



TO HEAR A VOICE is a blessing. Helping make this and other blessings come true are our ECP dollars. Without money, this youngster would never hear. Make his future sound. (See story on Page 3.)

New Firing Chamber Makes Possible Close Study of HE Detonations

A steel tank, capable of containing explosions of two lbs. of high explosives, was unloaded recently in Area Y of Coyote Test Field. It is being buried in a pit adjacent to Bldg. 9940, now under construction.

The completed facility, plus a nearby surface firing range, will be used by Component Development Division 1313 in develop-

ment programs of explosive-actuated power supplies.

The firing chamber weighs 37,000 lbs., is 8 ft. in diameter, and 26 ft. long. Two optical instrumentation ports, protected by heavy "bulletproof" glass, will allow high speed cameras to record test data from inside the reinforced-concrete building. A streak camera and a high-speed framing camera will be used to photograph test device operations.

A periscope arrangement will enable the same cameras to film explosions of HE on the nearby range. The range can handle explosions of up to 100 lbs. of HE.

In addition to the cameras, three 600-kilovolt flash X-ray systems will be installed in the facility to photograph shock waves in materials. These instruments can photograph shock waves and internal functioning of explosive devices during detonation—time intervals as short as 0.1 micro-second.

The facility will be operated by Engineering Section 1313-1, headed by Charles G. Scott. Plant Engineering Department project engineer is Ken D. Harper (4543-3). Construction is scheduled for completion in December 1962.

D. K. Robbins Writes Data Processing Article For ACM Journal

"FORTRAN for Business Data Processing" is the title of an article by D. K. Robbins (3454) which appeared in the July issue of *Communications of the ACM* (Association for Computing Machinery).

The article discusses the data processing language as it has been used at Sandia Laboratory.

Back-to-School Move Includes Naval Reserve Officers at Sandia

Many Sandia Naval Reserve Officers will pick up their books Sept. 4 and 5 to begin classwork at the U. S. Navy and Marine Corps Reserve Training Center.

Courses of instruction will include Strategy & Tactics II, Naval Intelligence, Logistics, Organization for National Security, Space Technology, Nuclear Power, and Oceanography.

These evening courses are designed to increase the professional qualifications of reserve officers, and also provide credits toward promotion and retirement.

On the faculty and staff from Sandia Laboratory will be CDR Larry E. Horner (7145), instructor in Nuclear Power; CDR Francis E. Bell (3420), instructor in Naval Intelligence; CDR Fred I. Magee (2313), instructor in Space Technology; Lt. Edward W. Shepherd (3425), administrative assistant; and CSI Alfred J. Heimer (4614), office staff.

This is the eighth consecutive year the Naval Reserve Officers' School has been in operation in Albuquerque.

Message From the President



By the time this issue of the *Lab News* is distributed, I will have had the opportunity of briefing various organizations in Washington on Sandia's accomplishments in the recent test series. It seems most appropriate to recognize at this time the excellent job which has been done by everyone either directly or indirectly associated with this activity.

Although very short time scales presented a real challenge to the organization, I believe we can point with considerable pride to our accomplishments, which were achieved only through hard work, good technical know-how, and excellent team work, not only between organizations within Sandia, but with DASA, LASL, LRL and all other groups involved.

I would like to express my sincere appreciation for the extraordinary efforts which all of you put forth, and for the understanding and cooperation of the families of those of you who were away from home for extended periods. We have received many compliments for a job well done, and it is indeed a pleasure to pass them on to you.

S. P. Schwartz



EASY DOES IT — A 37,000-lb. steel firing chamber in Coyote Test Field will be part of a new facility to develop explosive-actuated power supplies. High speed cameras, protected by heavy glass, will record results.

Sandia Host to Local Teachers For Lab Tour

Sandia Corporation was host to 30 teachers in observance of Albuquerque's fourth Business-Education Day Aug. 29. The day is sponsored annually by the Albuquerque Chamber of Commerce and the Albuquerque public and parochial schools.

Morning activities of the teachers' visit to Sandia included a welcome by R. A. Bice, Vice President, 2000, at the Sphere of Science. The teachers toured the Sphere of Science and saw the film, "The Sandia Story."

A luncheon meeting was held at the Coronado Club, where J. W. Galbreath (3430) spoke. Members of Small Staff and Tour Guides were introduced.

Afternoon activities included visits to Sandia's solar furnace and telescope facilities; the Van de Graaff accelerator; the 7090 computer; and Area III, where W. A. Gardner, Director of Environmental Testing Organization 7300, discussed environmental testing.

Business-Education Day acquaints Albuquerque teachers with local business and industry. Its purpose is to aid teachers' understanding of the community, and to make them aware of community resources of possible value to them in their teaching.

Editorial Comment**Heart Health Hints**

The American Heart Association passes on some advice on care and maintenance of the heart during hot-weather months. Whether you are catching up on gardening and home repairs, taking to the mountains, or driving the highways for far-off places, a few precautions will help.

And, the Association points out, if you are at the age when a nap in the shade seems more inviting than taking part in a fast triple-play, it's particularly important for you to heed these heart-saving tips.

1. In hot weather start slowly on manual work or play. Like many Americans, you probably spend most of your days behind a desk and the evenings in front of TV. Give yourself time to adjust to a new activity.

2. Stay aware of the weather. Don't try to work or play as much when it is hot and humid. When temperatures soar, your heart automatically works harder to cool and hold down body temperature.

3. Use your head to save your heart. Plan the easiest way to do a job. Prepare to outthink your son on the tennis court rather than outrun him.

4. Undertake physical work or play at a steady unhurried pace that suits you.

5. Take plenty of short rests rather than few long ones.

6. Don't strain yourself and your heart by underestimating the effects of age or overestimating your own strength. Get help for those big do-it-yourself projects.

7. Dress for warm weather work or play. Wear clothing that is absorbent, loose-fitting, light in color.

8. Pay attention to warning signals like shortness of breath, tired muscles, dizziness or fatigue. They are the body's way of telling you to slow down.

9. Watch what you eat. When it's hot, eat lighter meals with fewer spicy, heavy or fat foods. Go easy on iced drinks; often they just make you feel hotter.

10. For most people, salt lost in summer perspiration is quickly restored by an extra sprinkle of the salt shaker at mealtime. Salt pills should be taken only at your doctor's suggestion. If you're on a salt-restricted diet call your doctor before adding or subtracting.

To take the best care of your heart the year around add these precautions to the 10 listed above:

Keep physically fit with moderate daily exercise.

Get your weight down to normal if passing years have added extra pounds.

Learn to handle emotional stresses. Minor irritations are best overlooked. Big problems can be made smaller by talking them out with the right person.

Golden Rule in Action**Connie Cook Gives First Aid; Still Helping Accident Victim**

A seriously-injured woman in a Walnut Creek, Calif., hospital is mighty thankful today for the help she has received from S. C. "Connie" Cook (8124-2), a good Samaritan in the truest sense of the word.

Connie and his wife were driving toward Walnut Creek from Livermore a few weeks ago when a woman in a small foreign car passed them on the road. A few miles ahead, they came across the car again, only this time it had lost a wheel and had turned over three times, throwing the woman from the car.

