

SANDIA LAB NEWS

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

Vol. 8, No. 14

ALBUQUERQUE, NEW MEXICO

July 27, 1956

Study of Mars Will Test New Tracking Telescope Camera

Mars, not the God of War, but the planet some 35 million miles away, will be used by Sandia Corporation in a project which will provide data for the International Geophysical Year in 1957.

On Sept. 7, 1956, the planet will be at its closest approach to Earth in 32 years.

During the days near Sept. 7, a delicate instrument developed by Sandia Corporation weighing 2½ tons will track the planet, keeping its 24-inch eye trained on Mars' turbulent atmosphere.

A mass of other electronic devices including an image-orthicon tube (TV camera) will be attached to the telescope. Through the use of these devices, Dan Fenstermacher, 5221, says it might be possible for the telescope to photograph the "canals" on Mars—a feat that has been attempted many times but has never been successful because of interference of the earth's atmosphere.

Fortunate Coincidence

"It was coincidence," Dan said, "that the development of this

tracking camera coincided with the close approach of Mars. It is standard procedure for all of our optical devices to be tested for accuracy by sighting on the stars."

The mount for the telescope, called a Sidereal Test Stand, was developed for this purpose. It contains a clock-drive mechanism and an electronic control panel. This mount will be used to test other tracking cameras in the future.

"In this instance, we will test the instrument by sighting at Mars. If our electronic optic system performs as we think it will, then we should have a much larger image than 24-inch instruments usually give," Dan said.

Field Test personnel hope the image-orthicon tube will permit electronic amplification of the image.

If the tube can be made to be selective in its image formation and amplify only the moments of clear atmosphere and good seeing, yet maintain a constant picture, the 24-inch scope could perform

optically better than much larger instruments, Dan said.

Any scientific information discovered during the observation of Mars will be turned over to a regular observatory for further research, he said. All results will be considered as Sandia Corporation's contribution to the Geophysical Year, an event sponsored by national and international scientific organizations.

In any event, Dan says, the instrument will be one of the largest tracking telescopes in use in Sandia's weapons development program. With its longer focal length and greater light gathering power, it will be possible to take pictures of stars at magnifications and shutter speeds heretofore impossible.

The heart of the telescope is 24-inch fused quartz mirror—one of the largest of this type in existence. The blank was cast in England by the Thermal Syndicate and was ground and aluminized by Perkin-Elmer Corporation of Norwalk, Conn. It is one of two owned by Sandia.

Designed by 5220

The magnifying power will range from 60 to 1200 diameters. Focal length will be 10 feet. The tube will be in three sections made of cast aluminum. It will be filled with helium and sealed for better control of temperature variances.

The telescope was developed by the Optical Development Group, 5221-1, of the Tracking Systems organization. In addition to Fenstermacher, Kenneth Kemp, Dan Parsons, Irv Lenz, C. A. Coonce, Paul Travis and Kurt Schikowski were responsible for solving various design problems of the instrument. John Eckhart is Division supervisor.

John Lannon, 5221, Stan Reynolds, 5222, and Melvin Brock, 5222, designed the electronic controls.



PLANET MARS will be tracked by members of the Sandia Corporation Optical Development Section, 5221-1, in September. Above is a quarter-scale model of the 24-inch tracking telescope which will be calibrated by the sighting the planet when it comes within 35 million miles of the earth Sept. 7. L to R: C. A. Coonce, Dan Parsons and Dan Fenstermacher who are designers of the telescope.

Sandians Have Entries In Commercial Art Show

Nine Sandians have entered exhibits in the first annual exhibition of the Albuquerque Commercial Artists. The display at the University Art Gallery has been open to the public for the last week and will close August 2.

Four artists from the Technical Art Division, 2463, have entries in the show and four photographers from the Photography section 2462, submitted pictures. The other entry is from Art Lites, Composition Section of the Military Publications Department, 7120.

The artists are Dick Strome, Leo Ortiz, Brand Hening, and Millard Taylor. Photographers are Wally Boyes, Roy Dunlap, Dick Hodges and Bill Laskar.

Prizes will be awarded to the most outstanding work in the show and to winners of the various categories.

Motorists Requested to Reserve Parking for Handicapped Persons

Throughout the area there are a certain number of parking spaces which are marked "Reserved." Motorists are urged to respect these signs.

There have been recent violations in the parking spaces north of Bldg. 880. These particular spaces are reserved for physically handicapped persons working for the Corporation. Spaces number 213 to 230 — and marked "reserved" — are for their use.

Other restricted spaces throughout the parking lots are for use of official vehicles, loading, for the benefit of persons conducting business with the Corporation and other particular reasons.

Department Manager Transfers Other Changes Are Announced

A series of organization changes and supervisory transfers have been announced by Sandia Corporation.

L. E. Hollingsworth, who has been manager of 1240, has been transferred to Livermore, Calif., Branch of Sandia Corporation where he will lead the newly formed Engineering Department 1270. The change will be effective September 1. He will share resident management duties with W. J. Howard, manager of Engineering Department 1250 at Livermore.

Another recently announced transfer from Livermore is Walter Dzigan who will head a new personnel organization, Section 1253-3 effective Aug. 1. He is being replaced as Supervisor of the Base Housing Section 3122-2, by Jay Davidson.

E. H. Draper, formerly of San-

dia Corporation and more recently with Avco Manufacturing Company, in Connecticut is returning to Sandia Corporation about Sept. 1 as manager of Engineering Department 1240, replacing Hollingsworth.

Four other Department managers are being rotated to new positions effective Aug. 1.

W. A. Gardner, presently manager of Dept. 1280, will become manager of Test Laboratory Department, 1610, replacing T. B. Morse who will head the newly created Facilities Engineering organization, reporting to J. R. Townsend, 1600. C. H. DeSelm is to be manager of Auxiliaries Engineering Department 1280, and replacing him as manager of Engineering Department 1210 will be W. C. Scrivner. H. H. Patterson is being transferred to Mr. Scrivner's former position of manager of Project Department 5250.

S. C. Hight Gives 2 Lectures At Colorado College Seminar

S. C. Hight, Director of Research, 5100, returned last week from a three day lecture stint at Colorado College, Colorado Springs. He addressed a group of specially selected high school science instructors attending a "Science Teaching for Modern Society" seminar.

Mr. Hight was among the 11 leaders in science, government, education and industry invited to speak at the seminar. He participated in a panel discussion of scientific problems in industry. The panel appeared on a Colorado College sponsored television broadcast July 18.

"The Status of Application of Solar Energy in the World" was the title of one of Mr. Hight's lectures. He suggested experiments to use the sun's rays to do work, such as heating, cooling, pumping, distilling, as an exciting new field for high school science projects.

"Cooperation Between the Dis-

ciplines," Mr. Hight's second lecture, discussed scientific teamwork. He observed that the exchange and growth of knowledge resulting from cooperative scientific enterprises is one of the most thrilling aspects of modern technical work. He illustrated the talk with unclassified color slides of some Sandia Corporation projects.

The objectives of the seminar were to improve science teaching and to seek a means of stimulating interest in science among students who show talent in this direction. It emphasized the necessity for training young scientists and the great opportunities that are open in this field.

IRE President Speaks to Local Section August 3

The national president of the Institute of Radio Engineers,

Arthur V. Loughren, will address the Albuquerque - Los Alamos Section in August. The meeting will be Tuesday, Aug. 7, at 8 p.m. in Room 101 of Mitchell Hall, UNM, according to H. H. Patterson, 1430, chairman of the meetings and papers committee.

The meeting will be open to the public.

"Origin of Color Television Standards in the USA" is the title of Mr. Loughren's talk. Until recently he was vice-president in charge of research for the Hazeltine Corporation, Long Island, N.Y. He is also executive vice-president of Hazeltine Research, Inc.

He is currently vice-president of the National Television System committee. He was awarded the David Sarnoff Gold Medal in 1953 by the Society of Motion Picture and Television Engineers for "Meritorious Achievement in Television Engineering."



