

Study in Efficient Reading Brings 100% Improvement

Six digits are projected on a screen for a twelfth of a second; a minute later two simple geometric forms are flashed on the screen. In the darkened room a small group of Corporation employees hurriedly write down the numbers and quickly sketch the forms.

Tachistoscopic training is one of the aids for improving reading efficiency. The memory drill utilizing numbers of six, seven, or nine digits helps develop concentration. Another drill using as many as three geometric forms at one time discourages vocalizing while reading (oral or mental repetition of words as one reads). Words and phrases are the next

step in this training. Vocabulary training and word meanings are also stressed during the course.

Another device used in instructing the course is a perceptual training aid which forces the eye to read material projected on the screen at a certain pace and also at two visual "takes" per line.

In-Hours Class

The Efficient Reading course is offered as an in-hours class by Staff Training and Education Division 3131, and as an out-of-hours class by Technical and Trades Training Division 3132.

Similar classes are planned at Livermore Laboratory under instruction of Phil Leiserson (8212-2).

The in-hours class, which meets two hours a day for two weeks, has been completed by 279 employees. These employees, who are scheduled into the course by their supervisor, are those who must spend a considerable amount of time reading in connection with their job. They are grouped in classes with others who have similar rates of reading and comprehension. These rates were obtained during tests given last winter to interested employees. F. H. Hannah, K. C. Krogh, and E. H. Wilson (all 3131) have been instructors.

The out-of-hours class has been held two semesters with about 100 students finishing the course. It

is similar to the in-hours course and is taught by Lee Garner (3423-1). This course is offered for employees who may not have heavy reading loads in their jobs but are interested in becoming more proficient in reading.

Training Aids

In addition to the tachistoscopic training aids, "Developing Modern Reading Techniques," written by three professors at the University of Denver, is used as a textbook. It is comprised of page-long articles on various subjects which are read for speed. A machine called a "Reading Trainer" is used with this textbook to increase reading pace and maintain a constant speed. When using the

textbook at home, students are urged to read against time using a stop watch, or a "Reading Trainer" which may be borrowed from the class.

With use of the training aids and with persistent practice, the course instructors maintain that reading speeds can be doubled by the end of the course and at the same time comprehension can be kept high.

Instruction is also given in how to use other methods in reading: skip, skim, survey, scan, and reading to remember factual information.

"We usually achieve 100 per cent improvement," the instructors agreed.

Sandia Corporation LAB NEWS

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Several Thousand 'PSQ's' to be Brought up to Date by Personnel

Five years may not seem like a very long period of time, but when you stop to enumerate the times you have moved, additional dependents, address changes for close relatives, etc., that list could be lengthy.

This is the type of supplemental information that must be added to each employee's Personal Security Questionnaire to bring it up to date to meet AEC requirements. At Sandia Laboratory alone there are 4081 PSQ's over five years old.

To update these forms in an efficient manner and to inconvenience employees as little as possible, a Supplemental Form was devised here. Employees need only list current information or changes necessary to make current their PSQ (a copy of which

accompanies the supplemental form).

These Supplemental Forms at Sandia Laboratory are checked in Employee Processing and Reports Section 3153-2, and the new information combined with the old. The revised PSQ's are typed in triplicate with copies going to the AEC, employee, and Sandia personnel files.

At Livermore Laboratory 128 questionnaires have already been re-processed by Personnel Division 8112 since the program was undertaken in February. During the next several months more than 250 employees with at least five years' service will be required to update their Personnel Security Questionnaires.

Additional investigations will be made each year as more employees reach their fifth anniversary date.

Visitors See Lab Via Community Relations Tours

Albuquerque Club of Printing House Craftsmen toured Sandia Laboratory's Sphere of Science June 20. The group saw "The Sandia Story," and heard a talk by Alfred Goodman, Advanced Development Division 7223, on "Some Things The Future May Bring."

John C. L. Leslie, supervisor of Community Relations Section 3431-2, gave a brief introductory talk on Sandia Corporation.

A new employees tour was also held June 20. Following a visit to the Sphere of Science, the new hires took a bus tour of Area III.

Thursday evening, June 22, members of the Technical Training Group, Army Missile Branch, viewed the stars and moon through Sandia's 24-in. reflecting telescope. Dan Fenstermacher (7224) discussed the various objects the group saw through the telescope.

All Sandia tours are arranged by Community Relations Section 3431-2.

Price, Cost Analysis To Be Undertaken By New Department

A new department will be added to the organization of the Purchasing Agent (4300) July 1. K. S. Spoon will be acting manager of the department, which will be known as Price and Cost Analysis 4350.

The department's primary duties will be to research in the field of price, cost, and value analysis. Studies will be made of the problems concerned in determining the reasonableness of the prices paid for purchased materials, services, and products. Based on these studies, this department will develop and recommend ways and means for the most appropriate purchasing actions to be taken.

Additional duties will be the determination and reporting of all cost reductions or savings as a direct result of the effort of the Purchasing Organization.

Reporting to Mr. Spoon will be E. L. Bolton, who will be supervisor of Division 4351. Taking Mr. Bolton's position as supervisor of Division 4361 will be C. Davison. Mr. Davison has been supervisor of Division 4582 at Salton Sea.



BEST REPORTER AWARD for 1960 was presented Rose Hainlen (4152) by R. W. Henderson, Vice President, Weapon Programs, during annual Lab News Reporters Luncheon held last week.

Sandia Lab News Reporters Praised For Service to Company Publication

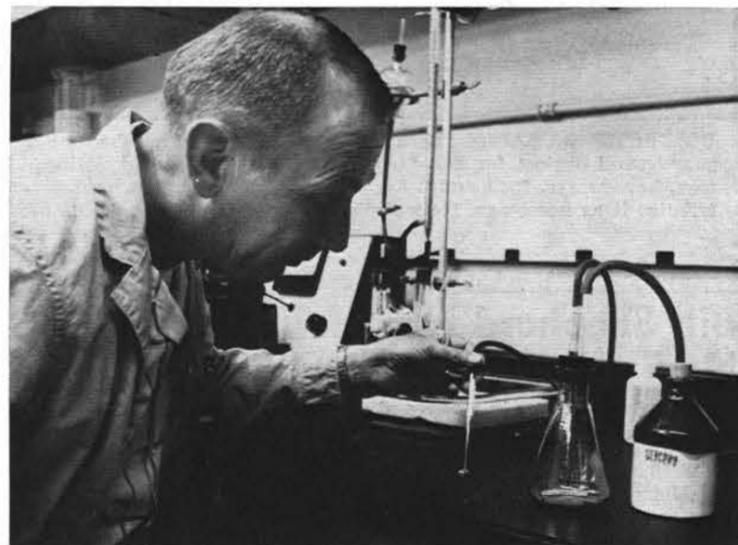
The Lab News was described as "an extremely important link in the communications chain" by K. A. Smith, Director of Information, Publications and Public Relations, as he spoke last week before about 70 volunteer Lab News reporters at Sandia Laboratory.

The occasion was the annual Lab News Reporters Luncheon at the Coronado Club June 13. In addition to the volunteer departmental reporters, invited guests included members of the Small Staff, members of the Editorial Committee, representatives of AEC-Sandia Area Office, Technical Arts Division, Mail Services Section, Photo and Reproduction Division, and the Lab News staff.

The reporters were lauded for helping the Lab News staff obtain a clear picture of Corporation employees and their work. "Our audience is broad and diversified," Mr. Smith said, "and the Lab News helps our many readers develop a concept of Sandia Corporation."

R. W. Henderson, Vice President, Weapon Programs, presented the "Best Reporter of 1960" award to Rose Hainlen (4152-1). Certificates of Appreciation were given to Patricia Anderson (7241), Mary Campbell (7130), and Beth McGuire (4221).

A luncheon meeting for reporters at Livermore Laboratory will be held this fall.



BOTTLE TYPE TRAP, connected to a vacuum line by flexible tubing, is recommended by Roy Mills of Industrial Hygiene Chemistry Section as proper way to handle spilled mercury. Mercury vapor poisoning may occur if spilled amount accumulates over a period.

Laboratory Workers Warned Of Spilled Mercury Dangers

News stories about a family suffering mercury vapor poisoning are serving as a reminder of this kind of danger.

"Mercury is found in every laboratory," according to Roy Mills of Industrial Hygiene Chemistry Section 3311-1. "It is usually simple to handle and if handled properly is safe."

"The thing about mercury," Roy continues, "is that eventually you're going to spill some. You can count on it. When this happens, it must be cleaned up immediately and carefully. The danger begins when an amount accumulates over a period of time. Even small drops finely dispersed can cause air contamination. People breathing this air can get enough mercury in their system to become seriously ill."

The family mentioned in the newspapers breathed mercury vapor overnight and awoke desperately sick. They were hospitalized a week and saved by antidotes. The father had tried to separate gold ore by evaporating it with mercury in a pan in the oven. Heat rapidly dissipates mercury into the air.

To clean up a small mercury spill in a laboratory, Roy recommends a bottle type trap—a stoppered bottle with two glass tubes inserted through the stopper part-way into the bottle with a filter between the vacuum line and pickup. Attached to each glass tube is a section of flexible tub-

ing. One end is connected to a vacuum line while the other end serves as a pick-up tube. The bottle acts as a reservoir to collect the mercury.

Even after this vacuuming, many particles unseen to the naked eye will remain. These particles will contribute heavily to the atmospheric contamination and must be cleaned up. Immediately cover the area around the mercury spill with water containing "HgX" compound. The compound should be on hand where mercury is used. It may be secured from General Stores at Sandia Laboratory or the Health and Safety Section 8241-3 at Livermore Laboratory.

"Never dry-sweep a mercury spill," Roy warns.

Another major source of mercury vapor contamination is escapement from laboratory instruments. A lab which uses any kind of vacuum or pressure system containing mercury should continually monitor the atmosphere for contamination.

Personnel from Industrial Hygiene at Sandia Lab or Health and Safety Section at Livermore Lab are available at any time for consultation and assistance.

"Pre-planning, proper equipment, and good housekeeping are the answers to normal operation problems with mercury," Roy says.

Cal Tech Speaker On June 28 Sandia Colloquium Session

Dr. Arthur Erdelyi, professor of mathematics at the California Institute of Technology, will speak at a Sandia Colloquium on Wednesday, June 28, at 2 p.m.

His subject is "Mikvinski's Theory of Heaviside (Operational) Calculus." The talk is intended as an introductory lecture which demands no previous knowledge of the fields concerned.

Tickets are not required for the meeting which will be held in Bldg. 815. For further information contact H. H. Wicke (5421), ext. 22149.

Fred Romero Appointed To City Traffic Board

A. L. "Fred" Romero (3122) has been appointed to the City Traffic Board by City Manager Edmund Engel. His term will run through Feb. 2, 1964.

Fred has been at Sandia since 1948, most of the time at Manzano. He was with the Corporation's Base Housing office for two years and for the past eight months has worked with the Provost Marshal's office on Base traffic problems as part of his job in Services and Benefits Division.



COLLECTING USABLE ITEMS for needy families has become a year 'round project for Bill Shepherd (3425). He stores clothing, toys, housewares, food and other material in his garage, and distributes it as necessary. He will pick up donations from Sandians.

