

SANDIA LAB NEWS

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



Vol. 7, No. 11

ALBUQUERQUE, NEW MEXICO

JUNE 3, 1955

Coronado Club to Celebrate Fifth Birthday, June 25

June 9 the Coronado Club will be five years old.

And to say happy birthday to the thriving five-year-old, members of the Club will enjoy an all-day party Saturday, June 25.

Busy signing up entertainment and music for the gala event is Gene Newlin, 6010, the Club's entertainment chairman.

The Board plans to open the new swimming pool that day. Entertainment in the pool and patio area will be staged for members throughout the afternoon and early evening. A free patio supper will be served to members only from 5 to 7 p.m.

Ray Giles' band will play for dancing during evening festivities from 9 to 1. The dance is free to members and the guest fee is \$1 per person.

Members are urged to wear western attire. The fiesta theme will be carried out during the day.

★ Sandia Corporation Story Reprinted for Booklet Rack Service

"Sandia Corporation: On the Frontier of Engineering" is the title of an article appearing in the current issue of Sun Trails magazine.

Reprints of the article are being distributed today to Sandia Corporation employees through the booklet rack service.

The story tells of the activities at Sandia Corporation and how the work fits in with the entire atomic energy program. Sixteen illustrations are used. Also reprinted in the pamphlet is another article, "City of Surprises: Albuquerque."

Employees are invited to take a copy of the pamphlet from the booklet racks. Enough have been ordered to supply each employee with a single copy.

Service Pin Suggestion Deadline Friday, June 24

Artists, amateur and professional, are answering the call to pencils and brush. They're hard at work creating proposed designs for Sandia Corporation's service recognition pin.

The amateur artist and the professional artist are on equal footing in this competition for finished art work is not needed—it will be the basic idea which will win the prize.

An award of \$75 in U. S. Savings Bonds will go to the winner.

All employees of Sandia Corporation are eligible to submit entries.

Originality, appropriateness, attractiveness and suitability to adaptation to a pin or lapel button will be considered in judging.

Employees submitting entries should remember that Sandia's part in the weapons program is not directly connected with nuclear phases. Therefore, variations of the atomic nuclear design, such as that used in the AEC seal, will probably not be suitable. The design need not be representative of technical activity.

After the closing date an employee committee will scan the entries and select several of the best designs. The Technical Art Division will prepare final art work on these entries and they will be reproduced in the Sandia Lab News.

Employees will have a chance to vote for the emblem of their choice and the contest winner will receive the U. S. Savings Bonds. This design will be adopted for the new service pin.

CONTEST RULES

1. Entries must be prepared and submitted as a sketch in enlarged form on 8½x11-inch paper.
2. Copyrighted trademarks of other companies or organizations should not be imitated.
3. The design must be simple enough that it will have a recognizable and distinctive emblem when reduced to lapel button size.
4. The design should include some provision for indicating length of service in multiples of five years.
5. Entries must be submitted no later than June 24 to the Public Relations Division, 3125, Bldg. 829.
6. The name and organization number of the person submitting the entry should not appear on the

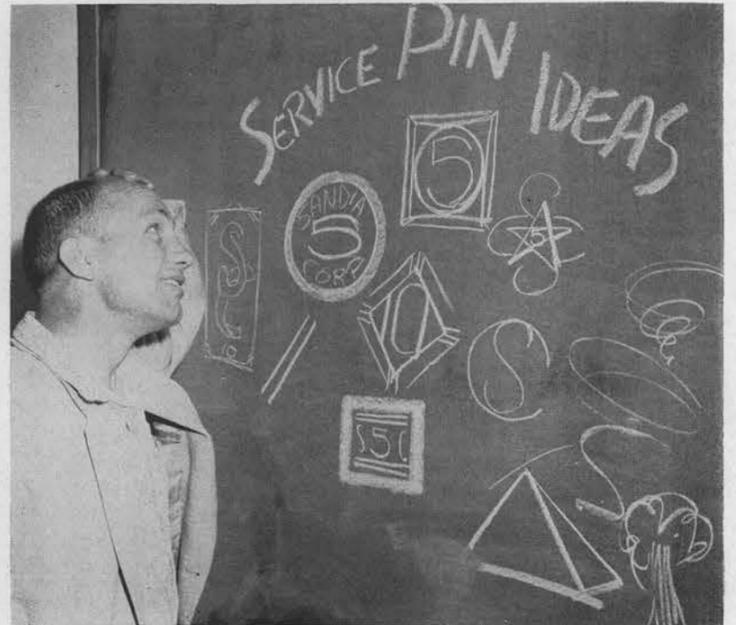


Photo by Dunlap.

IDEA MAN—Terry Clark, 2463, puzzles over sketches in search of an idea for his entry in the service pin design contest. Deadline for submitting entries is June 24.

Sky-Viewing Cameras Focus More Than 30,000 Feet Up to Record Nuclear Blast

The giant lenses of a battery of high speed motion picture cameras peered into the skies above the Nevada Test Site this spring. With them Sandia Corporation engineers studied elusive shock waves from a high altitude nuclear blast.

The cameras were mounted on shock proof concrete bases directly under the blast area of the atomic device. As shown in the accompanying illustration, they were directed straight upward into the skies above at a point where smoke trails would be affected by the blast.

Each camera was so placed that its lens focused on a pre-determined spot in space more than 30,000 feet overhead. They were "zeroed in" on this intangible, invisible spot in the atmosphere through the use of instruments such as those used by surveyors.

Ordinary 35 mm movie film was used and was exposed at 96 frames a second. The cameras and lenses are commonly used in Hollywood for freak photography and special effects movie work where slow motion is desired.

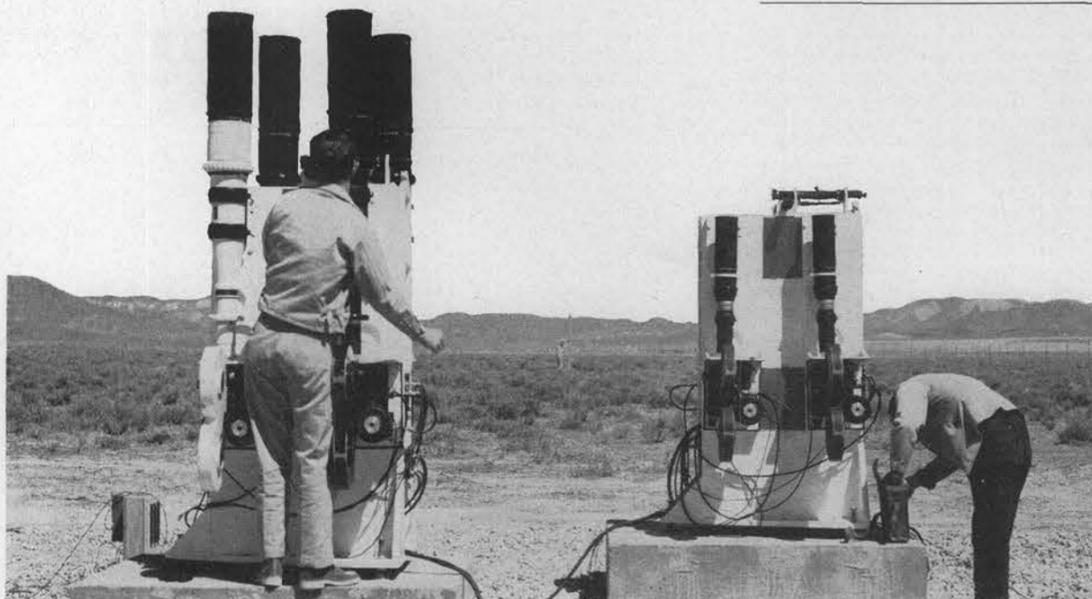
For Sandia Corporation's field test photographers the movie units represent a new technique in blast evaluation.

In the experiment at the Nevada Test Site this spring when a nuclear device was dropped from a high flying airplane, the cameras received their initiation into weapons research. As the frames on the film were exposed, electrical impulses were simultaneously transmitted to a nearby timing device, thus accurately fixing the shock wave in space and time.

The exposed film was then developed and delivered to statistical experts in Sandia Corporation's Data Reduction Department. Here, speed, position, pattern, and other data on shock wave movement were tabulated and correlated.

Robert C. Spence, 5222, supervisor of the Receiver and Recording Systems Division of the Instrumentation Development Department, worked with Vince Hansen and Billy Ray to set up the timing and controls for the project. George Economou, supervisor of the Optical Development Section, 5221-1, was in charge of the staff of technicians at the site.

Kenneth Kemp devised the mounts and systems; Paul Travis serviced the cameras in the field, and Dan Fenstermacher installed the instruments. Irv Lenz was in charge of technical photography. All are in 5221.