Arthur V. Loughren

★ Car Owners Urged To Get Insurance Decals Promptly

Sandia Corporation employees who drive cars onto Sandia Base are urged to renew the date decal which indicates that insurance requirements are being met.

Notices of the insurance expiration are sent out each month from Employee Services Office and should be completed and returned through company mail promptly. The new decal will be issued immediately.

Initial registration of cars being driven on the Base is handled by the Provost Marshal's office. Only the decals indicating expiration of insurance come from Employee Services.



Photography by Photographic and Reproduction Division

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prior to publication

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Cherry Fellner, Don Graham, Assistant Editors
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Would You Hire Yourself?

A Sandia Corporation employee who once was an employer in private business offers this series of questions for self-examination.

1. Are you a willing worker?
2. Do you ever stay a few minutes overtime to finish a particular task?
3. Are you punctual and dependable?
4. Can you keep business confidences?
5. Are your job skills and speeds above average?
6. Do you get along well with other people?
7. Do you offer to help others when they are swamped with work?
8. When you make a mistake, do you admit it, rectify it, and not make the same mistake again?
9. Do you observe rules?
10. Can you leave your personal problems at home?
11. Do you ignore rumors and refuse to gossip?
12. Do you keep yourself well-groomed?
13. Do you dress appropriately?
14. Do you keep your work area neat?
15. Do you avoid making personal telephone calls during working periods?
16. Are you thrifty in the use of office supplies?
17. Do you take pride in your work?
18. Do you work safely?

Take a look at your answers and see how many "yes" answers. Then ask yourself once more: "Would I hire myself?"

Speaking of Reporters

This is another in a series of articles telling of the work of the volunteer reporters of the Sandia Lab News.

One of the Sandia Lab News' newest reporters is Priscilla Benelli, a messenger in Personnel, 3153.

"Pris" explained that she has been "exposed" to journalism for some time since her husband, Ron, is a free-lance writer. Right now he is baby-sitting with their 15-month-old son while working on TV scripts and short stories.

The Benelli's also have two other sons, ages 3 and 4.

Pris and her husband met while they were both attending the University of New Mexico. Although a home economics major, she admits that Ron had to revise her menus a little. Now he admits she makes "pretty good" spaghetti, but says that her Irish stew will never compete with that made by his grandmother.

Aside from cooking, swimming



Reporter Benelli

and dancing, Pris also likes to work with Ron in making small items for their house. Their last project was a copper covered Early American planter box.

Earns Scholarship

A scholarship to Baylor University School of Nursing has been awarded Dianne Endres, daughter of Carl, 1611, and Marjorie Endres, 5125.

Dianne is a graduate of Highlands University and will leave for Waco, Texas, in the fall.

With Evaluation Group

Members of the Evaluation Committee which observed operations of the local Civil Defense organization in the recent tests included Sandians Warren Taylor, 5133, Albert Goodman, 5133, Charles Stephenson, 5132, and Walter Wood, 5122. They summed up their criticisms in a report submitted to the defense group.

Sympathy Note

Sympathy is extended to Mrs. Pat Turner, a former Sandian, whose mother and sister were killed in an auto accident near Le Grange, Ill. Her husband is Ellis Turner, 7422.

Friends, Indeed

A "money tree" containing contributions and best wishes from more than 150 Sandia Corporation workers, was presented July 19 to Mrs. Earl Shannon, whose husband is a staff assistant in 5213.

Mrs. Shannon has a delicate heart condition and the couple is presently awaiting results of recent tests to determine if she also has cancer.

The good will gesture was made in the hope of a more promising future for the Shannons.



COOL MAN! One brave soul recently reported for work in clothes appropriate for 90-degree plus weather. Bernie Roisma, 5254, showed up one day in Bermuda shorts and knee-high socks. It's reported that numerous men at Sandia Corporation's Livermore Branch are also choosing the comfortable way of beating the heat. M. A. "Pete" Palmer, 5216, photographed the garb; cane and cigarette holder are courtesy of Artist Leo Ortiz, Technical Art.

Sick Report

Co-workers in 2321 wish a speedy recovery to Joyce Coffee's nine-year-old son, Drew, who was returned to Bataan Hospital suffering from effects of previous major surgery.

Mary Catalo, 2419, is at home at 8109 Hannett NE following her fourth trip to the hospital in the last six months. She is now well on the road to recovery.

Birthdays and Births

Birthdays and births coincided surprisingly during one 12-hour period to employees in 2521.

Patrick Paul Jordan tipped the scales at 10 lbs., 9 oz. when he was born to Mr. and Mrs. Barney Jordan on July 16, which was also his paternal grandmother's 70th birthday.

Paul Gaither was not too surprised when his infant daughter, Debra Louise Gaither, was born on the 17th — it runs in the family. His birthday is September 17, his wife's is August 17 and their small son missed the magic date by only an hour being born October 18.

Navy Veteran

Gert Butler, 5211, and Charlie Butler, 7218, welcomed back their son, Bruce W. Butler, after four years of service with the U. S. Navy. For the past year Bruce has been with the flagship of the Sixth Fleet in the Mediterranean as a Communications Technician, Second Class.

He will enter UNM in the fall.

Condolences to Ed

The birth of Calico Kate's 53rd offspring was marked by Ed L. Johnson, 7216 Administrative Assistant to Department 5210, who passed around jelly beans. Kate is the Johnson family's favorite feline and the newest litter numbers five.

Ed says the kittens are of "back fence breed" and are not to be confused with "alley cats" as the Johnsons don't have an alley. Gainsborough, as one of the kittens with bluish hair has been named, and his kin will shortly be ready for adoption at 908 Amherst Dr. NE.

Exhibit "B" Sabotaged

This is the saga of four frustrating days in the life of Orlando Uliarri, 7241-1.

Orlando sported an outstanding beard during the 250th celebration and he wanted to record the attraction on film.

Friday the 13th he put a new roll of film in his camera, donned a derby and bow tie, and posed for a whole roll of pictures. The camera was found to be defective—no pictures.

Saturday he posed again after repairing the camera and purchasing a roll of colored film and flash bulbs. Camera worked fine, but in removing the film it slipped out of his hand and completely unrolled.

Sunday he borrowed his sister-in-law's camera, bought another roll of film and got some dandy shots.

Monday morning Orlando shaved off his beard and went to work. There he received a phone call from his wife. Their 4-year-old daughter, Jeanette, found the film, became inquisitive, and had fun playing with the unwound roll.

Loses Twin

Sympathy is extended to Mr. and Mrs. William Hall, 7232-2, for the death of their twin daughter on July 9. The other twin girl, born July 8, is reported doing well.

Sympathy

Sympathy is extended to Charles O'Connor, supervisor of 2352-1, for the death of his mother July 16.

New Home

Mr. and Mrs. George W. Treadwell, 1248, are settled in their new home at 1108 Chama NE.

Wedding Anniversaries

July is the month for wedding anniversaries in 2711. Gordon Gaskill observed his fourth on July 2, Charles J. Abeyta and Joe Brooks both marked 15 years of marriage on the 14th and the 28th respectively, and John Gill will celebrate his eighth on July 31.



PRIZE WINNERS in the recent beard contests included Bill O'Neill 5530, pictured here, who won a department store's "Whisker Derby." In the city's contest Bill Jobe 2411 took first in the "mutton chop" category and S. A. "Pop" McCollum 5216 placed second in the "Van Dyke."

Camera Club Features Sandians in Booklet On 250th Celebration

Sandians who took part in the 250th observance have an opportunity to retain a pictorial record of their participation.

The Enchanted Lens Camera Club headed by Leroy Hassebroek, 7311, assisted in publishing an illustrated booklet giving a permanent photographic record of the event. The photos were contributed by club members and the local newspapers.

According to Leroy, any profit from sale of the 5,000 copies will aid the club in setting up and equipping a photographic dark room.

Sandia Corporation employees readily recognized in the "Picture Story" are Andrew Alderete, 4161, whose picture appears on the title page, members of the Vigilante Committee, members of the Enchantorama cast, and numerous beard contest entrants.