Connie, who learned first aid in the Navy six years ago, stopped and administered first aid. But that is only the beginning of the story.

The injured woman, a college student from Santa Monica, was heading toward Walnut Creek to attend a friend's wedding when the accident occurred. Her husband, also a college student, was in Santa Monica at the time.

Since then, Connie and his wife have been daily visitors at the hospital, and have opened their house to the injured woman's husband when he flies up on weekends to visit his wife. Connie meets the husband at the airport, and allows him the use of his car during his visits.

"I'd do it for anyone," Connie said modestly. "After all, if the tables were turned, I'd appreciate it if someone looked after me."

Looking after people isn't a new experience for Connie. Three years ago, he administered first aid to another woman who was involved in an automobile accident—this time in Kansas. His quick action saved her from bleeding to death. And just last year, in Florida, he treated his mother-in-law for shock after she slipped in the bathtub and broke several ribs.

Square Dance Lessons Being Offered Fans by Sundowner Members

"Grab your partner and have a peck of fun," says Silas D. Shane (4511-1). Si is vice president of the Sundowners' Square Dance Club which meets every second and fourth Friday at La Mesa Presbyterian Church for a hoedown.

The club is currently offering square dance instruction for all couples interested. Classes will start Monday, Sept. 10, at 7:30 p.m. at the church. For further information call Si, AL 5-5673.

Two Special Events Offered Coronado Club Members Next Month

An All-Star Review and an Oriental Party will highlight September social events for Coronado Club members.

The All-Star Review, scheduled for Sept. 20, will feature internationally-known artists who have recently appeared at the Copacabana in New York and the London Palladium. Comedian Monte Barry will spark the review, along with song stylist Lynn Thompson. Dances of the Occident and the Near East will be provided by Darlene Miller and Princess Jamira.

Shows will be at 8:30 and 10:30 p.m. The Hilltoppers will provide music for dancing from 8 to midnight. There is no admission charge.

The Oriental Party, scheduled for Sept. 22, will feature food of the Far East, served in the atmosphere of the Orient. The evening will feature the appearance of the Cherry Blossom Review—entertainment from the Far East currently on national tour.

Buffet dinner will be served from 6 to 8 p.m. Price for members will be \$2.60; for guests, \$3.60.



BACK HAIR is beginning to ruffle on Lee Pierce's rare Burmese cat Desieree as Saskia, a sealpoint Siamese, strives for attention. Mrs. Pierce tried to hold back Saskia, but the family Pekingese had to act as mediator.

Desieree's A Rare Cat And Favorite of Burmese Royalty

"You might say we're an 'ese' family," remarked Lee Pierce (4224-1) as he and his wife attempted to pose for a picture with their Burmese and Siamese cats and Pekingese dog.

Lee didn't particularly like cats when he married Jeanne. Now, as secretary of the New Mexico Cat Fanciers, he receives letters from cat owners in such far-distant communities as Wolf Point, Mont., and San Diego, Calif., requesting information. In "Desieree" he owns one of five cats of that rare Burmese breed in New Mexico.

Gone are the days when cat lovers owned a Persian, an Angora, a calico, or a Maltese, and the shorthairs and mice catchers were automatically "alley" cats. Now feline fanciers have such exotic choices offered them as Lilac Siamese, the tailless Manx, water-loving Abyssinians, Russian Blues, Cameo Longhair, and the Hima-



Donna Martinez (2632)

Take a Memo, Please

Make a regular habit of checking your safety equipment for any impairments that might interfere with its operation or function.

layan, which combines Siamese markings with Persian long hair. There's also a red point feline that cat experts are still haggling over. They're not sure if its breed is Siamese or Shorthair.

The Pierces purchased champion-bred Desieree last December in Indianapolis. Almost all of the Burmese in this country are the direct descendants of one imported in the early 1930's; however, in his native land, the breed was long the pampered pet of Burmese royalty. Solid sable in color, the breed is medium-sized, with slim legs and tiny paws. Large, round golden eyes dominate the small, round faces. They are often referred to as the "dogs" of the cat family because of their ability to retrieve and their affectionate nature.

At this point of the interview, "Saskia," the seal point Siamese, gave Desieree a not-too-friendly jab. The Burmese yowled and the Pekingese adopted a referee's position. A second Pekingese appeared to enjoy the show.

"We're getting ready for our annual cat show to be held Oct. 27 and 28 at the Fairgrounds," Lee said. Entries have already been received from about eight states.

The New Mexico Cat Fanciers are also seeking new members. "You don't have to have a pedigreed cat to become a member," Lee explained. "In fact you don't even have to own a cat—just like them." For further information call Lee at AM 8-6057.

Sympathy

To Joe M. Sanchez (7532-1) for the death of his brother-in-law in Santa Fe Aug. 8.

To Glenn Hastie (4573) for the death of his mother in Oklahoma on Aug. 13.

Congratulations**Born to:**

Mr. and Mrs. D. H. Habing (5321) a daughter, Karen Sue, on Aug. 10.

Mr. and Mrs. Al Reidel (1411) a son, Jason Allen, on Aug. 10.

Mr. and Mrs. Bill Burns (1414) a son, Eric Jay, on Aug. 7.

Mr. and Mrs. S. D. Teisher (2452-1) a daughter, Margaret Lindsay, on Aug. 5.

Mr. and Mrs. Max Bleakney (2452-3) a son, Stephen Wilson, on July 22.

Mr. and Mrs. Lewis Sisneros (4152-2) a daughter, Patricia Anne, on Aug. 18.

Mr. and Mrs. Richard R. Petrini (4632) a daughter, Sandra Lee, on Aug. 19. Mary Ellen is on leave from Division 7321.

Mr. and Mrs. Robert Craven (4411-3) a daughter, Janet Lynn, on Aug. 5.

Mr. and Mrs. T. M. Schultheis (7222) a son, Steven Michael, on Aug. 16.

Mr. and Mrs. John A. Case (2534) a son, John Allen, Jr., on July 22.

Mr. and Mrs. G. C. Holloway (2320) a son, John Michael, on Aug. 17.

Mr. and Mrs. Elfege G. Sanchez (4614) a daughter, Regina, on July 13.

Sandia Lab Parents See Son Off to Duty In South Vietnam

News of skirmishes in South Vietnam will be read with avid interest from now on by Edith (2343-1) and J. E. Duffy (4333). Their oldest son, an Army helicopter pilot, is being assigned there.

CWO Joseph Patrick Duffy will be on duty with the 5th Army Support Division. His wife and son will remain in Seattle with her parents during his absence.

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ECP Funds Buy New Life for Handicapped

Employee Contribution Plan funds—those cold dollars you never see—do much to warm the hearts of those who feel the chill of despair. Persons seeing no hope are finding it, thanks to the compassion of their fellow man.

There are few places you can see greater accomplishments than at those organizations helping mentally-disturbed children and people who have impaired hearing.

A look into the eyes of visitors at the Child Guidance Center and

Hearing Society tells you your dollars are buying a better life for someone who needs it badly. Both of these agencies are members of the United Community Fund, to which Sandians contribute through the ECP.

