

# Sandia Corporation Observing 20th Year of Savings Bonds with Payroll Deduction Drive

America marks the 20th anniversary of the Savings Bond program this month. Sandia Corporation will join with industry and government agencies in the observance by reminding every employee of the opportunity to purchase U. S. Savings Bonds through payroll deductions.

The payroll deduction method of purchasing savings bonds has proved a convenient and efficient way of saving for 954 employees, some of whom have been using the method for more than 10 years. Each month Sandians are buying \$20,000 in bonds, an annual total of \$250,800.

On Monday, an employee bulletin with a payroll deduction card attached will be distributed to all employees. For those desiring to enroll or increase their deduction

in the savings bond program, filling out the card is all that is necessary.

Employees at Livermore Laboratory should send their application cards to Accounting and Business Methods Division 8213. All other employees should send their cards direct to Payroll and Disbursements Auditing Division 4131.

Those who sign the cards will be joining with more than eight million other Americans who regularly invest in their own and America's future by purchasing U.S. Savings Bonds through payroll deduction.

In the 20 years that Americans have been buying bonds, features of the program have kept pace with America's progress. To name but a few of the attractive reasons for buying bonds, current Series E bonds have the following features:

- Guaranteed 3¾ per cent interest for 7 years and 9 months.
- Guaranteed 10-year extension at your option.
- No income tax until bond is cashed.
- Loss-proof—if stolen, lost or destroyed, the bond is replaced without charge.
- Just like cash — can be redeemed at nearest bank.
- Exempt from state or local income taxes.
- Safe as the United States of America.
- An investment in national security—a share in America.

As one Sandian who has been purchasing bonds through payroll deductions for years said, "It's a two-way investment in the future. I save for myself and for America."



DISPLAYING OVERSIZE BOND, Linda Shaifer (3126) reminds Sandia employees that U.S. Savings Bonds are an investment in the future security of the individual and the nation. Payroll deduction cards will be distributed to all employees next Monday.

## Albert Goodman to Receive PhD Degree at New Mexico

Albert Goodman (7223-3) will be awarded his PhD degree in nuclear physics during June commencement exercises at the University of New Mexico.

Previously he received his BS degree in physics in 1945 from the City College of New York. The following year he joined Los Alamos Scientific Laboratory to work in the water boiler reactor group.

In September 1949 Mr. Goodman transferred to Sandia Laboratory and at that time began study toward his MS degree in physics which he received from the University of New Mexico in 1955.

The following year Mr. Goodman completed his course work and examinations for his Doctor's degree. He left Sandia Corporation and returned to Los Alamos Scientific Laboratory to do experimental work and research for his thesis on "A Study of Metastable States of Bromine Nuclei." He finished this experimental work and the draft of his thesis a year ago



Mr. Goodman

and returned to Sandia.

At Sandia Laboratory Mr. Goodman has worked in Technical Writing, Business Methods, and in Electro-Mechanical Research.

## Helium Gun to Be Built by AEC for Sandia Lab Use

The Atomic Energy Commission has announced three construction projects of interest to Sandia Corporation. A new Helium Gun facility will be built adjacent to Bldg. 808. Shops Bldg. 840 will be remodeled. A rain system for the rocket sled track at Holloman Air Force Base will be installed.

Physical Research Department 5130 will use the new Helium Gun to study materials undergoing high impact. Frequently tested will be piezoelectric crystals which produce electrical charges when reduced by pressure.

The facility was designed by Sig Thunborg (5132). Bids will be opened about June 21, according to the AEC. Plant Engineering Department project engineer is M. B. Moore (4543).

Foundry and plating facilities of the Development Shops 4200 have been relocated in Bldg. 841. Space vacated in Bldg. 840 will be remodelled for other use. The Ceramic Shop, Section 4224-1, will be expanded. Electrical Assembly 4233-1 and Electrical Transformer Section 4233-2 will be moved into Bldg. 840 from Bldg. 844. Assembly Measurements Section 4232-2 will move into Bldg. 840 from Bldg. 855.

The project includes concrete work, installation of equipment, and construction of support facilities within Bldg. 840. Underwood

Testman Co. of Albuquerque submitted the apparent low bid of \$85,100 for the project. Work is to be completed within 120 days after the contractor receives notice to proceed from the AEC.

Mr. Moore is Plant Engineering project engineer for this job, too.

Bids will be invited about June 6 for the construction of a rain system over a portion of the Holloman track. The system will be used by Sandia's Environmental and Field Testing organizations. The work will include installation of water lines, construction of a pump house, 20,000 gallon storage tank, relocation of some equipment and other improvements.

Bids will be opened about June 27, according to the AEC. Work is to be completed within 60 days after the notice to proceed. E. L. Drake (4543) is Plant Engineering project engineer. The rain system was designed by Marcel Reynolds of Facility Planning Section 7311-1.

### Earns Certificate

Tim Raftery (7243) has completed the correspondence course "The Economics of National Security," offered by the Industrial College of the Armed Forces, and has received a certificate signed by the Commandant of the College.

# Sandia Corporation LAB NEWS

ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

VOL. 13, NO. 11

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

MAY 26, 1961

## Mississippi Mule Pulls Mired AEC Test Out of Mud of South's Swamps

Seismic studies into the detection of underground nuclear detonations met a bottleneck—in the form of seemingly bottomless mud—during recent drilling operations in the Mississippi swamplands. The faithful mule came to the rescue.

Sandian Neil Hansen reported the episode from Hattiesburg, Miss., where he was on loan to AEC-ALO as Operations Coordinator for "Dribble Project." Joe Heaston, on loan from Sandia to the AEC area office in Las Vegas, was also there for a short assignment last month.

Dribble Project, part of Vela Uniform Program, includes drilling a number of holes in and near the Tatum salt dome, about 30 miles southwest of Hattiesburg, for exploratory purposes. Plans also are being prepared for hollowing out two large spherical cavities in the salt dome, about 2500 ft.

underground, in which nuclear devices could be detonated if this phase of the program is authorized.

In attempting to drill some smaller holes, the contractor met considerable resistance from the swamp. Four or five men were needed to handle a rig, trucks were frequently stuck in the mud and had to be winched out, and numerous trees were damaged.

Finally a call went out for a mule skinner and mule. A small rig, including motor and platform, was welded onto a toboggan plate which served as a skid. A husky 11-year-old mule dragged the 500 lb. sled through the marsh. Every 100 feet the mule would stop to rest, then continue plodding along, often in water up to its stomach. The drill was at location quickly and only one field crewman had

to accompany the mule skinner.

Neil reported that roads were hard to maintain in other parts of the marshland due to washouts and frequent use by heavy trucks. That problem was solved by constructing a plank road a mile long in one section and a quarter of a mile long in another area.

Fortunately AEC and contractor personnel stay in Hattiesburg (population 35,000) so there's no problem of leaky tents or molded food.

### Elected Officer

Dean E. Irvin was elected treasurer of the Albuquerque Chapter of the National Office Management Association last week. Dean also represented the local chapter as a delegate to the national conference held in St. Louis, Mo., earlier in May.



OLD FASHIONED MULE POWER proved to be the only feasible method of transporting a small drill rig through the swampland of Mississippi. The holes are being drilled in the Tatum salt dome.

**Editorial Comment****Savings Bonds — 20 Years Old**

Unlike many things we buy these days, United States Savings Bonds get better with age. Here's how: If you put aside 63 cents a day for bonds by payroll deduction, in 40 months you have \$750 saved and you have a U. S. Savings Bond worth \$1,000 when it matures in seven years and nine months. You have earned 3¾ per cent interest.

May is an anniversary month for U. S. Savings Bonds — It was May 1, 1941, that President Roosevelt bought the first United States Defense Bond. Their successors today are called Savings Bonds. These bonds work as hard today to keep the peace as their forerunners, the Defense Bonds, worked to win a victory.

Sandia Corporation joins with business and industry throughout the nation in encouraging employees to make use of the payroll deduction plan to buy bonds. Now is the time to increase your deduction or to start saving through the payroll deduction plan. Sandia's Savings Bond Drive starts May 29—join the Payroll Savings Plan.

You buy more than a good return when you buy Savings Bonds. You buy shares in a stronger America.

**The \$25,000 Secret**

Charles Schwab, one of the first presidents of Bethlehem Steel Co., once told efficiency expert Ivy Lee: "If you can give us something to pep us up to do the things we know we ought to do, I'll gladly pay you anything within reason you ask."

"Fine," answered Lee. "I can give you something in 20 minutes that will step up your 'doing' by at least 20 per cent."

"Okay," said Schwab. "Let's have it."

Lee handed Schwab a blank sheet of paper and said: "Write down the six most important tasks you have to do tomorrow and number them in the order of their importance. Now, put this paper in your pocket and the first thing tomorrow morning look at item one and start working on it until it is finished. Then tackle item two in the same way; then item three and so on. Do this until quitting time."

"Don't be concerned if you have only finished one or two. You'll be working on the most important ones. The others can wait. If you can't finish them all by this method, you couldn't have with any other method either; and without some system, you'd probably not even have decided which was the most important."

"Do this every working day. After you've convinced yourself of the value of this system, have your men try it. Try it as long as you wish and then send me a check for what you think it is worth."

A few weeks later Schwab sent Lee a check for \$25,000 with a letter saying the lesson was the most profitable he had ever learned. In five years, this plan was largely responsible for turning the unknown Bethlehem Steel Co. into the biggest independent steel producer in the world. And it helped to make Charles Schwab 100 million dollars and the best-known steel man in the world.

What worked for Schwab can work for you. Try it! It may revolutionize your life.

(This article by Ted Pollock in Telephony has attracted considerable attention. The Lab News feels it should be of interest to readers at Sandia, too.)

**Letha Stewart Elected**

Letha Stewart, secretary at Sandia Corporation's site at Cape Canaveral, Fla., was recently elected president of the Cocoa Beach Chapter of the National Secretaries Association.

She will be installed as president at a dinner meeting on June 7.



Judy Crider (8212-5)

**Take a Memo, Please**

Good safety habits are not inherited; they are acquired.

**Former Kansans Planning Sunflower State Reunion**

Former residents of the Sunflower State are invited to attend the Kansas Picnic Association's annual picnic, Sunday, June 25, at Bataan Park.

Max Holroyd (4132) is in charge of arrangements this year for the picnic which has been held for the past 25 years. In 1960 the former Kansans attending the picnic numbered 200 and even more are expected this year.

The get-together will start at 1 p.m. and includes a pot luck meal, recreation for children, and a brief formal program. H. E. Lenander, Director of Systems Development 7100, who is a Kansas native son, will be the main speaker.

Bataan Park is located between Tulane and Amherst Drs., on Lomas NE.

**Sympathy**

To Robert F. Gentzler (7243-1) for the death of his father on May 7.

To Joe A. Sanchez (4514-1) for the death of his brother May 8 while visiting Albuquerque.

To H. A. Warrick (7322) for the death of his mother in Colfax, Iowa, May 9.

To John Callahan (2643-2) for the death of his mother in Indianapolis, Ind., May 2.

To Maxwell F. Wilson (5431) for the death of his brother in San Antonio, Tex., May 10.

To Carl Klecotka (4152) for the death of his brother in Holyoke, Mass., May 13.



PREVIEWING the Coronado Club's twin swimming pools is Barbara Hoeke (3126/7523). Swimming season at the Club begins tomorrow morning at 10. Season tickets, \$5 for adult member, are on sale at the Club office now. Children under six admitted free.