FISHING TRIP to the Coronado Islands off the Coast of Mexico yielded this fine array of fish for employees at Salton Sea Base who chartered the good ship "Ga Ga" at San Diego. Left to right (standing): Charles Ferbert, manager of San Felipe Lodge, who caught the biggest fish—a 23-lb. Blue Fin Tuna. Dewey Stout 5214, Edward Barber 5214 and Kenneth Stout 5211. (kneeling) Herbert McNabney 2482-2, Dick Harter, son of Harvey Harter 5214, and Bobbie McNabney, Herb's son. Dick caught his first fish, a fighting 12-lb. Bonita. Others who went along were Donald Fifield, division supervisor 2483, Ed Sehn, security inspector 2481-1, and Jack Swallow, chef at Salton Sea San Felipe Lodge.

Fathers, Sons Find Work At Sandia Is Family Operation

"Like Father, Like Son" might be an appropriate thing to say regarding a number of men whose family ties are further strengthened by employment at Sandia Corporation.

Here are pictured some of the father-son combinations. In some cases it was the father who did the selling job on advantages of working for the Corporation. In other instances the son liked the work and Albuquerque and persuaded his father to try for a job.

In addition there are numerous father-daughter working teams, a few father-mother-and-children combinations and of course many married couples who are employed at Sandia.

Sandia Corporation is one organization that encourages the employment of qualified relatives or friends of its employees.



SEVEN YEARS AGO LeRoy Foster left Tucson, Ariz. to take a job with the Corporation. A year later his son followed his action. John Foster (left) is with 7120 and LeRoy is supervisor of Component Section "C."



THE LEW FAMILY had lived in Albuquerque about three years before one of the sons joined Sandia Corporation. Left to right: Milton Lew, Jr. 2225, Milton Lew, Sr. 2151, William E. Lew, 4152-1.



LARGEST EMPLOYEE FAMILY is probably the Lesperances. The family originally came to New Mexico in 1880 to trap beaver, later they ranched in the Las Vegas area. Rosendo Lesperance, the father, started work at Sandia in 1949 and eventually talked his three sons into coming here—even Frank who was then working at Los Alamos. All are in 2413 except Alvino, who is in 2415. Left to right: Larry, a painter; Frank, a carpenter; Alvino, a laborer, and Rosendo, a cabinet maker. They work in Plant Maintenance.



FATHER HAD A JOB in downtown Albuquerque back in 1950 when he talked his son into coming here from Milwaukee. Donald D. Knott (left) is now section supervisor of 2443-1 and his father, James T. Knott, started work at the Corporation a year after his son and now is in Pipefitting and Plant Operation Division, 2414.

2 Employees Awarded 10-Year Service Pins By Sandia Corporation

TWO-YEAR CERTIFICATES
July 27-Aug. 2

Laurie C. Badgley 7412, William B. Otto 5223, Charles Winter 1243, Mary A. Webster 2462, Warren C. Schaefer, 7231, Jean P. Naughton 7222, Margaret R. Laney 7225, L. G. Rainhart 1621, David C. Kleinecke 5121.

Robert L. Stokes 2533, Benjamin F. Davis 5214, C. O. Erickson 1211, Charles H. Carlson 2122, Paul Greenblatt 2411 and Friend L. Skinner 1232.

August 3-9

Walter L. Nugent, Jr. 1231, Robert V. Neighbors 7313, Andrew J. Fry 2151, A. Morris MacGibbon 2151, George S. Bryant 5532, Keith D. Nelson 1442, Peter J. Komen, Jr. 1413.

Elwood F. Ingledue 1412, Lionel R. Chandler 5512, Helen L. Gambrel 2461, and Fred A. Thurow, Jr. 7411.

FIVE-YEAR PINS
July 27-Aug. 2

Santiago M. Aragon 2412, Andelina F. Gurule 7225, Henry G. Laursen 5233, Manuel A. Romero 2418, Johnnie J. Sedillo 2452, Opal L. Tenbrink 7225, Joy R. Connolly 4131, Robert K. Crawford 2711.

Alfred Herrera 2721, Santos S. Quintana 2415, James Thomas Knott 2414, Harold E. Houts 2553, Lila Mae Ness 7225, Kenneth Lloyd Kemp 5221, Joseph D. Schauer 1442, Rosalio A. Silva 2417.

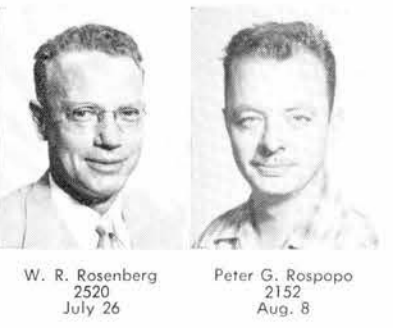
Mary Ann L. Chavez 2221, Virginia D. Haley 4135, Gwinn H. McCarty 2452, Simona Quintana 7413, Walter Gerald Seif 2124, Eloy Garcia 2234, Eustaquio Ulibarri 2419 and Pierre Chevalier 2483.

August 3-9

Lloyd Kent Hungate 5512, Charles Henry Maak 1621, William T. Price, Jr. 2530, John W. Manegold 2412, H. S. Swartzbaugh 5232, Mercedes E. Baca 2533, Thomas W. McKinney 1442.

Phoebie B. Chavez 2461, Bonnie M. Montano 2419, M. D. Washington 2713, Donald E. Grebe 5213, E. C. Thompson 7225, Joe Trujillo 2417 and Eloy Earl Ogaz 2411.

10-YEAR SERVICE AWARDS



W. R. Rosenberg 2520 July 26
Peter G. Rosopolo 2152 Aug. 8

D. B. Owen to Give Statistical Paper

Donald B. Owen of the statistical Analysis Department's Statistical Division, 5125, will present a paper entitled "A Comparison of the Power Curves of Some Double Sample Tests" at the annual meeting of the Institute of Mathematical Statistics to be held in Seattle, Washington, Aug. 20-24.

Congratulations

BORN TO:
Mr. and Mrs. Don Morrison, 5121, a daughter, Patricia Ann, July 11.

Mr. and Mrs. George H. Mauldin, 1263, a daughter, Cynthia Anne, June 23.

Mr. and Mrs. Paul Langdon, 1463-2 a son, Byron Clark, July 14.

Mr. and Mrs. Edward J. Stelly, 7316, a son, Craig Allen, June 27.

Mr. and Mrs. Irwin Janney, 5222, a son, Mark Allen, July 15.

Mr. and Mrs. Richard P. McCann, 5222, a son, Jeffrey Paul, July 16.

Mr. and Mrs. Robert L. Voneschen, 5223, a son, Robert Stanley, July 17.

Mr. and Mrs. Jay D. Gilson, 1224, a son, Jay Michael, July 14.

Mr. and Mrs. John R. Piri, 2711, a son, Gary Mark, July 16.

Mr. and Mrs. John Coleman, 1441, a daughter, Debra, July 20.

Mr. and Mrs. Robert Summers, 2551-1, a son, Byron, July 19.

Mr. and Mrs. Luther Martinez, 2352-1, a son, July 14.

Two Weddings and Two Engagements Announced In July by Sandia Women

The chapel at St. Mark's-on-the-Mesa in Albuquerque was the scene of the marriage July 12 of Molly Nason to Gurdon Miller.

Molly is with 3152-2 and Gurdon is administrative assistant to 5110 and 5130.

Matron of honor was Pauline Loomis, 3160.

After the ceremony the couple went to the mountains where they are making their home at Sandia Park.



Miss Stelter Miss Niedens

The engagement of two Sandia girls has been announced.

Sondra Stelter, 2333-4, will marry James Markham of Albuquerque.

Dorothy Niedens, 2333-3, is engaged to Richard Case of Malden, Mass., who recently joined the Corporation as a staff assistant in 1472.

Caravan Club Picnic

An all-day family picnic in the Sandia mountains is scheduled tomorrow for the Amateur Radio Caravan Club of New Mexico, Jim Stueber, secretary, reports. Refreshments, games, and relaxation will be the order of the day, Jim said, with prizes to be awarded winners of the various games. Wednesday, August 1, is the date of the club's regular monthly transmitter hunt.