Two Sandia employees visited these organizations, talked to staff people, and saw them working with adults and youngsters who have but one hope—the gaining of health that only your money can buy.

Here are their reports.



A DOLL'S HOUSE entertains a youngster at Child Guidance Center. Play activities sometimes provide insight into reasons for children's emotional disturbances. Mrs. Rose Cazier (7180) and Dr. Harold E. Paine, psychologist at the Center, observe child's action at the Center.

There is a need for compassion . . .

As Told by Rose F. Cazier (7180)

They told me that one child in 10 throughout the United States has a crippling emotional handicap. I learned this surprising and disturbing statistic during a recent visit to the Albuquerque Child Guidance Center. But I also learned some good things about the treatment and rehabilitation of these children.

I spent over an hour talking with the Coordinator of the Center's program, Mrs. Louise B. Johnson, who told me about the Center's goals, its staff, and its facilities. She had much to say about success in diagnosing, treating, and rehabilitating emotionally disturbed children.

It takes people with a special combination of training, understanding, and compassion to help them. The staff at the Center is well prepared to achieve its goals. Its staff includes a medical director, a clinical psychologist, and a psychiatric social worker.

The Center uses a "team" approach in working with its cases. The children are referred to the Center not only by parents, but by teachers, probation officers, and physicians as well.

After cases are evaluated, the parents of the children are counseled. A social study of the child's family life and his early development is made. Later, the child is counseled and is given a battery of psychological and personality tests. Parents work with a psychiatric social worker. The child is referred to a psychiatrist and clinical psychologist.

The combined findings of the clinical team—the psychiatrist, clinical psychologist, and psychiatric social worker—are used to determine the type and extent of

treatment required by the child. This usually consists of some form of direct psychotherapy with the child and his parents.

The therapy may go on for a brief period or for many months. In some cases, improvement is dramatically rapid; in others it may be very slow. But results of treatment are positive.

In a recent study of 74 closed cases taken by the Center, marked improvement (apparent complete cessation of symptoms and satisfactory general adjustment) was reported in 34 cases, Partial disappearance of symptoms and better general adjustment were reported in 34 cases. Six of the test cases reported no improvement.

Mrs. Johnson told me that currently, 22 children are receiving treatment at the Center, located at 2841 San Mateo N.E. It could handle more cases with increased office space; with more, professionally-trained help; and with more time. It's doing an excellent job with its present facilities and staff. With increased financial support, it could extend its work.

The main financial support for the Center comes from the United Community Fund, to which Sandia employees contribute through the ECP. The Center receives contributions from other organizations and individuals. A fee is charged for the Center's services according to the family's ability to pay.

There is no other non-profit agency in Albuquerque or in New Mexico which specializes in the treatment of emotionally upset children. The Child Guidance Center's work is vital, and it certainly deserves the support that we can give to it through the Employees' Contribution Plan.



SURPRISE lights the face of a little boy undergoing speech training at Albuquerque Hearing Society, while Floyd Mastin (4631-1) and Mrs. Maryan Moyer, preschool director, share his delight during training.

They saw but they didn't hear . . .

As Told by Floyd L. Mastin (4631-1)

I had never wondered what it would be like to be deaf; to be unable to hear the voices of children. Or to know that they had never heard mine. Now I do think about it, for I visited the Albuquerque Hearing Society headquarters.

Today, over three million American children are handicapped by some type of hearing loss. The hearing problem directly affects an estimated 12 million other Americans. As a matter of fact, almost everyone can point to at least one relative or friend with a loss of hearing. The problem is a real one for all of us.

At the Hearing Society, located at 1001 Second St. N.W., education for hearing loss is emphasized. I was impressed by what Mrs. Mary Pfeister, executive secretary, told me about the Society's activities.

The society conducts classes for children and adults in speech, auditory training, and lipreading. In addition, it provides a hearing consultation service, pre-school deaf program, hearing testing service, parent counseling, and recreational activities. It refers hearing patients to other organizations for hearing-aid evaluation and for employment guidance.

All of these are important services, and many children and adults are making use of them.

Mrs. Pfeister told of the proce-

sure the Society uses in handling new hearing-loss cases. Medical attention connected with the loss is handled by private physicians. The patients who come to the society are referred by their doctors.

Enrollees in the Society then enter programs of training and education which are suited to their particular needs. After concluding their period of training and therapy, they continue to inform the Society of their progress.

"Hearing is everybody's business," Mrs. Pfeister told me. Because of this, the Society encourages people with normal hearing to join it. The education of a person with hearing loss about the means of overcoming his handicap is an important part of his rehabilitation. But the education of people with normal hearing about the nature of hearing loss and problems connected with it is also important. Such people can do much to make the way easier for those with hearing handicaps.

The Society receives part of its support from fees charged for some services and memberships. But the largest share of its support comes from the United Community Fund. And the UCF receives funds contributed by Sandia employees through the ECP. In my opinion, the Albuquerque Hearing Society is worthy of all the support we Sandians, as members of the ECP, can give to it.

New York Public Library Honors Book by Sandian

The New York Public Library has selected *Handbook of Statistical Tables* by D. B. Owen (5425) as one of the Technical Books of the Month.

The book was on display in a special section of the library during August, and was to be reviewed in a publication sent to librarians all over the country.

The handbook was published last June by the Addison-Wesley Company and contains more than 100 separate statistical tables, many appearing for the first time in a collection.

Sandia Speakers

Irving Auerbach (5153), "Kinetics and Mechanism of Free Radical Formation in Irradiated Polyethylene," American Chemical Society, Atlantic City, N.J., Sept. 10-15.

D. W. Sasser (5421), "Quasi-Positive Operators," American Mathematical Society, Vancouver, British Columbia, Aug. 31.

K. G. Overbury (2411), "Suggested Practices for Standards Laboratories by the Recommended Practices Committee, Sandia Corporation," National Conference of Standards Laboratories, Boulder, Colo., Aug. 10.

R. T. Meyer (5153), "The Kinetics of the Hydroxyl Radical in the Low Pressure Reaction of Atomic Hydrogen and Molecular Oxygen," American Chemical Society, Atlantic City, N.J., Sept. 12. Co-author is Prof. R. J. Myers, Jr., University of California, Berkeley.

Supervisory Appointments

HUGH O. PIERSON to supervisor of Plastics Section 4224-2, Specialties Division B.

During his four years at Sandia, Hugh has worked in Reinforced Plastics and Elastomers Section 1112-1. His job included serving as coordinator between the materials lab and plastics shop.

Immediately prior to coming to Sandia, he worked four years for Goodyear Aircraft in Ohio as a section supervisor in charge of process development.

Hugh worked three years as a plastics engineer for the Brunswick Corporation in Marion, Va., and a similar period for a small engineering firm in Washington, D.C.

He was graduated from the French Naval Academy with a degree in naval engineering and physical science. He also served four years with the Free French forces.

Hugh is a member of the Society of Plastic Industry.

RICHARD L. ENO to supervisor of Section 7233-3, Aerospace Projects Division.

Dick has been at Sandia since July 1956 and was doing project work in the Systems Development organization 7100 the first three years. He has participated in Operation Hardtack, Phase I, and Operation Dominic.