GIANT LENSES and high speed cameras are readied for blast of nuclear device some 30,000 feet overhead. Left, Paul Travis, 5221, sights through a theodolite

to level camera mount. Vincent Hansen, 5222, right, checks field telephone equipment. The equipment was used at Nevada Test Site by the Sandians this spring.

Why A Service Recognition Plan

More than 1,000 employees of Sandia Corporation will be eligible for five-year service pins this year. A dozen will have been with the project more than 10 years. An additional three thousand employees have more than two years' service, but less than five.

The new service recognition plan calls for presentation of a certificate at the end of two years' service. This is the same time the employees become eligible for coverage under the group life insurance plan.

At five years they will receive a lapel button or pin. At 10 and 15 years employees will be awarded a new emblem and will be offered a choice of jewelry on which it may be mounted.

sketch. The entry should be sealed in a blank envelope and enclosed in an outer envelope which bears the entrant's name and organization. Entries will be numbered for identification when received, but will be considered anonymously.

7. Only Sandia Corporation em-

ployees are eligible to participate. As many entries as desired may be submitted by an individual.

8. The Corporation reserves the right to modify the winning entry as desired, or to reject all entries if the judges rule that a suitable design has not been submitted.

MP's to Enforce Parking Rules On Sandia Base

Major James E. Farmer, Provost Marshal of Sandia Base, has issued a notice to drivers concerning parking in unauthorized areas.

Drivers are cautioned to park their cars in authorized parking lots only. Major Farmer points out that authorized parking lots are designated by constructed earthen ridges or concrete parking curbs, asphalt covered areas and other control measures.

Open or cleared areas caused by removal of buildings and other open spaces are not parking lots and should not be used as such.

In addition, Major Farmer reminds automobile owners that when their automobile insurance is renewed evidence of the renewal must be brought to the Auto Vehicle Registration Office in Bldg. P-220.

University Consultants Begin Summer Work At Sandia Corporation

Summer consultants for Sandia Corporation are again arriving in Albuquerque from colleges and universities around the nation.

Dr. J. J. McNown, professor of hydraulic engineering at the University of Michigan, will join 5110. Dr. H. D. Brunk, professor of mathematics at the University of Missouri, will be assigned in 5120.

Three faculty members are joining Org. 5140. They are Dr. A. F. Ducoffe, professor of aerodynamics at Georgia Tech; Dr. E. A. Ripperger, professor of physics at the University of Texas, and E. C. Rightley, associate professor of mechanical engineering at the University of New Mexico.

Dr. Gene Buell, who is a part-time consultant during the winter months, will be a full-time resident for 5130 this summer. He is associate professor of mathematics at UNM.

SANDIA LAB NEWS

Friday, June 3, 1955

Published every other Friday for the employees of Sandia Corporation, contractor to the Atomic Energy Commission.

Editor, Robert S. Gillespie
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Telephones: Sandia Base Extension 25253 or 26135



June Engagement—Of the Brain

June is a beautiful month! Summer's here. Vacations are due. It's the month of weddings. Fishing's at its best. School's out. And it's the month of security violations. At least it is at Sandia Corporation for our Plant Security Department has figures to prove that there are more breaches of security during June than any other month of the year. Many theories have been advanced to account for this phenomenon, but no conclusion has been reached. You may have your reasons, the next fellow will have his. Perhaps they are all correct, but in past years June has been the darkest spot on the security calendar and here we are on June 3 and the problem's with us again.

One solution has been suggested in the recent security poster which cautioned "be sure the brain's engaged before you put your mouth in gear."

This June (and for all months) be sure to keep your mind occupied with security matters. That will keep classified documents off desks and in locked safes.

You may not be planning a wedding but you and security should be going steady.

Slow Down and Live —

Speed kills. Speed kills especially often during the summer months, during the vacation season.

From Memorial Day to Labor Day, 101 days, there is a terrific traffic problem on the open road. July or August now replaces December as the month with the greatest number of traffic deaths on the "open road".

That's why there is a nationwide campaign this summer to "slow down and live" for the 101 dangerous summertime travel days. It can work. In 1953, 11 northeastern states introduced a slow down and live campaign. In 1954 the drive was extended to 24 states and there were more than 600 lives saved, the first recorded decrease since World War II.

This year it may be your life that's saved. If you slow down.

Congratulations

BORN TO:

Mr. and Mrs. Louis Flores, 2232, a son, May 23.

Mr. and Mrs. I. B. Ortiz, 2232, a daughter, May 23.

Mr. and Mrs. Robert Hoff, Insurance Counsellor, a daughter, May 24.

Mr. and Mrs. Richard Starkey, 2417, a daughter, Nancy Ann, May 19.

Mr. and Mrs. W. H. Hofing, 5351, a daughter, Lillian Annette, May 16.

Mr. and Mrs. Don Knott, 2443, a son, Randall Oliver, May 19.

Mr. and Mrs. Roman Garcia, 2351, a son, Ramon Garcia, Jr., May 14.

Mr. and Mrs. James Courtin, 2151, a daughter, Teri Andelle, May 6.

Mr. and Mrs. Ronald Reed, 5133, a daughter, Marianna, May 2.

Mr. and Mrs. Andy Coar, 2545, a son, Paul, May 18.

Mr. and Mrs. James V. Neely, 5223, a daughter, Claudia Sue, May 26.

Mr. and Mrs. Arthur J. Clark, 5352, a son, David Perrine, May 28.

Vacationing from 1610 last week was **Ted Morse**, whose holidays take him to byways around the state in a specially equipped "vacation wagon."

Her co-workers in 1614 send their get-well wishes to **Faye Dobbs**, who is recuperating from surgery.

Jessie Greenwell, formerly secretary to **Commodore D. F. Worth, Jr.**, AEC, visited with the Worths and **Sybil Milligan**, AEC, recently. Jessie and Sybil left May 12 for a three-week tour of New England states.

Nona L. Shively, AEC, and her husband, **Howell**, 2413, are vacationing with relatives in Missouri and Michigan. They expect to return June 10.

Dorothy Current, AEC, enjoyed a visit with her son and his wife and two grandchildren at her home recently. Her son, **Neal F. Current**, has finished a tour of duty with the U. S. Navy in Madrid, Spain.

AEC welcomed a new employee recently: **Carl R. Redels** to Manufacturing, Engineering Inspection Section. **Ova Royal** was welcomed back to AEC's Development and Production Operations office after a three-week illness.

While his wife participated in the Southwestern Women's Open Golf Tournament, AEC's **Eugene R. Butler** vacationed for three days to baby sit.

George Zimmerman, 3171, and his wife are enjoying a vacation early this month to visit relatives in Memphis, Tenn., and Chicago, Ill., and to attend a high school class reunion with George's friends in Rock Island, Ill.

Manuel Bolton, 2124, and his wife, **Margie**, 1613, are visiting with relatives in Graham, Texas, this week.

Honored at a surprise stork shower recently was **Helen Cato**, 2464. Her co-workers gathered at the home of **Mary Armbrust**.

Members of Division 5311 held a picnic May 15 in the Sandia mountains to say good-bye to **Bobby Neeld** who is becoming a jet pilot for Uncle Sam. A softball game came to a sudden end when the wind took charge, but everyone reported an enjoyable afternoon.

Doris Willard, **Genie Smith** and **Anna Averyt**, all of 4135 are vacationing in Los Angeles and vicinity.

The vacation roster for members of 5520 will take Sandians to all parts of the country; **George Roth** and his family are leaving tomorrow for New York; **Graine Robinson** left last weekend for West Virginia, New York City, and Washington, D. C.; **Ben Blythe** and his family are taking a holiday to California, and **Bill Hubbs** and his family will visit Washington state.

Ruth Redmond, 5520, and her husband will vacation in Chicago and Kalamazoo, Mich.; **Jim Steuber** will visit scenic spots in New Mexico; newly returned to the department from spring holidays are **Dennis Vath**, who vacationed with relatives in Wisconsin, and **Kay Dieruf** and her husband, **Burt**, 1323, who camped out in Colorado.

The long weekend saw **Ruth**, 5520, and **Gordon Prestby**, 1932, motoring to Colorado Springs. Other visitors in the Colorado Springs area for the three days were **Jo Sandusky**, 5520, and her husband.



NEWLYWEDS Patricia and Carter D. Broyles, 5111, are pictured after their recent wedding in Beverly Hills, Calif. They honeymooned in Acapulco and Mexico City and are now at home in Albuquerque, 1024 Truman St. SE.

Lloyd Keller, 5520, will go on military leave June 13 to spend two weeks as a naval reservist at Point Mugu, Calif. **Bob Harner** of that department has returned from similar duty in San Diego.

The Grand Canyon was the holiday weekend destination for **Paul Pewe**, 2611, and **Noble Johnson**, 3154, and their families.

Vacationing for a week in California recently were **Violet Foderaro**, 2611, and her husband. Other California visitors this week are **Mel McCutchan**, 2613, and his wife who are in San Diego.