Two Appointments Announced by ALO

An organization change and appointments to two positions in the Office of Inspection and Storage Operations at the AEC's Albuquerque Operations Office have been announced.

Guy W. McCarty has been named Chief of the newly created Administrative Branch in the Office of Inspection and Storage Operations.

H. Jack Blackwell has been named Chief of the Storage Operations Branch of the Storage Division.



H. J. Blackwell G. W. McCarty

Both men have been serving in other positions with the Albuquerque Operations Office. Mr. McCarty was formerly Administrative Officer in the ALO Office of Security. Mr. Blackwell has been Assistant Director of Security, ALO.

Promotions

ALLEN L. THORNTON to supervisor of Inspection Service Division, 2712.

Allen has been with the Corporation since December, 1952, first in Manufacturing Relations Engineering and later in Mechanical Inspection.

Prior to coming to New Mexico he spent four and one-half years with Bemis Brothers Bag Company in Minneapolis, Minn., as a development engineer. He worked on automatic packaging machinery.

During World War II Al served three years in the Air Force as a navigator. He was in the Mediterranean theater of operations and held the rank of captain.

Al holds a BS degree in mechanical engineering from the University of Minnesota.

ROY L. DUNLAP to supervisor of Printing Section II, 2462-4, Photo and Reproduction Division, Document Department.

A Sandia employee since May, 1948, he was in the photography section until recently doing much of the Sandia Lab News photography.

Previously he worked for Albuquerque Blueprint Co. in the fields of photography, lithography, and printing.

Roy was a photographer in the Air Corps for two years and was stationed a large proportion of the time at Hickam Field in Hawaii.

He attended the University of New Mexico.

STANLEY M. KRELL to supervisor of Employee Processing & Reports Section 3153-2, Employment and Personnel Department.

He has been in personnel work since March, 1952, when he joined the Corporation. Most of the time his duties have dealt with reports and statistics, special studies and recruiting methods.

Prior to coming here Stan had been with the State Department of Social Welfare in Iowa for 19 years.

He attended Drake University and served with the Rainbow Division in Europe in World War I.



BOMBERS, like this B-52, from Kirtland AF Base, carry the dummy weapons dropped at Yucca Flat during non-nuclear ballistic tests carried out by Sandia Corporation's Field Operations Division, 5412.

Sandians to Operate New AEC Ballistic Test Range In Nevada

Sandia Corporation Field Test Organization will start operating this year a temporary ballistics test range for the Atomic Energy Commission on Air Force land southeast of Tonopah, Nev.

The AEC's Las Vegas office will soon begin development of the 624 square mile area. Sandia Corporation is providing the necessary architect, engineer and inspection services.

Proposed construction and equipment will cost about \$450,000. Immediate work will include drilling a water well, locating and removing bomb duds (the land has been used by the Air Force for a bombing and gunnery range) and building of roads.

Later a control building, utility building, weather station building, generator building, warehouse and instrumentation stations will be constructed.

The facility will be used for a range to test ballistic characteristics of weapons shapes.

In the past such tests have been performed at Salton Sea Test Base in California, within a limited portion of the Yucca Flats area of Nevada Test Site and at various Department of Defense ranges.

The Tonopah range tests will not involve nuclear detonations and will not regularly involve detonations of more conventional high explosives. All devices or weapons tested will be aircraft delivered.

The range will be operated year-around. It is anticipated that there will be tests on an

average of 10 days a month, or 120 days a year.

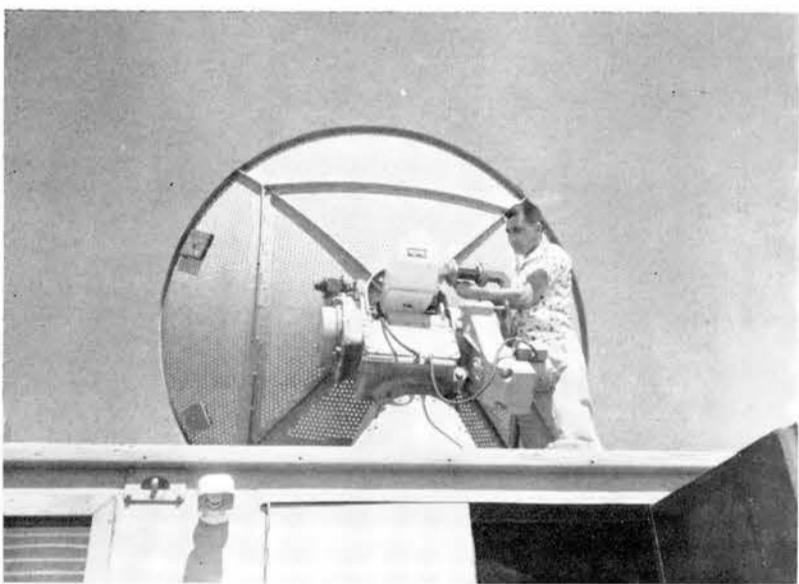
Use will continue during nuclear test operations at the nearby Nevada Test Site, except on days when there are nuclear detonations there.

A small group of Sandia Corporation personnel from the Instrumentation Services Department, 5210, will be stationed permanently at the range, probably living in Tonopah. A few days before a ballistic test is scheduled, additional technical personnel will move into Tonopah from Salton Sea Test Base and Sandia Corporation in Albuquerque.

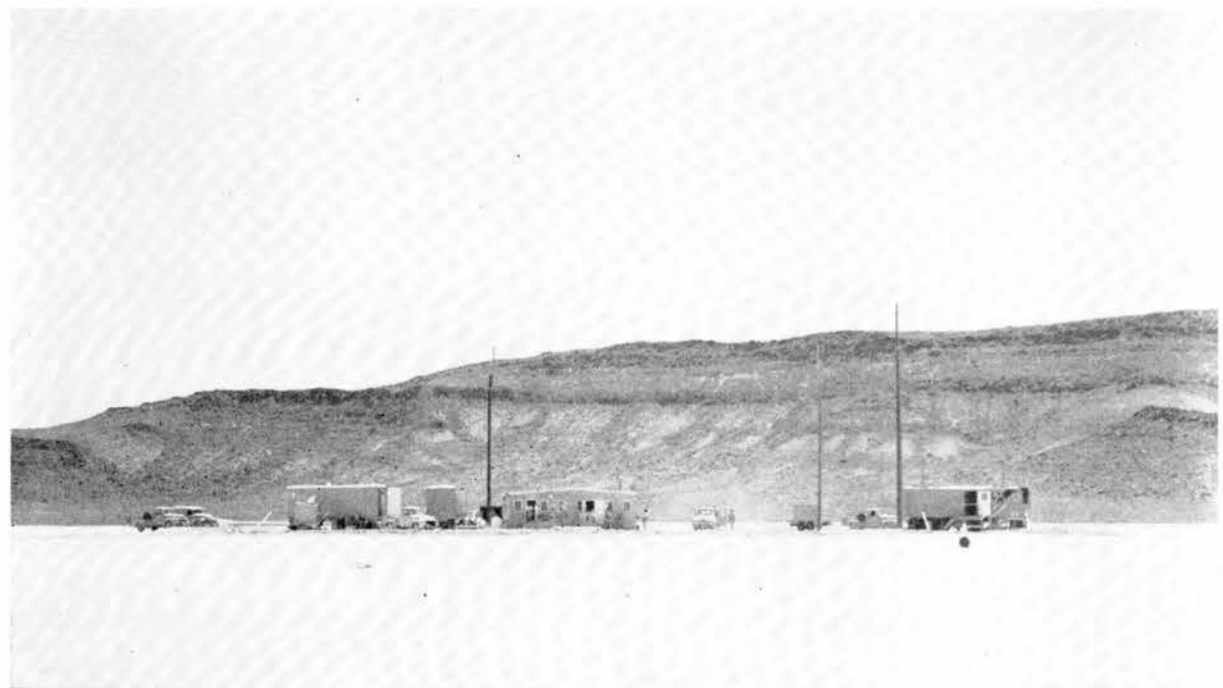
It is now planned to have the first test in the fall of this year, not before Oct. 1.