During three years in the Air Force, he was assigned to a preliminary design group at Cape Canaveral.

Dick has a BS degree in mechanical engineering from the University of Nebraska.

He is a member of the American Society of Mechanical Engineers.

Promotions

L. C. Hilderbrand (4614) to Utility Operator

Nita R. Ward (3126) to Typist Clerk

Janet H. Johnson (3421) to Library Assistant

George Martinez (3452) to Tabulating Equipment Operator

Peggy J. Gillham (4153) to Accounting Clerk

James E. Clark (7322) to Laboratory Assistant

Joseph G. Brooks (7321) to Staff Assistant—Technical

Joseph Szymanski (2421) to Staff Member—Technical

Mayme M. Brunacini (4233) to Assembler

Mary K. Dunn (3126) to Teletypewriter Operator

Virginia L. Shortt (3126) to Secretarial Typist

Dollie C. Harris (3126) to Typist

Mary B. Adair (3126) to Secretarial Typist

Mary M. Martinez (3126) to Stenographer Clerk

Gertrude E. Hull (3126) to Typist

Barbara S. Curry (3126) to Secretarial Stenographer

Caryl A. Smith (3126) to Secretarial Stenographer

Glenna L. Moseley (4333) to Senior Clerk

Ruth A. Kleindienst (3126) to Secretarial Stenographer

D. B. Sparger, Jr. (8214) to Utility Operator

Gilbert G. Oliver (8214) to Utility Operator

Frank Nieto (8223) to Inspector

Marion L. Johnson (8212) to Secretarial Stenographer

Josephine Ivins (8212) to Secretarial Typist

Roberta M. Cody (8161) to Record Clerk

August G. Alexander (8225) to Inspector

W. Kenneth Paul (3446) to Staff Assistant—Administrative

Wilma R. Ash (4171) to Accounting Clerk

Irma R. Olson (8233) to Library Assistant

R. C. McClellan (4344) to Stenographer Clerk

Charles B. Randall (4614) to Utility Operator

Willie C. Montano (4614) to Utility Operator

Herman C. Marquez (4614) to Utility Operator

J. B. Baskett (3444) to Messenger

Thomas E. Arguello (4623) to Record Clerk

Marilyn V. Becker (4135) to Invoice Clerk

Dorothy G. Douglass (4423) to Typist

Geraldine S. Nerton (8161) to Record Clerk

Isabella P. Seeley (5410) to Secretary

Supervisory Lateral Transfers

J. P. Brock from 8234 to 8225

E. A. Alford from 8223-3 to 8225-1

A. T. Norwich from 8224-4 to 8225-2

D. R. Wheaton from 8224-1 to 8234-4

A. R. Hopper from 8224-2 to 8234-5

J. B. Adams from 8221-1 to 8221-2

K. E. Finders from 8221-2 to 8221-1

H. C. Walker from 8133 to 8126

R. M. Tidwell from special assignment in 7200 to 8127-2

R. K. Petersen from 8133-2 to 8126-1

F. J. Murar from 8132 to 8127

R. J. Tockey from 8133-1 to 8141-3

R. A. Baroody from 8131 to 8121

H. D. Reed from 8164-1 to 8121-2

G. C. Steinhauer from 8163-1 to 8164-1

I. R. Ward from 8131-2 to 8121-3

R. I. Peterson from 8132-2 to 8122-2

R. S. Jacobson from 8121-2 to 8124-1

G. L. Scholer from 8141-3 to 8142-2

F. L. Saylor from 8161-1 to 8161-4

E. C. Pace from 2630 to 4370

R. W. DeVore from 3150 to 2630

W. B. Russell from 4343 to 4371

H. W. Benischek from 4343-2 to 4371-1

J. W. Benson from 4332 to 4372

R. W. Williams from 4325-3 to 4372-1

G. A. Stevert from 4344-1 to 4372-2

E. L. Bolton from 4351 to 4332

T. L. Pace from 7211 to 7221

H. L. Crumley from 2624-2 to 4314-1

A. M. Schonberg from 4343-3 to 4341-1

L. L. Lavanier from 4344-2 to 4342-1

J. W. Reynolds from 4343-1 to 4342-2

C. P. Rindone from 8114-3 to 8114-4

J. L. Wilson from 8151-1 to 8123-3

T. W. Strome from 2531-1 to 1321-1

J. N. Edgington from 1321-1 to 2542-1

R. R. Beach from 2542-1 to 2532-1

R. E. Henderson from 2532-1 to 2531-1

C. L. Becker from 4224-2 to 4224-6

Night-time Maintenance Magic Really Isn't Magic At All – Just Careful Work

Have you noticed the way a troublesome light switch is repaired overnight? Or a wash basin that becomes unplugged suddenly?

Or have you been thankful that the air conditioning still worked despite a power outage in the wee hours? Or wondered what made an overhead hoist work properly so suddenly, or how a ballast for a fluorescent light could have been fixed so soon?

Don't look for gremlins; just offer a silent "thank-you" to a small force of skilled workmen and helpers who perform plant maintenance in the "off hours" at Sandia Lab.

This family of tradesmen, working closely together, has two main functions. They perform, at night and over the weekend, the minor and not-so-minor jobs which would close down or interrupt day operations. And second, when not answering emergency calls, they do general and preventive maintenance work on thousands of pieces of equipment used by Sandia Corporation.

They work three shifts Saturdays and Sundays, holidays, and during the second and third shifts Mondays through Fridays. Divisions 4511 and 4514 provide the men to do the job.

Maintain PA Systems

In Electrical, Refrigeration, and

Air-Conditioning Division 4511, Preventive Maintenance Section 4511-3 (C. S. Sandoval, supervisor) bears the brunt of this work. Fourteen employees in the section work five days a week from 11 p.m. to 7:30 a.m., the year around.

"One electrician and his helper maintain all the public address systems. They change ballasts on light fixtures in the high bay areas plus others that daytime employees can't change without causing problems, and they check and repair intrusion alarms which break down at night," Mr. Sandoval explains.

Three refrigeration and air-conditioning mechanics operate check, and repair environmental refrigeration equipment. Equipment is checked every two hours seven days a week, on this shift. Cooling and heating equipment in all Area I buildings is checked twice nightly.

Believe it or not, there are over 3000 fresh-air filters requiring periodic attention at Sandia Laboratory. Nine equipment cleaners wash, oil, and change from 200 to 250 filters every night.

In addition, they do all sandblasting for the maintenance shops and clean paint spray booths, equipment rooms, ductwork, fans, louvers, and blowers. As time permits, they work on other equipment needing cleaning. "Emergencies of all types are handled promptly," Mr. Sandoval continues.

During the first and second shifts, seven days a week, refrigeration and air conditioning mechanics provide maintenance to environmental test chambers and heating and cooling systems in Areas I and II. "These men, from Section 4511-2, also restart air-conditioning equipment and environmental test chambers following power outages, and answer emergency calls," V. L. Brockway, supervisor, comments.

Steam Plant Maintenance

Pipefitting and Plant Operation Division 4514, through Sections 4514-2 and 4514-3, supplies manpower for 24-hour operation of the Steam Plant and water treatment in all Corporation areas, as well as second-shift coverage of plant property.