**Weddings**

Lois Knudson (8212-5) and Gerry Strandin (8126-1) repeated wedding vows in an afternoon ceremony held Sunday, May 7, in Livermore. Lois has been with Livermore Laboratory since July 1959; Gerry has been with Sandia since June 1959. The couple will reside in Pleasanton.

A candlelight wedding ceremony united Carolyn Crocker (8165-1) and Lester Viel Saturday, April



Mr. and Mrs. Lester Viel

22, in Hayward, Calif. Carolyn has been with Livermore Laboratory since August 1960. After a honeymoon in Las Vegas, Nev., the couple is residing at 20668 Forest Ave. in Castro Valley.

Karen Wilson (8116-1) was married to Cedric James (8232-2) in a home ceremony in Livermore April 29. Karen has been with Livermore Laboratory since February 1960; "Ced" has been with Sandia since April 1959. The couple is living at 1753 Park St. in Livermore.

**'Southpaw' Golfers Meet**

Left-handed golfers are invited to attend a picnic at Doc Long's park on Sunday, June 4, starting at 2 p.m. Plans will be made at this time for the first local left-handed golf tournament.

During State Fair time, a statewide tournament will be held for lefties. At present there are 76 persons in New Mexico on the left-handed mailing list. For further information contact Dolores Smith (4233), AM 8-0260.

**Historic Firearms To Be Displayed at Summer Gun Show**

Many Sandians will be among those exhibiting at the New Mexico Gun Collectors Association summer show June 3 and 4 at Western Skies Hotel.

Gun collectors from most of the Western states will participate in buying, selling, and trading firearms. More than 100 tables will be covered with displays of historic firearms, with awards presented for the best exhibits.

The show will be open to the public from 9 a.m. to 9 p.m. Admission charge is 50 cents.

Sandians interested in participating are invited to contact Dick Zaluga (1323).

**Congratulations****Born to:**

Mr. and Mrs. C. E. McCarty (1431) a daughter, Karry Ann, on May 8.

Mr. and Mrs. James W. Langenhorst (1411) a son, Joseph William, on May 14.

Mr. and Mrs. J. A. Kersey (8123-1) a son, James Randall, on April 30. Carolyn Kersey is on leave from 8231-2.

Mr. and Mrs. W. D. Reske (8125-1) a daughter, Merilee, on May 1.

Mr. and Mrs. Jack England, a son, Timothy, on May 10. Jack is one leave from 8233-1.

Mr. and Mrs. R. T. Baff (5134-1) a daughter, Rosemary Ann, on May 12.

**Engineers Invited To Dinner Honoring Graduating Class**

Graduating seniors at the Engineering College, University of New Mexico, will be honored at a dinner meeting of the Albuquerque Chapter of the National Society of Professional Engineers.

The meeting will be held on May 29 at the American Legion Hall, Lomas and Mountain Rd. NE. A get-acquainted hour will start at 6:30 p.m., followed by dinner at 7:30.

Guest speaker is J. Neils Thompson, director of Balcones Research Center, University of Texas. His topic is "Your Professional Profile."

A faculty member for 22 years, Mr. Thompson has also directed a number of research programs for Sandia Corporation. He is national chairman of the NSPE Student Professional Development Program and is a National Director of Area 2.

Mr. Thompson is known throughout the U.S. for his promotion of professional development, with particular emphasis on young engineers.

All engineers are invited to attend the dinner meeting. For further information and reservations (\$2.50 per person), contact Walter Scott (7184), ext. 28253, by May 26.

**Wild West Touches Ex-Easterners With Non-Gentle Hand**

When Bob Gall (3431) arrived in Albuquerque several months ago he expected a different atmosphere from what he knew in Pittsburgh and New York.

He's found it!

The Galls purchased a model home at one of Albuquerque's newest development areas and are the only residents so far. The first two nights there was no gas connected so Bob got up frequently to throw another log in the fireplace. A butane gas tank has been put in as a temporary measure until the gas line is extended through the area.

Another day Mrs. Gall had to prepare dinner on the fireplace when their electricity generator went on the blink. The generator, too, is a temporary measure.

They still are without telephone service, but report the breadman and milk delivery man have found their house.

Then last Sunday came the crowning blow. While Bob and his wife were taking their three boxers on an early morning stroll across the mesa, one of the dogs was bitten by a rattlesnake. While driving the dog to a veterinary Bob made use of a snake bite kit. His quick action apparently saved the animal's life.

After leaving the dog at the vet's, the pioneering Galls returned to the mesa to kill the snake. It measured nearly three feet long.

**Arabian Horse Show**

An all-Arabian horse show will be held at Bosque Farms in the south valley on Sunday, June 4. The public is invited to attend this free event, which is sponsored by the Arabian Horse Association of New Mexico. For further information contact W. R. Lincoln (4511-2).

Sandia Corporation  
**LAB NEWS**  
ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

Office of Publication: Bldg. 829, Employee Publications Division 3432, Sandia Laboratory, Albuquerque. Editor: Robert S. Gillespie. Associate Editor: Don E. Graham. Albuquerque staff: Cherry Lou Burns and June Leonard. Livermore staff: Richard A. Dickson and Robert J. Harks.

Permission to reprint material contained herein for other than governmental use, may be obtained from the Editor, Lab News, Sandia Corporation



Telephone Sandia Base  
Alpine 6-4411  
Ext. 25253, 26135



Deadline  
Friday noon of week  
prior to publication



Member Association Nuclear Editors, Border Council of Industrial Editors and affiliated with International Council of Industrial Editors.

# Valuable Pennies Being Found by Coin Collectors at Livermore Laboratory

Recent San Francisco newspaper accounts have created a rash of coin collecting among Livermore Laboratory employees. The articles concerned a Bay Area resident who found his second 1943 copper cent . . . reportedly worth \$10,000.

"While the 1943 copper penny is by far the most outstanding, many other pennies are worth far more than face value," said Bob Harks (8233-1), an avid numismatist. "For instance," said Bob, "I have a 1931-S cent I found four years ago that's now worth about \$15."

An "S" below the date on a penny means it was minted in San Francisco and a "D" means the Denver mint. Coins without letters are from the Philadelphia mint.

## \$30 Penny

Bill Little (8122), another coin collector, said the most valuable penny he found was a 1914-D he got in change. "It's worth about \$30," said Bill. "I have it in my collection now, leaving me with only five more dates to complete my set." A complete Lincoln set consists of 147 pennies, including the 1961 coins and all other regular issues since they began in 1909.

Sue Matthews (8234-3), who collects pennies for her young son, said the boy looked through two rolls of pennies he got at the bank the other day and found a 1915-S worth \$7.50.

"The scarcer the coin, the more valuable it is," said Bob. "The 1943 copper cent is extremely scarce because it was a 'mint error,' a faulty coin that slipped out into circulation past the watchful eyes of inspectors. No copper pennies were officially minted in 1943 due to a metal shortage. Instead, the U.S. Treasury issued steel pennies. However, seven genuine 1943 copper cents have been found."

Conversely, no steel pennies were coined in 1944, according to Bob, although a few of these mint errors have turned up which are valued at more than \$1600 each.

## Mint Error

In 1955 a mint error occurred at the Philadelphia mint known as the "double strike." On this coin the entire portrait of Lincoln and the lettering appear in a double



**PIGGY BANKS** are a good source for finding scarce pennies worth up to \$10,000 apiece. Here Gary Drummond (8234-1) employs technique used by most coin collectors for scanning the dates.

image, one right next to the other. Most of these pennies sell for \$50 or more apiece.

Last year another mint error occurred, Bob said. Both the Denver and Philadelphia mints came out with a large date and a small date penny. Although these are considered to be more of a "variety" than a mint error, the uncirculated 1960 Philadelphia small date pennies are selling for \$3 each and the Denver pennies for 75 cents each.

The two scarcest dates of regular issue are the 1909-S with the designer's initials "VDB" on the back, which is worth from \$48 to \$120, and the 1914-D, which can bring from \$30 to \$275. Following close behind them are the 1909-S without the initials, from \$9.50 to \$40, and the 1931-S, from \$12 to \$26.

"The condition of the coin also helps to determine its value," Bob said. "Top valued coins are uncirculated in mint condition, brand new and right from the bank."

## Check Piggy Banks

The average person's chances of finding scarce dates are as good as anyone else's. Some of the best sources for rarities are piggy banks, boxes of pennies in bureau

drawers, or jars of pennies that have been shelved for a long time, according to Bob.

Other Livermore Laboratory coin collectors include Gary Drummond and Arnold Lamb (8234-1), Jim Gruver (8114-1), Roy Adams and Jim Dremalas (8114-2), Mickey Rindone and Don Baumann (8114-3), Ralph Craig (8114-4), Virginia Epps (8213-1), Bill Williams (8222-1), Ken Byrne (8155-2), Carl Wackerly (8232-2), Dave Edwards (8232-4), Howard Reed, Giles Reed and Dick Nepple (8164-1), Phil Mead, Joe Zanetti and Dick Dickson (8233-1).

## Two Sandians Take Part in Albuquerque Playhouse Production

Billy May (3452) and Margaret Reese (3321-1) will both participate in the forthcoming Albuquerque Playhouse production of "Outward Bound," a shipboard drama.

Margaret will play the role of Mrs. Banks and Billy will be stage manager for the play.

This will be the third production of the Playhouse, which is located at 201 Dallas NE. "Outward Bound" will open May 27 at 8:30 p.m. and will be presented through the month of June on week-ends.

## Weekend Luxury

Al Rakoczy (7146) and his wife enjoyed a week-end at an Albuquerque resort hotel, plus receiving a gift certificate, as a result of a Mother's Day promotion stunt.

Mrs. Rakoczy won the Winrock Center Mother of the Year competition.

A paid sitter for the Rakoczy children during their parent's week-end vacation was included in the deal.

## Blood Relatives?

In their times of urgent need these Livermore Laboratory employees received free blood from the Sandia Blood Bank; blood freely given by their fellow workers.

Let's make sure that the Blood Bank supply is adequate for next year's needs. Send in your pledge now; the Bloodmobile unit will be at LRL Cafeteria Friday, June 2.



**RELATED BY BLOOD** is the theme of this Livermore Laboratory Blood Bank poster created by Ben Aikin (8233-3). These seven employees were aided by blood from the bank during 1960-61. From top left they are John Manrow (8223-1), Sarah Thomsen (8232-1), Ben Guerin (8161-2), Jack England (8233-1), Virginia Epps (8213-1), Ella Doris Ward (8213-3), and Milan Lettrich (8211-3).

## Supply is low—

# 'We Just Never Know' When to Expect Run on Livermore Lab Blood Bank

It was a sunny afternoon as Sarah Thomsen (8232-1) drove home from Livermore Laboratory, anxious to see the neighborhood movie that night. Fifteen minutes later her car was demolished. She lay on the highway, unconscious and bleeding.

A speeding car had smashed into Sarah's car from behind as she waited for an opening in the free-way traffic. Severe head injuries required two operations and transfusions of four pints of blood. The blood was supplied free from the Sandia Blood Bank. Five months later Sarah was back at work.

"We just never know when anything like this will happen to any of us," said Sarah. "But it was a wonderful thing to have the blood bank available. I'm very grateful to everyone who helped."

Sarah is one of the 17 Livermore Laboratory employees who received free blood from the Sandia Blood Bank during 1960-61 for themselves or their families.