Marvin Hunt, 4135, and his wife vacationed recently with friends and relatives in the Chicago vicinity.

Wayne Davis, 5133, and his family are leaving today for a visit in Medicine Lodge and Winfield, Kan.

Back at work after time off to do home repairs is 5132's **Dick Hildner**. Also working on his property during a vacation from 5130 last week was **Ken Erickson**, who was handyman at his place in the Sandias.

Dan Stoddard, 5132, and his family motored to Richmond, Utah, last weekend to attend the festivities honoring his mother, who was selected as "citizen of the month."

Vacationing briefly in Tulsa this week is 5131's **Ann McIntire**.

Mr. and Mrs. Vern Sawyer, 2414, have returned from an extensive tour of the west, including visits to Nevada, California, Utah, Idaho, Oregon, Washington, and Victoria, B. C.

New York was the vacation headquarters for 2411's **Paul Greenblatt** and Mrs. Greenblatt.

New homeowners from 2611 are **Homer McIlroy**, who has moved to the residence at 8907 Los Arboles NE; **Ed Beach**, 2632 San Pablo NE, and **Robert Norvill**, 1316 Indiana NE.

Oleta Morris, 2333, has returned from a vacation during which she visited 15 states. She reports she was most impressed with Lexington, Ky., and Pennsylvania and New York.

Doris Millikin, 2461, is enjoying a vacation in Pontiac, Mich., her former home. **Nelen Nelson**, also of 2461, is spending her summer holiday with relatives and friends in Minneapolis, Minn.

Co-workers of **Irene Merrell**, 2461, surprised her with a beautifully decorated cake on her birthday, May 19.

Exhibiting his handsome St. Bernard, "Lady", in a Colorado dog show recently was **Howard J. Smythe**, 2461.

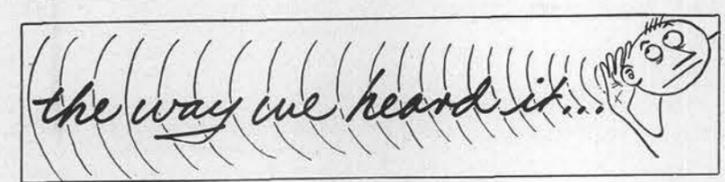
June Stone, 2461, reports that her husband, **Tom**, 2553, is recovering rapidly from recent major surgery.

Cecile McIntosh, 3124, recently entertained a friend from New York, taking her on visits to Acoma and Santa Fe.

Mr. and Mrs. G. W. Hughes, 1215, their sons, **Bill** and **Greg**, and their Collie, "Lady Esther," returned from a 10-day vacation in Arkansas where they visited relatives. The trip was a turning point in the life of young **Bill**, age 6, who caught his first fish—a 10-inch catfish.



ELECTRICAL ENGINEER turned mechanic—**Dave Carrick**, 2551, explains to his three-year-old son, **Paul**, some of the intricacies to be found under the hood.



Numbers Game

Ever wondered if a telephone number is a Sandia Base extension or an Albuquerque number? Here's a way to check and it's accurate in most cases. If the third digit is a 1 or 2 it probably is a Base number. A further check: If the last two digits are between 10 and 31, inclusive, it is a likely Sandia Base military phone. Between 32 and 63, inclusive, probably is a Sandia Corp. business phone. If they are 64 or higher chances are good it is a Sandia Base residence number.

Distinguished Visitor

Sandians attending the Colloquium Series received a "bonus" Wednesday, May 18, when Dr. Arthur Compton, Nobel prizewinner and chancellor of Washington University at St. Louis, visited briefly at the Laboratory and addressed the group on "The Origin of the Atomic Military Program." Dr. Compton had been in Los Alamos for a speaking engagement and motored here at the request of Sandia's Colloquium Committee and Everett F. Cox, 5110.



Photo by Hodges

GROUND BREAKING — Charlie Kaspar, 3153-2, Coronado Club director in charge of swimming pool activities, did the honors recently in breaking ground for the new Club pool. Watching the ceremony was John Taylor, Club manager, left, and Charles O'Keefe, 1932, Club president. The pool will open June 25th.

Coronado Club Members to Elect New Directors, Officers At Annual Meeting

Coronado Club members will hold their fifth annual meeting Monday night, June 13, at 7:30, at the Club. At that time directors and officers for the next year will be elected and reports of club officers will be heard.

Nominations Committee Chairman William E. Caldes reports his committee has prepared a suggested slate of nine which will be placed in nomination at the meeting. Additional nominations will be solicited from the members present to fill the nine vacancies on the Board.

SLATE OF NOMINEES

- William O. Bramlett.....2452
- Harold V. Catt
(incumbent).....1921
- E. T. Cook.....AEC
- A. M. Fellows.....3151
- Edward L. Harley.....1711
- Joe R. Heaston.....5212
- Robert E. Hopper.....2440
- Martha Howard.....1641
- Raymond H. Schultz.....1323

Printed ballots will be furnished and they will contain the names of the committee's nominations and will also include blanks for writing in names of other nominees.

All active paid-up members are entitled to vote and to make nominations from the floor. Associate members are not eligible to vote.

Membership and voting qualifications will be checked at the door. Members who join the Club during the 10 days preceding the meeting are ineligible to vote. A list of eligible members will be posted on the

Club's bulletin board for 10 days before the meeting.

Club President Charles B. O'Keefe is urging members to attend the meeting and participate in the proceedings. "This is an excellent opportunity for members to voice their suggestions for the coming year," he says, "and at the same time help select the new directors and officers."

A quorum is 100 members. The meeting will be called to order as soon after 7:30 as a quorum is on hand.

Following the election of the directors another ballot will be taken to determine the two new directors who will serve two years. Club officers will also be selected by members from the list of directors.

Two members of the board are appointed, serving until replaced. Representing Sandia Corporation is E. W. Peirce and the Atomic Energy Commission representative is Cliff Hull.

In addition to the appointed directors, President O'Keefe is the only holdover, having been elected to a two-year term last year. The other two-year director elected at that time, Al Spengeman, left Sandia and was replaced by Harold Catt. Now serving as treasurer, Catt is a candidate for re-election to the Board, as appointees serve only until the next regular election.

Members will have the opportunity to bring up any matters of business after the election is completed.

A Dutch lunch will be served at the close of business.

MORE around the departments

Stella Goodrich's miniature long-haired dachshund, "Teckelhaven's Jill," took top honors in the recent Albuquerque Dachshund Club puppy match. Stella works in 5242.

Camping in scenic Arizona is the vacation schedule this week for 1333's Walt Joseph. Roland O'Trimble, also 1333, is spending a two week holiday at his home town, Nortonville, Kans., and at Kansas City.

Paul Morgan, 2545, is vacationing in Texas where he's visiting relatives in several cities.

Portland, Ore., will be the vacation destination for Walter Hall, 2541, who plans to leave today.

Barbara Lee Fiori, 2410, was pleasantly surprised May 26 when her co-workers in 2410, 2440, and 2471 arranged a surprise pot-luck luncheon in her honor. Favors and decorations were in the pink-and-blue theme.

Edith Irwin, 2231, and her daughter, Karla, were guests at the wedding of Edith's niece in Tulsa, Okla., late last month. Returning to Albuquerque with them were relatives from Indiana who came to attend the graduation exercises of Edith's son, James.

Sally Cole, 2522, is enjoying a vacation with her parents in Boston, Mass., her former home. A visit to Washington, D. C., is also included in her plans.

From 2234: Ralph Gustin and his wife, Ruth, 2231, are vacationing with relatives in Indiana; Wendell Eskridge and his family spent the holiday weekend with a daughter in Tucson, Ariz.; Leonard Glover fished at Bluewater Lake and in the Las Vegas, N. M., vicinity recently—reports "results poor"; Curly Marchbanks is trying his fishing luck in northern New Mexico and Colorado while on vacation.

Marion Lantz, 2152, and Francis Berry, 2151, were welcomed back to the Laboratory after recent hospitalization.

Alice Underwood, 2232, is confined at home by illness and her friends at the Corporation send her their get-well wishes.

Ernest Lovato, 2231, a patient at Veterans Hospital, is wished a speedy recovery and a quick return to work by his friends at Sandia.

Betty Chaney, a recent bride, was honored with a personal shower at the home of Gladys Boren, May 20. Attending were their co-workers in 2464.

★ Col. Doug McRae; If You Please . . .

The governor of New Mexico, John F. Simms, recently appointed Douglas F. McRae, 3171, as a Colonel, Aide-de-Camp, to the governor's staff.

The document reads: "That reposing special trust and confidence in the ability and patriotism of Douglas F. McRae, I do hereby appoint and commission him . . ." The commission is signed by Lieut. Gov. Joseph A. Montoya, acting in the absence of Mr. Simms, and Adjutant General Charles L. Sage.