Heating Plant Section 4514-2 (G. H. Miller, supervisor) has six

boiler plant operators and nine firemen. "Twelve men provide 24-hour coverage in rotating shifts to supply continuous steam for heating and refrigeration for the entire Sandia Base central heating system," Mr. Miller explains.

During the coldest part of the winter, the Army steam plant aids the Sandia Lab steam plant. The other three men in Section 4512-2 take care of the water-treatment program and also fill in for employees on vacation.

Section 4514-3, Division 4514's Second-Shift Operation Section, is supervised in rotation by A. O. Butts, A. W. Railey, and W. V. Sawyer. Five pipefitters, four electricians, two millwrights, and one helper-trades are responsible for covering emergencies which arise during off hours.

They're on duty seven days a week from 4 p.m. to midnight, and from 8 a.m. to 4 p.m. on Saturdays, Sundays, and holidays. Like the third shift men in Division 4511, they also take on jobs which can't be done during standard hours without interrupting work of regular employees.

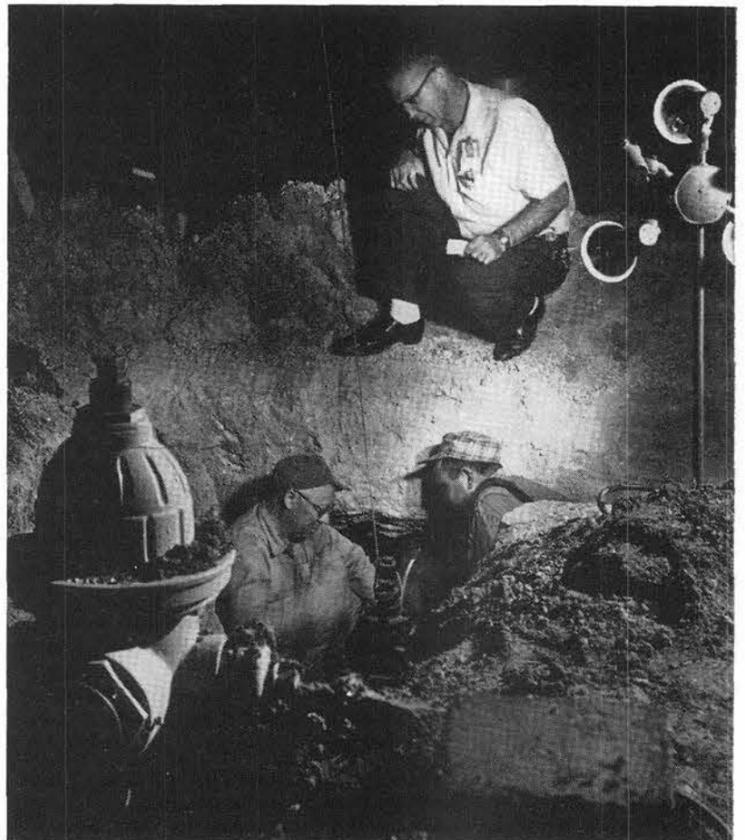
Completes Work

"Otherwise, our normal function is to complete maintenance calls unfinished by day shifts and to perform general and preventive maintenance on Corporation equipment," Mr. Butts comments.

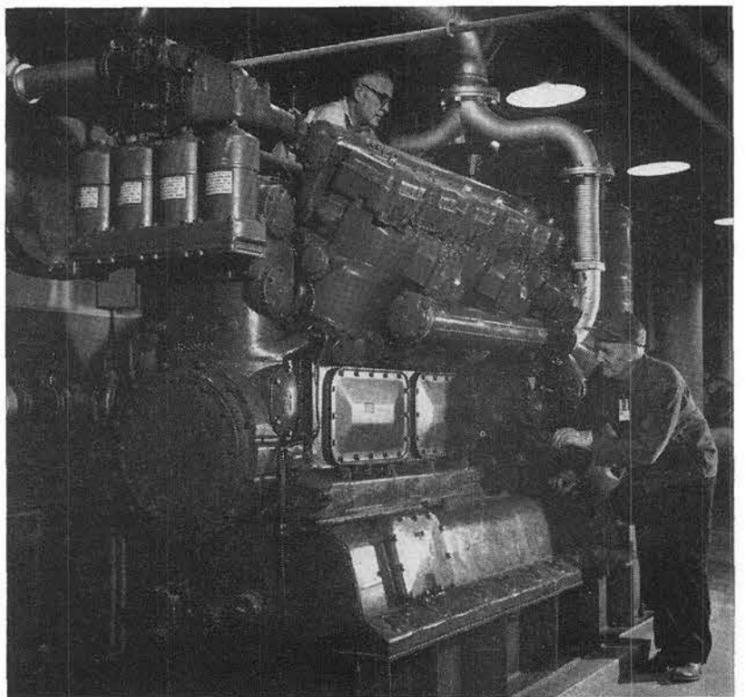
The pipefitters regularly inspect all steam, gas, water, plumbing, and heating equipment. "We answer fire calls, complete maintenance calls not completed by day shifts, and answer all trouble calls phoned in by the guards or janitors," Mr. Railey explains.

Four electricians from Section 4514-3 maintain all outside building and fence lighting; assist in maintaining intrusion alarms; answer all fire and emergency electrical calls; and operate the stand-by power during power outages.

"More than 300 cranes and 154 roll-up doors are continuously checked and serviced by two millwrights, in addition to their trouble-call work," Mr. Sawyer concludes. At the end of their shift, the supervisor passes on to the third shift, Section 4511-3, information concerning emergencies or jobs which need to be taken care of between midnight and 7:30.



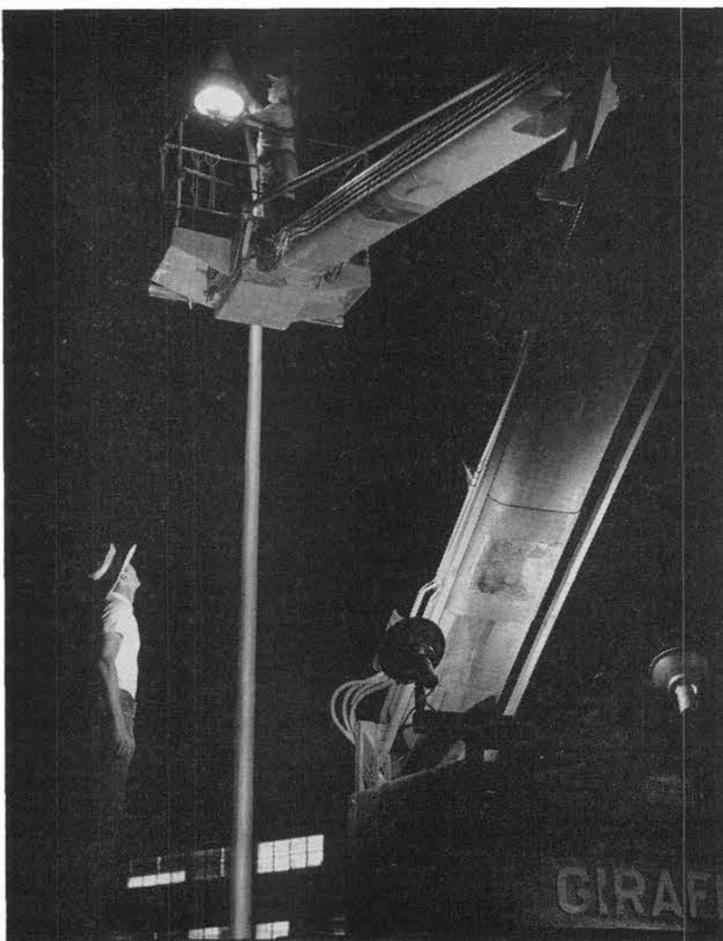
NEW VALVE to control fire hydrant near Bldg. 893 is installed at night by personnel of Section 4514-3. Caulking the valve are Conroe Wyman, left, and Manuel Sanchez, while A. O. Butts, one of the supervisors of Section 4514-3, waits to inspect final seal.