Blood from the bank is credited with saving the life of five-year-

old Christine Bainter, daughter of Daren Bainter (8232-2). Christine underwent heart surgery last year and was given 19 pints during her illness.

With the blood bank's supply down to seven pints, a new campaign is underway at the Laboratory to build up the reserves. Donors have been recruited for the past two weeks and may sign up until June 1 by calling Employee Services at Ext. 2254. A Bloodmobile will be at the LRL cafeteria June 2 to accept donations.

Other Sandians who are now "blood relations" with their fellow workers include John Manrow (8223-1), Ben Guerin (8161-2), Virginia Epps (8213-1), Jack England (8233-1), Milan Lettrich (8211-3), and Ella Doris Ward (8213-3).

Those whose dependents were given a share in the bank's blood were Sharon Watson (8212-1), M. T. Ferrario (8114-5), R. E. Crow (8241-3), Audie Cowan (8222-1), W. O. Clark (8165-2), Carlos Laguer (8123-1), and William Alm (8114-2).



**ARMED FORCES DAY** preparations included hanging large orange and white parachute from roof of Kirtland Air Force Base hangar. Here John Leslie (3431-2), in charge of Sandia's display, gives directions. Parachute was part of Mercury space capsule display.



**SANDIA'S** Armed Forces display also included Nike-Cajun Sounding Rocket, a rocket sled, and Jupiter nose cone. Marv Sektan (3431-2) above places sign at rocket exhibit. Crowds streamed through

the display area at KAFB throughout the exhibit time. Many saw Sandia's movie of drop tests of the space capsule. Show was a combined Sandia Corporation, Sandia Base, KAFB, and AEC effort.



SANDIA STUDENT IN BASIC RUSSIAN course is shown writing answer in one of the 2000 frames which comprise the Programmed Self Instruction method of learning this difficult language.

### Progress report—

## Russian Language Students Doing Well in Noon Class

Effectiveness of the Programmed Self Instruction (PSI) method in teaching is demonstrated by the progress of Sandia Lab students in Basic Russian after 16 weeks of noon-hour study.

The pilot class initially met twice a week, but after the first month the students voted to meet three times a week. During this noon-hour period they studied from the textbook at their own pace and received supplemental instruction in pronunciation from E. P. "Pat" Quigley (2564-1). The employee-students were urged to do all their studying during these sessions; there was no assigned homework. The course was offered by Technical and Trades Training Division 3132 as part of the out-of-hours educational program.

At the end of the course the students knew about 100 everyday words. They could conjugate verbs in present, past and future tenses, recognize genders of adjectives and nouns, and count to 50.

Their final exam was in the form of a written conversation. Pat, who composed the test, said, "It made sense but certainly wouldn't win any Pulitzer Prize for plot." The test conversation ran: "Good morning, friend. How are you? Fine, thanks, and you? ... What is your name? ... Where are you going? I'm going to school ... Do you know how to speak Russian? ... Where is the hotel? I think it is here," etc. "Nyet" is

among the useful words already mastered.

Only 10 per cent of the original class dropped out, leaving 38 active participants. The textbook, which was prepared through consultation with Marcel Weinreich (3421), Sandia translator and linguist, contains about 200 frames in which words or phrases must be written by the student. Most students are able to breeze through 100 frames of the text in a 40 minute session — and still retain at least 75 per cent of the subject matter. Frequent reviews of words and grammar learned earlier help make this possible.

One Sandian finished the textbook in seven weeks, but Pat points out, "The object is not to finish the course within a certain time, but to learn the language."

Pat Quigley's background in Russian includes two years of grammar study at Cleveland College, three years of conversational Russian at the Berlitz language school in Cleveland, and two years of Scientific and Technical Russian, offered by Sandia's out-of-hours study program and instructed by Marcel.

In the fall class members may continue their study of Russian through conventional teaching methods in classes similar to those that have been offered at Sandia for the past four years. Another beginning class in Russian will be offered through Programmed Self Instruction.

## Tax Suit Committee Donates Funds To Local United Community Fund

A check for \$414.80 has been presented to the Albuquerque United Community Fund by the Tax Suit Committee at Sandia. This amount represents the balance in the group's treasury when the purpose of the Committee was achieved.

The Committee was organized in 1956. It represented approximately 400 Sandia employees who, as a result of an Internal Revenue Tax Ruling, 55-140, were liable for tax payments on reimbursement of travel and moving expenses paid them by Sandia Corporation when they accepted employment with the Corporation.

Gene C. Newlin (6011), chairman of the Committee, said, "The 400 employees decided to retain counsel and take legal action." The Committee calculated that litigation would cost each member \$6. The \$414.80 represents the money left over from this fund after pay-

ment of litigation and the expenses of relating information to the members.

S. O. Woodall (4422) and G. S. Mills (2441) were selected as test cases. Suit was brought in the District Court of the United States for the District of New Mexico, and a decision was given in favor of the plaintiffs.

This decision was reversed upon appeal by the United States in the Tenth Circuit Court of Appeals in Denver, Colo. The Circuit Court stated that what should be allowed as an expense deduction was a matter of policy for the Congress and not for the Courts.

With this decision, Senator Clinton P. Anderson (D-NM) introduced a bill in the 86th Congress to obtain relief for those employees who paid tax on travel reimbursement for the years 1953-1955. This bill was enacted into law Sept. 14, 1960.



CHECK FOR \$414 was presented to the Albuquerque United Community Fund by the Tax Suit Committee last week: (L to R) G. C. Newlin (6011), committee chairman, S. O. Woodall (4422), treasurer, and W. R. Rosenberg (4360), Employees Contribution Plan chairman who accepted check in behalf of United Fund.

## Steaks-to-Order Ready Tomorrow for Coronado Club Members, Families

Steaks cooked to order will be served to Coronado Club members and their guests at the Patio Steak Fry tomorrow night, May 27, from 6 to 8 p.m.

Attendees may select either 12 oz. New York cuts, 14 oz. T-Bones, or eight oz. Filets. Also available on a self-service basis will be baked potatoes with sour cream and chives, salads, and coffee or iced tea.

Dancing will be from 9 to 1 to the music of Eddie Chavez' orchestra. Tickets may be picked up at the club office tonight, or purchased at the door. They cost \$3.95 for members, \$4.95 for guests.

Family Night movie on Sunday, May 28, will be "The Milkman." Free cokes and popcorn will be served during the show which starts at 6 p.m.

George Davies' group will provide a musical interlude tonight from 5 to 8. The \$1.75 buffet will be served on the patio from 6 to 7:30 p.m. Next Friday night Tommy Kelly's combo will entertain. Social hour on both nights is from 4:45 to 6:15.

George Davies' group will provide a musical interlude tonight from 5 to 8. The \$1.75 buffet will be served on the patio from 6 to 7:30 p.m. Next Friday night Tommy Kelly's combo will entertain. Social hour on both nights is from 4:45 to 6:15.

## A. I. Montoya to Retire from Sandia At End of May

Alfredo I. Montoya, a tool crib attendant in Stock and Material Control Division 4212, will retire



Mr. Montoya

May 31 after nearly 10 years at Sandia.

Mr. Montoya plans to remain in Albuquerque, where he and his wife live at 507 Sacramento NW. Their nine children — all married — live in Albuquerque, Cuba (N. Mex.), and Kansas.

During the summer Mr. Montoya will rest in the mountains and hunt and fish. In the fall he intends to take a course in Real Estate, offered by the University of New Mexico Community College, and perhaps some other classwork.

## Safety Belts Again Go on Sale at Livermore Lab

Auto seat belts are being made available at cost to employees at Livermore Laboratory for the second time this year. Both programs have been arranged by Health and Safety Section 8241-3.

Orders will be taken through June 2, and belts will be installed June 12. Orders for the belts, the same type used by the California Highway Patrol, may be submitted to the Safety office.

Findings of scientific investigations by Cornell University and the University of California at Los Angeles show that seat belts are the most effective single accessory item available in reducing traffic injuries and deaths.

The Cornell studies show 60 per cent less likelihood of injury of any sort with seat belts, and 50 per cent reduction in fatalities. A 25 per cent reduction in traffic fatalities alone would be possible by keeping the driver behind the wheel, and in control of the vehicle during an accident, according to the studies.

## Don Lucas Retires May 31 After 10 Years at Sandia

D. M. Lucas, Buyer, Mechanical (4361-4), will retire May 31 after 10 years at Sandia.

He was first assigned in Business Methods Department, then after a short time transferred to the Purchasing organization where he has been a sub-contract, commercial contract, and commercial (mechanical) buyer.

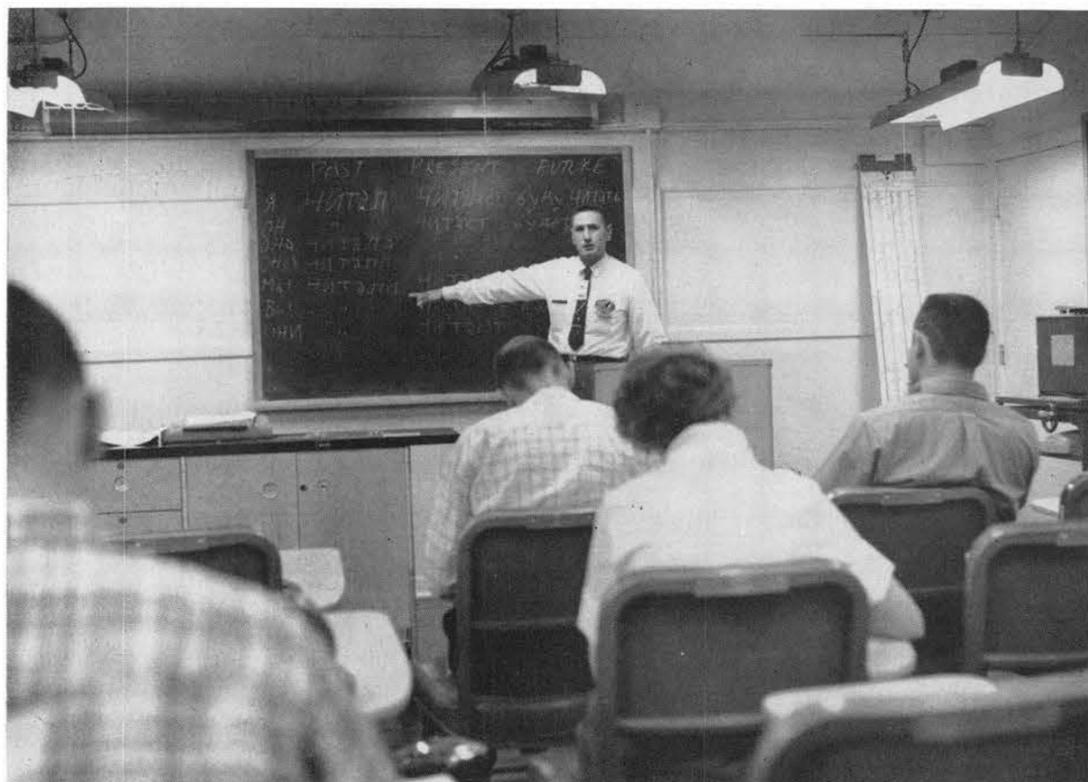
Prior to joining Sandia Mr. Lucas had been in comparable type work at Chrysler Corporation in Detroit.

His plans are indefinite, but as his work has been his only hobby, Mr. Lucas intends to remain active in business after a summer vacation. His home address is 211 Chula Vista Pl. NE.