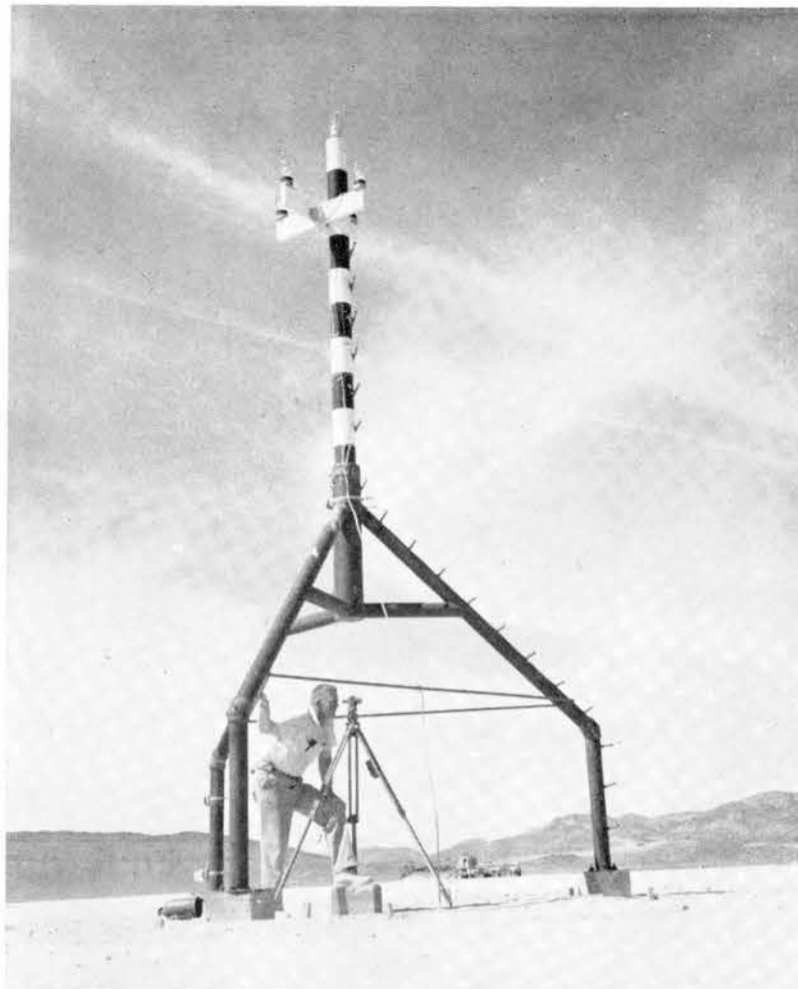
ANTI-AIRCRAFT GUN MOUNT is used to support a battery of high-speed movie cameras which track the path of falling "dummy" bombs at Yucca Flat.



RADAR ANTENNA atop the radar trailer at Yucca Flat is checked by Al Boles. The antenna tracks the approach of the "drop" plane and the path of the weapon as it approaches the target.



CONTROL CENTER of operations at Yucca Flat is this assembly of trailers and buildings, where all instrumentation during a drop is coordinated by means of a highly efficient communications system.



SIGHTING IN on the point of impact is Clem Rawlins, 5216, Optical Measurements Division. He is standing beneath the main reference point erected near the target area on Yucca Flat.

Lab News Reporter Tells of 'Bombs Away' at Yucca Flat

EDITOR'S NOTE: Sandia Corporation's operations at Tonopah will be much the same as those conducted by the Field Operations Division, 5214, headed by Howard Austin, at Salton Sea Test Base and at Yucca Flat in Nevada. Recently a Sandia Lab News reporter witnessed a typical "drop" at Yucca and the following is a brief description of what takes place:

It's early morning at Yucca Flat and the bright Nevada sunlight flashes on the "drop plane," an Air Force B-52 bomber, as it begins its live run over the target zone. Tense seconds click by as men on the ground prepare their instruments to record the non-nuclear ballistic performance of a prototype weapon.

At four Askania cine-theodolite camera stations placed at various distances from the target, the cameramen scan the sky in search of the plane. At the stations are Ray O'Neil, Earl Saxton, Carl Cianciabella, Arthur Cary, Bob Wagner, Joe Dirnberger, Carl Hildebrandt, Ed Barber and Harvey Harter.

Soon the low drone of jet engines becomes audible and cameramen set their sights on the approaching aircraft. A few miles away, at the Control Point—the nerve center of the operation—B. G. Edwards, test controller, establishes radio contact with the plane's pilot.

The ground radar station nearby plots the plane's course and relays flight path corrections to the pilot. At the radar trailers are Bill Moore, Elmo Hirni and Al Boles.

Have Weather Data

Azimuth and elevation instructions are relayed to the camera stations from Control by Ben Davis. Previously, over in the weather trailer, Tommy Earp and Haskell Jacobs have sent up balloons with radio-sonde equipment which transmit upper-air conditions. In the telemetering trailer Frank Moore and Dave Danielson give their equipment a last-minute check.

Then the big moment arrives. Telemetering transmitters contained in the bomb are turned on, the signal strength checked by Gordon Hawley back at Control. It's a critical moment. If the signal is too weak, the test

must be postponed and the aircraft, already running low on fuel, must return to base.

But the signal is strong, the weather is right, the plane is rapidly approaching the target. The cameramen follow the aircraft with their instruments. The count-down begins . . . nine . . . eight . . . seven . . . six . . . five . . . four . . . three . . . two . . . one . . . bombs away!

Data Recorded

By the time the dust clears after impact, all information on the weapon's behavior has been recorded . . . just seconds after release. A film sequence of the bomb drop has been made, telemetering signals carrying specific information on weapon component reaction have been recorded, weather data has been entered, the point of impact surveyed.

But dropping bombs is not the only Yucca operation in which the Field Operations Division takes part. Just recently the group has undertaken the job of helping obtain data on the effects of supersonic shock waves resulting from penetration of the sound barrier by Air Force jet planes.

Surprisingly little is known about these shock waves, according to Howard Austin, and must be learned as the Air Force continues to develop faster aircraft capable of carrying nuclear weapons.

One purpose of these tests, Howard explained, is to determine the amount of shock that ground structures can withstand as aircraft break the sonic barrier. Once this data is gathered it will be used in determining design of instrumentation shelters and other buildings for the Tonopah range.

Yucca Served Well

Yucca Flat, which has served a useful purpose, is fast becoming obsolete as a land range for non-nuclear tests. A larger drop zone was deemed necessary due to increasing speeds of jet aircraft used to deliver the weapons. A range of mountains ringing Yucca creates a hazard to low-flying super-sonic planes, and the range is too short to conduct low altitude, high-speed drops.

The Tonopah range was selected as an interim arrangement until a larger joint Army, Navy, Air Force and AEC range can be constructed at a later date in another location.



NEW ARRIVALS are taken in a group to the Coronado Club where here Lillian Glover, 3153, explains benefits available through the Corporation. The personnel representatives also explain the purpose of the various forms which must be filled out. Smaller groups sign in at the Personnel Building.

Remember Sign-In Day?

Signatures Galore Asked of Newcomers -- All Are Important

Three "emissaries of good will" are provided by Employment Department to help the newcomer through the first work day at Sandia by making the sign-in process easy, convenient and pleasant.

When the group is large, all three—Janice McSwain, Lillian Glover and Maxine Gatlin of Employee Records & Processing Division 3153—explain the many benefits offered by the Corporation and help the new employees to fill out necessary forms.

During June they processed forms for 240 persons starting work at the Corporation.

Before the good-will emissaries appear, the prospective employee has already had an interview, filled out a Sandia job application form and an AEC Personnel Security Questionnaire. In the past six months 991 "PSQ's" have been typed in final form by the "P" cleared typing pool from forms prepared "in-rough" by 3153. A medical examination also has been completed and a job offer has been accepted.