AUXILIARY DIESEL equipment in Sandia Lab Heating Plant is maintained by Joseph Wynn, top, and Salome Ramos, both 4514-2. In the event of power outage during the night, the men will put diesel equipment into operation to provide emergency power.



OIL LEVEL in compressor is checked several times during the 4 p.m.-midnight maintenance shift by Henry Flowers (4511-2). He checks and maintains operation of environmental test chamber in Area II.



POWER HOIST called "The Giraffe" is used by B. A. Keller, left, and Louis Price, on platform, to install a new bulb in a street lamp near Bldg. 805. The men, both 4514-3, use the truck-mounted lift to maintain all outside lighting at Sandia Lab during non-working hours.



CONTROL PANEL for an environmental test chamber in Area III is checked over by James Robinson, left, and Charles Mitchell (both 4511-

2). During the 4 p.m.-midnight shift, the men make periodic maintenance calls at test chambers and air-conditioning equipment throughout Sandia Lab.

Bridge Players Start Annual Tournament Play Next Month

The annual Sandia Laboratory duplicate bridge tournament will get underway in September. The noon-hour playoffs will begin in various Lab buildings. Finals will be held at the Coronado Club in late October.

Those interested in participating should contact building representatives:

Bldg.	Representative	Ext.
836	J. K. Nakayama (7125)	46102
802	G. A. Arnot (1422)	36245
626	R. F. Jennings (4121)	34233
860	Patricia Waggoner (7321)	22142
805/6	Diane Martin (5132)	27155
880	W. B. Howerton (7215)	48144
892	S. H. Neff (2533)	27141
894	J. J. Benson (2344)	25163

If there is no representative listed for your building, contact one near your location.

Pecos Baldy Lake Yields Limit for Hiking Fishermen

A group of five Sandians recently back-packed by night to Pecos Baldy Lake for a weekend fishing foray. They caught their limit of cutthroat and rainbow trout and found a man-sized portion of exercise.

Making the trip were Lou Savage (7523-2); Bill Caldwell (2451-1); and Mike O'Bryant, Andy Oravec, and Don Fogel (all 4411-3). The heat.

They hiked by night to avoid "Wildlife and scenery were really something," Mike O'Bryant commented. "And we had our fill of fresh trout."

Mountain Club Heads For Southern Colorado And 14,000-ft. Peak

New Mexico Mountain Club members and guests will spend the forthcoming three-day holiday near San Luis in southern Colorado. Zelma Beisinger (5426) will be trip leader. The more energetic hikers will climb 14,000-ft. Culebra Peak.

On Saturday, Sept. 8, the goal will be Hermit Peak, a 10,000-ft. mountain in the southeast corner of the Pecos Wilderness Area. For further information call Norm Bullard at AM 8-1812.

EAP Students at UNM Are Urged to Register Sept. 20-22

Employees planning to attend the University of New Mexico under the Educational Aids Program are urged to register on the regularly-scheduled days — Sept. 20, 21, and 22. These are the only days that representatives from University Education and Liaison Section 3131-2 will be at the campus to assist you.



Louise Klopolsky

Meet Your Reporter

One of the most active of the Lab News' volunteer reporters is Louise Klopolsky (3126, working in 4232). At Sandia since 1961, she has worked nine years in the Development Shops organization and thus is well-acquainted with her co-workers.

Louise maintains she has "no time for a hobby." She and her husband were charter members of the Sombra del Monte Christian Church, and Louise teaches Sunday school and helps in many other ways. There are frequent bouquets from the Klopolsky garden, "but that's my husband's domain; he usually chases me out," Louise said.

The couple has a daughter whose husband is associate minister of the Hollywood Baptist Church.



SOFTBALL ALL STARS of Sandia Lab made a good showing in recent tournament with Sandia Base, Manzano Base, and Kirtland Air Force Base. Sandia Lab defeated Sandia Base in first game. Clockwise from lower center are R. Norris Rose (3124), Leo C. Chavez (3444), Dale

Landis (4413), Carl J. Cron (1122), H. Earl Morris, Jr. (7164), Billy B. Womack (4411), Jim L. Hay (4254), Dennis L. Mangan (1413), Marvin E. Daniel (2441), Ronald C. Lawwill (1313), David H. Weingarten (1422), Carl D. Longerot (1414), and Eugene W. Glaze (1431).

East Mesa Hunter (Unknown) Uses Moving Motorcyclist for Target

"Let's get out of here!" is an expression Clarence Huddle's son has picked up. The two-year-old uses it whenever he hears a sharp sound like a gun being fired. And thereby lies a story.

Clarence (who works in 5131) took his son for a ride on his motorcycle on the mesa about a mile from home. The area was near Constitution just east of Juan Tabo. As they rode along, Clarence felt a sharp sting on his leg. He thought a rock had hit him and he continued a half mile before stopping to investigate.

"Let's get out of here!" he said as he realized he had been hit by a bullet.

A little further on they came upon a Forest Service ranger practicing archery. The ranger made a tourniquet with the bow string and drove Clarence to the hospital.

The bullet, possibly as large as .32 caliber, passed all the way through the calf of Clarence's leg. The wound was washed and Clarence was given a tetanus shot. After three days he was back at work with a limp.

The mighty hunter of the East Mesa was never apprehended.

Horseshoe Tourney Started This Week

The Sandia Laboratory Round Robin Horseshoe Tournament has been underway since Aug. 28. Singles matches are being played on the courts located west of Bldg. 855.

The tournament ruling committee is made up of Les Cole (4231), Lewis Eversgerd (4514), and Jack Underwood (2341).