Coronado Club Plans Dances for Saturday Nights

Two Saturday night dances are upcoming on the Coronado Club's social calendar. Tomorrow night, June 24, Lloyd Pond's orchestra will play for dancing from 9 to 1. On July 1 it will be the music of Tommy Kelly. Admission price is \$1 for members, \$1.50 for guests.

"Walking My Baby Back Home" is the movie for Family Night, Sunday, June 25. As usual, free cokes and popcorn will be served during the show which starts at 6 p.m.

Friday night social hours will feature Al Hamilton tonight, George Davies on June 30, and Al Hamilton again on July 7. Live music is scheduled from 5 to 8 p.m., social hour lasts from 4:45 to 6:15, and the \$1.75 buffet lines are open from 6 to 7:30.

Border-Crossers Enjoying Foreign Fare on Vacations

The summer vacation is still young, but numerous Sandians have already planned or taken trips abroad. Saved-up vacations and vacation dollars are being enjoyed—or soon will be.

Enjoying a month in Guam is Tomasa Santos (5426). This is the first time she has been home in five years. Tomasa is flying by jet both ways. On the homeward trip—due to the 18 hours difference in time—she will actually arrive in Albuquerque before she left Guam.

Another Sandian who will be visiting his homeland is Bill White (4171). Bill and his brother, who lives in Stillwater, Okla., will leave July 11 by ship for Liverpool, England. They will visit relatives in Cornwall, England, and then drive through Scotland.

Immediately after V-E day Bill spent 10 days with his Cornish kinfolk, but he hasn't been back there since. He will be gone six weeks.

Anne F. Barrett (7240) will be leaving New York June 21 on a 42-day tour of Europe, sponsored by the Newman Center in Albuquerque. Anne has been on the Continent previously, but she is particularly looking forward to 10 days in Rome and Florence. The group of 22 Americans will also stop in England, Germany, Switzerland, Austria, Spain, and France.

Closer to home, Leon Smith (1300) and his family are currently touring the Canadian Rockies and British Columbia. They will stop in parts of Washington and Oregon before returning to Albuquerque in July.

Mazatlan, Mexico, is always a popular vacation spot. Orlando Ulivarri and Timothy Regan (both 2641) went deep sea fishing there recently and stopped en route to explore the interior areas near Durango. Bill Weinbecker (4252) reported considerable anti-American feeling during his stopover in Torreon, but at Mazatlan residents were still happy to see Americans.

Virginia Southerland, Orinda Medina (both 3423), and Orinda's sister Merlene (4325) returned Sunday from a trip to Mexico City, Acapulco, and other cities in that area. They reported friendliness wherever they went. Policemen were particularly helpful in offering aid in the form of information and directions.

Sandian Who Serves

Bill Shepherd Has Happy Hobby — He Emulates the Good Samaritan

This is another in a series of articles describing the community activities of Sandia employees.

Bill Shepherd (3425) has a garage, but his car is seldom in it. Usually, the garage is full of clothing, food, toys, furniture, dishes, and odds and ends which he collects for needy families.

"You might say a guilty conscience started this project," said Bill. Late last year he heard about several families which needed help, but they couldn't qualify for welfare assistance.

"I wanted to help them so I gathered everything I could, but it didn't begin to meet their needs," Bill said. He asked his friends for donations, and since that time his home has served as a collection and distribution point.

Bill gets his names from the Welfare Department and other social agencies. Occasionally, he gives material to the Good Shepherd Refuge, Salvation Army, and Goodwill Industries.

"These sources are available to anyone, although few people check into them," Bill continued. "I just want to make it more convenient for people to help other people."

Bill will be happy to accept usable donations, and he stressed that dishes and silverware are items particularly needed. He can be reached at AL 6-2059.



Darlene Cahill (8233)

Take a Memo, Please

"The safety of the people is the supreme law," according to the early Romans.

Congratulations

Born to:

Mr. and Mrs. O'Delio Otero (4231-1) a son, Donjo, on May 15.

Mr. and Mrs. Daryl W. Orth (4224-3) a son, Daryl William, on May 24.

Mr. and Mrs. Joe M. Sanchez (7532-1) a daughter, Letitia Annette, on June 7.

Mr. and Mrs. Andrew J. Alderete (2843-1) a son, Robert Mark, on June 7.

Mr. and Mrs. W. G. Levy (1332-1) a son, Mathew, on June 4.

Mr. and Mrs. Coy L. Moss (1423) a son, Merritt, on June 7.

Mrs. and Mrs. Edward J. Newman (7213-2) a son, Jeffery John, on May 26.

Mr. and Mrs. J. I. Hegge (1333) a son, David Paul, on June 11.

Mr. and Mrs. James A. Smith (3131) a daughter, Bonnie Jeanne, on June 9.

Mr. and Mrs. H. L. Rarrick (3311-2) a son, Shawn, on May 22.

Mr. and Mrs. Edward H. Gallegos (4152-1) a daughter, Felicia Louise, on June 8.

Mr. and Mrs. Dale R. Anderson (8232-4) a son, Dale R. Jr., on June 11.

Mr. and Mrs. Vernon F. Simmons (2534-2) a daughter, Verlynn Elaine, on June 13.

Mr. and Mrs. J. C. Wambold (7124-2) a daughter, Cynthia Anne, on June 12.

Mr. and Mrs. Bernardo Gallegos (4212-1) a daughter, Evelyn Marie, on June 13. Rosalie is on leave from 3466-3.

Mr. and Mrs. C. A. Mieras (4573) a son, Larry, on June 13.

Sponsor Dutch Families

Betty (4131) and Gerald Van Gundy (2634) will sponsor two Dutch families, who are expected to arrive in the United States sometime this summer.

The Van Gundys will receive help from their church, but their obligation includes providing livable rental housing and some staples, helping the heads of the families get jobs, and seeing that the children are enrolled in school.

"We've rented two unfurnished houses and are using our spare time cleaning and painting them," Betty said. The two families have five children between them so the Van Gundys have contacted the principals of the South Valley schools the children would be attending and have made arrangements for the school counselors to give them assistance.



SURROUNDED by one week's output, Ken Stiver estimates that in 13 years as Sandia's sign painter, he has averaged 50 signs per week for a total of 33,800 signs. However, Ken stresses excellence over quantity. Ken's work is found throughout Sandia Laboratory.

Ken Stiver Has Painted Signs for 30 Years and He Still Likes Job

Ken Stiver is one Sandian whose work practically surrounds Sandia Laboratory. It is also found in every building, in every parking lot, throughout Tech Areas I, II, and III, and even at Sandia sites.

For 13 years Ken has been Sandia Corporation's sign painter working in Painting Section 4513-3. During the years, Ken estimates that he has painted about 50 signs each week, a total output of 33,800 signs during his years at Sandia.

Jobs have included painting "Exclusion Area" signs on the fences surrounding the technical areas, building numbers and room numbers, fire prevention displays, and signs for Sandia exhibits at New Mexico State Fairs.

While producing a large quantity of signs, Ken concentrates on maintaining a high level of excellence. All of his signs feature eye-catching layout, a variety of lettering styles, and the clean brush work characteristic of a master sign painter.

Ken started his profession early. He attended an industrial high school in Lansing, Mich., and alternated a week of school with a week of on-the-job training.

"This was so long ago that I don't like to remember it," Ken says. "I guess I've been painting signs for more than 30 years."

His most difficult and the most satisfying job was decoration of a Navy chapel in Camp Endicott, R.I. An architectural feature of the chapel was two false windows in its center. Over the black surfaces Ken applied 3/4-in. gold leaf lettering for "The Lord's Prayer" and "The Ten Commandments." The work required six weeks to complete.

"Gold leaf lettering is almost a lost art, today," Ken says. "It's a meticulous method of creating lettering and it takes a lot of time. However, I feel that the results are worth it."

At Sandia Laboratory, Ken used gold leaf lettering on the glass doors at the entrance to Bldg. 800.

On many production jobs, such as an order for 80 "Radiation Danger" signs recently, Ken uses a silk screen process. On these, Ken makes a master pattern and carefully cuts separate "stencils" for each color of paint to be used. Once the stencils are completed, quick production can be accomplished.

"Painting signs helps a lot of people, gives them a lot of information. Needless to say, I enjoy my work."

Cherry L. Burns New President of Theta Sigma Phi

Cherry Lou Burns, assistant editor of the Lab News, was recently elected president of the Albuquerque Chapter of Theta Sigma Phi, national honorary fraternity for women in journalism.

Mrs. Burns has been a member of the Lab News staff for five years. Prior to that she worked three years in the U.S. Foreign Service, assigned to Germany, as a writer for a monthly magazine and a reports officer for documentary film programs.

She also spent five years as a writer for United Press and International News Service in Denver and Santa Fe. Mrs. Burns attended Denver University.

Wheels to Spare

Bachelor Norman A. Smith (3451) has an unusual problem. During a recent drawing he won a prize billed as "wheels for the whole family." It turned out to be a bicycle built for two.

"With so many things in this world one could win, I would end up with this!" he mumbled.

Sympathy

To Diane Martin (5132) for the death of her father-in-law in Chicago on June 13.

To A. T. Nathan (8115-1) for the death of his wife in Los Angeles June 8.

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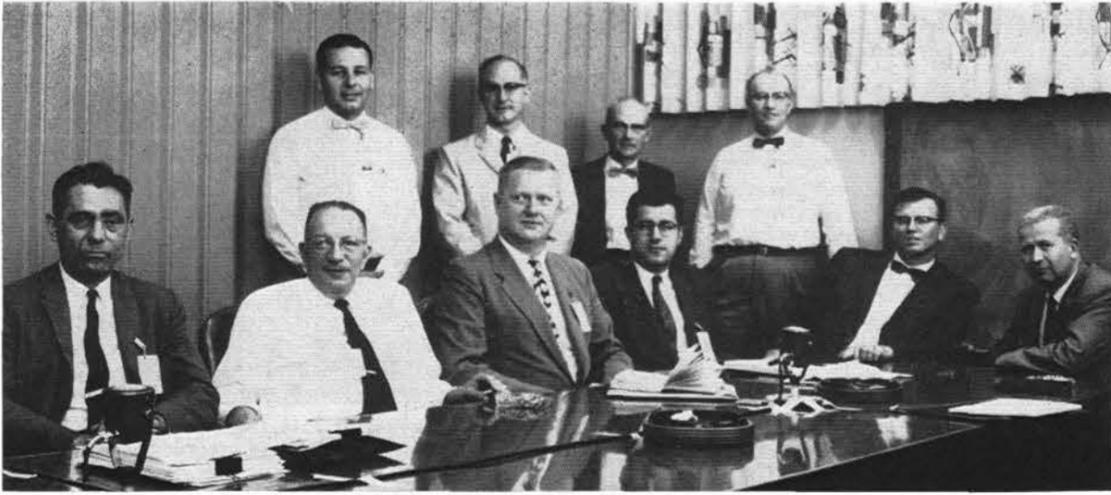
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MEETING with representatives of the National Bureau of Standards last week, Sandia and AEC personnel discussed operation of the Primary Standards Laboratory operated by Department 2410. From left, sitting, are E. C. Lloyd, A. G. McNish, H. W. Lance, Dr. H. M. Herzfeld, H. C. Biggs, L. J. Paddison. From left, standing, are H. Steffy, K. G. Overbury, J. S. Maxon, and G. M. Adams.