The papers containing this information are the beginning of each employee's personnel file, which is maintained throughout his stay at Sandia Corporation.

"Q" Cleared and Ready

Reporting time for a new employee marks the end of a long wait for security clearance and for results of the medical examination. In some cases a preliminary clearance is given pending completion of investigation for a "Q" security clearance as required by the Atomic Energy Act. With a "P" clearance a new employee may do non-classified work outside the Technical Area while awaiting his "Q" clearance.

The individual is anxious to start work—and it's not long before he realizes that the company is equally glad to extend a welcome.

On their first day at work the new hires are met at Personnel Building by the trio and the sign-in process begins. If the group is large it is taken by bus to the Coronado Club where comfortable accommodations are available for the sign-in processes. Otherwise signing-in is done in the Personnel Bldg.

Maxine, Lillian and Janice explain to the group how the retirement plan works, the benefits obtained under the hospital-surgical benefits plan, and general policies at the Corporation. A booklet giving additional informa-



CHECKING FORMS is part of the work of Employment and Personnel Department's good will emissaries Maxine Gatlin (left) and Lillian Glover. Their job is to help Sandia newcomers sign in.

tion is part of the packet handed new hires.

There are still a few more forms to be filled out. For the Bureau of Revenue there's the withholding exemption certificate, Form W-2. For the AEC there's the agreement to assign inventions. For social security purposes, evidence of age (or an affidavit if birth certificate or other proof is not available) is needed.

Sandia Needs Signatures

The Corporation also has a few forms to be completed: a medical statement that the employee's physical condition is unchanged since taking the exam, notice of conditional employment subject to "Q" security clearance (for those on a preliminary clearance) and an orientation class slip for which attendance is scheduled in Training Section 3124-1.

One of the girls will help those hired from out-of-state to fill out expense and travel vouchers and reimbursement for cost of medical examination. These forms are rushed through to assure prompt payment.

New employees learn that there are several ways in which pay checks may be handled. The check may be deposited directly in the individual's bank account or delivered each pay day at the employee's place of work. In ad-

dition to required withholdings, employees may arrange to have payroll deductions made for Coronado Club dues, U. S. Savings Bonds and credit union, and other authorized items. Each person fills out a form to indicate his choice.

The Corporation locator service also needs to know an employee's home and work address and telephone number, and this requires another form.

Club Membership

Along the "unofficial" line there is a month's complimentary guest card to the Coronado Club and an activity calendar, a map of the Base, location of eating facilities, and information on the credit union.

The good will girls then escort the new hires to the Administration Building, 800, where the badges and identification cards required by the AEC are issued.

They will also take the group to the Provost Marshal's office for the Devol necessary to bring cars on the Base.

After answering questions about the Corporation, Albuquerque and New Mexico, Lillian, Maxine and Janice are ready to turn the new employee over to a representative of his organization who will escort him to his work location and begin the introduction of the employee to his new job.

Pesky Jemez Bear Gets Too Inquisitive So Family Packs Up and Goes Home

Apparently the Jemez Mountains are becoming adventurous places to camp, judging from recent experiences with the wildlife.

Ken Dickerson, 1651-1, reports the following difficulty he encountered:

"On a Saturday night, July 14. I was camped with my family on the Rio San Antonio for two miles north of Highway 126. About 10:15 p.m. we were awakened by the sound of our ice box being upset by a large black bear. He had forced open the lid and made off with a three pound package of hot dogs.

"About five minutes later I picked him up with my camp spotlight coming out of the woods about 50 yards away. He did not hesitate when I flashed my light full in his face, but came plodding right on down to within 15 yards of our camp where he finally stopped.

"By this time my family was aroused and had taken refuge in the car. Blowing the horn, banging pans and shouting threats only frightened him momentarily.

"He remained a curious but unwelcomed observer while we broke up camp and was still in the vicinity when we pulled out for Albuquerque."

Women's Voices Added To Formerly All-Male Sandialiers Chorus

For five years the husky voices of the Sandialiers, choral group, have proclaimed it strictly a male organization. Something new was added recently.

Three Sandia women singing as a trio were integrated into the group. Ken Pope, 1451, Sandialier president, welcomes the feminine additions, to "give variety to the programs."

Connie Blakeney, Typing Services Section, 7225-5, sings first soprano with the trio. She performed solo with the group on a recent television show singing "Stranger in Paradise."

While attending the University of New Mexico, a member of the UNM Chorus, Connie has been employed at Sandia for seven months.

Sings "All Her Life"

Lucille Kennedy, a secretary in Inspection Control Section, 2723-1, sings alto. A native of Clovis, N. M., Lucille says she has been singing "all her life" in church choirs and amateur groups. She has been employed by the Corporation for a year.

Second soprano for the trio is Deana Ward, Secretarial Service Division, 7225, currently assigned as secretary in 7412. She is the only married girl in the trio. Her husband, Joe, is stationed at Manzano Base.

In her home town of Little Rock, Ark., Deana was active in school vocal groups. She was a member of the Telephone Company choir where she worked. Deana has been at Sandia 15 months.

Permanent Part

The trio will perform as a permanent part of the Sandialiers in the future, Ken Pope said. "We're rehearsing some romantic duets using the girls' voices in three part harmony to sing the female lyrics and to contrast with the four part harmony of the male chorus."

The Sandialiers, Ken said, is a non-profit organization that sings "for the fun of it." Programs are presented at hospitals, conventions, military clubs at Sandia Base, the Coronado Club, and to various civic organizations, he said.

Rex Elder, 5531, is musical director of the group.

W. A. Middleton to Retire From Sandia

William A. Middleton, a Sandia Corporation employee for eight years, will retire July 31.

Most of Mr. Middleton's service with Sandia Corporation has been in the Shipping and Receiving organization. Recently he has been assigned to the Warehouse and Processing Division, 2351.



W. A. Middleton

Mr. Middleton has been in New Mexico for 24 years, coming to the state from Texas. He lived in Gallup prior to moving to Albuquerque. He operated a retail business there and worked at the Wingate Ordnance Plant for four years.

The Middletons have three children, all married. Mrs. Middleton teaches in the Albuquerque public schools. Their home is at 518 Hermosa Drive SE.



SAND-TUNES is the name of this girl's trio recently joining the Sandialiers. The organization had been an all male chorus until the addition of (L to R) Connie Blakeney, 7225-5, Lucille Kennedy, 2723-1, and Deana Ward, 7225. The girls made their first appearance with the Sandialiers during a performance of "Enchantorama."

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, Aug. 3.

FOR SALE

AIR CONDITIONER, evaporative, window mounting, recirculating pump, 4000 CFM, \$80. Jones, Alb. 9-4724.

'30 MODEL "A" FORD, 600x16 wheels, turn signals, two-door. Astorga, Ext. 4-4153.

TRAILER w/4x10 bed, stake sides, hitch, tarps, extra wheel & tire, \$60. Goen, Alb. 6-9382.

DINING SUITE, blond table, 6 upholstered chairs, breakfast, two serving chests, two lamps, \$200. Galbreath, Alb. 4-4306.

TAPPAN DELUXE GAS RANGE, 39 1/2", automatic, visual oven, timer, \$80. Lohmar, Alb. 5-6546 after 10:00 a.m.

BABY GRAND PIANO, \$450. Thornton, Alb. 7-8068.

ROLLER SKATES, shoe size 5, sidewalk, \$3. Weber, Alb. 5-6811.

RECORD PLAYER, Columbia portable, 3-speed, \$20. Batterson, Alb. 2-1076.

21" TV, table model, w/built in RJ8" speaker enclosure, \$110. Neiman, Ext. 2-7155.

MODEL 111B DELUXE SCINTALLATOR, leather case, radium standard, batteries, \$400. Lemm, Alb. 5-2707.

REGISTERED MALE BEAGLE PUP, 6 wks. old, \$35. Hogue, 1435 Espejo NE, Alb. 9-1807.

FORD V8 PARTS, except frame, for convertibles, '49 through '51, also Willys-American parts, '40-'41. Schiess, Alb. 5-3252.