Welcome Newcomers

Aug. 13-24

Albuquerque		
Jo Ann Aiken	3452	
Kay A. Campbell	4413	
June E. Christy	3126	
Robert B. French	4543	
Marsha G. Gazdig	4333	
María Consuelo Gomez	3126	
John F. Hilger	4511	
Jacquelyn Lagemann	3446	
Bethye A. Libby	3126	
Joe Montoya	3441	
*Henry C. Scheller	4411	
Illinois		
James S. Clabaugh, Chicago	7522	
Norman E. Corlis, Chicago	7213	
Ronald E. Domres, Glenview	7242	
Indiana		
Leslie P. Theard, South Bend	5311	
Michigan		
David R. Schafer, Lansing	7211	
Nebraska		
W. LeRoy Thomas, Beaver City	1413	
New York		
Barry M. Butcher, Ithaca	1113	
Joseph D. Douglass, Jr., Ithaca	9130	
John C. Sayna, Binghamton	7321	
Oklahoma		
Johny L. Robertson, Ponca City	3111	
*Denotes Rehired		
Returned from Leave		
Mabel C. Avallone	3126	
Jimmie L. Robinson	3462	

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
 4-BDR HOME, living room w/fireplace, family room, utility room, shop, carpeting, \$17,500 FHA, \$700 down. Matthews, 1606 Inez Dr., NE, AX 9-4200.
 SELL OR TRADE EICO model 221 VTVM, \$25; 100-watt isolation transformer, \$10; or trade for guns or hand loading equipment. Scranton, 299-4902.
 NEW, HAND MADE Early American style, three-gun rack w/drawer, \$15. Tatum, TR 7-0997.
 PORTABLE POOL TABLE, 46" x 84", automatic ball return, 4 cue sticks. Cummings, 299-5907.
 RADIO RECEIVER, 5 bands, 12"-20-lb. speaker in unfinished tuned 24"x24"x14" enclosure, \$28; 2 screen doors, 36"x81", \$5; extra lift car springs, \$6. Browning, AX 9-6384.
 BLOND TABLES: coffee, corner, step, total \$40; bed, regular size, mattress, springs, \$15. Banos, 708 Truman SE, AL 6-6613.
 '58 CUSHMAN EAGLE; size 10 St. Pius Blazer jacket, new. Harper, AL 6-1657 after 5 p.m.
 '52 HILLMAN MINX, 4-dr., \$195. Gillespie, 4212 Sunningdale, NE, AL 5-6421.
 JUNIOR WHEEL CHAIR, \$40; commode chair, \$30. Houston, 299-0319.
 FREE PUPPIES, 2 male "Airelabs"—half Airedale, half Labrador Retriever. Holmes, 3401 Harwood Ct., NE, 299-1927.
 '54 FORD pickup 3/4 ton heavy duty, 3-speed heavy duty transmission, 6-ply tires, V-8, \$400. Perkins, AX 9-0177.
 FREEZER, 18-cu.-ft. upright, serviced in July. Starkovich, DI 4-3380.
 '56 PONTIAC 2-dr. HT, auto. trans., one owner, no trade, \$500. Gainer, 536 "C," Cardenas SE.
 EICO HF-61AK preamplifier, Collora Continental TC-540 changer, Electro-voice Aristocrat 12TRXB speaker system. Bortniak, 298-5093, call after Sept. 3.
 PUREBRED Chihuahua male puppies, no papers. Calvery, 255-9545.
 BASSINET w/hood and liner, \$8. Coon, 6931 Edwina NE, AX 8-0845.

CUSTOM TREND brick home, loaded with extras. Placek, AX 9-3822 after 5 p.m.
 SPORTERIZED 6.5 Mauser deer rifle, 40 rnds. ammo, \$35. Guerin, AX 9-6139.
 SINGER SEWING MACHINE, foot-pedal type, in original wooden cabinet, \$20. Hart, AX 9-8832.
 7/8 ACRE LOT, Skyland in Manzano Mountains, back property line on National Forest. Young, AL 6-9158.
 HOFFMAN BRICK, 3-bdr, 1 1/2 bath, den, double garage, carpet, drapes, fenced corner lot, \$17,500, \$700 down. Webster, AX 9-3490.
 PHOTOGRAPHIC light meter, Pentax 3"/21", never used, original cost, \$99.50, sell for \$60. Harris, AX 9-6664.
 '15' FIBERGLASS Alpine catamaran hull, less engine and trailer. Akin, 8714 Woodland NE, AX 9-4242.
 CROSLLEY REFRIGERATOR, \$45. Berger, AL 5-0265 after 5 p.m.
 21" CONSOLE COLOR TV set, \$250. Raisen, AM 5-0227.
 '55 STUDEBAKER President, 4-dr., R&H, OD, \$400. Health, AL 5-5418.
 NOVI AUTOMOBILE air conditioner kit, electric clutch model, compressor needs overhaul, \$50. Bowen, AL 5-6759.
 3-CHANNEL CLASS D citizen band broadcaster Globe Electronic portable unit, 115VAC, 12VDC, antenna, 2 mikes. Huddleston, 268-2491.
 '57 OLDS 98, air conditioning, radio, PS. Melvin, 299-2614.
 '53 FORD, \$200; Polaroid camera, \$35; air conditioner, \$20; 2 twin-size heads-boards, \$3 each. Sanchez, evenings CH 3-4121.
 '58 CUSHMAN SCOOTER, \$60. Pepper, AX 9-2459.
 HEATHKIT APACHE and SB10. Rowe, AX 9-5678 after 5 p.m. or Sunday.
 BOY'S bowling shoes, size 6, \$2.50; portable electric Emenee organ, \$20. Glaze, AX 9-4340.
 GAS RANGE, \$7.50; well point, 2"x4", cost \$21.95, sell for \$14; house wiring half price; misc. pipe. Villella, 9204 Susan SE.
 CAR RADIO, \$14. Chavez, AL 5-5461.
 '59 TRIUMPH Cub, \$325. Dain, AL 5-7236.
 VIOLIN, 3/4 size w/case. Kishbaugh, AM 8-0670.
 RECORD PLAYER, Zenith, portable, 4-speed, \$10. Brummell, AL 6-4206.
 BATH FIXTURES, Crane, pink, with accessories. Whitfield, AL 5-5129.
 PAIR of mud and snow tires, size 5:20x13, set of chains to fit, all for \$25. Boyes, 282-3250 after 5:30 p.m.
 HOUSE, garage, office bldg. in Estancia, real estate contract or cash; old-fashioned bathtub w/legs; lavatory; sink; galv. 5'-sink; 30-gal. hot water heater. Ogden, CH 3-4723.
 '59 BUICK Invicto 4-dr. HT, 32,000 miles, new tires, power. Grant, 255-0576.
 ENCYCLOPEDIA Americana, bookcase, 10 Popular Science books, '59-'61 annuals. McCrory, 268-5289 after 5 p.m.