National Bureau Officials Conduct Review of Sandia Corporation's Primary Standards Lab

Four representatives of the National Bureau of Standards visited Sandia Laboratory last week at the invitation of the Atomic Energy Commission. They reviewed Sandia's Primary Standards Laboratory operated by Physical and Electrical Standards Department 2410 under H. C. Biggs.

The laboratory is the primary standards agency for all integrated AEC contractors. The NBS team also visited the Secondary Standards Laboratory at ACF Industries.

The visitors were Dr. Charles M. Herzfeld, NBS Acting Associate Director; Alvin G. McNish, Chief, Metrology Division; and Edward C. Lloyd, Consultant to Mechanics Division; all from

Washington, D. C.; and Harvey W. Lance, Chief, Electronic Calibration Center, NBS, Boulder, Colo., Laboratories.

"Having the National Bureau of Standards representatives take a look at Sandia's operating procedures was of mutual benefit to both agencies," Mr. Biggs, manager of 2410, said. "In addition to the suggestions made by the NBS representatives about our operations, we gave the NBS details of AEC-industry needs in a field where precise standards are a prime factor of quality and reliability."

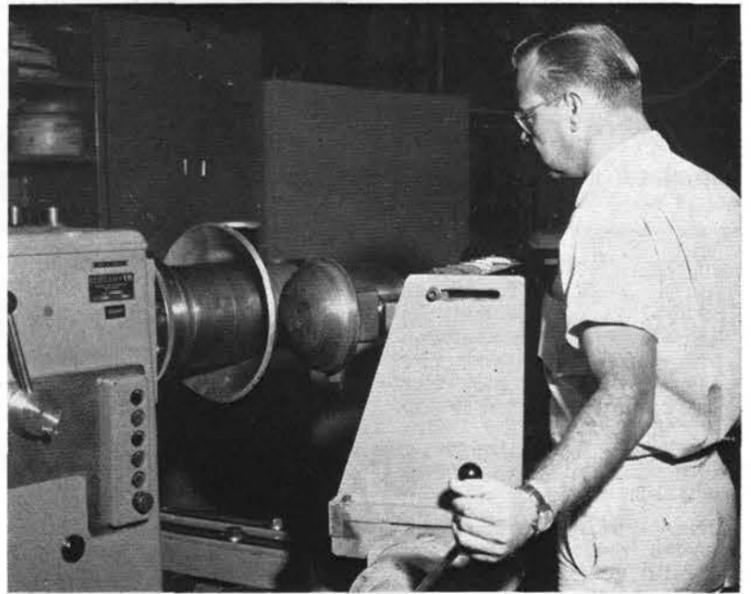
Periodically, reference standards kept by 2410 are certified against standards of the National Bureau of Standards. In turn, Department

2410 performs calibration and certification of standards of the secondary laboratories of the AEC integrated contractors.

The entire operation is called the ALO Standards and Calibration System. This system insures the accuracy of the instruments, gages, and testers used by all AEC contractors.

Wish to Bowl?

Sandia bowlers interested in participating in the Rio Grande tournament, which will be held the last three weekends in July at Hiland Bowl, are asked to contact Rudy Vinovich (2642), ext. 45260 or AX 9-1979 after 5.



POWER SPINNING MACHINE is operated by Kenneth E. Hall (4251-1) in molding disc to shape of metal form. Pressure is applied by roller to disc as roller and form revolve on lathe-like machine.

Mechanical Metal Spinning Being Done in Sandia Shops

Shaping of metal into conical or cylindrical forms without heating, waste, or using hand tools is now possible in Sandia Laboratory's Development Shops. The work is done by a new German-made power spinning machine.

"We're still working with the capabilities of the machine," says Lowell Stouder, supervisor of Program Machining Division 4251. "We believe we can spin aluminum one inch thick and steel up to one-half inch thick."

The metal is shaped around wooden or metal forms of the desired size as they both revolve on a 'lathe-like machine. The metal is formed by pressure of a roller, which is mechanically controlled. Thickness of the original metal blank may be reduced as much as 75 per cent as it is spun.

The machine will accommodate forms up to 60 inches in diameter or four feet in length.

A unique feature of the process is the ability of the machine to hold the wall thickness of a shape to an extreme tolerance—in the vicinity of .003 to .004 of an inch. In addition, the spinning refines and elongates the grain structure of the metal. This results in substantial increases in the tensile strength, fatigue resistance, and hardness of the metal. Power spinning leaves a smooth, uniform finish on the spun part.

The basic process was brought to this country from Sweden in 1907, but (due to patent restrictions) it was used only in making cream-separator cones. Since 1953 it has been used by manufacturers in producing television picture-tube cones, aircraft engine parts, and missile shapes.

The Explorer nose cone for the first successful U.S. satellite was power spun from an eight inch square blank of stainless steel .094 of an inch thick. The finished

cone was 12 inches long with wall thickness .013 to .017 of an inch, although the blunt nose remained the thickness of the original blank.

"I first saw this machine in operation in a Milwaukee factory," Mr. Stouder reports, "but the only clue I had to the manufacturer's identity was a glimpse of a red triangular trademark. It was two years before I discovered it was of German origin. We like to 'buy American' but in this case there wasn't a similar American-made machine."

Sandia has two craftsmen who operate the machine. They continue to spin "by hand" thinner and smaller components as the need arises.



UNIFORM WALL THICKNESS, possible through use of new power spinning machine, is indicated by this metal cone, held here by Nathana Koen, secretary in division 4251.

Ernie Alford to Head Livermore Committee For Alameda County Fair

Ernie Alford (8223-3) has been named chairman of the Livermore Chamber of Commerce "Livermore Day" committee at the Alameda County Fair. Working with him on the committee are Marguerite Mihoevich (8220), committee secretary, and Dick Dickson (8233-1), publicity chairman.

Special Livermore Day activities, including a variety show, are planned for July 10 at the fairgrounds in Pleasanton.

Kansans to Gather At Bataan Park Sunday, June 25

H. E. Lenander (7100) will be guest speaker at the annual Kansas picnic at Bataan Park, Tulane and Lomas NE, on Sunday, June 25, at 1 p.m.

His subject is "A Hundred Years in Kansas," commemorating the State's centennial celebration now in progress.

All ex-Kansans are invited to the potluck picnic, according to Max Holroyd (4132), chairman of the committee planning the event. Those attending should bring their own table service.

B. S. Biggs To Observe 25 Years With Bell Telephone Laboratories

B. S. Biggs (8000), who celebrates his 25th anniversary with the Bell System July 1, will be honored next month at an anniversary luncheon.

The Livermore Laboratory Vice President joined Sandia Corporation in 1958 as Director of Materials and Standards Development at Sandia Laboratory. In 1960 he was elected Vice President, Development, at Sandia Laboratory. He assumed his new duties as Vice President, Livermore Laboratory, this month.

During his 25 years with the Bell System, Mr. Biggs has been active in materials research and engineering, publishing a number of scientific papers in this field. Before joining Sandia he was Assistant Chemical Director, Development, at Bell Telephone Laboratories.

Mr. Biggs is a member of the American Chemical Society, the Society of Chemical Industry, and the American Society for Metals. He is currently chairman of the



B. S. Biggs

Scientific Advisory Committee of the Center for Prevention of Deterioration (National Research Council).

Mr. Biggs holds an AB degree from Southwest Texas State Teachers College, and AM and PhD degrees in chemistry from the University of Texas.

Bob Martin Will Attend USS Lexington Reunion

When the USS Lexington sank in the Coral Sea in May 1942, Bob Martin (8121-2) and Guy W. Robinson (7124) were two of the 2700 sailors forced to hit the water. Guy has the distinction of being the last one to operate the throttle on the giant aircraft carrier.

After the war, the ship's survivors organized annual reunions and invited others who served aboard the Lexington to attend.

Bob and his wife Trudy (8212-4) will be among the 300-400 former crewmen and their wives expected at this year's reunion at Tacoma, Wash., June 24.

Both Guy and Scotty Romine (8126-1), who served aboard the Lexington before the war, will be unable to attend this year's reunion.

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



MISS FRISBEE, DID YOU CLEAN OUT THAT OVERCROWDED FILE SAFE AS I SUGGESTED?

Topics Galore Offered by Sandians In Corporation's Speakers Bureau

Sandia Laboratory's Speakers Bureau has speech titles such as "A Separation of Magnetic Driving and Ohmic Heating" or "Adhesives, Sealants, and Synthetic Resin Applications."

But, the Bureau's offerings are not limited to technical subjects. Speakers are available on a wide variety of topics for any age group.

A glance at speaking activities for the past several weeks gives an idea of the scope of speeches.

Marcel Weinreich (3421) spoke on "Linguistics, A Profession for the World Citizen"; C. E. Jordan, (3231), "Communist Challenge to Americans"; Dean S. Wise (4233), "Rocks of Your Lives"; Max Linn (3420), "Alternatives to Armament"; H. D. Sivinski (7311), "Some Environmental Problems in Space Travel."

Other speakers and their topics were: Peter J. Komen (1422), "Principles of Radar"; Jerry Mayes (5423), "Pakistani Life"; T. D. Harrison (2561), "Military Code Conduct"; Percy Wyly II (3232), "Human Frailties"; and Al Goodman (7223), "Some Things The Future May Bring."

Examples of topics offered by other Sandia speakers are: Artificial Satellites; The Language of Motivation; Listening—A Tool for the Professional; Radio Link Telemetering; Auto Seat Belts; Church—Its Impact on the Individual, Home, Nation and World; Patterns for Espionage; Leatherwork; Mountaineering; Music; River Trips; and American History Research.

Any Sandia employee or community group may request a speaker. Contact Robert Gall (3431-1), ext. 43150.

Supervisory Appointments

MILTON R. MADSEN to supervisor of Shock and Vibration Division in Area I, 7324.



Milt has been at Sandia 10 years and has been a section supervisor for the past four years — first in Facility Design Section 7311-2

and currently in Vibration Section 7322-2.

Prior to employment here Milt graduated from the University of Utah with a BS degree in mechanical engineering.

During World War II he served as a pilot in the Army Air Corps.

Milt is a registered professional engineer in New Mexico.

MAX McWHIRTER to supervisor of Shock and Vibration Division in Area III, 7325.



Max has been with Sandia for 10 years and has been a section supervisor in the Environmental Testing organization for the past nine years.

Previously he was with New Mexico Institute of Mining and Technology for five years doing research work on thunderstorms.

Max received his BS degree in mechanical engineering from the University of New Mexico and did some graduate study while at NMIM&T. He is a member of the Society for Experimental Stress Analysis.

Max served in the Navy during World War II.

Switch to New Tech Area Badges Being Set for Sandia Employees

Sandia Corporation employees at both Laboratories will receive new Tech Area badges this fall in accordance with an AEC ruling that badges be changed every five years. To issue nearly 8000 badges in a single day, several organizations will need to operate on a very close schedule.

Badges will also be interchangeable for access to Livermore Laboratory, Tonopah Test Range, and Sandia Laboratory, depending on the needs of employees.