Doug has been associated with the Corporation's safety department since 1951.

Travelers Cheques May Be Purchased At Finance Office

Sandia Corporation's Financial Division is again providing employees a special Travelers Cheque service for their vacation trips.

Arrangements have been made with American Express Co. so that Corporation employees may purchase Travelers Cheques at the teller's window in Bldg. 809 at special low rates.

The cost to employees is one-fourth of one per cent of the face value of the Cheques—that is 25 cents for \$100. They are available in denominations of \$10, \$20, and \$50 for personal use.

Employees who are planning to leave on their travels immediately after work may exchange their pay checks or vacation advance checks for Travelers Cheques at the Financial Division, teller's window.

Personal checks will also be cashed for purchase of cheques provided the following approvals are obtained: up to \$100, division supervisor; to \$300, department manager; to \$500, superintendent; to \$1,000, general organization head.

Employees who desire to purchase Travelers Cheques should call the teller at least one hour in advance of the time they wish to pick up the Cheques. The extension is 32147. It is suggested that the individual give information of the total amount and denominations wanted so that the pads may be made up and the application forms prepared in order to save time.

Safety Saying —
The skillful worker is the safe worker.

Two-Day Climb on Mountain Climbers' Schedule This Week

Members of the New Mexico Mountain Club and their guests have a choice of an overnight or a one-day trip for the trek to The Needle or the Rim via La Luz Trail on the west face of the Sandias. The climb is set for this weekend, June 4 and 5.

Those who wish may take La Luz Trail to the Rim Saturday night under a full moon and sleep on the mountain top. Sleeping bags and supplies will be carried to the campsite by automobile.

Others can drive to the Rim early Sunday morning and accompany Saturday's group to The Needle. There will be a choice, too, of an "easy" or a more challenging route to The Needle. Hank Tendall, 1211, may be contacted for further information.

Nominees for Coronado Club Directors—



A. M. Fellows



E. L. Harley



E. T. Cook



J. R. Heaston



R. E. Hopper



Martha Howard



R. H. Schultz



W. O. Bramlett



H. V. Catt

coronado club



June 3 through June 18

Sun., June 5 Open	Mon., June 6 Open	Tue., June 7 Chess Night 7:30 p.m.	Wed., June 8 Bingo 8 p.m.	Thurs., June 9 Duplicate Bridge 7:30 p.m.	Fri., June 10 Social Hour Square Dance	Sat., June 11 Dance Doc Savage Band
Sun., June 12 Open	Mon., June 13 ANNUAL MEETING & ELECTION	Tue., June 14 Chess Night 7:30 p.m.	Wed., June 15 Ladies Afternoon Bridge 1:15 p.m.	Thurs., June 16 Duplicate Bridge 7:30 p.m.	Fri., June 17 Social Hour MBC Trio	Sat., June 18 Juke Box Dance

Fri., June 3
Social Hour
MBC Trio

Sat., June 4
Dance
Tommy Kelly
Band

EVENTS



Photo by Dunlap

MEETING AGAIN in the Sandia Corporation technical area are twin buses of the Tech Area Bus Line. Driver Dick Starkey, left, halts at a stop sign, as Joe Chavez approaches.

Tech Area Buses Have 2.5 Mile Route; They Pile Up 26,760 Miles Each Year

Solely because the engine is in the rear, the vehicles of the Tech Area Bus Lines are called "Pusher" buses, says Joe Chavez, one of Sandia Corporation's bus drivers. Joe laughingly denies that "pusher" means passengers must assist the vehicles' progress through the Sandia Corporation technical area.

More than 500 comfort-minded Sandians employ the services of their private bus line each day—125,000 passengers a year! — according to Chavez who punctually tools his red-and-tan behemoth along the narrow streets of the tech area.

Joe's first trip departs from the home terminal at the Motor Pool at 7:31 a.m.—in winter, a half hour later—and begins its first outbound run at 7:40 sharp. The bus leaves the Administration building every ten minutes thereafter during the work day.

22 Round Trips

During their runs the buses meet in front of Building 860, or reasonably close thereto; they meet in this manner on every one of the 22 round trips which each vehicle makes during the day.

Outward bound is the scenic portion of the Tech Area Bus Tours. The towering Sandia Mountains are visible to the left; thereafter in majestic progression, the Tech Area traveler views the distant picturesque Tijeras Canyon, the stone face of the Manzanos, and finally, the open mesa to the South.

The in-bound trip, to Building 800, is devoid of scenic attraction, Joe says; it's just buildings.

Came From Los Alamos

The Tech Area buses were used at Los Alamos from 1948 through 1952. At that time, Los Alamos scientists were required to drop coins into coin boxes for rides through the residential area. "When we transferred the buses to Albuquerque," Bob Flaxbart, Motor Pool Supervisor explains, "we removed the coin boxes."

Joe's bus—there are five of them; two assigned to Tech Area operations, two held in reserve, the fifth assigned to Tech Area II—will carry 30 passengers. It is gasoline powered, has air brakes, but can be driven easily by anyone familiar with the ordinary passenger car gear shift.

"The only problem in driving one of these buses," Joe states, "involves keeping your eye on the left mirror, the overhead mirror, the right mirror, the pneumatic door, and also on the instrument panel. Then, too, I have to watch the passenger who jumps into the aisle before the bus stops."

Air Horns Loud

The buses are equipped with a loud and musical horn, not unlike the blast of a Greyhound bus horn. "People never fail to hear me coming," Joe says. For that reason, he doesn't have to "beep" very often.

Some 19 to 25 stops are made during each run. Despite the number of forced stops for stop signs, gate in-

spection, and passenger pick-ups and let-downs, the buses average some 7.5 miles an hour throughout the run. They make up lost time on the isolated section around Building 880.

Uniformed chauffeurs drive the buses. Working in pairs for four-week periods, they include Burl Brown, Richard Starkey, Al Fernandez, Bill Peters, Bill Prokosch, Art Chacon, Joe Chavez, and Burl Alsop.

Business Varies

"We keep a count on our passengers," Joe says, commenting that occasionally passenger trade waxes slim in New Mexico's fair weather. "But on rainy days and during infrequent dust blows, these buses are crammed to the doors." Joe says that his most steady customers are messengers: little girls with big manila envelopes, "hand-carrying" important documents.

The bus route, now a round trip of 2.5 miles, totals some 102.6 miles each day. That's 26,760 miles a year! Speedometers of the vehicles are fastened to the left front wheel, strangely enough, a carry-over from the days at Los Alamos when vehicles were operated for hire.

Does Joe mind the monotony of the turns—17 of them—the sway and bounce of the passing scene, the roar of the engine behind him, the eccentricities of his passengers?

No, Joe doesn't mind the passengers—if they'd only remain seated until the bus stops. He doesn't want to have a debarking rider exit through the windshield.

"We drive 'em safely," he says. "Now it's up to you to ride 'em safely."

Square Dancers to Bring Caller for June 24 Program

"The Clown Prince of Square Dancing," Harold "Butch" Nelson, will call squares for Coronado Club members and guests on June 24. Dancing will be 8:30 to 11:30 p.m. at the Coronado Club.



"Butch" Nelson

Mountain Square Dance Camp at Golden, Colorado, and is a recording artist for Old Timer Records.

Square dance tickets are 50 cents for members, \$1 for guests.

Other events of interest to Coronado Club members and friends include a Sunday Buffet and Cocktail Hour on June 19, from 5 to 7 p.m. Tickets are priced at \$2 per member, \$3 each for guests. The Dorothy Gray Shop will stage a summer style show.



Sandia Fishermen Rescue Two Persons From Colorado Lake

Several Sandians helped rescue an elderly couple recently during a trout fishing weekend at Vallecito Reservoir near Durango, Colo.

Charles L. Hines 1210, Richard A. Bice 5220, William A. Gardner 1280, and Fred A. Leckman 1645, were on shore when the couple's boat capsized about 50 feet out in the lake. Charlie commandeered a boat and rescued the man and woman while the other three took another boat to tow in the stricken craft.

Included in the party who headquartered at the Hines' summer cabin were Robert W. Henderson 1200, William R. Cooper 1213, and C. F. Robinson, who formerly worked at Sandia Corporation.

Promotions

LEMOYNE BROWNING to supervisor of Electrical Inspection Section, 2541-6. "Brownie" has been at Sandia Corporation for three and a half years and has worked in the inspection department. During World War II he was in the Air Force and an instructor in radio operating and mechanics in the technical training command station at Sioux Falls, S. D. After leaving the service, he came to Albuquerque where he was employed as an assistant civil engineering aide for the U. S. Engineers in this district. He is a native of Winfield, Kan.



JOHN W. McKIERNAN to supervisor of Weapons Facilities Division, 1283. John has been supervisor of the Mechanical Design Section 1333-2, for the past three years. He joined Sandia Corporation in July, 1951, as a staff member in 1216.



