm. Bldg. Rebecca Wade, Alb. 6-4895.

MEMBERS for car pool from vicinity of Vassar and San Rafael, SE. Shurter, Alb. 2-5677.

RIDE from 1206 Coal, NW to 800. Julie Leal, ext. 22163.

GIRL to share home, private room. Gloria Maginnis, Alb. 6-5692 after 5.

RIDE, riders or join car pool from 1900 Five Points SW or 3rd & Bridge to 892. Gallegos, Alb. 2-9632.

INFANT CARE in my home day or night. Mrs. Scott, Alb. 6-7139.

RIDE from Snow Heights No. 2 to Tech Gate 5. Puder, ext. 26135 or 25253.

RIDE from vicinity 61st and Central NW or 61st and Bluewater NW. Raye Knoff, Alb. 3-9023.

Fords Win Top Place In Summer Bowling Events

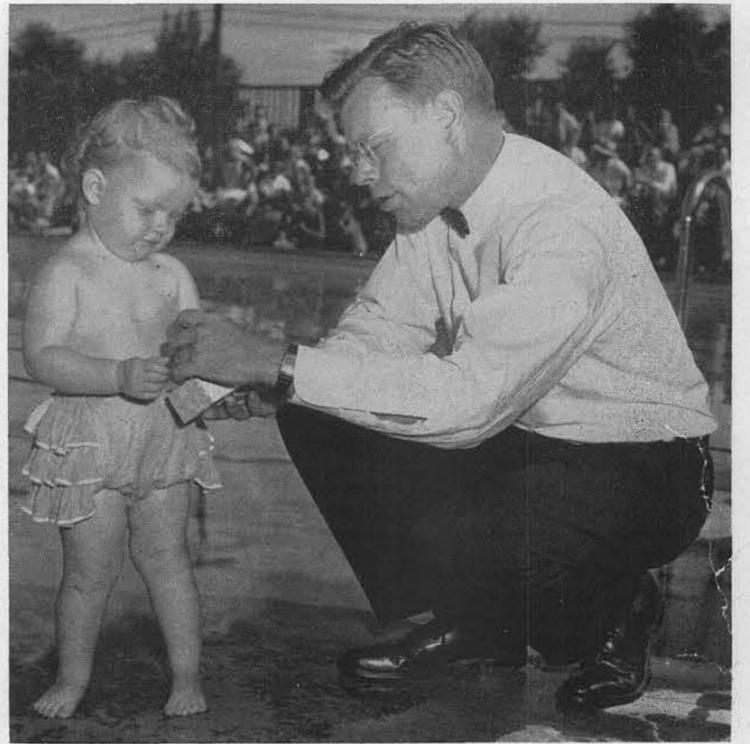
Summer bowling at the Coronado Club drew to a close this week as Cliff Boxx rolled High Individual Game, and Norma Anderson took similar honors for the women.

Taking top notch in the play-offs were the Fords, who won 31 1/2 games, losing only 16 1/2. In runner-up position were the Chryslers, 28-20, and the Cadillacs who took High Team Series with a 2655 total, came in third, winning 26 games, losing 22.

Winner of High Individual Series was Charlie Kaspar who tallied a nice 567 pins, as Marty Baldwin came in second with 510.

Final standings were:

Team	Won	Lost
Ford	31 1/2	16 1/2
Chrysler	28	20
Cadillac	26	22
Plymouth	24	24
Buick	23	25
De Soto	22 1/2	25 1/2
Dodge	22	26
Pontiac	15	33



Bathing beauty, left above, was winner of contest held at Coronado Club pools. She is Susan St. Claire, daughter of Jackie St. Claire, 5513. James McRae, Sandia Corporation president, awards contest prize.

Volleyball League Now Being Formed

Play in the Sandia Corporation Employees Volleyball League begins the week of Sept. 19.

Teams and individuals interested in playing in the league are urged to contact Arnold Schuknecht at ext. 29157.

All Sandia Corporation and AEC employees are eligible for the league. Individuals desiring to affiliate with a team should register with the recreation section.

RIDERS to Oakland, Calif., Sept. 9 and return Sept. 24; room for one or two. Jordan, ext. 2-6152.

RIDE from vicinity of Montclair and Lomas NE to either tech area gate. Virginia Cameron, Ext. 22232.

ANYONE witnessing the accident noon Aug. 12 at Ridgecrest and Gibson please contact Joseph Muench, Ext. 27264.

TO JOIN car pool from vicinity of 8809 Aztec Rd. NE to Bldg. 802. Sirwinski, Ext. 35133.

TO JOIN or form car pool from Hoffmantown to Adm. Bldg. parking lot. Maase, Alb. 6-8450.

CUSHMAN SCOOTER in excellent condition. Pfeffer, Alb. 6-3200.

DRAFTING EQUIPMENT in good condition. Speakman, 3317 Cypress SW.

RIDE to New York or Pennsylvania, to leave Sept. 2. Will help drive and share expense. Burke, Alb. 5-8805.

DRIVER to join car pool from vicinity Candelaria and Indian School Road on Rio Grande. Warner, Alb. 4-0631.

RIDERS to Los Angeles early in September, or to New York. Zitzman, ext. 44164.

TWO DRIVERS for car pool from Rio Grande and Candelaria to Bldg. 802 or Gate 4. Galbreath, Alb. 4-4306.

RIDE from 2900 San Mateo NE to Kathryn and Florida SE. Fullerton, ext. 32153.

RIDE to 800 from 1000 block Broadway or Arno SE. Beatrice Martinez, Alb. 2-8595.