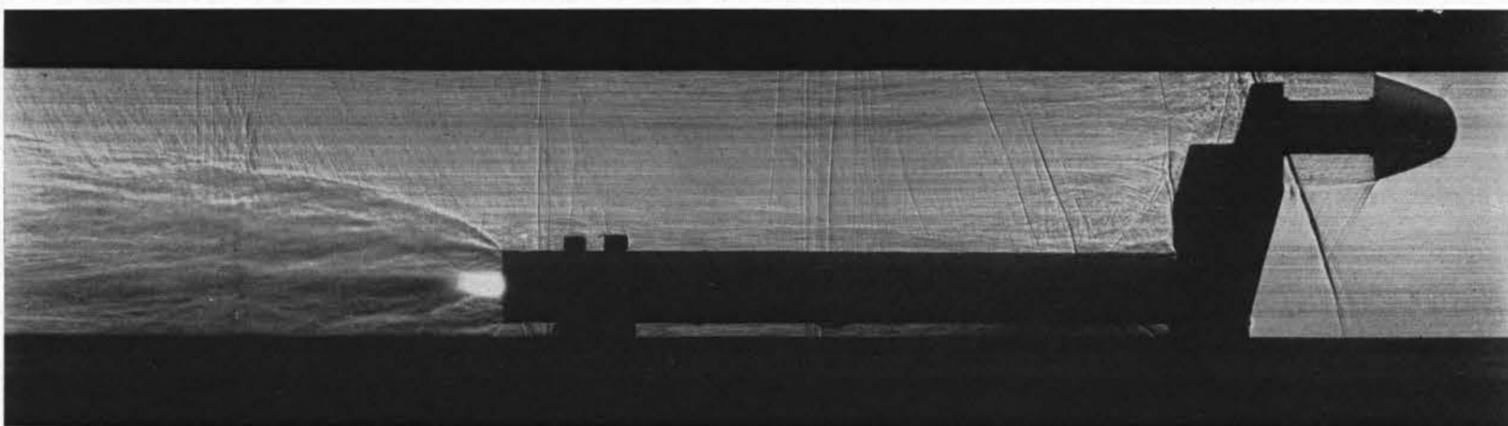
Spearheading the project at Sandia Laboratory is Security Studies and Education Division 3232, while at Livermore Laboratory the task is being handled by Physical Security Section 8241-1.

Badge identification data for employees, keypunched on IBM cards, will be transferred to badge inserts by Electronic Data Processing Department 3450.

Access and Administration Control Division 3241 will match the employee names with pictures, and laminate the badges at Sandia Laboratory. Security Section 8241-1 will perform the job at Livermore Laboratory.

Early in July Sandia Laboratory employees will receive an Employee Bulletin which will give the schedule for taking new identification pictures. Photographers from Section 3462-2 will be photographing employees during a three-week period at several locations in the Tech Area. Picture-taking started at Livermore Laboratory June 8.

Later in the summer, supervisors will receive instructions and materials for explaining details of the new badge system to their employees.



SHADOWGRAPH of a monorail rocket sled run shows formation of shock waves around the sled (dark lines in photo). The sled is

traveling here at just over Mach 1 or 1140 ft. per second. Photographers used a mirror system across track to record shock waves.

Monorail Rocket Sled Tests Cut Track Friction to Boost Vehicle Speeds up to 1420 ft. Per Second

A series of five tests using a monorail rocket sled have been conducted in recent weeks on Sandia's 3000-ft. track. The sled is the forerunner of a larger model to be used at the Holloman Air Force Base six-mile track. The sled in the Area III test achieved a speed of Mach 1.25 or about 1420 ft. per second.

A cone-shaped radome developed by Electronics Systems Department 1420 was mounted on the sled. This component will be tested late this summer in a series of rain erosion tests. A six-in.-per-hour rain will be simulated along 6000 ft. of track. The sled will travel at about Mach 3 for these experiments which will test radome coating materials, structure, and design.

"The monorail sled design was adopted as the only solution for tests at this speed," Dave Bickel of Track and Explosives Section 7323-1 says. When the sled rides on only one rail, friction is reduced and air drag cut tremendously.

The prototype sled, designed by Dave, is six ft. long and is about half the size of the sled to be used at Holloman. The rocket motor of

the prototype sled develops 6000 lbs. of thrust. The larger sled, being designed by Lester Luehring (7323-1), will use several different kinds of rocket motors which will provide a maximum of 38,000 lbs. thrust.

Tests on the prototype sled have proved the design of the sled and mounting of the radome. Also studied were several ways of braking the sled. In one, a metal arm on each side of the sled scooped into a water trough. This water brake slowed the sled which came to a stop when striking several sacks of sawdust laid across the track. Another was for the sled to plow into a 165-ft. polyethylene bag filled with water taped along 165 ft. of the track. This long tube of water effectively braked the sled.

During the runs at Holloman, the sled will reach velocities of about 3300 ft. per second or 2200 miles per hour. The rain system which the sled will enter is being designed by Marcel Reynolds of Facility Planning Section 7311-1.



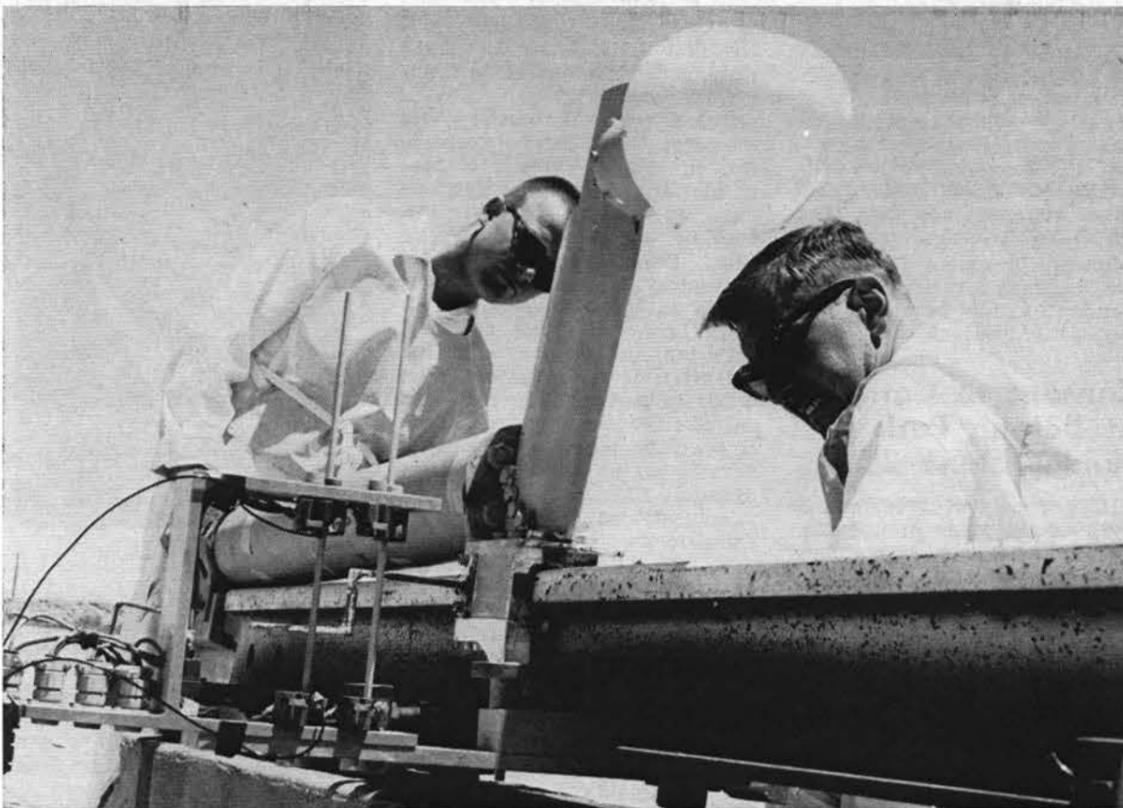
WATER FILLED polyethylene plastic bag, being filled by Dave Bickel, left, and Bill Kampfe, provides an effective brake to the monorail rocket sled which achieved a velocity of Mach 1.25.

Promotions

Marion M. Holmes (4213) to Inspector
Ora W. Nairn (4213) to Inspector
Harry P. Kovaschitz (4213) to Inspector
Martin A. Serna (4512) to Machinist
L. Noriene Felter (3421) to File Clerk
Amy L. Lawrence (3126) to Typist Clerk
D. E. Schweitzer (4135) to Invoice Clerk
Rosendo B. Lopez (4153) to Accounting Clerk
Roma S. Kessler (7512) to Data Reduction Clerk
William L. LaCombe (4132) to Tabulating Equipment Operator
Katherine A. Roger (4152) to Accounting Clerk
L. Eloise Perry (8223) to Assembler
Karen D. Lucas (8212) to Typist Clerk
Karen K. James (8212) to Stenographer Clerk
Coralyn K. McGregor (8233) to Staff Assistant
V. R. Mendenhall (8233) to Staff Assistant
John Unger (8151) to Staff Associate
Richard W. Gorman (8151) to Staff Associate
Phillip F. Sites (8151) to Staff Associate
Margaret G. Weitzel (3126) to Report Clerk
Hazel O. Whitlock (3126) to Typist
Phyllis P. Ciminski (3126) to Secretarial Typist
H. Suzanne Shelden (3126) to Secretarial Typist
Bernadine Demarest (3126) to Secretarial Steno
E. Jean Shaffer (3126) to Secretarial Steno
Anita P. Whatley (3461) to Tabulating Equipment Operator
Maxine E. Kessel (4135) to Invoice Clerk
Deana B. Piper (7512) to Data Reduction Clerk
Claire L. Grubbs (8212) to Secretarial Steno
Mary Ann Pino (3153) to Service Clerk
Vivian R. Hedman (4152) to Accounting Clerk
William Meador (4231) to Technician
N. E. Lariviere (4624) to Shop Clerk
James E. Silva (8124) to Technical Assistant
Robert L. Lachance (4211) to Staff Assistant
Raymond Falcon (8213) to Staff Assistant
Richard L. Starkey (4514) to Fireman
Bobby D. Kindswater (3461) to Message Center Equipment Operator
Diane M. Carlson (8224) to Record Clerk
Carol Sue League (3341) to Stenographer Clerk
William H. Carter (7536) to Staff Assistant
Reba K. Garrison (3126) to Receptionist
Virginia R. Travis (3423) to Service Clerk
Nina M. Stone (4423) to Typist
M. C. Fortenbury (2561) to Data Reduction Clerk
Marie E. Dillon (2644) to Production Control Clerk
Linda A. Beattie (3421) to Library Assistant
Janice M. Sharp (4423) to Service Clerk
Kenneth E. Guerin (2642) to Property Clerk
Janet R. Guber (3341) to Secretarial Typist
Janice E. Robertson (7120) to Secretary

Supervisory Lateral Transfers

R. R. Beach from 2541-1 to 2542-1
W. P. Thomas from 2541-3 to 2542-3
M. E. Bailey from 2543-4 to 2543-1
R. R. Preston from 2543-3 to 2541-3
R. T. Sylvester from 2543-1 to 2542-2
G. W. Krause from 2544-1 to 2541-1
J. A. Beaudet from 2544-2 to 2544-1
C. J. King from 2544-3 to 2544-2
A. W. Snyder from 5432 to 5433
K. C. Humpherys from 5432-1 to 5433-1
F. H. Schneider from 4332-2 to 4361-4
S. S. Harris from 4580 to 3440



READING monorail rocket sled for supersonic tests (7323-1). Sled rides on runners which clamp to run are Bill Kampfe, left, and Dave Bickel (both single rail of Sandia's 3000-ft. track in Area III.