John received his B.S. degree in mechanical engineering from the University of Missouri in 1948 and later that year accepted employment with E. I. DuPont, Inc., Rayon Division in Richmond, Va. After a year there he returned to the midwest to earn his M.S. degree in mechanical engineering at Iowa State College. He was an assistant professor in mechanical engineering subjects at Iowa State until moving to Albuquerque.

He is at present secretary of the local chapter of the American Society of Mechanical Engineers and recently was elected treasurer. While in college John was elected to membership in Pi Tau Sigma and Tau Beta Pi, honorary engineering societies.

JOHN E. MARQUIS to supervisor of Drafting Section B II, 1643-2. Before joining Sandia Corporation as a design draftsman in February, 1952, John was chief draftsman with Four Wheel Drive Auto Co., in Clintonville, Wis., for five years. Prior to that he was employed by Davenport Besler Co., Davenport, Ia., as a design engineer, and previously was an engineer at Rock Island Arsenal, Rock Island, Ill. John worked for American Steel Foundry Co., in Granite City, Ill., prior to employment in Rock Island.

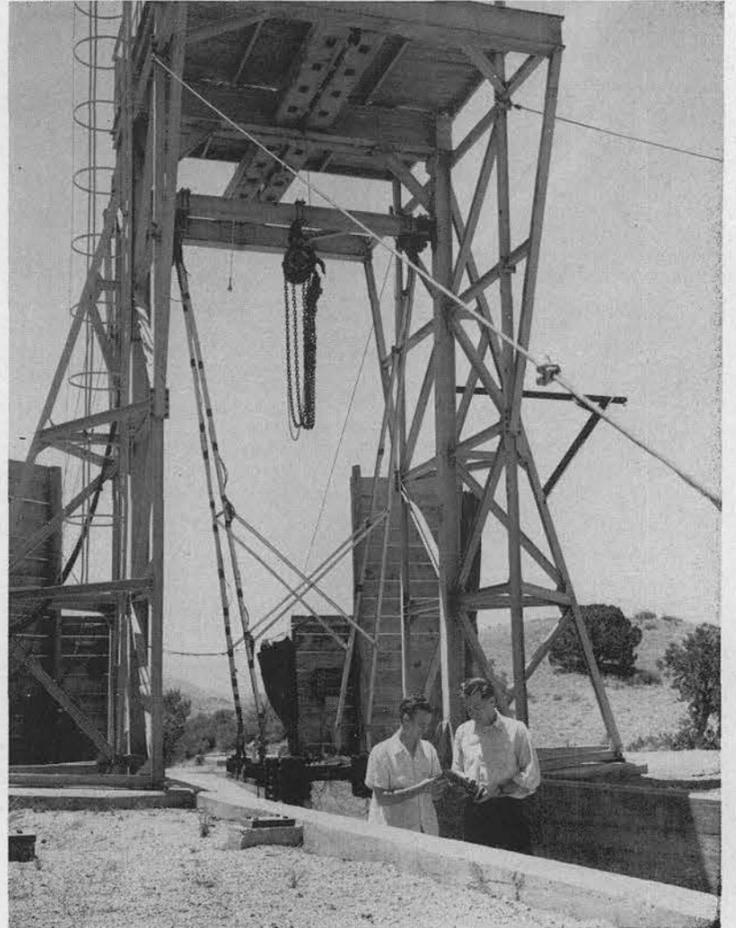


Photo by Dunlap

PENDULUM ENGINEERS—Standing before the rocket powered pendulum in a Sandia Corporation technical area are Bill Duggin and Bob Hager, 1612. The device is used for impact shock testing.

Rocket Pendulum Used In Shock Testing Here

A rocket-powered pendulum towers over the desert landscape somewhere in the Sandia Corporation technical area. It is used in sustained and impact shock testing of non-nuclear components of atomic weapons.

Designed Here

Designed, engineered and constructed by Sandia Corporation personnel, the simple tower of channel iron and aluminum is set deep in concrete footings. A massive steel framework swings at the end of four aluminum arms. The pendulum itself, some 21 feet long, carries a spider's web of cables, electronic gear, and instrumentation. Despite the high level purpose for which it was engineered, it resembles a child's sturdy swing in the desert. But no child ever took a ride on a swing like this!

A blazing battery of bazooka rockets "pushes" this "swing".

Used 30 Rockets

The rockets are fired simultaneously by electric impulses from a 400-volt, 100-microfarad condenser bank. From one to 50 rockets may be used, although Bob Hager, 1612-1, who made tests with the rocket pendulum after an idea presented by Dr. C. N. Hickman, former Sandia Corporation employee, has used only 30 at one time.

"Varying the number of rockets to propel the test platform," Hager says, "varies the amount of shock on the test specimen and the maximum swing of the pendulum."

Specimens to be tested for duration shock are attached to the pendulum framework, Hager explains. Then technicians, engineers and explosives experts retire to the safety of a concrete underground bunker 1,000 feet away. From this control center the rockets are fired.

Immediately the pendulum accelerates to 40 G's (gravities) or more! Because the pivots upon which the giant swing hangs have been machined to extremely high tolerances, the pendulum swings back and forth for a considerable time after the explosive power of the rockets has been exhausted. Its movement is decelerated by gravity, air resistance, and minimal pivot friction.

Electronic cables carry impulses from an elaborate set of recording instruments which ride the pendulum throughout each test. They are attached to the aluminum arms of the swing, up and over the supporting

steel beams to the control bunker nearby.

Simulate Shocks Safely

Hager says the pendulum was developed as a test facility for full size non-nuclear components of atomic weapons. "With the pendulum we can simulate many shocks in absolute safety. Thus we can establish the weakest portion of each test specimen."

The warheads and fuzes of the 3.5 bazooka rockets used to propel the pendulum have been removed. Only the motor sections are attached to the test platform. Use of rocket power permits accurate control of the amount of acceleration and its duration.

For the more complex impact shocks, the thrust of the bazooka rockets is imparted to twin steel rams fastened to the test platform. They move forward 1½ inches or less, and smash their weight and momentum into the test item and the moving platform. During such tests, accelerations up to 300 G's are possible.

182,000 Pounds Force

Control of the acceleration is obtained by varying the distance which the rams travel, and by varying the number of rockets. Total force exerted between the rams and framework during impact tests may run as high as 182,000 pounds! Yet this great force is harnessed by skilled engineering so that the pendulum never swings higher than 78 degrees from a vertical resting position.

Development of the rocket pendulum has been underway since March, 1951, Hager says. Construction began in November, 1951.

Hager is a graduate of the University of Washington with BS and MS degrees. He lives with his wife and three children at 2729 Kentucky NE, and was assisted during testing pendulum by Lloyd Meyers and Bill Duggin.

Max McWhirter acted as Supervisor of test phases. Developmental work was accomplished through the cooperation of many Sandia Corporation organizations, Hager said.

N. M. Mobile Radio Fans' Hamfest Set for Duke City, Sandia Mountains Tomorrow

More than 100 Sandia Corporation employees will attend the Fifth Annual "Hamfest" and Picnic of the Amateur Radio Caravan Club of New Mexico tomorrow and Sunday at Rio Grande Park in Albuquerque. The two-day conference will attract radio amateurs, their wives and guests from throughout New Mexico.

Chief technical speaker on the program is John L. Reinartz, K6BJ, director of the Amateur Service Bureau of Eitel-McCullough, Inc., San Bruno, Calif. He will address the conference on the "Single Side Band."

Reservations and further information may be obtained from Gene French, Alb. 5-5586; Brooks Braffett, banquet chairman, ext. 56147; Bob Dawirs, registration chairman, ext. 32158, and Harlow Beene, ext. 20139, publicity and program chairman.

PROGRAM

Saturday, June 4

5 a.m. to noon—10 meter DX contest to Sandia Crest for mobiles

10 a.m.—registration begins

10 a.m. to noon—Get-acquainted session

Noon to 4 p.m.—Talk on "Single Side Band" by John L. Reinartz, MARS meeting, QLF Contests

3-5 p.m.—Mobile judging

4:30 to 5 p.m.—Test and tune-up for transmitter hunt to be held Sunday morning

Saturday evening—Banquet at Wayside Inn, \$2.50 per plate. Speaker, Dr. Martin W. Fleck on "History of the Calendar."

Sunday, June 5

5-10 a.m.—DX contest, for mobiles, any band

9-10 a.m.—Judging for mobiles not present Saturday

9:30 to 11 a.m.—Coffee and book review for ladies, Brooks Braffett home, 2118 Renard Pl. SE

9-11:30—Hidden transmitter hunt

11:30 a.m. to 2 p.m.—Awarding and drawing of prizes

2 p.m.—Picnic

Several Employees Enter Service and Other Men Return

On leaves of absence from Sandia Corporation are these men who were called to military duty last month:

Richard Stone 5252, to the Air Force; Don Wilkes 5351, Robert Jones 5424, James Carrell 5424, and Edwin Stimpson 5223, all whom have entered the U. S. Army; and Richard Borgmeier 1284, who entered the Navy.