JAMES PORTABLE DISHWASHER, 7 mos. old, excellent for use in Base housing, Rogers, Ext. 22194.

COMMUNICATIONS RECEIVER, Hammett-Hund HQ 129, \$120, desk \$25. Steward ext. 4-6282 after 5.

DETECTOR model DG-9 Geiger counter combination drill hole type, never used, \$165. Sisler, ext. 2-5173.

HOUSE TRAILER, 33 foot Liberty, Eastern made, modern, one owner, \$1995. Mann, Alb. 6-8716.

3-BR. HOUSE, 1 1/2 baths, central heat, w/w carpet, attached garage, landscaped, walled, sidewalk, paving, refinancing available. Stoddard, Alb. 6-2379.

BAND SAW, 12 in., 1/2-HP motor, sturdy wooden stand, \$95. Ames, Alb. 5-8417 after 5.

GEIGER COUNTER, head set type w/blinker light, new batteries, \$35. St. Clair, Wherry Housing, Alb. 6-5677.

MAYTAG WASHER, wringer type, \$30, or will trade for portable evaporative air conditioner. Robinson, Alb. 5-7805.

LULLABY YOUTH BED & wardrobe chest, blond wood w/piggy bank motifs, new mattress, \$50. Tufts, Alb. 5-9663.

'48 FORD TRUCK, 1 1/2 ton stake body, \$325. Murray, Alb. 5-6524.

RANCH OAK BEDROOM & dining room furniture, blond 5 pc. living room set. Anderson, Ext. 36136 or 321 A Cornell SE.

HIGH CHAIR, \$5; full size bed springs, \$7; innerspring mattress & springs to match set, \$40. Klassen, Alb. 6-2775.

TWO ADJOINING LOTS, 1/2 block bus line, 2 blocks schools, SW Valley, terms. 2521 Camellia St. SW. Chenoweth, Alb. 3-9166.

3 BR. HOME, corner Constitution & Jefferson, \$700 down. Haley, Alb. 4-3919.

FIBRE RUG, 9x12, \$5; kitchen table, porcelain top, \$10; yellow denim draw draperies. Bassett, Alb. 9-5685.

BABY-TENDA, \$25; play pen, gym set. Barber, Alb. 9-4287.

KENMORE WRINGER-TYPE WASHER with timer & pump, \$20. Oberst, Alb. 9-1224.

'53 PLYMOUTH 4-dr. Cranbrook; double bed w/mattress; Webcor 3 speed record player. Thompson, Alb. 9-0092.

3 BR. HOUSE, 1 1/2 baths, central heat, air-conditioned, w/w carpet, patio, G.I. financing available. Springer, Alb. 9-5490.

35,000 BTU WALL HEATER, natural gas. Goad, Alb. 6-8088.

45 COLT COMMANDER, holster & 300 rds. ammo, \$65; 45 S&W shot pistol, \$25. Branks, Alb. 6-8142.

BED, vanity & bench, cedar chest, two-chairs—painted ivory, \$30; girl's 26" bicycle, \$20; 9'x9'6" rug, \$3. Hicks, Ext. 2-7144.

HOME BUILT KW, AM, CW, SSB on 80 mt., \$325; National Selecto-jet, \$10; Hunter Cyclemaster, \$50; 304 H's, 813's, \$4.50. Davis, Ext. 41137 or Alb. 9-4819.

THAYER BABY CARRIAGE, \$17.50; bumper jack, hydraulic, \$4; kitchen step stool, \$5; children's swing w/ladder, \$10; paint roller set, \$1.50. Goodman, Alb. 9-4719.

BOY'S SCHWINN BICYCLE, 26", 3 speeds, puncture proof tires, light, horn, \$22.50; 12" window exhaust fan, \$10. Dewish, Alb. 6-1559.

16" GE TV, w/black wrought iron stand, \$60. Mills, 9-2130 after 5.

OSCILLOSCOPE & TV-FM Signal Generator, \$70; Contax II Camera f2, Nikkor lens, filters, sunshade, bulk film loader & film, \$110. Freedman, 608 Dakota SE after 6.

BICYCLE, Schwinn 26", girl's, adjustable seat, basket, brakes, tires, \$25. Hancock, Ext. 4-1268.

MALLEABLE STEEL GAS RANGE, \$15, 4 burners, oven, 5 yrs. old. Blough, Alb. 6-6580.

MANKIN HOME, 3 brs., 2 dens, 2 baths, wall, near schools, \$1500 down; mahogany dr. table, 4 chairs, \$85. McKay, Alb. 6-6453.

HOME, 3 br., w/w carpet, garage, landscaped, fenced, \$9950, \$1000 down. 3309 Madiera NE, Cacy, Alb. 5-6680.

'50 CHEV., power glide, two door. Bell, Alb. 6-3078.

12" DOMINION ELECTRIC FAN, \$8. Nielsen, Alb. 5-6497.

BLOND OAK BEDROOM SUITE, double bed, innerspring mattress, box springs, vanity, bench, chest of drawers, \$85. Piper, Ext. 2-1167.

4-ROOM HOUSE, 2 br., \$4,750 FHA, \$1,400 on payment, \$40 month, near bases, 1608 Gerald SE. Chavez, Alb. 2-1791.

TRAILER, 8 ft. canopy, weight 570 lbs., \$155; outdoor grill on swivel pedestal, \$10. After 5, Alb. 5-3572. Kutzley.

PLAY PEN; laundry tub; table model radio-phonograph combination, 78 rpm. Preston, Alb. 9-1948.

LOCALLY GROWN YOUNG PARAKEETS, either sex, \$2 each. Rice, Alb. 9-1261.

UMPIRE'S EQUIPMENT, pro type, bar mask, inside chest protector, shin pads. Edwards, Alb. 9-5496.

FRIGIDAIRE ELECTRIC RANGE, automatic, full 30" oven, \$125. Leslie, Ext. 4-1279.

WELSH BABY CARRIAGE, may be used as bassinets or car bed, \$20; screen door, \$5; 2 panel doors, \$7.50 & \$10. Marsh, Alb. 3-2767.

WIEMARANER REGISTERED PUPS born June 19, sire champion dog, dam of well-known line. Leslie, Alb. 5-6872.

2 PC. LIVING ROOM SUITE, sofa bed, chair, plastic, \$75. Newman, Alb. 4-0895.

SERVEL DBL-DR. REFRIGERATOR, 11 c.f., 70 lb. freezer compartment, \$250; Wedgewood gas range, chrome top, grid-die, \$110. Dawson, Alb. 6-3308.

257 GALLON BUTANE TANK, in ground. Meissen, 232 Utah St. NE.

'50 PLYMOUTH CLUB COUPE Special Deluxe, R&H, \$325. Timmons, Alb. 5-7279.

'52 2-DR. STUDEBAKER CHAMPION. Warren, Alb. 5-4808.

'53 4-DR. CUSTOMLINE FORD, seat covers, R&H, \$800. Crawford, Alb. 4-0343.

'48 OLDSMOBILE, 4-dr. w/R&H, new battery, \$200. Stephenson, Alb. 5-9822.

'52 CADILLAC, 62 series, 4-dr., R&H, new tires, green, \$1495. Brown, Alb. 9-5405.

WANTED

JOIN CAR POOL vicinity 1500 block Alvarado NE. Buckner, Alb. 5-6024 after 5 p.m.

HOME for obedience-trained dog. Hale, Alb. 4-1558.

DRIVERS for car pool from vicinity San Mateo & Menaul to Sandia. Martin, Alb. 6-5464.

RIDERS from vicinity Sierra Dr. SE to 880. McGuire, Alb. 5-7796.

TO JOIN or form car pool from vicinity 1419 Bryn Mawr NE to Bldg. 800. Flanagan, Alb. 6-3202.

RIFLE, 30-06, bolt action, will trade Krag 30-40. Richardson, Alb. 4-4324.

TO RENT for 2 weeks in August or buy small luggage trailer or camp trailer. Westman, Alb. 5-6048.