R. E. Poole Consultant To Small Business Investment Firm

R. E. Poole, retired Vice President of Sandia Corporation's Livermore Laboratory, has become a consultant and member of the Technical Advisory Committee of Continental Capital Corp. of San Francisco.

Frank H. Case, Assistant Secretary of American Telephone and Telegraph Company, a member of the Board of Continental Capital, interested Mr. Poole in becoming a consultant. Continental is the only publicly-held, small business investment firm in Northern California operating under the license of the Small Business Administration.

Tech-Scientific Council Plans Annual Meeting

The Council of Technical and Scientific Societies will hold its annual meeting at Western Skies Hotel on Thursday, June 29. Representatives of the 10 member societies will attend.

There will be a social hour from 7-8 p.m., followed by dinner and a business session. Prime order of business is the election of officers for the 1961-62 year. The Council's annual report, describing activities of the past year, will also be presented.

For further information contact Frank Clinard (1121), ext. 43251.

Tellers Windows to Be Closed Until 10 a.m. July 3

Tellers' windows in Financial Department 6020 will be closed until approximately 10 a.m. on Monday, July 3. This is necessary due to year-end closing activities, reports C. Olajos, department manager.

Heads Secretaries Ass'n

Joanne Boyd (4600) was installed as president of the Albuquerque chapter of the National Secretaries Association at a dinner meeting June 13. This will be her second term as president.

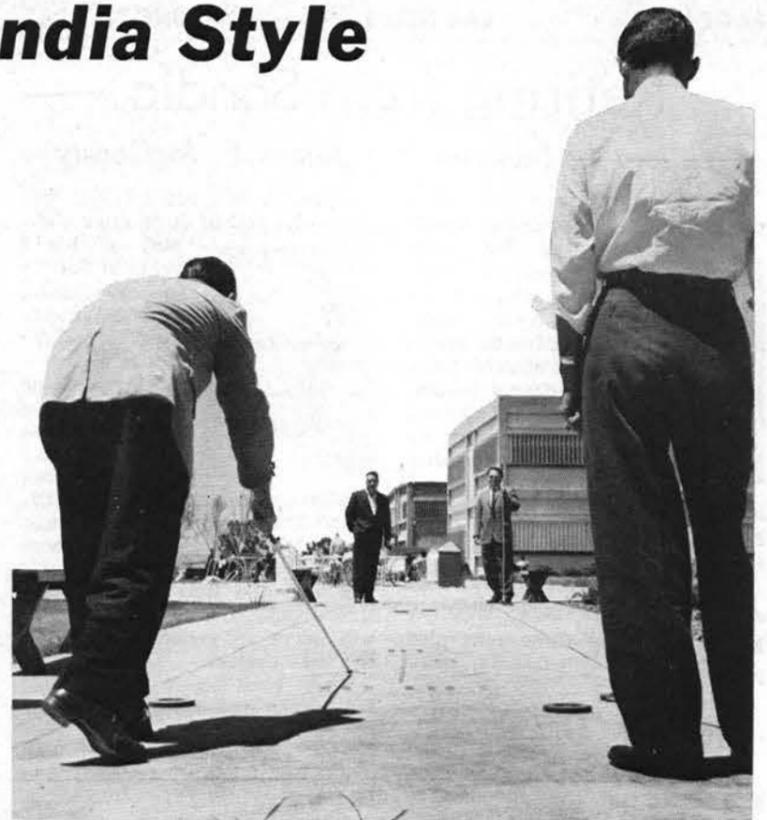
Edith Blum (4200) was also elected Division Director of the chapter.

ENJOYING THE LUNCH HOUR - - *Sandia Style*

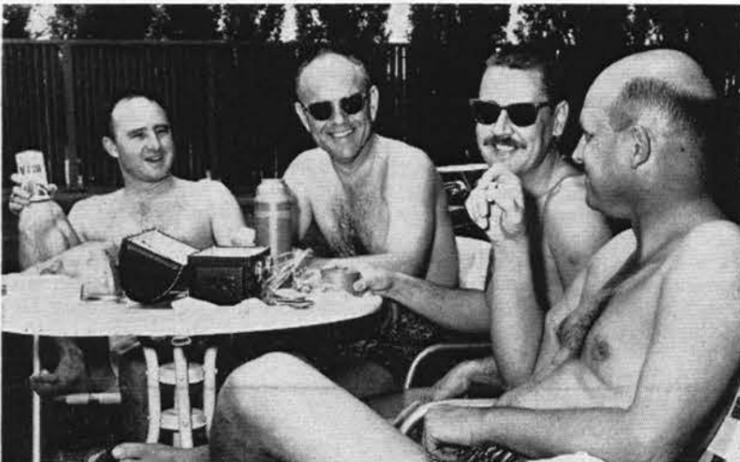


NOON HOUR ping pong tournament is conducted daily by employees in Bldg. 802 mail room. Here Bill Palmert is returning a wicked drive from his opponent Warner Jones (not shown). In left fore-

ground is Johnny Ayala. Onlookers in background are, from left, Tom Cleveland, Bud Leonard, Ralph Lovern, Joe Hernandez, Buddy Osborne and Bill Roche, who wait their turn in the tourney.



SHUFFLEBOARD provides noon-hour relaxation for many Livermore Laboratory employees. Here Dick Gorman (8151-1), left foreground, completes a shot as Bert Folks (8161-3) awaits his turn. Looking on are Chad Shanabarger (8151), Bill Carter (8114).



QUICK PLUNGE in the Coronado Club's swimming pool is followed by pleasant lunch in shaded patio area for this group of Sandians. From left are Elwin Schaefer (4543), Brad Shaw (4542), Robert Sharp (4541) and Hyder Burress (4543).

NOON HOUR RECREATION



AIMING FOR RINGER, Alvin Plant (4233-1) tosses a horseshoe during noon hour game. Marvin Harvey (4224) waits his turn at right. Horseshoe courts throughout the Tech Area see lunch hour workouts.



POPULAR PASTIME during noon hours at Livermore Laboratory is this 18-hole putting green. Practicing short shots to improve their game are (l to r): Lou Guintard (8116-2), Jack Foster (8165-2), Irmal Brown (8116-2), and Clarence Lovelace (8165-1).



OUTDOOR LUNCH is enjoyed by this pretty quartet at one of Sandia Lab's patio areas. From left are Ann Ercole (5421), Betty Trump (5421), Sara Jane Dickinson (5110), Jan Willis (5112).



KRIEGSPIEL, an innovation to conventional chess, occupies the noon hour for Neil Givens, Phil Mead (both of 8233-1), and Ruth Burns (8223-1). Phil umpires while Neil and Ruth kabitz.



READING is the noon hour activity preferred by Lola Todd (3412).



FAST GAME of badminton is enjoyed by these employees from Bldg. 828 during noon hour. Reaching to return a high one is Marvin Daniel (2442). Louise Lasley (2442) is waiting in foreground while Fred Callahan (2444-3) watches at right.



OBLIVIOUS to all, this Sandian takes an easy snooze in the sun.

Retiring from Sandia

William L. Dickens

William L. Dickens will retire the end of this month after working for more than 11 years at Sandia's steam plant (Division 4514).

With his newfound leisure, Mr. Dickens plans to do more hunting and fishing and in August he and his wife hope to go to Denver and Grand Junction, Colo.

They will continue to live in Albuquerque (at 2434 Alvarado NE) since their three sons also are here.

Glenn O. Thornburgh

A two-month vacation is the first thing on the agenda for Glenn O. Thornburgh, who's retiring from Sandia Corporation on June 30. He has been an electrician at Salton Sea Test Base, Calif., in Building and Maintenance Section 4581-1 since April 1952.

Following his vacation, he plans to work a year or two in Indio, Calif. Mr. Thornburgh enjoys traveling and camping, and also is a lapidary.

He and his wife live at 82-871 Kenner St. in Indio. The couple has three children and 10 grandchildren.

Jess R. Adkins

Jess R. Adkins, supervisor of File Section 4333-2, will retire from Sandia Corporation June 30. He has been with Sandia for 12 years.

Mr. Adkins and his wife will make their home in Prescott, Ariz., where they purchased a home at 421 Highland Ave. three years ago. "In the winter the population is about 13,000," he said, "but in the summer it increases to 17,000. Due to the 5300-ft. elevation and nearby mountains, Prescott is popular with those living in southern Arizona."

With good fishing and two golf courses the Adkins expect to enjoy living there.

They have three sons in Albuquerque, Hobbs, and Ogden, Utah.

Thomas C. Gallagher

Thomas C. Gallagher will retire from Sandia Corporation June 30. He has worked in Technical and Trades Training Division 3132 during his five years at Sandia.

Prior to coming to Sandia, Mr. Gallagher was a school administrator in New Mexico and California for about 25 years. During this time he took a five-year leave of absence to serve as vocational counselor and chief of the VA Guidance Center in California.

He plans to spend most of his time attending to his 60-acre farm and several other business interests. Later on he may do some traveling.

Mr. Gallagher and his wife live at Route 1, Box 703, Albuquerque. They have four children and four grandchildren.

James E. McGoorty

James E. McGoorty (2564) will retire the end of June after eight and a half years at Sandia in purchasing and engineering organizations.

Terminating at the same time will be his wife, Mae ("Mij" to her family), who has worked in Division 3126 for the past five years.

The McGoortys own a half acre of land alongside Elephant Butte reservoir and they plan to build their home there. Mr. McGoorty will serve as general contractor for that project.

From then on it will be fish for dinner and enjoyment of the patio.

The couple has a son and daughter living in Chicago and nine grandchildren.

Leo S. Maddy

Leo S. Maddy, a Sandia employee at Salton Sea Test Base since 1956, will retire June 30.

Mr. Maddy has served at Salton Sea as head meteorologist coordinating his forecasts with those issued at Sandia Laboratory in predicting weather for drop tests. Upon occasion he carried out similar studies at Tonopah Test Range, Nev.

This will be Mr. Maddy's second retirement. Before going to work for Sandia Corporation he had retired from the Marine Corps with the rank of Colonel.

Mr. and Mrs. Maddy will make their home at Silver Eagle Ranch, Agoura, Calif. They have two sons.

Helen C. Hoppin

Retiring on June 30 from Sandia Corporation will be Helen C. Hoppin, secretary of Department 4580 at Salton Sea Test Base, Calif. She has worked at Salton Sea since January 1954.

Mrs. Hoppin is quite a bowler and won several awards in the recent California state tournament. Now that she's retiring, she plans to do a lot more bowling, fishing, hunting, and knitting.

She and her husband live at 44-888 King St., Indio, Calif. Mrs. Hoppin has three children and four grandchildren.

Guy Johnson

Guy Johnson, a Sandia employee for 13½ years, will retire on June 30. He works in Marine and Motor Pool Section 4581-2 at Salton Sea Test Base, Calif.

Mr. Johnson's future plans are uncertain, but he is going to devote a lot of time to his hobbies. He's a pretty good carpenter and likes to build luggage trailers. And he also raises beagle hounds.