Recently returned to work after military service are James E. Boyes 1641, Melvin Reynolds 2482, Edward A. Salazar 2150, Leo Cordova 2461, and Stuart Shew 1644.



James Hockett



Arthur J. Clark



George Lemmon

Sandia Employees Earn College Degrees

College degrees are being awarded this month to several Sandians who have completed course requirements at the University of New Mexico or the College of St. Joseph.

James Hockett, 2464, received his B.A. degree in Economics from St. Joseph's May 27. Jim, who joined the Laboratory in 1951, was formerly employed as accounting manager for General Motors Acceptance Corp. in Albuquerque.

His previous college training was at Springfield Junior College, Springfield, Ill., and at St. Louis University where he studied law. Jim is a veteran of the U. S. Navy. He is married and the father of four daughters. The family home is at

8615 Menaul Ave. NE.

Arthur J. Clark, 5352, will receive his MS degree in electrical engineering from UNM this month. Before joining Sandia Corporation in 1951 he was a senior structures engineer for Curtiss Wright Co., Propeller Division, at Caldwell, N. J., and prior to that had worked for Fairchild Engine Corp., Farmington, Long Island, N. Y.

Art received his B.S. degree in administrative mechanical engineering from Cornell University and later earned his master's of mechanical engineering degree from Polytechnic College, Brooklyn, N. Y.

He and his wife and two sons reside at 3396-51st Loop, Sandia Base.

George Lemmon, 1284, will receive his MS degree in mechanical engineering from UNM, June 9. Before coming to the Laboratory 4½ years ago, George taught at the University while doing graduate work. He also did graduate work at the University of California and was an instructor at the University of Utah before moving to New Mexico.

George is a veteran of three years' active service in the U. S. Navy and is a reservist.

He and his family live at 6022 Aspen Dr. NE.



Photo by Dunlap.

Andy Kuntz
—a clean mop and a clean shop—

Andy Cleans Up in His Mop Shop

Andy Kuntz, 2419, operates Sandia Corporation's one-man laundry—and it's with his assistance, and the efficient operation of his up-to-date equipment, that the floors of Sandia's offices, laboratories and shops are kept clean.

On Mondays, when the work-week begins, he finds near the door of his laundry in Bldg. 887, "GI" cans full of dirty dust mops.

Andy sorts out the dusty, greasy mops—some 125 a week—washes them for five minutes with a detergent, rinses twice in hot water, then washes again with a good bleach. "Gets them white, too," says Andy authoritatively.

Using his new electric drying machine, Andy spin-dries the mops for five minutes, later fluff dries them for half an hour.

Busy Monday

"We dip the cleaned and dry mops into a special wax," Andy explains, "dry 'em again, and put them into storage where they are picked up at five o'clock each night by janitors from all over the area." The wax dip makes mops moist, helps cotton fibers pick up and retain dust grains.

Andy says his busiest laundry day is Monday. "Just after Friday and

Saturday when mops get two days' use."

Monday is also official wash day for sheets and pillow cases used for the cots in the ladies' lounges throughout the area. Blankets are also washed as necessary. Andy doesn't iron the sheets and pillow cases. Instead, he smooths them down with his hands.

Andy's laundry is a large, airy room, one wall of which is lined with modern commercial laundry equipment. He has a tumbler washer, spin drier, and fluff drier, all gleaming stainless steel.

Thinks He'll Stay

On the other side of the room, Andy keeps his supply of waxes, floor polishes, germicides, general cleaners for the janitor service division.

Andrew Whit Kuntz, One-Man Laundry, has been a Sandia Corporation employee since November, 1950. He and his wife, Mary, live at 425 Alcazar NE. Andy has been an Albuquerque resident since 1927, "when the Duke City was a sleepy, shady town beside the Rio Grande."

He came here from the Ozark country of Missouri and soon got to liking it here.

"I think I'll stay," he says.

Weddings

Betty Chaney, 2464, and Sgt. Warren Cummings of Kirtland Air Force Base were married May 29 in an afternoon ceremony at Kirtland Base Chapel. They are now living at 1505 Hendola NE and are planning a delayed honeymoon trip to Mexico City in August.



Mrs. Cummings Mrs. Durant

Lorrie Luba, 2333, was married to James Durant, May 6, in a candlelight service at Central Methodist Church chapel. Mr. Durant, an electrical engineering student at the University of New Mexico, and his bride are planning a delayed honeymoon trip to Chicago and Florida in late August. The couple resides at 1421 Grand Avenue NE.

Welcome!

Newcomers

A welcome is extended to the following newcomers who joined Sandia Corporation between May 3 and May 23:

David F. Hillier, Jr.	1612
Mitchell J. Krzykowski	1641
Avelina G. Du Bois	1922
Evangeline T. Baca	1925
Marilyn I. Coble	1925
Diane M. Martin	1925
Harvey E. Long	1941
Helen K. Cameron	2122
Lucy Garcia	2222
Virginia T. Sims	2353
Felix S. Gabaldon	2461
Charles W. Horvath	2461
Elaine G. McClure	2461
Brand H. Hening	2463
General Horton	2523
Martha J. Baldwin	2533
Jack H. LaFleur	2545
Albert Schwartz	2545
Julie M. Gonzalez	3153
Betty Lou Myers	3153
George P. Steck	3120
Roch W. Bradshaw	5241
Robert E. Moll	5300
J. Lloyd Williams	5510

Sympathy

To Larry Brown, 2151, and Ruth Brown, 2111, for the death of their infant daughter last month.

To Joanne Boyd, 2150, whose mother died recently.

Two Sandians Elected to Serve As Officers Of Albuquerque Musical Organizations

Two Sandia Corporation men were elected recently to offices with Albuquerque music organizations.

Rear Adm. (ret.) A. M. Granum, 2313, was named head of the board of directors for the Albuquerque Civic Symphony, and Philip D. Wesson, 6000, was chosen second vice-president of the Community Concert

Association. Mr. Wesson also serves as second vice president of the Civic Symphony.

Tentative plans for a "pops" concert by the Civic Symphony are being formulated. Final concert dates for the Concert Association's coming season were announced, to begin Oct. 17 and ending next Feb. 24.

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.

An active Sandia Lab News reporter in 2462-3 is Millie Graves who is enjoying her beat because "everyone cooperates very well."

Her co-workers have been giving Millie their items for the past six months since she volunteered for the news job.

Millie, a bindery operator, joined the Laboratory in Dec., 1952. During World War II she worked at the old Oxnard Field (now the site of Sandia Base) and then was employed at Kirtland Air Force Base in the production control office.

Millie's husband is a Sandian, too. He is Charley Graves, 2452, and he's been at the Laboratory since December of 1948. The Graves have two



Reporter Millie Graves

sons, Foy Dean, a student at the University of New Mexico, and Vannie Alton, enrolled at Woodrow Wilson School.

Millie's hobby is gardening at the family home, 608 Cardenas SE, where she raises fancy begonias and dahlias.



PRESENTING: "The Lads of Enchantment" who placed third among 12 competing barbershop quartets in the regional contest at San Antonio, Tex. L to R: Carl Wright, Albuquerque architect; Gil Wallace, 2553; Dan Aycock, 2224; and Don Pitts, 2552. They are accredited members of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America.

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, June 10

FOR SALE—

NASH RAMBLER, 1952, Suburban, R and H, overdrive, tinted glass. Lambert, Alb. 5-9630 after 4.

OLDSMOBILE—Good transportation, \$100; also '34 Ford chassis. Mercer, Alb. 6-8191.

UTILITY TRAILER, 4x7 ft., w/roof, tail light attachment and bumper hitch, \$35. Ryan, 1521 Espejo NE.

UNIVERSAL electric range, \$125; draperies, like new, recently dry cleaned, make offer. Mikkelsen, Alb. 5-8289.

TABLE AND CHAIR, drop leaf wood table and chair, \$10. Quant, 720 Valencia NE, Alb. 6-9287.

TWO-WHEEL TRAILER, 4x6, steel bed with removable aluminum top and canvas sides. Kidd, Alb. 6-5181.

INEZ BRICK HOME, 3 bedrooms, den, 1 1/4 baths, corner lot, sprinklers, wall, landscaped. Deacon, 2121 Wisconsin St. NE, Alb. 6-1157.

SIAMESE KITTENS, pedigreed, males, females. Baldwin, 609 Amherst NE, Alb. 5-4238.

RUG AND PAD, gray, \$75, trade for stove or refrigerator. Fortman, Alb. 6-9456.