## Promotions

H. M. Checchio (4233) to Coil Maker  
 Mayme M. Brunacini (4233) to Wireman  
 Joseph E. Sul (4231) to Technician  
 Alice D. Warder (3421) to Library Assistant  
 L. Charlene Scott (4135) to Invoice Clerk  
 Gloria M. Gonzales (4135) to Invoice Clerk  
 Alma A. Mischke (4152) to Accounting Clerk  
 Frank E. Chavez (4152) to Accounting Clerk  
 Robert T. Tuffnell (4152) to Accountant  
 Dwayne L. Mohrman (8223) to Technician  
 R. D. Wilkinson (7536) to Technical Assistant  
 M. J. L. Gallegos, Jr. (2341) to Staff Assistant  
 Roy W. Hunter (4151) to Staff Member  
 Charles L. Ray (4152) to Staff Member  
 Carl J. Kleckoika (4152) to Staff Member  
 Wendell A. Nelson (4152) to Staff Member  
 Franklin I. Martin (6021) to Staff Associate  
 Richard L. Chapman (6021) to Staff Associate  
 George H. Lester (4514) to Boiler Plant Operator  
 Gloria M. Vetter (3126) to Secretarial Typist  
 Emilia Perea (3126) to Secretarial Typist  
 Hortensia Sandoval (3126) to Secretarial Typist  
 Roberta J. Wellborn (3126) to Secretarial Steno.  
 Gail J. Konen (3126) to Secretarial Steno.  
 Betty J. Ridinger (3421) to Library Assistant  
 Irene L. Bushmire (3461) to Tab. Equipment Operator  
 Benny M. Garcia (4611) to Control Analyst  
 Leon B. Strauch (2642) to Order Analyst  
 George W. Henfling (2642) to Order Analyst  
 Carol J. Bennett (8232) to Document Clerk  
 Joanne L. Airone (8233) to Library Assistant  
 Joyce M. Doyal (8212) to Secretary  
 Freddie A. Bartel (7536) to Quality Assurance Inspector  
 Marcus G. Martinez (4614) to Utility Operator  
 Lawrence A. Kent (4234) to Technician  
 Lewis S. Brownlow (4252) to Machinist  
 Marie H. Syme (1300) to Secretary  
 M. Elizabeth White (4152) to Accounting Clerk  
 Dean W. Davis (4152) to Accountant  
 Patrick J. O'Shea (8225) to Stockkeeper  
 Patricia A. Tarp (8225) to Record Clerk  
 Dorothy M. Lee (2644) to Record Clerk  
 David E. Salas, Jr. (7243) to Computer Facility Operator  
 William L. Bierly (7212) to Staff Assistant  
 Alex Padilla (7312) to Staff Assistant  
 E. A. Postenrieder (3466) to Staff Assistant  
 Kenneth R. Smith (4132) to Tab. Equipment Operator  
 Frances A. Schroer (4423) to Typist  
 Janet H. Johnson (3421) to Library Assistant  
 Martha A. Bullock (7321) to Data Reduction Clerk  
 Avelina G. Dubois (4423) to Service Clerk  
 Agnes F. Birosak (4423) to Service Clerk  
 R. R. Grandstaff (4423) to Service Clerk  
 Helen M. Pipher (7321) to Data Reduction Clerk  
 Pedro A. Martinez (2642) to Property Clerk  
 John C. Abeyta (2642) to Property Clerk  
 Manuel G. Chavez (4151) to Accounting Clerk  
 Jerry Olguin, Jr. (2641) to Order Analyst  
 L. J. Underwood (2341) to Service Coordinator  
 Mary C. Tegard (1310) to Secretary  
**Supervisory Lateral Transfers**  
 F. A. Zack, MD, from 3330 to 3320  
 S. B. Over, MD, from 3320 to 3330  
 J. D. Shreve, Jr., from 5111 to 5112  
 B. F. Murphy from 5112 to 5132  
 L. B. Hobbs from 2542-1 to 1411-3  
 D. W. Arquette from 2542-2 to 1423-3



VERB CONJUGATION is explained by Pat Quigley (2564-1) to noon hour Basic Russian class. He supplements Programmed Self Instruction textbook, which students study in class at their own pace.

# High-Speed Cameras Slow Bullet Trajectory Down to Snail's Pace

A rifle bullet can travel 600 feet in a quarter of a second. If a high-speed camera records this flight and the film is projected at normal speed, a viewer can watch the bullet travel its 600 feet for eight minutes.

High-speed cameras are used by Technical Photography Division 7244 to provide optical measurements for Sandia Laboratory's research and development organizations. Livermore Laboratory's requirements are handled by Instrumentation Services Section 8123-3.

To obtain this high-speed scientific data, photographers use a variety of cameras. Some are commercially made; others are modified or built by the photographers themselves for special adaptations.

About 75 per cent of the work is done with high speed rotating prism type motion picture cameras. Film sizes range from 8mm to 9½ inches wide, and the film must be especially perforated for the sprockets. More than half of the work is shot in color.

"The photographer's assignment is different every time, and usually there are no written procedures to follow," says H. G. "Hank" Sweeney, supervisor of Section 7244-1.

### Timer Vibrations

An electrical engineer wanted to know whether vibration would affect the accuracy of a cogwheel in a timer undergoing development. Taking 16,000 pictures a second of the one-fourth-inch mechanism, the film showed that occasionally the escapement wheel bounced when the pawl gear engaged the notches of the wheel, and this slowed down the action of the timer.

Another engineer wanted to find out if a test vehicle on the rocket sled track in Area III could meet performance requirements and still function properly. Several days before the test, men in Division 7244 began setting up cameras along and at the impact end of the track. By firing time, 16 cameras were staring at the track, ready to visually record all test phenomena.

Both men observed the performance of their "gadgets" in slow motion. They determined weak points, reasons for malfunctions, and then used this information in further work.

### In Environmental Testing

Photographers also set up cam-

eras at Sandia's environmental testing facilities to gather data. For instance, at the drop tower, impact effects are studied; at the centrifuge, acceleration information is obtained; and at the gun site, velocity of the device being tested and its condition as it bursts out of the gun are recorded.

In addition, motion pictures are used for high explosive cratering and earth motion studies. When nuclear tests were conducted at Nevada Test Site and Pacific Proving Ground, pictures were taken of fireball and blast cloud growth, and data were obtained for weapon effects tests and fall-out studies.

Livermore Laboratory instrumentation photographers have filmed recent high-explosive tests at the Nevada Test Site and air drops of test vehicles at the Naval Ordnance Test Station at San Clemente Island, Calif.

Explosive and environmental tests on air gun and blast facilities have been filmed at Livermore Laboratory's area 8; more conventional tests are film recorded in the Laboratory's Environmental Test Building.

"On these tests, instrumentation photographers seldom have the luxury of a 'second take' as do motion picture and still photographers," says Hugh Odell, supervisor of Section 8123-3. "Tests may take weeks to repeat, or are unrepeatable. The photographers must produce positive results the first time."

Hugh also pointed out that instrumentation photographers frequently work with illumination levels far beyond the range of exposure meters, or with luminous objects of great intensity, such as a high explosive detonation. Photographers must be familiar with these phenomena to determine proper exposure.

"Many every day problems which would otherwise require additional time and money can be solved simply and conclusively with ordinary photographic techniques," Hugh said.

One example of how instrumentation photography solved an industrial problem was demonstrated recently at Livermore Laboratory when a malfunction developed in a reproduction machine.

The microfilm feed mechanism on the machine was faulty, causing the microfilm cards to overlap

and produce a double image. Val Peterson, supervisor of the Ozalid Section (8232-3), thought the machine was at fault, but factory representatives blamed the cards.

To solve the problem, Val called in Paul Van Dyke, instrumentation photographer in 8123-3, who took high speed motion pictures of the card feeding mechanism in operation. Paul shot 100 feet of film at 400 frames per second to record the action in slow motion. Because the feeder mechanism was inaccessible to the camera, Paul used a mirror to reflect the image and provide sufficient light.

Paul's film convinced factory representatives that the machine was at fault and they modified it to work properly.

Both qualitative and quantitative information is provided by the cameras. Qualitative data are concerned with such things as test vehicle performance and malfunctions, while quantitative data provide measurements of velocity, acceleration, trajectory, and angles of impact.

"Industrial photographers have to be more than experienced photographers," Hank Sweeney points out. They have to know how to use the equipment which controls the cameras, and be able to modify or build cameras for special adaptations.

Photographers must have a knowledge of mathematics and surveying techniques to determine camera angles and position. And, of course, they have to be very familiar with darkroom procedures.

### Remotely Controlled

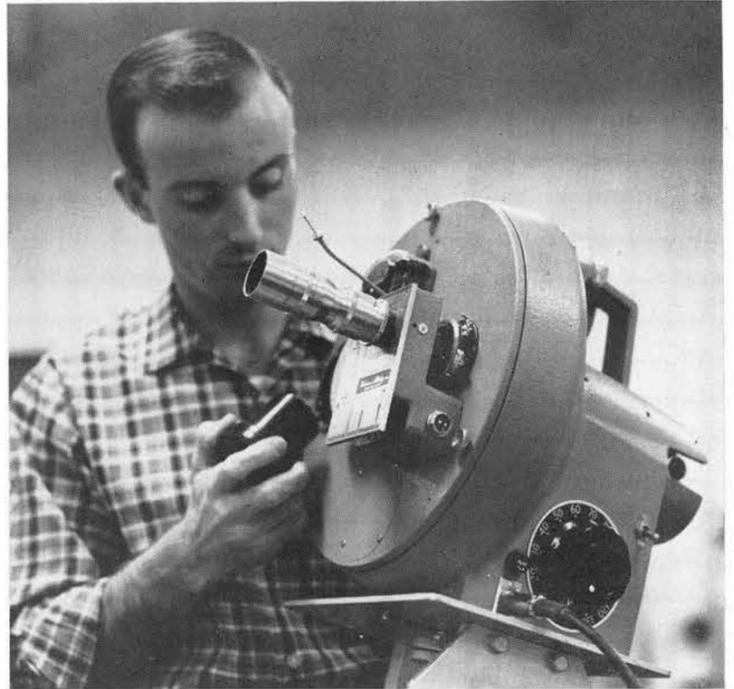
Cameras are remotely-controlled and the photographer must synchronize the camera-run time within a fraction of a second of the event being photographed. Otherwise, at such high speeds, the test specimen would be missed.

"Quite often optical measurements are the primary or only source of information obtained from the tests," Hank said, "and a lot depends on the photographer's ability, planning and initiative to get the best possible results. They have to show what happened, when it happened, and why it happened."

Photographers in Section 7244-1 are M. E. Bush, J. T. Cowie, N. L. Richardson, J. A. Dooley, W. E. Schuetz, W. G. Foy, H. E. Lockwood, J. A. McFadden, J. S. Tamer, and C. F. Wilson, Jr.

R. L. Johnson heads Special Problems Section 7244-2 which provides engineering and design support on some of the more difficult optical measurements projects. Under him are V. E. Baker, J. H. Banker, R. R. Beasley, D. L. Fastle and R. W. Herrmann.

At Livermore Laboratory the industrial photographers are Paul Van Dyke and Richard V. Gray (both 8123-3).