Mr. Johnson and his wife live at 505 West "D" St., Brawley, Calif. They have three children and eight grandchildren.

Elected President Of Organ Society

John Harner (1424-2) was installed June 20 as president of the Albuquerque chapter of the Hammond Organ Society.



PACK SADDLES are strapped on burros by Frank Beers (8155-1) and Jim Wright (8155-2) as they prepare to embark on a nine-day hike with 12 members of the Livermore Explorer Scout Post 939. The little beasts of burden will each haul 150 pound packs.

Livermore Lab Men Leading Scouts On 50-Mile Back Country Expedition

Take two burros named Charlie and Pecos, add three Sandians, mix with 12 Explorer Scouts, stir in some enthusiasm, and you end up with the perfect recipe for a pack trip into the back country near Yosemite Park.

Cooking up the trip were Livermore Laboratory employees Frank Beers (8155-1), Howard Reed (8164-1), and Jim Wright (8155-2). With the Scouts, burros, and camping gear packed into three trucks, they left Livermore last Friday, headed for nine days of hiking and camping in the Emigrant Basin Wilderness Area of the Stanislaus National Forest. When they return to civilization Sunday, they will have covered up to 50 miles on foot.

Go On Foot

First stop on the trip was expected to be an old pack cabin near Pinecrest, Calif., where they planned to unload the trucks and spend the night before starting on the hike the next day.

During the trek, they hoped to stop along the trail at such picturesque places as Chewing Gum Lake, Bell Meadows, five miles from where they began, is their

final destination and trucks will be waiting there for the trip home.

Frank, who organized the trip, is an advisor to Explorer Post 939, and has been active in Scout work for many years, starting out as a Scout. Howard, another old hand at Scouting, has served as a member of the post's advisory committee and also as assistant Scout master of Troop 939. Jim is a relative newcomer to the group, taking his first "shake-down" hike last month under Frank's tutelage.

"It Was Relaxing"

"It's a wonderful way to spend a vacation," said Jim, adding, "It's relaxing just to get away from the daily routine."

The burros were rented to the Explorer Post by the Oakland Area Council of the Boy Scouts of America "at the ridiculous low figure of 50 cents a day," Frank said. Before the hike they were pastured temporarily at the five-acre ranch of Lee Davies (8110).

"They seem to be intelligent animals and willing to work," said Frank before the trip, "but I might have a different idea when we get back."



Phil Arnold



R. E. Berry



Pearson Crosby



Bob Elsbrock



Paul Jones



Ed Ronan

Coronado Club Members to Elect '61 Directors June 26

Coronado Club's annual meeting will be held on Monday, June 26, at 7 p.m. Agenda items include the election of six new directors and a report on the club's activities for FY 1961.

The current board of directors has proposed the following names for new directors: Phil Arnold (3453), Bob Berry (7185), Pearson Crosby (AEC), Bob Elsbrock (3311), Paul Jones (2561), and Ed Ronan (7133). Other nominations will be accepted from the floor.

Eligible voters must be active members of the club who are not delinquent in payment of their dues and who have not joined or rejoined the club within 10 days preceding the meeting. A quorum of 100 members is required for the election.

Following the meeting, refreshments will be served.

R. H. Carls Cited For Service Given Eastern Fire Department

Robert H. Carls, an employee of Field Inspection Division 2341 in Perkaspie, Pa., recently received commendation from the Perkaspie Fire Company. Mr. Carls had instructed the company in first-aid instruction that came in handy during a six-alarm fire recently. Ten of the firemen were injured during the blaze and Mr. Carls was on hand to help.

"We sincerely thank you for the aid given to all the men who were injured during the fire," a letter from the Fire Company read, "... words fail to express our thanks for your time and skill."

Radar Warning Signs To Be Used On Sandia Base

Five thousand nine hundred and sixty eight traffic citations were issued on Sandia Base during the 12-month period after July 1, 1960.

Col. H. Balish, Sandia Base Commander, has commented that though issuing citations and warnings, and revoking and suspending driving privileges are not desirable, such actions will continue as long as traffic violations continue.

More common violations are speeding, improper backing, failure to yield right-of-way, jaywalking, and using streets in housing areas as thoroughfares.

It has been announced that the use of radar speed meter on Sandia Base will continue, but that a warning sign indicating "radar ahead" will be used by Military Police.

J. W. Reed Presents Paper at Texas Western

Jack W. Reed (5112) presented a technical paper at the Symposium on Atmospheric Acoustic Propagation, which was held at Texas Western College in El Paso June 14-16.

His subject was "Shock Propagation at Large Distances."

Carl Longerot Pitches No-Hit Game Over 4200

Carl Longerot (1432) pitched a no-hit game against the 4200 team on June 14. He faced only 23 batters in the seven-inning contest, walking two and striking out 11. The 1300-1400 team won the game, 2-0.

Carl, in winning 11 of the 12 games the 1300-1400 team has played, has yielded less than two earned runs per game, with an average of four hits per game. He has struck out an average of eight batters per game.

SOFTBALL STANDINGS As of June 19, 1961 National League

Team	Won	Lost
3400-4100	8	1
4200-II	7	2
1100	7	3
1300-2500-4600	7	4
AEC	7	4
4400-II	5	6
7100-II	5	4
7300	4	6
2300-4300-7200-II	3	6
7200-I	0	10
American League		
1300-1400	11	1
7100-I	9	2
2600-3100-4500-6000	6	4
4200-I	4	7
4300-7500	4	7
4400-I	3	4
2400-2500	2	9

Welcome Newcomers

June 5-16

Albuquerque	L. Sandra Borgtrink	3126
	Adela Bowen	3126
	*Bonnie D. Conley	3126
	Jimmie L. Cornwell	3461
	Geraldine Davenport	3126
	Kenneth D. Harper	4543
	Mary F. Kahl	3126
	*Marian J. Moyer	3421
	Charles A. Nelson	7212
	Luther W. Rook, Jr.	1443
	Bernice I. Snider	4361
Alabama	Walter L. Green, Auburn	7145
	Wilford D. Raburn, University	2564
Arizona	Harvey Frauenglass, Flagstaff	3423
	Edward L. McKelvey, Tucson	2344
California	Richard J. Wilhite, Los Angeles	3465
Idaho	E. J. Freeman, Jr., Springfield	3311
Indiana	Charles L. Braun, Indianapolis	4412
	Gary M. Connell, South Bend	7323
	Bernard J. Schroer, Indianapolis	4412
	Robert P. Wemple, Milford	4421
Iowa	Donald D. Glower, Ames	5432
	Ronald E. McClellan, Ames	7322
Kansas	Daniel C. Jones, Manhattan	2563
	Billy Joe Thorne, Manhattan	7242
Kentucky	Thomas F. Steeley, Lexington	2533
Missouri	Charles W. Boots, Kansas City	1113
	John A. Case, Rolla	2534
	John F. Damke, Rolla	7323
	John H. Sneathen, Kansas City	7323
North Carolina	Ned A. Sigmon, Raleigh	7323
Oklahoma	Dale F. Warnke, Norman	5433
Texas	J. Ronald Hollingshead, Fort Worth	7323
	Robert L. Hughen, College Station	7117
	Clinton F. Hurley, Jr., Abilene	3423
	Samuel B. Martin, Jr., Lubbock	2563
	Michael B. Merritt, Arlington	4412
	Jerry D. Ramsey, College Station	2561
	Kenneth L. Vavra, Arlington	4412
Washington	Robert H. Taylor, Seattle	3461
Returned from Leave	Frank Biggs, Fayetteville, Ark.	5113
	Arthur M. Hill	3131
	Robert E. McElderry	2421
	Edward L. Patterson	2564
	Robert E. Pearcy	1111
	Thomas M. Schultheis	7222
	Gerry K. Smith	1424
	Gary L. West	7222

* Denotes rehired

Sandia Employees Are Buying More U.S. Saving Bonds This Year

M. A. Lantz Died After Long Illness

One of Sandia's first employees, Marion A. Lantz (4411-4), died June 15. He had been in ill health for the past four years.

Mr. Lantz transferred to Sandia from Los Alamos, where he



worked in the model shops. He has worked in Sandia's machine shop and Design Definition Division.

Survivors include his widow, a son, Jerry, in Albuquerque and a daughter residing in Santa Cruz, Calif.

An increase of 13 per cent in the number of Sandia Corporation employees purchasing U. S. Savings Bonds through payroll deductions was reported last week.

Ninety-seven more employees signed up for bond purchases at Sandia Laboratory. They are buying \$1890 worth of bonds per month.

At Livermore Laboratory, 33 employees are purchasing bonds worth \$620 monthly.

Sixty-one employees at both Laboratories already purchasing bonds through payroll deduction increased their purchases by \$685 per month.

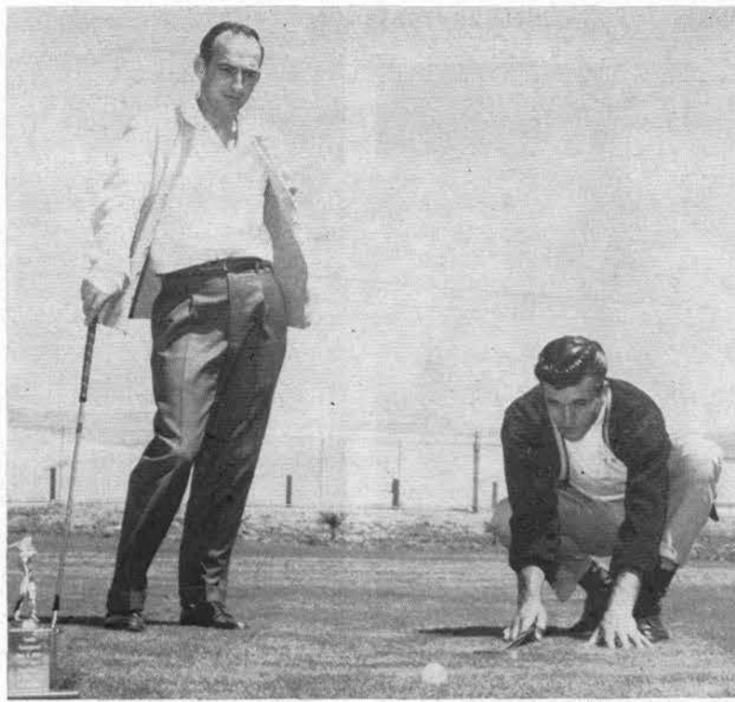
These figures represent additional purchases of bonds over the \$20,000 per month bought by 954 employees who have been using the payroll deduction method for a year or more.

With the new purchases, 1084 Sandia Corporation employees are buying an annual total of \$275,000 in U. S. Savings Bonds.

Sandia Employees Invited to Join Industry Net

Interested Sandia Corporation amateur radio operators are invited to sign into a net for employees of the atomic industry. The net will be called each Wednesday, starting July 4, at 8 p.m. MST on 7011 kc's.

Net call will be AEN. NCS will be W5ZHN with W5PDO/W5DWE as alternate NCS. Further information may be obtained by writing Carl Franz (1321), W5ZHN, at 2323 Krough Ct. NW, Albuquerque.