FOOD MIXER, Hamilton Beach, \$18; Federal enlarger, f:6.3 lens, \$25; TV antenna, \$2.50; misc. items. Burch, Alb. 3-8385.

MANKIN HOME, 3 bedroom, sprinklers, many extras, GI appraisal \$13,500, \$1,500 down. May, 817 Dakota St. SE.

CORNER TABLE, mahogany, \$10; lamp table, \$10; aqua colored hassock, \$10; green modern table lamp, \$6. Dusek, 812 Adams NE.

WASHER, Kenmore, wringer-agitator type, pump, two steel tubs on stand, \$45. Scussel, Alb. 4-2437.

.22 RIFLE, used once, will trade for small welder, 12-volt charger, filter chokes, transformers. Marshall, Alb. 4-1020.

SCOTCH SOUND TAPE, \$85, cost \$108; will give little used \$189 recorder free with sale of tape. Norvill, ext. 32161.

BED, twin-size, metal, mattress, spring, \$30; studio couch, \$25; rotisserie, \$12.50; 3x18 hall runner, \$6; '47 Hudson, \$100. Higgins, Alb. 4-0346.

DODGE CONVERTIBLE, 1951, new top, R&H, removable overload spring, \$625. Neiman, Alb. 6-8604.

WELDER, 125 amps, 110 volts; English bicycle; aluminum garage door; washing machine Fries, 2014 Inez Drive NE, Alb. 6-3229.

'51 PLYMOUTH, 2-door, hardtop convertible, R&H. Simonson, Alb. 5-3053.

'49 HARLEY DAVIDSON 74, OHV, \$275 or trade. Embry, Alb. 4-3173.

HAND LAWN MOWER, \$10, used one season. Roane, Alb. 6-7384.

BOXER, male, fawn color, 2 years old, dog house, kennel wire, posts. Hayes, ext. 32250.

TWO GAS RANGES, apt. size, choice \$25 ea. Simmons, Alb. 4-4527.

'39 DODGE, 4-door, new battery, good tires and motor, \$95. Braffett, Alb. 2-5429 after 5.

OAK CHROME DINETTE SET, 4 chairs, \$15; air cooler, portable, 2000 cfm, used 2 weeks, \$65. Sullivan, Alb. 2-9364.

BC 221 with built-in power supply, \$60. Westman, Alb. 5-6048.

'51 STUDEBAKER, V-8 Commander, 4-dr., R&H, automatic transmission, \$495. Will finance. Huff, ext. 26240.

ROLLER SKATES, shoe type, white, for girls, size 3, \$10. Courtin, Alb. 6-4603.

DOUBLE LAUNDRY TUBS, Crane, 2 yrs. old, make offer. McDonagh, Alb. 6-5388 after 5.

RESIDENTIAL LOT, one acre, north valley, 4 blocks to school, deep well, all utilities available. Suttman, ext. 29265.

WORK BENCH, 2x8; small table suitable for mounting grinder; cherrywood lumber, child's desk and chest. Noffsinger, 7417 Hirsch Dr. SE.

HOME, three bedroom, hardwood floors, insulated, trees, shrubbery, lawn, 1/2 acre, near bus, schools, shopping, North Valley. Carney, Alb. 4-0483.

TROPHY CAR, 1926 Nash roadster, immaculate, in original condition, \$500. Johnson, Alb. 5-5295.

APEX, Fold-A-Matic ironer, cabinet style, dual thermostats. Holden, Alb. 6-3769.

AMPLIFIER, 10-watt high fidelity, built-in preamplifier, tone controls, record compensator, \$26.50. Hendricks, Alb. 2-0135.

COMBINATION RADIO, 2-speed record changer (table model), storage cabinet, mahogany, \$60. Clark, Alb. 6-5439.

WOMAN'S GOLF CLUBS, \$40; maple night table, \$7.50; rollaway bed, \$10; Encyclopedia Americana, best offer. Douglas, Alb. 5-7766.

HOFFMAN HOME, brick, three bedroom, 1 1/4 baths, carpet, venetian blinds, air conditioner, other extras. Perkowski, Alb. 5-8470.

PARTLY FURNISHED HOME, sale or will rent, two bedroom. Pena, 1301 Alamos Avenue SE on Miles Rd.

SMALL apartment-size range, very reasonable. Trexler, Alb. 6-0271, 1005 Georgia SE.

FOUR-BEDROOM HOUSE, completely landscaped, sprinkler system, walled yard. Judd, Alb. 6-6779 after 5.

COUCH AND CHAIR SET, dark red, \$25. Kite, Alb. 5-9812.

MAYTAG WASHER w/pump; Craftsman 10-in. builders saw w/sander, motor and dado heads; 3-ft. white picket fence; baby buggy. Distmeier, Alb. 3-3155.

UPRIGHT KIMBALL PIANO, good tone; boy's 24-in. balloon tire bicycle, make offer on both. Alderman, ext. 56185.

FLOOR FURNACE, 50,000 BTU Coleman, thermostat; handmade copper saucapan, pewter teapot. Southwick, Alb. 5-3312.

GERMAN LUGER, \$25; Japanese Nambu, \$10; others; want old rifles. Zaluga, Alb. 4-1564, 1321 Van Cleave NW.

RUG, 9x12, all wool, reversible, new, \$60. Mould, Alb. 6-7336.

CHEVROLET COUPE, 1938, R&H, good tires, mechanically sound, clean body. Berger, 202 San Pablo SE, Alb. 5-0265.

CHROME DINETTE SET, table and 4 chairs, \$28; metal utility cabinet, 30x72 in., red, \$10. Weber, 3117 Madeira NE, Alb. 4-5256.

HOUSEHOLD GOODS, moving and must sell. DeJong, 618 Valencia SE, Alb. 6-9009.

FIBER RUG, 9x12, green plaid, used only 4 months, \$13. Graving, 537 Valencia SE, Apt. 2.

HOME FREEZER, 1951 model, 12 cu. ft.; Easy Spindrier; rollaway bed; two cots; Encyclopedia Britannica Jr., reasonable. Morrissey, Alb. 6-2068.

OSCILLOSCOPE and signal tracer for radio and TV, \$30 for both. Marchbanks, Alb. 4-3359.

TWO REGISTERED cocker male pups, 5 months, champion stock with permanent shots, \$25 each. Lister, 432 Dallas NE, Alb. 6-7791.

CHEVROLET PICK-UP, 1951, 1/2-ton, 4-speed, clean, low mileage. Wall, Alb. 6-5611.

SOAP BOX RACER, 1954, operating condition, \$12. Gustafson, Alb. 6-2028.

BUICK SPECIAL, 1951 deluxe, 4-door, Dynaflo, R&H, clean, \$845. Sherwood, 2325 Hoffman NE, Alb. 6-6750.

HOME, 2 bedrooms, den with fireplace, beamed ceiling, patio, barbeque, garage, landscaped, 1716 Anderson Pl. SE, no down GI. Meacham, Alb. 5-1772.

PONTIAC, 1939, 8 cylinder, 2-door, R&H, \$75. Blair, Alb. 6-3022 between 5:30 and 7 p.m.

PAIR TWIN-SIZE Hollywood beds, \$35 each; loveseat sofa-bed, \$40; boudoir chair, \$10. DeSelm, Alb. 5-2634.

PLYMOUTH SUBURBAN, '51. Beach, 2632 San Pablo NE, Alb. 5-9259.

HOFFMAN 3-bedroom home, landscaped, brick wall, air conditioning, insulated, carpeted, venetian blinds, shopping center walking distance. Dahl, Alb. 5-8931.

BENDIX WASHER, 1950 model, \$25. Dawson, Alb. 6-5315.

LIVING ROOM COUCH, green upholstered Duncan Phyfe, 3 down filled cushions. Skaloud, Alb. 6-0136.

AEREO-EKTAR 7-inch lens, F1.5, in focusing mount for Leica camera, complete with lens cover, filters, filter holder. Grubbs, ext. 25144.

CHEVROLET SEDAN, 2-door, 1949, heater, w/w tires, 2-tone green. Wall, Alb. 6-5611.

COMPRESSOR TANK, 1/4 hp electric motor, breast drill, 8-in. saw and arbor, cabinet-maker's vise, furnace grill, wheelbarrow, power mower. Ficke, Alb. 6-5618.

SELF-TAUGHT SPANISH—one book and 6 records in 12 lessons, original cost \$16, will sell for \$10. Lathrop, Alb. 7-8451.

LARGE BUICK RADIO, \$30. Sparger, ext. 35288.

BOY'S BICYCLE, 20-inch, custom leather seat, kickstand, many extras, \$24. LeCompte, Alb. 5-3261.

BOX SPRINGS, 6 legs, innerspring mattress, \$20; two pairs lined drapes, modern block design, \$25. Pearson, Alb. 6-7790.