FOR RENT—

DUPLEX, 2-bedroom, stove, refrigerator \$80, 4 blocks from university. Pasko, 1717 Hazelbine SE, Alb. 5-3309.

PLEASANT ROOM in private home, adjacent to bath, garage available. Cunningham, 3032 Delano Dr. NE, Alb. 5-4570.

ONE BEDROOM HOME, small, furnished or unfurnished, close to Sandia Base \$35 per month, children welcome. Benneche, Alb. 4-1892.

MODERN HOME, all conveniences, near bus and school, 1609 Third St. SW. Aragon, Alb. 2-9632.

3 BR UNFURNISHED HOUSE, 1 1/2 baths, service room, close to both bases. Pena, 8818 Cordova NE, Alb. 2-6707.

3 BR AND DEN house, 2 baths, furnished, fully carpeted, across street from school, for min. 1 year lease. Schaefer, 9209 Shoshone Rd. NE, Ext. 43154.

3 BR BRICK HOME, Hoffmantown, 1 1/4 baths, garage, landscaped, wall, \$125, water paid. Schaefer, 8414 Candelaria, Alb. 6-3700.

2 BR HOUSE with electric stove, refrigerator and automatic washer. \$75. Cervantes, Ext. 31157 or Alb. 5-6832.

1 BR APT., furnished, carpeting, close to Sandia, available Sept. 1, \$60, water and lights paid. Lucille Long, Alb. 5-0106.

BEL-AIR 3 BR house, 1 1/4 baths, 4819 Cherokee NE, close to schools. Champe 4-3565 or 4-0420.

LOST—

DARK MAHOGANY mirror post while moving from Wherry to 3100 37th Place. Williams, ext. 4-8157.

TRADE—

.22 REVOLVER for oxy-acetylene welding outfit, also pay cash for spinet piano. Flowers, Alb. 6-1656.

400 Coronado Club Members, Guests Witness Giant Water Sports Carnival

More than 400 Coronado Club members and guests witnessed the Annual Water Sports carnival, held at the Club this year for the first time in two pools.

Featured during the three-hour show were a bathing beauty contest for girls six years old and younger, fancy diving exhibitions, water ballets, and swimming races.

Ellen Green and Phoebe Miller starred in water ballet acts, and a comedy skit was presented by Shirley Harvey and Kay Jones.

Winners of all events were awarded medals, and other trophies.

Chairman of the event was Jim Hook, 2520. Committee members assisting included Bill Meyer, 2521, Margaret Whalon, 2464, Kay Jones, 2520, and Bill Harvey, 2613.

Event Winners

Winner of the Junior Boys Swimming Race was Bob Henderson, who swam one length of the pool in 15.8 seconds. Runner-up was Bill Henderson, and Bruce Taylor came in third.

Patsy Marshall won the Junior Girls Swimming Race. Elisa Cundiff came in second, Barbara Glass, third.

Bruce Taylor won the Boys Diving event, with Jim E. Taylor in runner-up position, and Henry O'Keefe was third.

In the Intermediate Boys Swimming Race, Tom Moffat was first. Bill Fenstermacher, second, Jim E. Taylor, third.

Holly Lea took first place in the Intermediate Girls Swimming Race; Angela Dunn was second, Lynn Erickson, third.

Burt Bittner, 5412, took first prize in the Men's Swimming Race. Louis Johnson came in second, and Bob Perrot, third.

In first place for Underwater Distance competition was Tom Moffat, and second, Bob Perrot. Charles Abernathy was third.

Master of ceremonies for the Carnival was Don Jenkins, 3154.



SHIRLEY HARVEY, 1925-3, clowns as "Miss Belen" during a comedy skit.

O'Connell Elected President of Sandia Base Handicap League

Robert A. O'Connell, 5421, was elected president of the Sandia Base Handicap League, known last year as the Sandia Base Minor Bowling League.

James J. Schenck, 2415, was chosen vice-president, and Bob Jacobs, 5524, secretary.

League play opens Sept. 8 at the Bowl-o-Drome.

Vacancies in the League for both individuals and teams are still available. Managers are asked to contact Bob Jacobs at ext. 49151.

Double Elimination Softball Tourney Starting for Sandia Teams Aug. 31

Regular play in the Sandia Corporation Employees Softball Leagues ends Aug. 30. The Braves of "A" League and the White Sox of "B" League are expected to top their respective leagues with landslide season records. Both teams are so far undefeated.

Following the close of season play, a 14-team double elimination tournament begins Aug. 31.

Top-seeded teams for the tourney are the champion Braves of "A" League, and the runners-up Dodgers. No teams were seeded from "B" League.

Teams will play each week night, excepting Friday and Monday of Labor Day week-end, until completion of the tourney. Game times are 7 p. m. and 8:30. Play takes place on the Sandia Base softball fields adjacent to the new Base gymnasium.

"A" LEAGUE		
Team	Won	Lost
Braves	9	0
Dodgers	6	2
Indians	5	4
Padres	4	5
Yankees	4	6
Orioles	3	6
Athletics	1	7

"B" LEAGUE		
Team	Won	Lost
White Sox	9	0
Tigers	8	2
Stars	5	4
Solons	5	5
Oaks	3	6
Senators	2	8
Angels	1	8

Ladies Bowling

A meeting of the Ladies Jewette Bowling League will be held at the Coronado Club Sept. 6 at 7:30 p. m. All women interested in joining the league are invited to attend this meeting to set up the teams for the winter season to start Sept. 13.