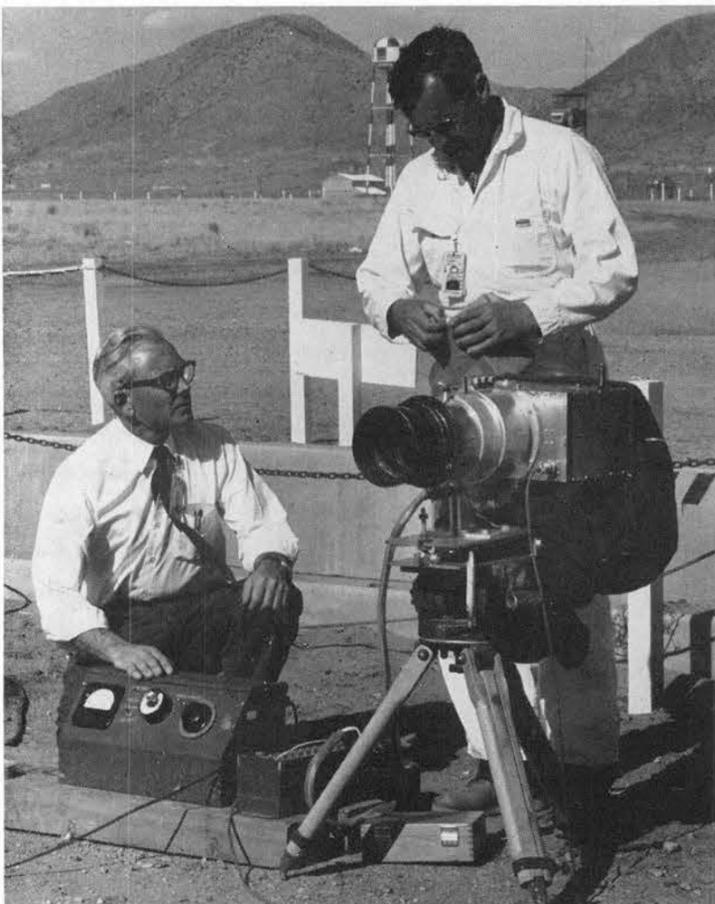
25,000 PICTURES per second are taken with this camera which H. E. Lockwood (7244-1) is loading. A roll of film 34 inches long records action of the event being taken in 8½ milliseconds.



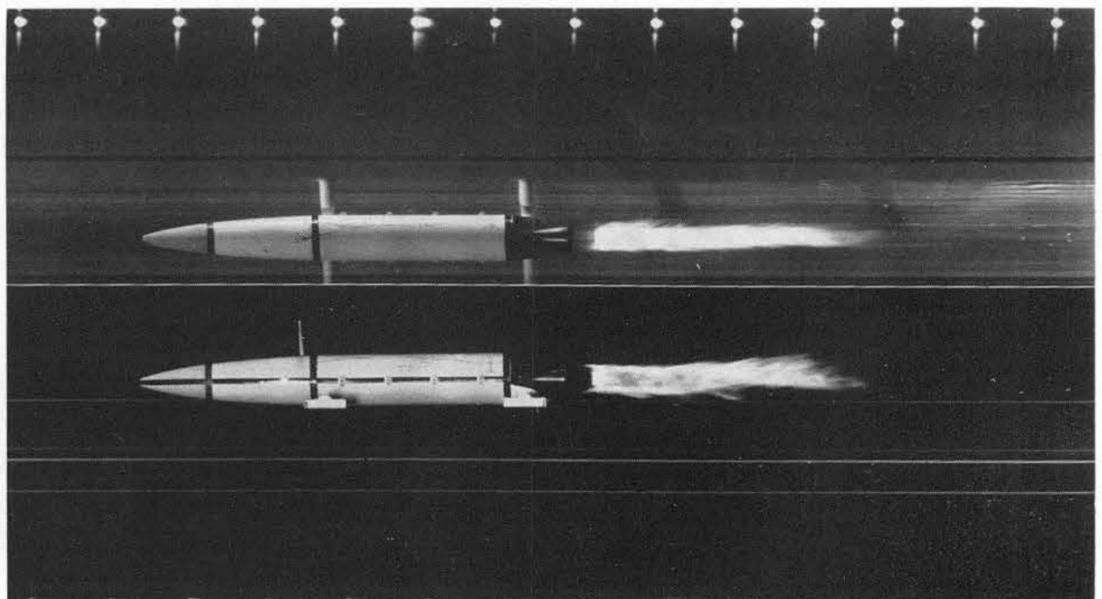
DICK GRAY (8123-3) adjusts Fairchild camera on centrifuge boom before shooting environmental test at Livermore Laboratory. The mirror (rear) is used in filming the opposite side of the test device. The Fairchild camera operates at 64 to 8000 frames a second and the Milliken camera (right) shoots at 400 frames a second.



PAUL VAN DYKE (8123-3) uses film editor to view close-up of microfilm feed mechanism on a reproduction machine. Films Paul shot of the machine in operation revealed a malfunction in the machine and led to its correction by the manufacturing firm.



THIS PROTOTYPE IMAGE MOTION compensation camera, which was developed by Sandia, shows the condition and velocity of a test vehicle at a given time. Setting it up near impact end of sled track are H. G. Sweeney and J. A. McFadden (both 7244-1).



BY USING MIRRORS, both a side view and top view can be photographed of this research sled, which was traveling at 1928 feet per second when this shot was taken. The 1000 cycle per second light pips at the top of the film provide a time base for accurate velocity measurements.

# Sandia Scenes



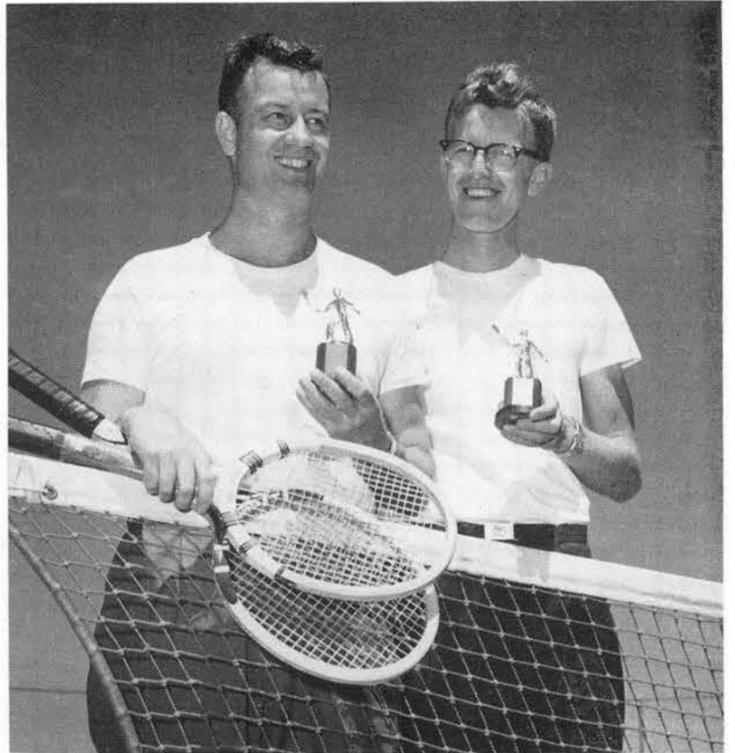
A HIGH-SPEED CAMERA, using a shadow graph technique, will record shock waves created when a test vehicle is shot down the rocket sled in Area III. J. H. Banker, foreground, and D. L. Fastle (both 7244-2) are shown adjusting one of the two mirrors which are used to get a collimated beam of light across the track.



HEADQUARTERS for safety stock items is Sandia's Safety Store in Bldg. 857. Here Noriene Felter (3421-3) requisitions sight savers for cleaning eyeglasses from Wayne McCrory (3211-1), store operator. Available is a wide selection of safety shoes and boots.



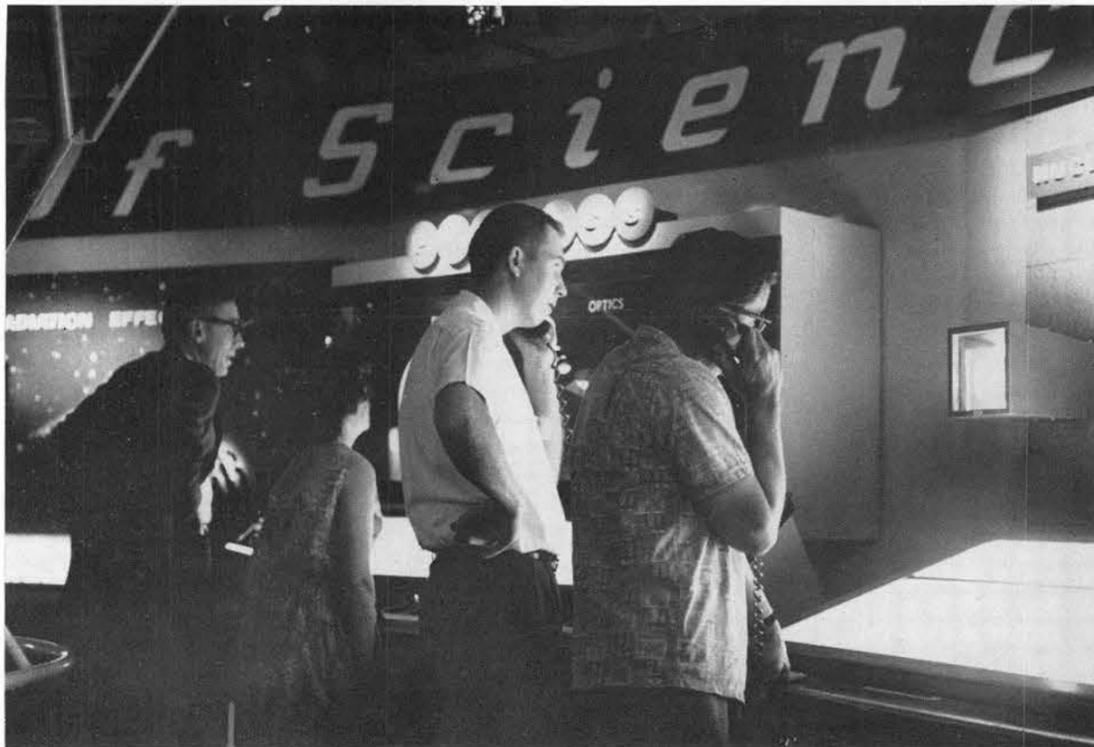
ROARING THROUGH a V-shaped turn on the Cotati Raceway near San Francisco is Neil Givens (8233-1), sports car enthusiast at Livermore Laboratory. Neil's car has many racing safety devices.



DON SKINROOD (8123) left, and his brother Al (8155-1), proudly display their trophies for winning first place in doubles at the spring tennis tournament at Livermore Laboratory. Don also won first place in singles. Second place winners in the doubles were Ernie Alford (8223-3) and Lee Hollingsworth (8120). Second place winner in the singles tournament was Mort Sorenson (8123-3).



RESIGNED, as most hay fever sufferers are, Jim Marsh (3422) submits to his weekly inoculation against the sneezes. Administering the needle is Sandia nurse Polly Loomis. The shots are a service of Industrial Medicine Department 3320. Six hundred hay fever shots are given to Sandia employees during the summer. Employees provide allergy serum through their own physician's prescriptions.



MEMBERS of the Rocky Mountain Psychological Association toured Sandia's Sphere of Science recently as part of the organization's annual convention program. The exhibit hall, which portrays scientific activity and accomplishment, is available to any organized group by making arrangements through the Community Relations Section 3431-2. Contact John Leslie, Section Supervisor, ext. 44264.