GIRL'S BICYCLE, 20-in., \$10, or will trade for 24-inch boy's bicycle. Platt, Alb. 6-7746.

DODGE, 1948, 4-door, especially clean, mechanically good, \$245. Jordan, ext. 26152.

OR TRADE: 13 cu. ft. deepfreezer, stainless steel top, for anything of like value. Hoff, ext. 29261.

ALL-METAL KARRYALL camp trailer with built-in ice box, sleeps four, gasoline stove and lantern. Peirce, Alb. 6-4375.



PISTOL TEAM members discuss relative merits of .22 caliber handguns, as they prepare for weekly Sandia Base Gun Club meet on Base range. Shown above, left to right, are: Dick Freeman 1326, Dick Vivian 1711, second highest individual scorer in 60-man league, Ernie Graves 1633 and Al Sinsel 2151. Sandia Corporation pistol squad is presently in second place, with matches scheduled Tuesday and Thursday evenings.

FORD business coupe, 1941, mechanically good, R&H, best offer. Hansen, Alb. 6-0641 after 5.

LEICA-TYPE 35 mm. camera with f.2 Nikkor, case, flash, \$120; Leitz 127 mm. f4.5 telephoto, case, \$45. Knox, Alb. 5-3145.

500 WATT TRANSMITTER, phone or c.w., complete with power supplies, capable of 1 KW, now in operation, \$275. Butler, WSWNU, Alb. 5-8503.

COLEMAN floor furnace, 50,000 BTU, thermostat and controls; large handmade copper saucapan, pewter teapot. Southwick, Alb. 5-3312.

FOR RENT—

THREE BEDROOM HOME, dining room, attached garage, lawn, wall, landscaped, 717 Kentucky SE, available July 1. Dunn, Alb. 5-9213.

NEW TWO-BEDROOM HOME, air-conditioned, new GE refrigerator and stove, carpeting, water, garbage paid. Rhoe, Alb. 5-7406, 2708 Indiana NE.

ROOM with kitchen privileges, \$35 per month. Dean, Alb. 6-2906.

NEW FOUR-ROOM HOUSE, north valley, near school and bus, partially furnished, \$65 per month. Marshall, Alb. 4-1020 after 6.

THREE BEDROOM HOME, den, 1 1/4 baths, double garage, Snow, fully improved, air-conditioned, \$110. Mook, 9817 Leyendecker Rd. NE, Alb. 6-8488.

WANTED—

NEW HIRE arriving June 28 wants to rent 2 or 3 bedroom unfurnished house near a school, heights area, consider lease. Westman, Alb. 5-6048.

TO BUY used camp trailer, must be reasonable. Colp, Alb. 6-8035.

RIDE from 5405 Summer Ave. NE (between LaVeta and Madeira) to Bldg. 887 or 880. Thelma Carpenter, Alb. 5-6925.

RIDE from Fifth and Lomas NW to Bldg. 800. Tony Adler, ext. 23137.

RIDE, riders or form car pool from Nob Hill area SE to Bldg. 802. Pearlston, Alb. 5-5235.

RIDE or join car pool from Coal and Yale to Bldg. 802. Tom Garcia, ext. 34139.

RIDE from 1224 Mary Ellen NE, Princess Jeanne Park, to vicinity Medical Bldg. Alburta Stevens, ext. 20238.

RIDE from vicinity Menaul Blvd. and Hoffman Drive (Inez Addn.) to Bldg. 880. Lucile Blake, Alb. 5-4963.

THREE RIDERS from vicinity 1000 NE to base (Corp.). Westmark, ext. 35233.

JOIN car pool vicinity 5804 Corrida Rd. NE (new Westphal-Davis Addn.) to Bldg. 802. Juan Doyen, Alb. 4-4367.

TARPAULIN, 10x12 ft. Ficke, Alb. 6-5618.

DRIVER to join car pool vicinity Rio Grande Blvd. NW between Ind. Sch. Rd. and Candelaria to Bldg. 880 parking lot. Walker, ext. 49163.

RIDE from vicinity Carlisle and Smith to Bldg. 892. Hake, ext. 25150.

RIDE from Cedar and Coal SE to Bldg. 800. Betty Lou Clinton, ext. 35237.

RIDERS or join car pool from vicinity 4400 block North 4th to vicinity Gates 3 or 4. Eden, ext. 25259, or Gustafson, Alb. 4-2404.

RIDERS WANTED from Atrisco Rd. and Bridge St. to Bldg. 840. Louis Chavez, Alb. 3-3037.

RIDERS to northeast Iowa or points enroute, leaving June 30, returning July 8. Lawrence, Alb. 5-8261.

RIDERS WANTED to southwest Minnesota, leaving July 14, returning July 30. Mrs. Nelson, 1215 Solano SE, ext. 29162.

UMBRELLA TENT, 9x9 or 9x11. Monk, ext. 37158.

TWO DRIVERS would like to join or start car pool vicinity Ind. Sch. Rd. and Rio Grande. Ness, Alb. 25714.

TO RENT 12- or 14-foot vacation trailer from June 24 to July 6. Willis, ext. 36137.

RIDERS from vicinity of Five Points Rd. through Bridge St., Broadway and Gibson to base. Gallegos, ext. 37137.

LOST—

IN BLDG. 802 parking lot, Base Cafeteria, or Bldg. 802, a silver and abalone shell bracelet. Margaret Sylvanus, ext. 33250.

★ Wind and Water Add to Vacation Perils, Excitement

Expediter Hank Holmberg went through tornado and flood to return to his job at Sandia Corporation after a recent family vacation in Texas and Arkansas.

Near Eden, Tex., he spotted several small tornados whipping across the prairie. The Holmberg family continued driving. As Hank says, "We decided it would be just as safe to go on as to stay put in that crazy weather."

Then in Brady, Tex., the roads were flooded, but they escaped by minutes the 22-foot rise in the stream which runs through the heart of town.

Hank reports no more untoward events on the trip.

Radio Club Meets

Ed Miller, manufacturer's representative for the Kittleson Company of Albuquerque, will address members of the Sandia Base Radio Club, June 13, at 8 p.m. His topic will be "Transistor Application in Low Power Transmitters."

The meeting will be in Bldg. T-364 on the Base. Meetings will be held regularly throughout the summer months, according to Lloyd Melick, president. The regular code class will precede the June meeting.

Refreshments will be served, and a 1955 Radio Amateur Handbook will be door prize.

Speaks at Institute

Jean Gillette, 3124, spoke recently to owners, managers and pharmacists attending sessions of a sales institute conducted under auspices of the Albuquerque Pharmaceutical Association at the University of New Mexico. Her subject was "Communications in Human Relations."



BOXER Charlie C. Carrejo of Belen fought his way into the All-Army boxing finals by winning the army's Far Eastern Light Welterweight championship in Yokohama, Japan, recently. Charlie is the son of Henry W. Carrejo, 2231, of Belen.

McKeever Continues To Top Tennis Ladder

Charlie McKeever, 1713, remained at the top of the tennis ladder this week, standing off challenges of Bob Betz, 6010, and Alan Pope, 5142.

In other ladder matches, Bob Betz defeated Ed Harley, 1710, and Alan Pope took a win over Tom Cook, 5111, to move into fifth place.

Top six ladder positions are held in order by Charlie McKeever, Willie Padilla, Art Graybill, Malcolm Bull, Alan Pope, and Tom Cook.

M. W. Fleck Speaks To AIEE Section

Members and guests of the Northern New Mexico section of the American Institute of Electrical Engineers will hear Martin W. Fleck of the University of New Mexico speak at 3:30 p.m., June 11.

Dr. Fleck's talk will follow a field trip and guided tour of the Algodones, N. M., power plant of the Plains Electric Generation and Transmission Co-operative, and installation of officers at the Albuquerque office, 915 Copper NE, at 2:30 p.m.

Members of the AIEE will make the tour without charge; guests will be assessed 75 cents each. Reservations may be obtained through Neith Pollard, ext. 35145.

Sandians Cited for Red Cross Activities

R. A. Quelle, 3122, Employee Services Division, and Mrs. Mary Kate Hopkins, wife of L. A. Hopkins, 1300, have received Awards of Merit for their parts in the Sandia Base Red Cross drive this year.

Their awards were presented recently by Eldon Parker, Red Cross Field Director for Sandia Base.

Mr. Quelle coordinated Red Cross activities of employees. Mrs. Hopkins planned and carried out the solicitation in the AEC Housing area on the Base.

Sandia Night at Tingley Field Set For Thursday, June 9

It'll be Sandia Night June 9th at Tingley Baseball Field, when the Dukes tangle with Lubbock.

All Sandia Corporation and Sandia Base personnel will be admitted free, paying only a 25 cent tax and service charge for admission.

Tickets for the free diamond clash will be made available to Sandia Corporation employees through the Employee Services office, and will be distributed by department managers within each organization.

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