JOIN CAR POOL, vicinity 5600 4th St. NW or 12th St. NW. Padilla, Alb. 4-4685.

RIDER or join car pool—vicinity Barcelona SW & Isleta Blvd., via Miles Rd. & Gibson to Administration Bldg. Hicks, Alb. 3-9113.

8 MM PROJECTOR. Must be complete. Johnson, Alb. 6-9762.

FURNISHED APT. or house for August by elderly couple, vicinity San Mateo & Constitution NE. Adams, Alb. 6-7265.

RIDE from vicinity 2300 Rio Grande Blvd. NW to 802. Zamora, Alb. 3-4645.

RIDE from vicinity Woodland & Eubank to Bldg. 800. Wolfe, Alb. 9-2458.

DRIVER to join car pool vicinity 3600 Fourth NW. Newman, Alb. 2-3244.

Frank Bencoter to Retire End of July

Fishing in Florida is occupying the thoughts of Frank Bencoter, 1222, who will retire July 31 after four and one-half years with the Corporation.

On that same date he will observe his 65th birthday.

Frank is a mechanical engineer in Project Division, Engineering Department.

He and his wife plan to leave Aug. 1 for Pennsylvania and later travel on to West Virginia—their former homes. About Labor Day they will go to the citrus belt of south central Florida where they intend to make their home at Winter Haven.

Frank hopes to later draw up plans for a house, which he will help build. Meanwhile, his temporary address until the first of the year will be "any lake or stream where the fish are jumping."

The couple has two married daughters living in Arlington, Va. and Baltimore, Md.

Indian Ruins, Caves Attractions While Drifting on Colorado River

Eight days of drifting along the Colorado River and eight nights of camping alongside high cliffs or swift, small streams can be a rewarding experience in the opinion of George Steck, 5125.

163 Mile Trip

George recently returned from a 163 mile trip down the river made with nearly 60 other persons, mainly California members of the Sierra Club, a group interested in exploring, enjoying and preserving the scenic resources of the United States.

The expedition started at Hite, Utah, a community of about six persons, and ended at Lee's Ferry in Arizona.

Float On pontoons

For transportation the group used surplus Army bridge pontoons. Forty persons, including George, traveled in three 30-foot long sections which were lashed together. The others were carried on three 12-foot sections also combined.

This part of the Colorado River is relatively quiet. The current runs about seven to eight miles per hour and the boats were equipped with outboard motors which were used principally in controlling the rafts for crossing against the current in landing.

When the boats tied up against shoreline rocks and trees in the afternoon the vacationers scat-

Softball League Leaders Lose; Three-Way Tie May Result

The team from 2200 moved to the top of the Sandia Employees Softball league recently when 2500 dropped down at the hands of 2400, 8-3.

This was the second defeat for 2500 which has led the league since early in the season racking a total of 11 wins. Team 2200 has 10 wins but only one defeat which moved it to the top. Two defeats and 10 wins holds down third place for 2400.

Padilla Hits Homer

In the 2500-2400 match, 2500 led going into the fourth inning 1-0. Two singles and a homerun by Orville Padilla scored three runs on three hits for 2400 in the fourth.

Team 2400 added one more run in the fifth and put the game on ice in the sixth when four runs were scored on four walks and an error.

In their half of the sixth, 2500 made a gallant rally effort when Tom Kelly singled and H. C. Olson followed with a homer. Harold Cushman and C. M. Coats banged singles before 2400 pitcher Cliff Rudy struck out three.

Have Easy Going

Other contending teams for top honors in the league had easy going in recent games. An easy win

for 2200 was 5200 that crumpled 15-3. 1200-I, fourth place in the league, downed 5100, 15-8.

Rain and wind postponed the three deciding games of the league which are now scheduled this week. On Monday, July 30, first place 2200 will meet third place 2400 on Diamond A at 6:45 p.m. If 2400 defeats league-leading 2500, then the league could go into a three way tie for first place.

On the same evening second place 2500 will meet 1400 on Diamond A at 8:30.

Wednesday, Aug. 1, the first and second place teams will meet. Team 2200 will meet 2500 on Diamond A at 6:45 p.m.

SOFTBALL STANDINGS

Team	Won	Lost	Pct.
2200	10	1	.909
2500	11	2	.846
2400	10	2	.833
1200-I	9	2	.818
7400	7	4	.636
1200-II	6	6	.500
1600	6	6	.500
1400	6	7	.462
4100	6	7	.462
5200	6	7	.462
2100	5	8	.385
7200	5	8	.385
3100	4	8	.333
2700	3	8	.273
5500	2	10	.167
5100	1	11	.083

Butler, Kelly Win Top Golfing Honors

R. E. Butler, 5524, and Jim Kelly, 2231, walked off with top honors in the Sandia Golf League Open Handicap Tournament held last week end.

Butler scored as low net man with a total of 68. Kelly came in with a low gross score of 77. Net score represents the total score minus the handicap; gross score is not subtracting the handicap.

Two team winners were announced, according to Walt Dzugan, 3122, league secretary. Ken Foster, 2232, and Bob Peterson won the team net category with score of 142.

Chet Fornero, 7329, and Jim Kelly, 2231, won the team gross division with a score of 163.

Safety Shoe Prevents Injury to Foot When Heavy Cabinet Slips

Safety shoes lived up to their name for a Sandia Corporation employee last week.

As Flavio Gonzales, 2122-2, was helping load a heavy storage cabinet onto a pickup truck the cabinet slipped forward and smashed into the toe of his left shoe.

The cabinet ripped his shoe, but its steel toe-cap protected his foot. There was no injury.

Flavio learned the value of wearing safety shoes some time ago prior to coming to Sandia. A similar accident occurred but there was no steel safety cap in his shoes at that time. He received a severe injury to his toes that resulted in the loss of three weeks time on the job.

"Once was enough," Flavio said, "I wear safety shoes all the time now."



FALLING onto his left toe, this storage cabinet damaged the safety shoe of Flavio Gonzales, 2122-2, but didn't hurt his foot. A painful accident several years ago prior to his coming to Sandia proved the value of safety shoes to Flavio who wears them consistently now.

RIDE, vicinity 11th & Lomas or Mt. Rd. NW to vicinity Bldg. 880. Matthews, Alb. 2-6488.

RIDE, Vicinity 13th & Lomas Blvd. NW to vicinity 860. Braasch, Ext. 4-2250.

RIDE from Mtn. Rd. & Indiana NE to Bldg. 800. Boca, Ext. 2-1241.

RIDE from 1813 Blume St. NE to Bldg. 800. Hadley, Ext. 35237.

RIDERS wanted for car pool from Aztec & Palomas NE to Bldg. 800. Thomas, Ext. 2-0149.

MISCELLANEOUS

TO GIVE AWAY, long-haired Dachshund, male, two years old, Allen, Alb. 5-7048.

YOUNG LADY to share home in Princess Joanna Park. Heiberger, Ext. 3-4145.

LOST—ring, wedding band; purse, hand tooled; ring, mother of pearl; glasses, lost in 839 Cafe; keys, all kinds; cuff links w/initial "D". Lost & Found, Ext. 2-6149, Bldg. 829.

FOUND—bracelet, silver w/turquoise; glasses, safety, bi-focals; ring, w/3 sets; pencil, Fineline; earring, turquoise; tie chain initials M.B.; keys, all kinds. Lost & Found, Ext. 2-6149, Bldg. 829.

FOR RENT

3 BR. HOME, available 8/15/56, water & garbage paid, \$110 per month. Dunn, Alb. 5-9213.

2 BR. HOME, furnished, close to Sandia Base. Bell, Alb. 6-3078.

2 BR. HOUSE, \$75, completely furnished, 2 car garage, 812 Roma NW, Freedman, Call Sat. or Sun. Alb. 5-8396 or 2-8193.

3 BR. HOUSE, Hoffmamtown, \$75 plus utility, available August 7, '56. Grey or Reno, Alb. 9-2963.

LARGE ROOM, bath, outside entrance, parking space, 1824 Los Lomas Rd. NE. \$40 per month. White, Alb. 2-2288.