GRADUATING STUDENTS from Western Electronics Institute, Albuquerque, toured Sandia's IBM 7090 facilities in Bldg. 880 on May 16. R. K. Vokes (3451), left explains tape input and output.



Clarence R. Pogue  
4423  
May 27, 1946



Walter E. Treibel  
7146  
May 31, 1946



Blythe C. Wemple  
4211  
June 3, 1946



Robert W. Crain  
1423  
June 6, 1946

## 10 Years

May 27-June 9

Grover W. Edwards 3311, Max McWhirter 7311, Willard E. Prekker 4121, Herschel W. Rogers 2452, Joseph E. Tilley 4511, John F. Berger 3242, Roy Lewis Buckner 1113, Tony M. Lopez 3464, Richard A. Rael 2644, Reynolds R. Moore 7147.

Clory M. Valdez 6021, Harold O. Jeske 7252, Audra W. Reger 7322, James H. Scott 7230, Howard F. Burgess 2412, Ronald A. Hayenga 2441, Frank D. Kite 5431, Elmer A. Kraft 4253, Lloyd E. Lincoln 4211, Richard N. Reed 3151.

Bonifacio A. Lopez 4213, Robert J. McConkie 2441, Amado U. Chavez 7321, Jose A. C. Chavez 2641, Curt R. Schikowski 7224, Genevieve R. Hines 4413, Daniel E. Neff, Jr. 4332, Orville L. Rowin 4221.

# Sandia Men Help Prepare Program Of Conference

A. P. Gruer (7530), A. E. Bentz (7253), and F. E. Thompson (7232) were in Chicago this week participating in the program of the 1961 National Telemetry Conference.

As past chairman of the conference and a member of the NTC executive committee, Mr. Gruer was instrumental in arranging a Telemetry in Europe Workshop for the conference. He also presented plans for an International Telemetry Conference to be held in London in 1963.

Mr. Bentz was chairman of the Telemetry Standards Workshop which opened the conference on Monday, May 22.

Mr. Thompson presented a technical paper, "Logic Modules for Signal Conditioning in Space Radiation Experiments," during the session on Signal Conditioning.

## Radio Amateurs to Meet Friday, June 9

Albuquerque radio amateurs are invited to attend a special meeting Friday, June 9, at 7:30 p.m. at Lovelace Radiation Therapy Laboratory.

Speaker will be Ed Tilton, W1HDQ, of the American Radio Relay League Headquarters Staff, and former editor of QST VHF column.

For further information contact E. H. Morterud, W5FPB (7523-3), ext. 29142.

## Tennis Association To Organize Here

Sandia Laboratory Tennis Association will hold an organizational meeting on June 1. Plans will be made at this time for a singles tournament, and a ladder system of play for the remainder of the summer.

Tennis players who are interested in joining the association should contact Fred Romero (3122), ext. 29157.

# AEC Lets Two Contracts for Work To Be Done at Livermore Laboratory

Contracts totalling \$96,311 have been awarded to two Bay area firms by the San Francisco Office of the Atomic Energy Commission for the construction of two projects at Livermore Laboratory.

Ralph Larsen & Son, San Francisco, received the contract to construct a 5000 sq. ft. addition to Bldg. 913. The addition, to cost \$76,413, will be used for laboratory and test facilities. Completion is expected in October 1961.

A \$19,898 contract was awarded to M. W. Garing Company, Oakland, for the construction of a reinforced concrete pit in Area 8 to house a 16-ft. Rucker centrifuge. The centrifuge, which will be used to simulate acceleration forces present during a missile flight, will be capable of exerting a 60,000 lb. g-load on test components.

Construction of the pit is expected to be completed in July 1961. It will be 24 feet in diameter and lined with a concrete wall one foot thick. Special paint will be used on the pit walls to reduce air drag caused by the revolving centrifuge boom.

A temporary structure near the centrifuge will house the power unit, a 100 hp electric motor which will drive hydraulic pumps. The pumps will operate the centrifuge at speeds up to 235 revolutions a minute.

In charge of the centrifuge facility will be the Induced Environment Section, headed by E. H.

Daugs (8121-1). Facility engineer for the centrifuge is Harry Jacobs of Natural Environment Section 8121-2.

Architectural engineering work on the centrifuge facility was done by Plant Engineering Division 8221. Design engineer for the structure was Ken Smith (8221-2), electrical design was done by Ott Rose (8221-2), and preliminary design criteria was established by Jim Harter (8221-1). Plant Engineering Project Engineer on the addition to Bldg. 913 is J. W. Smith 8221-1.

## E. F. Barnicle Returns July 1 To New York

E. F. Barnicle, Jr., Attorney, Department Manager 6030, will return to Western Electric Company, effective July 1, to accept the position of Attorney.

He will be succeeded at Sandia Corporation by R. A. Ledogar, presently an Attorney with Bell Telephone Laboratories.

Mr. Barnicle has been with Western Electric since 1952 and was an attorney in the legal division at the Hawthorne Works before transferring to Sandia Corporation in May 1958.

### SHOPPING CENTER

#### CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday.

#### 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
7. Include name and organization.

#### FOR SALE

- MAPLE PLATFORM rocker, \$15. Niper, AX 9-6290.
- INCOME PROPERTY, near Bases, duplex, 1 bedroom, basement, both sides furnished, \$11,000. Cahill, AL 6-6515 after 5.
- CAMPING TRAILER, 18 ft., air float Skipper. Anaya, AL 6-2530, 6600 Cochiti Rd. SE.
- ANTIQUE ROCKING chair, contour seat, maple, \$59; Kay chord guitar w/ beautiful tone, originally \$130, sells for \$48. Galbreath, DI 4-4306.
- BUNK BEDS, one set, reasonable. Windsor, DI 4-6557.
- HOUSE TRAILER, late model, modern, two bedroom. Kesler, CH 3-8283.
- CLOSET DOOR, folding steel for 6'8"x6' opening, new, \$12; six-volt auto heater blowers, \$2 each; 16" bike w/trainer wheels, \$10. Koletar, AL 5-4751.
- HANDIE TALKIES, 3, Heath, trade for a pickup or scooter; worth \$50 each. Cooke, CH 2-3423 after 5.
- DINETTE SET, chrome, w/4 chairs, \$25; 2 piece sectional, \$20; platform rocker, \$10. Meyers, AL 6-2372 after 5.
- DACHSHUNDS, AKC registered, black, small size, small price. Gardner, DI 4-2547.
- 7/8 ACRE, Manzano Mountains, on national forest line, \$800 or \$400 and payments of \$15 a month. Young, AL 6-9158.
- POWER MOWER, reel type, Reo, w/grass catcher, \$45. Neun, 3600 Parsifal NE, AX 9-9188.
- CASEMENT WINDOW, 3 1/2"x4 1/2", open both sides, 9 panels w/screens, \$25; 35" screen door, \$4.50. Belden, AX 9-3867 after 6.
- '58 OLDSMOBILE 98 hardtop Holiday coupe, all power equipment and factory air conditioning, low mileage, \$1795. Mischke, AX 9-7458.
- '56 PONTIAC sedan, power brakes and steering, R.H. Durham, 2729 Valencia NE, AL 6-6284.
- CLOTHES POLES, pair, 4" diameter, 100' wire, \$7.50; Hipsher, AX 9-0673.
- SAMOYED PUPPY, 3 months old, male, has all shots, \$50. Koetter, AM 8-1009 after 5.
- '61 FORD, 1/2 ton pickup, six-cylinder, four-speed, styleside, deluxe cab, tonneau cover, \$2100, financing available. Hodyke, AM 8-5210.
- FRIDGING 12V, \$65; deluxe Westinghouse automatic washer, \$175; 2 bird cages, chrome stands, \$10 each; stroller w/canopy, \$10; high chair, \$7. Kent, AX 9-8821.
- CONTINENTAL KIT for '55 custom Thunderbird, cheap; '59 Chevrolet Biscayne, power steering, standard shift, heater, best offer. Costello, AX 9-0563.
- EVAPORATIVE COOLER, portable, needs new pads, a giveaway at \$5; lawn mower, 16" reel type, \$5. Deeter, AL 5-5789.

#### NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, June 2

- '54 CHEVROLET, power glide, 4-door Bel Air w/new 1958 motor, R&H, \$395. Clyde, AL 5-6805.
- BOY'S WHITE dress jacket, size 14, 100 per cent wool, fully lined, cheap. Boca, AL 5-7823 after 5.
- ALTERNATOR, regulator and rectifier, complete 12 volt 60 amp Leece-Neville system, cost \$255 new, sell for \$75. Gatlin, AM 8-8151.
- '53 CADILLAC Coupe de Ville, new premium WSW tires, usual Cadillac accessories; clean inside and out, \$795. Thompson, AL 5-4470 after 5.
- '53 HOUSE TRAILER, American 36', 2 bedroom, \$1200 or will take pickup truck on trade. Gonzales, 5948 Eucariz Ave., SW, CH 2-5084.
- REMINGTON TYPEWRITER, portable, \$30. McGoorty, AM 8-5269 after 6.
- '59 TRIUMPH Tiger Cub, T 20S, \$350. Evenings, 215 Solano NE. Monson.
- 17" TV w/rolling stand and antenna, \$30. Kiddie Koop baby bed, \$20; luggage carrier, \$15, 2 metal patio chairs, \$5. Richter, AX 9-0409.
- CHILD'S SWING set, \$10; luggage rack, \$5; mattress, twin-bed size, \$15. Finley, AX 9-0739.
- DELL-LAWRENCE HOME, 4-brm, lr, dr, den, approximately 2300 sq. ft., near Annunciation, Yucca schools, Madison Jr. High, Sandia High. Dawson, AX 9-4537.
- 3 BRM Roberson, wool carpet, drapes, air conditioner, fireplace, sprinklers, near schools. Holmes, AX 9-5109.
- DOBERMAN PINSCHER, AKC registered male, 10 mos., trained, gentle w/children, grooming and sleeping facilities included, \$85. Pearl, AX 9-8768.
- SEWING MACHINE, White, w/buttonholer, \$40; evaporative porta cooler, \$13; Craftsman 8" swing wood lathe w/eight tools, \$23; bathinette, \$10. Riedel, DI 4-5652.
- '59 SUPER BANTAM motorcycle, 5000 miles, good transportation, \$300. McCormick, AM 3-2633, 611 Girard NE.
- '50 CHEVROLET, 2-door, new brakes, good second car. Bland, AM 8-4913.
- '51 MERCURY, 2-door sedan, two-tone, R&H, \$150, will trade for pickup. Fackelman, AX 9-8258.
- OUTBOARD MOTOR, 6 hp., Wizard, w/stand, \$65. Stuart, ext. 2-9262.
- '58 OLDS '88", 4-door sedan, \$125. Merrill, 1201 San Mateo SE.
- 3 BRM HOME, corner lot, carpeting, near elementary and junior high schools, walls, landscaped, \$700 down, \$11,900 total. Boca, AL 5-8452.
- '59 RAMBLER American, 2 door sedan, heater, overdrive, economical, clean, priced to sell. Whipple, AL 6-6806.
- ROCK CRYSTAL, double Jasmine, mouth-blown, 40 pieces, at wholesale price; also collection of antique creamers and sugars. Weaver, CH 2-5560.
- MOUNTAIN LOT w/partially built cabin and fireplace, Cienega Canyon. Finley, AL 6-2391 after 5:30.
- CAR COOLER, 12 volt, used one summer, \$25; 3/4 ton refrigerated air conditioner, casement type, \$65. Conklin, AM 8-7819.
- BATHROOM FIXTURES, white, tub, closet, and lavatory, also medicine cabinet. Make offer. Kindschi, AL 6-0531.
- '50 OLDSMOBILE, runs fine, \$150. Reed, 1116 Wade Circle NE, AX 9-1684.
- PUPS, dachshund-beagle cross, \$5; Kenmore automatic washer, \$35; auto top carrier, cross bars with rubber cups, \$4. McVeety, AX 9-5718.
- SCREEN DOOR, aluminum, for 8 ft. glass door, new, unused, \$5. Thomas, AX 9-0178.
- POWER MOWER, reel type, \$45. Liguori, AL 6-3613.
- WHEEL with tire 6.70x15, \$6; spare tire 7.50x14, \$3. Anderson, ext. 2-7174.