JUNE GOLF TOURNAMENT winners at Livermore Laboratory are Gordon Van Gundia (8156-1) left, and Bob Joseph (8232-3). Gordon shot a low gross score of 75 and Bob's low net was 64.

John Leslie Serving On Albuquerque's Museum Committee

John C. L. Leslie (3431-2) has been chosen a member of the board of directors for the proposed museum for Albuquerque.

As chairman of the Name and Scope Committee, John helped to choose the name of the new museum. It will be called the Albuquerque Museum, a name general enough to include all phases of museum activities.

Four exhibit areas are now planned: science, history, art, and regional.

Two Sandians Speak In Las Vegas to Health Physics Group

Dr. S. P. Bliss (3300) and H. L. Rarrick (3311-2) both presented technical papers concerning biological effects of radiation at the International Health Physics Society meeting in Las Vegas, Nev., June 12-16.

Chairmen of technical sessions for the meeting were W. H. Kingsley (3311) and W. D. Burnett (3311-2). A Sandia Corporation exhibit was prepared by Community Relations Section 3431-2 for the four-day conference.

Sandia Service Awards

15 Years



Albert R. Mandell
7161
July 2, 1946



Paul L. Dailey
7254
July 5, 1946

10 Years

June 24-July 7

Jack W. Garriott 7232, Julian E. Gross 1413, Omar H. Heins 4543, Roy P. Lambert 7524, Milton R. Madsen 7322, John W. McKiernan 7147, Charles F. Selby, Jr. 2621, Fayne L. Shead 2621, Kurt R. Baars 4151, James E. Baylor 3211, Jose T. Gomez 4511, Velta May Hampton 4516, Zena Ivey 3126.

Gurdon R. Miller 3423, Betty G. Vangundy 4131, Robert Earl Evans 4412, Alan Pope 7130, Mary O. Sumpter 4333, Joseph B. Boyd 7125, Edith J. Irwin 4623, Mae L. Johnson 4632, Stanley R. Pickens 8234, T. A. Rosenwald 4542, Howard B. Durham 1422, Jesse B. Edgar 4412.

D. M. Fenstermacher 7224, Jay W. Grear, Jr. 1432, Robert G. Hamilton 7321, William A. Little 8122, Lovella L. Montoya 3423, Robert K. Parry 2444, James D. Smith 7212, Francis E. Thompson 7232, Francis X. Vogel 4542, Loren B. Converse 8123.

Joseph H. Lackey, Jr. 4412, Chester J. Ricker 3111, Wilbert A. Sherman 7511, Mildred D. Smith 4233, Charles S. Stack 4211, Eloine M. Whitehill 2722, Richard L. Ballard 8212, Evelyn J. Cook 4423, Theodore F. Pfeffer 4624, Bruce G. Scott 4623.

Trains Best Dog

Ken Gray's long hours of patience and skill have paid off. His 14-month-old wirehair fox terrier "Kashares Mashanta Kachina" took top honors in two dog shows in two days. The dog was judged best in variety in a recent show at Pueblo, Colo., and repeated the performance the following day in a show at Derby, Colo. Ken, who works in 7212, reports that "Kashares" now has eight points toward the 15 required for a championship title.

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

- '51 NASH TUDOR, OD, five tires, \$195. Thompson, AX 9-2273 after 5 p.m.
- MOTOR SCOOTER, Cushman, \$50. Kraft, AX 9-2157.
- WEDDING DRESS of Chantilly lace and net over slipper satin, floor length w/short train, \$30. Daniel, AL 5-8457.
- BAGS, Samsonite VIP case, Boston brown; club bag, blue; ladies cloth bag; golf shoes, black, size 9C. Ruff, AM 8-9969.
- TOTE-GOTE two-wheeled trail scooter, \$250. Kingsley, AX 9-1226 after 4:30 p.m.
- 3 BDR, carpeted, 1 3/4 baths, pitched roof, air conditioned, gas forced air heat; portable electric heater, heat regulator, \$10. Karels, AX 9-7764.
- '60 FORD pickup, 1/2 ton, 10,000 miles, extras, below book. Harrington, BU 2-3114.
- CAR COOLER, window-type, used one trip to Calif., \$8. Leonard, AX 9-4684.
- '50 MERCURY Club Coupe, \$250; 12-volt car cooler, \$20. Wilson, AX 8-0049.
- MOTOR BOAT, 14' aluminum w/trailer, 25 hp Elgin motor; water skis and other equipment included. Buchanan, AX 9-7487.
- MOSSMAN, 4 1/2 FHA, 3 bdr, 1 3/4 baths, fully carpeted, air conditioned, forced air heating, sprinklers, screened patio. Swing, AL 6-6403.
- TWO 8:00x15 tires, \$3 each. Bentz, AM 8-8267.
- QUART FRUIT JARS; used steel casement windows, 4323, 3222, 2212; venetian blinds for 4323, 3222, 3323; panel ray heater, best offer. Stromberg, AL 5-6131.
- TIRE, 900x14, tubeless, wsw Seiberling, \$15. Pewe, 1504 Monroe Pl SE, AL 5-3518.
- ELECTRIC RANGE, Kelvinator, deluxe w/separate broiler unit, original price \$270, selling \$85. Johnson, 8703 Aztec NE, AX 8-1011.
- JEEP STATION WAGON, 4-wheel drive, F-head, 4-cylinder, mud-grip tires, R&H, best offer. Ward, DI 4-7358.
- '52 PONTIAC Catalina hardtop, automatic transmission, R&H, 6500 miles since complete engine overhaul, \$250. Volk, AX 9-1702.
- CUSHMAN motor scooter, red, new tires, \$95 cash. Johnson, AX 9-8980.
- 3 BDR, 1 3/4 baths, family-Dr, utility w/220, built-in range, Spanish fireplace, vigas, sprinklers, landscaped, walled, \$16,000, no qualifying. Hewitt, AM 8-2563 or AM 8-2822.
- EVAPORATIVE COOLER for one room, portable, \$10. Whelchel, AX 9-1134.

NEXT DEADLINE

FOR SHOPPING CENTER ADS
Wednesday Noon, June 28

- UTILITY TRAILER, metal, completely enclosed, absolutely weather proof; portable evaporative cooler and stand. Cummings, 104 Atrisco Dr SW.
- AKC registered Chihuahua puppies. Waldorf, CH 3-4017.
- '58 JAGUAR, XK150S RDSTR, w/hard top. Spellman, 405 Chama SE, AL 5-8511.
- WALNUT LIBRARY (desk) table, \$15; bookshelves, \$5; day-bed couch, \$20; kitchen table w/six chairs, \$85. Farrell, AX 9-4938.
- SELL OR RENT 4 BDR, large family room, patio, 1 3/4 baths, near schools and shopping, available June 26. Pritchett, 1622 Vermont NE, 298-3706.
- CUSHMAN Highlander scooter, much new equipment, reasonable. Gary, 1915 Dakota NE, AL 6-7325.
- CRIB, Storkline with Kant-Wet mattress, \$20. Sanchez, AM 8-5427.
- EDEN BILTMORE, 3 bdr, 2 baths, family room, fireplace, walled, colored fixtures, planter, built-in mahogany bookcase, assume mortgage, save closing costs. Davis, AX 9-9079.
- 30-INCH GAS RANGE, \$40; umbrella-type clothes pole complete w/plastic line, \$8. Miller, 2904 Dakota NE, AM 8-1939.
- '56 KARMANN-GHIA coupe, new w/tires, seat upholstery, \$1095. Tinsley, AL 6-2393 after 5:30 p.m.
- '55 DODGE V-8 Royal Lancer hardtop, PB, PS, torqueflite, new tires. Shead, AL 5-5309.
- 1 HP 110/220 V water pump and pressure system, Sears, 2 years old, cost \$229, sell \$100. King, DI 4-5361.
- CRIB AND MATTRESS, full-size, \$20. Sasser, 1221 Parsifal NE, AX 8-1439.
- CHILDS SWING and glider set, \$5. Barber, AX 9-4287.
- 1930 MODEL A FORD Cabriolet, submit offer. Schofield, AM 8-0956.
- CALORIC GAS stove, \$89; stroller, \$250; baby buggy, \$8; Hollywood bed frames, \$8; Underwood portable typewriter, \$25. Meyer, AX 8-2752.
- SIAMESE KITTENS, cheap, house broken, 12 weeks old. Uhl, 501 Charleston NE, AM 8-1855.
- FOR BABY'S Room, clown lamp, \$250; circus parade plaque, \$150; striped circus curtain canopy, \$6. Parks, AM 8-0875.
- PIANO, upright, black and tatami exterior, \$85; rattan chaise lounge w/pad, \$15. Schatz, AL 5-2854.
- ROOM COOLER, portable; wringer-type washer. Fuhrman, AM 8-8724.
- ACCORDION, Amerano, Italian made, red and white. Heath, AL 5-5418.
- 21" TV table model Bendix, \$65; child's wading pool w/slide, 5x8 ft., or trade for anything of equal value. Whitehill, AX 8-0131.
- '52 FORD Fairlane coupe, factory rebuilt engine w/4000 miles, best offer. Walter, 9916 Toltec Rd NE, AX 8-0627.
- '59 GERMAN WARTBURG (Auto-Union), 4-dr, 5-passenger, limousine, extras, \$550, will finance part, less for cash. Wilcox, AX 9-5543.

- KENMORE 30-in. gas range, w/griddle, wide oven, timer; Blizzard 330 portable air cooler, 2-speed motor, \$25; Wizard evaporative type car cooler, \$8. Amos, 298-4470.
- SINGER, featherweight portable sewing machine, complete accessories, \$100. Braudaway, AX 8-2486.
- ELECTRIC DRILL, 1/4 inch, hand plane, edge plane, top and die set, other misc. hand tools. Sinnott, AX 9-1300.
- BY OWNER, 3 bdr, den, Raberson, 4 1/2% GI, some extras, \$16,500 with \$1000 down, willing to bargain. Heinz, AX 9-4821.
- ROLLAWAY BED, coil spring 3/4 size, 48-inch, w/mattress, \$30. Glenn, AX 9-2743.
- COCKTAIL DRESS, full skirted, of pink crystalline, w/matching duster, fits sizes 12-14, \$10. Cox, AX 9-4288 after 5 p.m.
- '61 VOLVO, 4-dr, red w/gray top, 7000 miles, white sidewalls, leather upholstery, \$2400, will consider trade. Pickens, AX 9-1455.