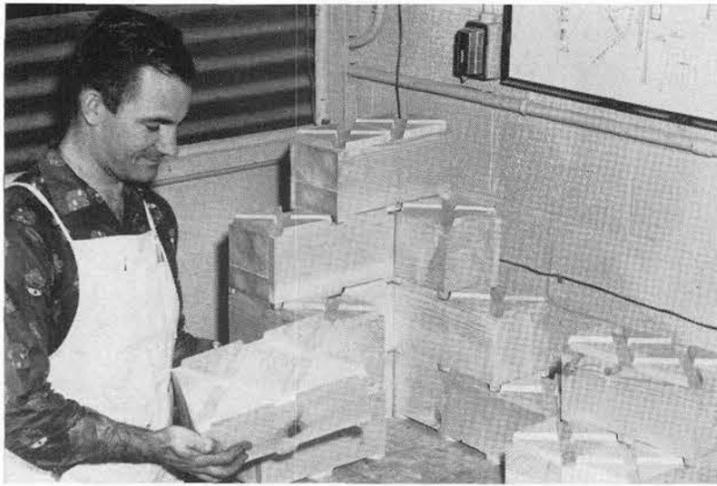
- LARGE 3 BDR home on 1/4 acre corner lot, total price \$18,500, living area 1660 sq. ft., carpeting and drapes throughout. Kollmeyer, AL 6-1261.
- OUTBOARD MOTOR, 30 hp Mercury, make offer; also misc. outboard racing equipment including propellers. Patterson, AX 9-5152.
- 3 BDR HOME, 1 1/2 baths, many extras, near schools, 9619 Arvada NE, priced—\$15,750. Alexander, AX 9-7967 after 3 p.m.
- WOOL RUGS with pads, gray, 12'x18' and 7'x9', \$60 for both; breakfast set w/3 upholstered stools with backs plus 6 ft. counter board, \$30. Wemple, ext. 22178.
- MOSSMAN, 4 1/2% FHA, 3 bdr., 1 1/2 baths, fully carpeted, air conditioned, forced air heating, fireplace, lawn sprinklers, screened patio. Swing, AL 6-6403.
- SELL BELOW appraisal, 3 bdr., 1 1/2 bath, utility room, kitchen built-ins, h/w floors, fireplace, convenient location, \$15,750, \$1700 down, terms. Peterson, AX 9-5921.
- '50 OLDSMOBILE convertible, needs some work done, \$100. Smith, CH 3-3930.
- LOVELY 2 BDR home with many extras, all hardwood floors, close to Base. Radwanski, 336 Tennessee NE, AL 6-2468 after 5 p.m.
- MISSION ELECTRIC 30 gal. table top hot water heater, 5 year guarantee, used one year, original cost \$150, sell for \$50. Fleming, AX 9-6833.
- KILN SECTIONAL Electric—two heating units w/spacers, lid and bottom. Wilson, BU 2-3225.
- SIAMESE KITTENS, \$15, good markings. Gamble, AX 9-6505, after 5:30.
- RANGE, FRIGIDAIRE, 30". Luhn, CH 7-4889.
- '56 RAMBLER wagon, new brakes, trailer hitch. Stixrud, DI 4-7873.
- 3 BDR HOME, 1 1/2 baths, hw floors, electric kitchen, well-planned spacious home, low down payment, terms, below appraisal. Peterson, AX 9-5921.
- UMBRELLA TENT, 9'x11', brand new, has never been on ground, \$39.50. Causey, AX 9-0089 evenings.
- 96 ROUNDS .38 special ammunition, make offer. Payne, AM 8-3184.
- LEFT DOOR 11 ft. refrigerator; overload springs; hand mower; electric tools; 6-volt cooler; antique clocks. Muehlenweg, AM 8-0316, 1312 Espanola NE.
- PLEASURE HORSE, well mannered, 15.2 hands tall, half thoroughbred, ridden English or Western, trained to jump, \$400. Roper, DI 4-1911.
- COFFEE MAKER, 24-cup Westbend, \$7.50. Krell, ext. 24265.
- '53 RAMBLER American, R&H, overdrive, new valve job and tune-up, 27 mpg, \$375. Dieter, AM 8-5797.
- '58 MERCURY Montclair, Fordor sedan, low mileage, PB, PS, radio, below book value, \$1185. Magee, AL 6-1358.
- TRAILER, one wheel, bunk bed frame, panel-ray 18,000 BTU, wooden 4"x6" beams, baby bed, stroller, Babe Tenda, jars, reasonable. Fossum, AL 5-0535.
- DINETTE TABLE, four padded chairs, pink & chrome, \$20; single bed springs, \$5; evaporative cooler, 2500 cfm squirrel cage, \$20. Sherwin, AL 5-8866.

- WESTINGHOUSE FREEZER, 14 cu. ft., used ten months, \$225. Gossett, AX 8-0750.
- PARAKEET, white, cage w/floor stand, \$10; Schwinn bicycle, 26", boys, \$15. Bederstedt, AX 9-2829.
- 23' HOUSE TRAILER, aluminum, modern fully equipped, gas stove and refrigerator, electric water heater, brakes. Erdman, 339 Dujlas SE.
- 21" TV, \$30; 2 pair drapes, 86"x82", \$10; 12'x15" rug pad, \$5. Casement window. Mottern, AX 9-8817.
- GO-KART, home made, w/small motor, \$65 will take it, come over and look. Dobias, AL 6-7476, 4615 Inspiration Dr. SE.
- '51 IMPERIAL, a clean limousine, \$350 or best offer. Mozley, AX 9-4204.
- '56 FORD convertible, almost new wsw tires, power steering, R&H, \$865. Humphrey, AX 9-0020 after 5 p.m. and weekends.
- '54 JEEP station wagon, 4 wheel drive, clean, \$850. Tolbert, AM 8-0747.
- '58 FORD country sedan, new tires, V-8 Engine, Fordomatic, will take trade. Calvery, AM 5-0351.
- LIONEL TRAIN sets, two, complete, w/track mounted on 5x10 collapsible table, \$400 value, \$75 or best offer. Harrison, AL 6-0216.
- WEIMARANER PUPS, AKC registered, champion bloodlines, field show and companion dogs, own both sire and dam. Zimmer, AM 8-8262.
- TYPEWRITER, Smith-Corona, portable w/case, \$25. Fortman, AL 6-4514.
- '59 MUSTANG, bought new Dec. '59, low mileage, extras, \$325, see to appreciate. Schenck, AX 9-0585, 8104 Princess Jeanne Ave. NE.
- REFRIGERATIVE COOLER, Coldspot, used two weeks, one-third off new price. Russell, 1801 Saint NE, AX 8-2439.
- STEEL BASE and wall cabinets and counter top. Strasburg, AX 9-4214.
- S&W .45 revolver, new blue, target grips, holster, \$30. Stephenson, AX 9-3914.
- VENETIAN BLINDS, two, 42" wide and 59" wide; one steel frame bathroom window. Heath, AL 5-5418.
- OR TRADE pick-up truck, 6 good tires. Want 1000 watt, 110 volt portable generator or block work. Smith, AX 9-5414.
- '51 CHRYSLER Windsor, engine recently rebuilt, good dependable transportation, \$150. Stuart, AX 9-9190.

#### WANTED

- HOMES FOR three kittens. Osterby, AX 9-4606 after 5 p.m.
- TWO MEMBERS for reliable car pool to Bldg. 802 from vicinity of Menaul-Arville and San Mateo-San Pedro. Westman, AL 5-6048.
- GENERAL COVERAGE communication receiver in the price range of \$15 to \$30 or higher depending upon condition. Johnson, AX 8-0735.
- GOLF CLUB set for left hander. DeZeeuw, 4015 Ponderosa NE, DI 4-7392.
- JOIN OR FORM carpool from vicinity of 1300 block Vassar NE to Bldg. 880/892. Church, ext. 47134.
- MATURE HIGH school girl to babysit in my home, NE Heights, for summer months. Cowham, AM 8-8989 after 5 p.m. or anytime weekends.
- TO TRADE self-propelled 21" rotary lawn mower for self-propelled reel type. Hipscher, AX 9-0673.
- TO TRADE 16 different Indian head cents or three Barber half dollars for two books of S&H Green stamps. Walsh, AX 8-3173.
- HORSE LOVERS. Horse show Tuesday, May 30, Albuquerque Horseman's Association (formerly South Valley Rebel Riders) arena on Pajarito Rd. SW. Tatum, TR 7-0997.

- CLOTH TOP w/frame for jeep. Schuetz, ext. 54137.
  - TWO-WHEEL TRAILER, 4x6 luggage, 16" wheels, want good frame w/springs, intend to rebuild. Scott, AX 9-3412.
  - RIDE OR JOIN carpool from 2812 Cuevo NE to Bldg. 880. Slack, AM 8-3289.
  - RIDERS from Blake and Foothill SW and Barcelona Bridge to vicinity of Bldg. 836. Benton, TR 7-0873.
  - AUTHENTIC ADOBE HOUSE, 2 brm, prefer separate room or garage, Corrales, NW valley or mountain location, fireplace, washer rough-in desired. Daily AM 5-0595.
- #### FOR RENT
- 3 BDR HOME, 1 1/2 baths, brick, in Hoffmanton. Walker, AM 8-3022.
  - 2 BDR APT in brick triplex, ac, water and garbage paid, storage space. Tillman, 528 Cardenas SE, AL 5-6292 after 5.
  - 3 BDR HOME, den, 1 1/2 baths, built-in range, two WB fireplaces, completely carpeted, landscaped, sprinklers, walled yard. Keller, AX 8-1045.
  - 4 ROOM APT, w/garage attached, gas range, electric refrigerator, water and garbage paid, SE Heights. Nott, AX 9-2232.
  - 3 ROOM APT, furnished, close to base, gas and water paid. Burnett, 6710 Acoma SE, DI 4-3563.
  - 2 BDR HOUSE, unfurnished, carport, stove, refrigerator, water and garbage paid, \$80 month, no children. Spieler, DI 4-7060 after 6.
  - FOR LEASE June through September, 3 brm house, furnished, lawn, walled yard, convenient to bases, \$115 per month including utilities. Graham, AX 8-0686.
  - 2 BRM DUPLEX, carport, storage, air conditioned, \$80 month. 245-A Virginia, NE. McKenzie, AM 8-9651 after 5.
  - 3 BRM home, 1 1/2 baths, sprinklers, available June 1. Wilson, CH 2-9223.
  - 2 BRM home on Brazos river, for rent by week, modern. LaBrier, CH 3-3392.
  - ROOM, kitchen privileges, 4820 McKnight Ct. NE. Ulivarri, AL 5-3936.
- #### LOST AND FOUND
- LOST—White moccasins, brown-rimmed glasses w/service frame, glasses w/black and grey frame, yellow-gold earring w/ three pearls, Shaeffer green pen marked w/red nail polish, ten karat gold ring w/Third Army Division insignia, silver horseshoe w/green stone in center, brown baseball glove, copper link bracelet, Lady Hamilton watch box w/ silver engraving, four or five keys on chain, gold tie chain w/initials CFS, 6" slide rule, round lace white scarf w/black dots, wallet w/Phillip Higgins, billfold w/D Eiskes. LOST AND FOUND, ext. 26149.
  - FOUND—single key, blue print nylon shirt, glasses in brown case, yellow gold square cuff link, beige fabric gloves, green and silver pencil, green Esterbrook pen, yellow bone penknife, door key. LOST AND FOUND, ext. 26149.
- #### FOR SALE AT LIVERMORE
- BC-348 SHORT WAVE Radio, \$50 or best offer. Beers, HI 7-2572.
  - POODLES, Toys and Miniatures, coal black, AKC registered, 7-weeks old, males and females, many show champions in pedigree, \$75 and up. Tompkinson, OL 6-6245.
  - KENMORE Electric mangle, \$25; Boys 20" bicycle, \$7; Singer sewing machine, \$15; Parcelan kitchen table, 4 chairs, \$25; Junior ski set, \$12. Terrell, GR 1-1720.
  - 3 BDR. Home, for sale—rent, lease, with dining room, 3667 Oregon Way, Livermore. Henderson, HI 7-4116.