WANTED

- TO TRADE Homart 20-in. window fan, 2-speed forward and reverse, w/timer for 8 books trading stamps, original cost \$65. Jones, AX 8-1391.
- RIDE from vicinity of 59th (West Central) to Bldg. 802. Wadley, CH 7-4630 or CH 3-3405.
- GREEN STAMPS; will trade 2 books Thunderbird and 6 books Frontier. Gragg, AX 8-0267.
- HOME FOR KITTENS, 7 weeks old. Harrington, BU 2-3114.
- WILL TRADE two adobe houses in Santa Fe for Albuquerque property, preferably income. Martinez, 2817 Truman NE, AL 6-1062 after 5 p.m.
- LAWN WORK during summer months. Minter, AL 6-9226.
- 26-IN. balloon fire girls bicycle with good tires and tubes. Baxter, DI 4-7601.
- TRADE one each new 1961 Coin Hand-book (blue book) and Guide book (red book) for one book S&H green stamps. Groll, AL 5-9638.
- TRADE MANKIN 3 bdr, 1 3/4 bath, air conditioner, sprinklers in Carlisle Plaza for home in vicinity of Eubank and Menaul. Gross, AX 8-1500 or DI 4-4155.
- WILL CARE FOR children in my home, close to base. Chaney, 9501 Woodland Ave NE, AX 9-6872.
- RIDE WANTED from 1217 Kentucky NE, near Louisiana and Lomas, to vicinity Bldg. 892. Eastman, 256-4815.
- GIRLS 26-in. bicycle. Haverty, DI 4-1206.
- HOMES FOR 6 weeks old half Collie, half wall jumper puppies. Kurowski, 3212 LaVeta NE.
- TO TRADE complete 8 mm home movie outfit for pickup. Garcia, AM 8-5323.
- WILL BABYSIT in my home for working mothers, experienced, reasonable, near base. Edens, 7901 Southern SE, 268-7304.
- RIDERS wanted from vicinity of 12th and Menaul NW to Bldg. 802. Lang, DI 4-1917.
- SWAP Buster Crabbe swimming pool, 16 x32-ft. for 15-ft. camper trailer, swimming pool valued at \$1395. Disch, AX 9-1201.
- RIDE from vicinity of 200 block Wyoming NE to gate 7 or 8. Davenport, 256-7987.
- SEARS OR WARDS lawn mower, not powered, 14-16-in. cut; must be in excellent condition. Hill, CH 3-3493.

- CHILD to take care of in my home, preferably a girl over 2 years old, 5 days a week. Fjelseth, AX 9-4539.
- GERMAN WW II medals, arm bands, banners, daggers, etc. Deeter, AL 5-5789.
- RIDER, DRIVER to share in car pool from Belen. Griego, ext. 24144.
- BOYS 24-in. bicycle. Merillat, CH 2-4873.
- HOMES FOR KITTENS, three, free, all-cat. Bowen, AX 9-1810.
- HOMES FOR Calico Kates grandkittens, housebroken, personable characters, available July 4th. Johnson, AL 5-8851.

FOR RENT

- 2-BDR APT., air conditioner and appliances, nice view. Kollman, AL 6-6761.
- 2-BDR HOME, w/w-carpet, drapes, refrigerator, electric range, walled back yard. Passmore, CH 2-5178.
- 3 BDR HOUSE, 1 3/4 bath, completely furnished, air conditioned, patio, children and pets welcome, \$150. Bascom, 8706 Candelaria NE, AX 9-1662.
- 2 BDR HOUSE, unfurnished, carpeting, drapes, stove and refrigerator, near bus, \$80. Coombs, CH 2-9321 after 5 and Sundays.
- 2 BDR APT w/stove, refrigerator, ac, water and garbage paid, storage space, redecorated, 528 Cardenas SE. Tillman, AL 5-6292.
- 6-ROOM HOUSE, NE Heights, air conditioned, carpeting, drapes, gas range furnished if desired, walled yard, water, garbage paid, \$95. Seaburn, AM 8-9560 after 5 p.m.

LOST AND FOUND

- LOST—Kohinoor drafting pencil, bifocal safety glasses, silver and black tie bar, brown wallet with ID of Robt. Eiler, ladies silver Westlock watch with expansion band. LOST AND FOUND, ext. 26149.
- FOUND—Safety glasses, keys on spring clip, key No. AA261, pink button earring, ivory bone knife with cork screw. LOST AND FOUND, ext. 26149.

FOR SALE AT LIVERMORE

- RCA PHONOGRAPH, Model 45-EY-2, 45 rpm, amplifier, automatic, new idler wheel, \$15. Dietel, Ext. 2539.
- '59 FORD V-8 Fairlane, two door sedan, R&H, WW tires, automatic transmission, \$1435. Strandin, VI 6-4601 after five.
- '56 CADILLAC, Fleetwood, white, all power equipment, air conditioned, desire to trade or sell outright for \$1725. Branson, Ext. 2407.
- POWER MOWER, Sunbeam rotary type, 2 1/2 hp, 1 year old, \$40; bathinette, \$5; electric bottle sterilizer, \$4; infant seat, \$3. Dickson, HI 7-3622.
- THOR electric motor, 1-3 hp, \$8; Delco electric motor, 1/4 hp, \$8; bench mandrel, \$250; all three for \$16. Ostrander, HI 7-2616.
- UNITRON professional telescope, 3-inch Altazimuth refractor, 5 eyepieces, 48 to 171 power, carrying cases, \$220. Snapp, HI 7-5454.
- ROTO-SPADER, 3 1/2 hp, 4-cycle Briggs & Stratton engine, tiller, extension tines, \$75 or trade for cement mixer. Guintard, VI 6-2980.
- OLSEN reversible rug, 12'x17', taupe tweed. Walker, HI 7-4887 after 5 p.m.
- SKIN DIVING equipment: Voit aqua lung, regulator; 25 lb. weight belt; divers float; wet suit; Voit depth gauge; make offer. Baldwin, HI 7-4553.
- '59 METROPOLITAN, red and white. Ford, HI 7-6142 after 5 p.m.



KATRIN ONNEN, an American Field Service exchange student from Germany, has spent a year in the Chuck Littrell (3242) home while attending Sandia High School. She leaves today to return to her home in Hanover where her family recently moved.

German Girl Spends Year With Chuck Littrell's Family

Last year Chuck Littrell's (3242-2) daughter casually mentioned that Albuquerque schools were looking for homes for foreign students to stay in during a year's study in the U.S.

She didn't realize she was starting the wheels turning to bring a student into their home.

While the Littrells filled out questionnaires, Katrin Onnen of Hildesheim, Germany, waited for results of two examinations which determined who would participate in the American Field Service (AFS) student exchange program.

Out of 150 students taking the exams in her area, Katrin was one of 10 chosen. Altogether, 1800 European students of high school age came to America, and an equal number of U.S. students went abroad. Germany had the largest representation with 200.

Similar Environments

The American Field Service tries to find similar environments in selecting homes for the students. Chuck has two daughters, 17 and 11; Katrin, who is 17, also has a 10-year-old sister. All four are interested in music and play several instruments.

As a senior at Sandia High School, Katrin was a member of the Student Body Council, National Honor Society, Tri-Hi-Y, secretary-treasurer of the Girls' Chorus, and honorary vice president of the German Club. She also played the lead in Sandia's operetta.

Katrin remarked that in Germany only academic subjects, such as science, mathematics, and

languages, are taught. "Here in the U.S.," she said, "you can take psychology, sociology, and other subjects which help prepare you for adult life."

Although she graduated from Sandia High School, Katrin still has two and one-half years of high school left in Germany. Under her country's educational system, there are four years of elementary school, and nine years of high school.

Had Studied English

Katrin speaks English very well; she studied it for five years in Germany as a required subject. She feels that U.S. students going abroad probably find their studies more difficult, mostly because of the language barrier.

The Littrells had an unexpected house guest during Katrin's stay here. The mayor of Hildesheim was among a group of foreign visitors observing Albuquerque's City Manager type of government, and he contacted Katrin for a short visit.

Katrin leaves Albuquerque today, and will join a busload of AFS students in Tulsa, Okla. A total of 55 buses will tour the U.S., ending up in Washington, D.C., for several days. The students will leave New York for Europe on July 27.

Chuck and his family think it's been a wonderful, educational experience having Katrin in their home. They've corresponded with her parents, and hope someday to go to Germany to see them.

Would they do it again? Well, Katrin has a younger sister.



WINTER PISTOL LEAGUE WINNER was this (4412), H. D. Cranston (4413), A. E. Fairbanks Sandia Corporation team, whose members included: (1332), T. C. Corpe (1331) and E. C. Carpenter (1 to r) R. W. Vivian (2311), Roland Cleveland (4411). Paul House and H. H. Mabie also shot.



A. B. Metzger

A. B. Metzger to Retire July 1

A. Burton Metzger, manager of Sandia Laboratory's Safety Engineering Department 3210 since Dec. 1, 1950, will retire July 1.

Burt and his wife plan an extended vacation in Hawaii. They will return to Albuquerque and he will start his own consulting engineering business.

Since graduation from Pratt Institute in Brooklyn as an electrical engineer and graduate work at the University of Maryland, Burt has had only two employers in his distinguished career—the U.S. Navy and Western Electric Company.

He came to Sandia from Western Electric Company to study the Laboratory's safety practices. Burt came at first on a three-month loan basis as a special consultant. The loan period was extended to six months, then a year, and finally to an indefinite leave of absence from Western Electric Company.

What has happened since has been recorded in the pages of the Lab News. Last year, with Burt's guidance, Sandia Laboratory employees achieved the all-time AEC safety record of 14,936,000 employee hours worked without a disabling injury. The record is still unbeaten. This award climaxed a series of National Safety Council and AEC safety awards earned by Sandia Laboratory employees.

Rather than honors, however, Burt is best known for the friendliness with which he conducted his work. This has extended beyond the boundaries of the Laboratory to the many professional organizations and activities that Burt participated in.

With his familiar smile and an unlimited number of stories, Burt has been a popular speaker and has made presentations to hundreds of organizations which told a serious story of safety.

Sandia Employee Pistol Team Outshoots All Competition

A team comprised of Corporation employees won the Sandia Gun Club's winter pistol league competition against a dozen civilian and military teams.

The shoot, sanctioned by the National Rifle Association, included the standard .22 caliber indoor pistol course.

The winning team included Ro-

land Cleveland (4412), captain, R. W. Vivian (2311), E. C. Carpenter (4411), T. C. Corpe (1331), H. D. Cranston (4413), Paul House (3463), H. H. Mabie (1342), and A. E. Fairbanks (1332).

Arrangements are now under way for a summer outdoor pistol shoot to start soon.



JUST LOOKING at some of the material that has caused drain stoppage at Sandia Laboratory gives A. O. Butts (4514-1) a headache. Here he displays some of the miscellaneous hardware pulled out of Sandia plumbing. Coffee grounds are a big headache, too.

Plugged Drains Prove to Be Big Headache to Sandia's Plumbers

Recently an employee was cleaning his contact lenses in one of the Laboratory's washrooms. A lens was accidentally dropped down the drain. Pipefitting and Sheet-metal Section 4514-1 promptly dispatched a Sandia plumber to the scene and he recovered the lens.

"This is the kind of service we perform," A. O. Butts, supervisor of the section, says. "We have recovered rings, earrings, cuff links, and other valuable property for employees."

But plugged drains can get to be a trying problem, Mr. Butts reports.

Last week the section received several reports of spoons, forks, and knives dropped down the drains.

"Coffee grounds are perhaps the greatest source of drain stoppage," Mr. Butts said. "Coffee grounds should be dumped in a waste container. Just treat the plumbing the same way you do at home. This would be a great help." And he completes his remarks with the word "please."

When drains are stopped anywhere in Sandia Laboratory, call ext. 38107. A plumber will be on the scene promptly.

Sandia's Safety Record

Sandia Laboratory HAS WORKED 2,795,000 MAN HOURS OR 81 DAYS WITHOUT A DISABLING INJURY

Livermore Laboratory HAS WORKED 297,000 MAN HOURS OR 59 DAYS WITHOUT A DISABLING INJURY