WOODEN FORMS, which will be used to make interlocking concrete blocks for a protective wall around the Cockcroft Walton accelerator, were built by Ronald Skelley of Organization 4513-4.

## Ray Brousseau's High Game of 268 Earns Scratch Title at Livermore

A new league high game of 268 clinched the high scratch title for Ray Brousseau (8122-2) in the Sandia Men's Scratch League as the spring bowling season wound up at Livermore Laboratory.

Ray, who captained "The Ringers," led his team to first place in the league. High series title in the league went to Jim Lovell (8122-3) for his 663 score.

Jim scored additional honors when the team he headed, "The Links," achieved first place in the Sandia Mixed Handicap League. Jim bowled a high scratch game in that league with a score of 248. High scratch series and high handicap series went to Charels Comito (8114-5), who bowled a 659 and a 723 respectively. High handicap game went to H. S. Bjorklund (8121-1) for his score of 285.

High handicap series title in the women's division of the league was shared by Judy Bryant (8122) and Pat Cooper (8225) with scores of 670 each. Mary O'Shea (8232-1) captured the high handicap game with a 299 and Pat Cooper logged a high series of 508. Mary O'Shea also went on to win the high scratch game title with a score of 246.

In the Sandia Men's Handicap League Bob Joseph (8232-3) and his team, "The Unknowns," captured first place. High handicap trophy went to Marv Brieske (8156-2), who bowled a 295. Don Knapple (8232-3) bowled a high series of 723 and W. B. Pafford (8124-1) was awarded the "most improved average" title with an increase of 16 pins.

"The Hairstylists," captained by

## New Equipment Room To Be Constructed For Org. 2413 Use

A special temperature controlled equipment room for use by Secondary Standards Division 2413 will be constructed in Bldg. 894. The Atomic Energy Commission announced last week that Jack B. Henderson Construction Co. of Albuquerque submitted the apparent low bid of \$32,643 for the job.

Division 2413 is the certifying agency for all test equipment gauges and standards of the Sandia Area Quality Assurance Branch. The new temperature facility will house standards equipment and personnel.

Work is to be completed within 90 days after the contractor receives notice to proceed.

Barbara Dolstra (8144), achieved first place in the Stardust League. High scratch game was bowled by Mary Vincent (8224) with a score of 192. She was also awarded the trophy for high handicap game for her score of 262. High scratch series title went to Ruth Powers (8160) for her score of 495. Sally Forrest (8224-2), with 656, was awarded the high handicap series trophy. Most improved average title went to Pat Long, wife of Bill Long (8142-2) for a gain of 30 pins.

## A. J. Quant to Speak Before CU Symposium

A. J. Quant, supervisor of Casting Resins and Encapsulation Section 1111-1, will be one of the speakers at the Second International Electronic Circuit Packaging Symposium in Boulder, Colo., Aug. 16-18.

The symposium is jointly sponsored by the University of Colorado and Electrical Design News, a leading publication in the electronic circuit packaging field.

Mr. Quant's paper, "A Low Density Casting Resin," is one of 24 to be presented during the symposium.

Mr. Quant has been with Sandia Corporation eight years. He holds a Bachelor's degree in chemistry from Purdue University and an MS degree in organic chemistry from the University of Colorado.

## Ralph A. Carl Buried in Santa Fe National Cemetery

Funeral services were held last week for Ralph A. Carl, Jr., who died May 16. He was 42.

Mr. Carl had been at Sandia since January 1957 and was a Staff Assistant in Shock Section 7323-3 in Area III. He retired from the Navy before coming to Albuquerque.

Burial was at the National Cemetery in Santa Fe.

Survivors include his widow, four sons, three daughters, four stepchildren, and his mother.



## Woodworking Skills Needed Before Casting 5000 Concrete Blocks

Ronald Skelley, of Boxmaking Section 4513-4, has built several intricate wooden models which will be used in casting interlocking concrete blocks.

The dry-stacking concrete blocks will provide a shielding wall for radiation protection when the new Cockcroft Walton accelerator begins operation. This type of block is frequently used as shielding, and Ed Downing (4541) has adapted the idea to meet Sandia's requirements.

"Because of their unique interlocking design, the blocks do not have to be mortared, and therefore are easily put up and moved," says Ed. "Also, interlocking helps prevent radiation from coming through."

Five thousand blocks will be used to construct the wall, which will be three feet thick and nine feet high. Each 6"x6"x12" block weighs about 35 pounds.

The blocks can also be set up near environmental tests for protection from flying objects.

## Sandia Employees Elected to High Posts in Livermore

Three Sandians at Livermore Laboratory have been elected to high posts in Livermore fraternal and service organizations.

Roy Wilcox (8114-1) was named president of the Livermore Eagles Club this month. He has held all other offices in the fraternal organization during his four years service with the group. He will be installed in a special ceremony June 3.

Gene Aas (8144) was elected to the Board of Directors of the Livermore Lions Club. He has been a member of the group for two years, serving one year as an elected officer.

Ray Huston (8212-2) was installed as first vice president of the Council of Social Planning, Livermore Area. Ray has been a member of the board of directors.

## Welcome Newcomers

May 8-19

Albuquerque	
Nancy Lee Barr	3461
Dorothy T. Capes	3126
*Barbara S. Curry	3126
Sara Jane Dickinson	3126
Patricia L. Folley	4344
*Kathleen M. Gilbert	3463
Myra K. Henry	3126
Corine M. Madrid	3126
Florence Minin	3466
*R. Sharon Nuffer	3126
Glorianna M. Silva	3153
*James R. Volpe	3463
Patricia M. Waggoner	3126
Ohio	
James E. Hesse, Eyrta	5132
Returned from Leave	
K. Janet Willis	3126
Alfred W. Mercier, Boulder, Colo.	4213
Temporary Summer Hires	
Vincent H. Rappleyea	4413
*Dorothea C. Taunton	3126
*Michael W. Wright	4412



SYLVESTER GRISBY (8223-4), left, with members of his "Hot Shots" band. Starting as a hobby, the band has turned into a profitable pastime for "Syl."

The group is in great demand for weekend engagements at dances, parties, and club events in the Bay Area, and has even made recordings.

## Parental Carelessness

# Warning Issued on Dangers To Children Taking Poisons

Sandia Base Hospital has recently experienced a rash of emergency cases due to children taking household poisons and drugs. This has prompted Base Headquarters to issue a serious warning to parents.

The notice reads: "In spite of repeated warnings and cautions, the Base Hospital continues to receive cases of poisoning resulting from consumption of toxic household materials and drugs by babies and young children.

"Parents are again advised, requested, and urged to make a detailed study of the possibilities presented their children for self-poisoning.

"Keep all household medicines and chemicals locked up.

"Do not permit the storage of carbon tetrachloride or gasoline in your home. Paint and garden chemicals should be kept inaccessible to children.

"Partially filled medicine bottles and boxes, tablets, pills and so on should never be discarded in trash where they may become available to small children.

"Every case of child poisoning recorded at Sandia Base Hospital has been directly due to negligence and carelessness on part of parents."

Base Headquarters also issues a warning to families who are taking family outings in the area. Persons are advised not to drink water coming from springs located in the outlying areas of Sandia Base reservation. Lab tests show this water contains dangerous bacteria.

## Syl Grisby's Band Could Be Booked Each Night But Leader Prefers Home

When "Little Island Girl" hit the top 40 in a California radio station poll, Sylvester Grisby and his band, "The Hot Notes," really flipped. This was one of four recordings his group had made for "Hush Recordings" of Sunnyvale, Calif.

The records are the high point in a long history of band work for "Syl," (8223-4). He started with a three-piece combo as a hobby while in an Oakland high school in 1948 and he's been playing in bands ever since. He now has a six-piece group that plays about two nights a week at dances, parties, and clubs.

"We've had enough night club offers so we could play every night in the week if we wanted to," said Syl, a tenor sax player, "but we've decided two nights a week are about all we can handle along

## J. R. Gibson Speaks To Industrial Engineers On Personnel Evaluation

Pros and cons of personnel evaluation testing were discussed by Jerome H. Gibson, supervisor of Personnel Testing Division 3154, at a recent meeting of the American Institute of Industrial Engineers in Detroit, Mich.

Explaining the work of the industrial psychologist, Mr. Gibson defined personnel evaluation as "any measurement of individual behavior, depending upon the purpose for which the measurement is made."

He compared measuring emotional stability of an employee to testing a precision gage block. In both cases, he said, you study a representative sample of behavior under normal conditions, and then compare it to a standard scale or norm.

Mr. Gibson said that one way to achieve successful personnel evaluation is to review the implications and possibilities in a new behavior-centered approach to job content and job demands or job requirements.

"We could then see how Industrial Engineering and Behavioral Sciences as they exist today could contribute to a better matching of men and jobs (as well as jobs and men) which would result in increased productivity beyond our current most hopeful conceptions," he concluded.

with our regular jobs. Besides, I go to school two nights a week, and I like to spend some time at home with the wife and kids."

The band's biggest audience was 1500 students at a dance in the Stanford University gymnasium. "Man, we really had a ball," said Syl.

Not long ago Syl was booked to play a large fraternity dance on the same program with the famous Charlie Barnett orchestra. "It was really an experience," Syl said. "For the first time in all my years on the bandstand I had 'butterflies'."

Syl lives in Oakland. He has been with Livermore Laboratory since January 1959.

"Band work is okay," he says, "but I don't intend to go into it as a career. I enjoy it as a hobby and that's enough."

## Sandia's Safety Record

**Sandia Laboratory HAS WORKED 1,830,000 MAN HOURS OR 53 DAYS WITHOUT A DISABLING INJURY**

**Livermore Laboratory HAS WORKED 160,000 MAN HOURS OR 31 DAYS WITHOUT A DISABLING INJURY**