NEXT DEADLINE
 FOR SHOPPING CENTER ADS
 Friday Noon, Sept. 7

NEW 75,000 B.T.U. forced-air gas furnace, ideal for small home or additional room, \$95. Daniel, AX 9-4761.
 POWER, portable hand saw, 5-inch Craftsman, \$15. Pitti, 836 Georgia SE, AL 6-1629.
 LUGGAGE RACK with zipper cover, \$15; saxophone, \$45; clarinet, \$20. Strawderman, AX 9-7548.
 USED TIRES, 4 ea., 800x14, w/w, 1 needs recapping, 3 have tread, \$15 for the lot. Magee, AL 6-1358.
 GARRARD MODEL T/MK II manual player with GE model VR-227 cartridge. Krenz, AX 8-0619 after 5:30 p.m.
 2 SCREENDOORS, good frames, they need rescoring, \$5. Lowe, AL 5-4719.
 '51 DODGE, \$200 or best offer. Case, 2713 Wyoming NE, 298-2019.
 YOUTH baby bed, \$35. Lopez, AL 6-1203.
 3-BDR HOUSE, 1 1/2 bath, garage, sprinkler system, frame-stucco, \$10,800, 2124 Eton Ave., SE. Wilson, 1600 Vassar Dr., SE, CH 2-9223.
 35 HP EVINRUDE motor, \$250. Skelton, AX 9-3190 after 5 p.m.
 TRUMPET, Olds, \$45; Gibson electric guitar w/amplifier, \$90; '60 Cushman motor scooter, \$250. Sandy, AX 9-0980 after 5 p.m.
 REMINGTON SHOTGUN, double barrel, hammerless, 16 ga., \$25 or trade for old Indian items or what. Smitha, AX 9-1096.
 '59 LARK 2-dr., 6-cyl, std. transmission, R&H, whitewalls, \$625. Andrews, AL 6-7328 after 5 p.m.
 '56 BUICK 4-dr. Special, R&H, PS, auto. trans., \$450. Payne, AL 5-7483.
 '60 CHEVY Impala Sports Coupe, HT, R&H, Turbo-Glide, PS, PB, seat belts, \$1995 or best offer. Bell, 298-4608 after 5 p.m.
 ENGLISH SADDLE, Wade, 3131 Country View Rd., SW, 887-2225.
 ROLLER SKATES, ladies, white, Chicago made by Hyde, size 7, used 4 times, \$15. Van DeVelde, AL 5-8174 evenings or weekend.
 BY OWNER, 3-bdr. brick on landscaped corner lot, FHA appraisal \$16,750. Southerland, 8903 Claremont NE, AX 8-1647.
 POWER LAWN MOWER, 20" reel type, new tires, Sears model, recently sharpened, \$25. Causey, AL 6-9700 after 5 p.m.
 '56 MOTORCYCLE, Harley Davidson, load-ed. Mirabal, 268-6172.
 STEEL GARAGE DOOR, 8' with hardware. Woodley, AM 8-6871.

'17 GRUMMAN aluminum canoe; 1 HP electric motor; 1/2" drill press; 5 HP outboard motor. Call Monday, BU 2-3947, Urquhart, Box 164, Cedar Crest, N. M.
 SNOW 3-BDR, 1 1/2 baths, separate den w/ fireplace, garage, a/c, central heat walled corner lot, 1600 sq./ft., \$16,500, \$1500 down. Ray, 11017 Phoenix NE, AX 8-0408.
 BROWNIE PROJECTOR, 8 mm. Robinson, 256-0924.
 BULLET BRIDGE LAMP, \$3; hand garden cultivator, 5 plows, \$5; electrical model submarine, new, 1/2 price at \$5. Mitcham, AX 9-8425.
 PING PONG TABLE w/folding aluminum legs, \$15. Judd, AX 9-6536.
 REGISTERED chocolate and Seal Point Siamese kittens. Martin, AX 8-2064.
 BLOND YOUTH BED w/mattress, \$30 or best offer. Newman, 298-4416.
 2-BDR HOME in SE, \$11,500 or trade for mobile home worth approx. \$2500. MacDonald, 629 California SE, AM 8-6482.
 HAM RECEIVER-SPEAKER, .54-33 Mc, RME, model 45, BFO X'tal filter, RF level meter, AF-RF gain controls, AVC, standby switch, \$85. Quinlan, AM 8-5665.
 RUGER SINGLE SIX .22 cal. w/holster, \$40 or trade for Colt, S&W, Ruger .38 special revolver. Taylor, AL 6-3774.
 REMINGTON 12 gauge automatic ventilated rib, poly choke, rubber shoulder pad, new, \$100; '55 Jeep, 4-w. drive, Warne hubs, \$995. Clark, AL 5-5747.
 TWIN BED, box springs, mattress, book-case headboard, will sell headboard separately for \$5, bed, \$35. Smith, AM 8-1349 call Tuesday or later.
 '56 PORSCHE Speedster; Ampex 960 stereo tape recorder, 2 yrs. old. Klingler, 255-6657.
 FOUR TUBELESS 7.10x15 Mobil Premier tires, w/gauged 90% remaining tread. Driven 2500 miles, make offer. Pazel, 255-6843.
 SELMER PARIS alto sax. Howard, 268-6029.
 HAM RIG: Globe Scout 65A, Knight VFO, RME-4300, \$175 or swap for tape recorder. Knudsen, AX 9-6005.
 TAPPAN GAS RANGE, 36", clock and timer, glass window, electric outlet, \$65 or best offer. Roberts, BU 2-3496.
 MODEL 71 Winchester, .348 cal., \$100; 1960 BSA Starfire Scrambler motorcycle. Wilson, AX 8-0049.
 REFRIGERATOR-FREEZER, automatic defrosting, 12' Crosley refrigerator. Sundberg, AX 9-2177.
 KEYSTONE MOVIE OUTFIT, complete w/ zoom lens, electric eye camera, projector, screen and lights, new. Warnke, 616 Madison NE, 268-5056.
 MATCHING coffee table, 2 end tables, blond, \$15; exerciser, \$25; hand lawn mower, \$3; elec. popcorn popper, \$1. Herrmann, AX 9-5598.
 GIRL'S BIKE, 24", \$15. Rodocovich, AX 9-3123.

CLARINET, \$75; alto saxophone, \$125; several sizes of ice skates for \$5. Williams, AX 9-5967.
 '14' ALUMINUM SKIBOAT w/25 HP motor and factory-built trailer. Buchanan, 2953 Wisconsin NE, AX 9-7487.
 ROTOTILLER, 6 HP Wisconsin engine, adjustable depth of cut and handle height, auxiliary blade. Hasenkamp, AL 5-8946.
 COMPLETE photographic darkroom equipment, make offer, all or part. Mickel, 256-2790.
 BEIGE NYLON 2-pc. sectional, \$75; wrought iron dinette, \$30; Hollywood double bed, \$20; rollaway, \$15; misc. furniture. Wideman, AX 9-7966.
WANTED
 SHOP MANUAL for 1957 Chevrolet. Stam, AX 9-3724.
 JOIN car pool or ride from vicinity NE Claremont-Louisiana to bldg. 802. Bortniak, 298-5093 after Sept. 3.
 RIDE or join car pool, 1029 Princeton Dr., NE to Tech Area 3-5 gate. Gobon, 268-3298.
 RIDE from 4100 North Second St. to vicinity bldg. 836. Bain, DI 4-4195.
 REASONABLY PRICED, comfortable old-fashioned rocking chair to refinish, doesn't matter how old, but must be sturdy and solid. Rush, 248-0197.
 TO TRADE 3/4-ton 1950 Chevy plus \$700 equity in lot on N. 10 and some cash for 1959 1/2-ton Chevy or GMC 6-cyl. pickup. Gonzales, AX 9-7208.
 MAIN to drive car from Albuquerque to Washington-Baltimore area in early part of Sept. Porter, AX 9-2788.
 RIDE to bldg. 800 from vicinity of Indian School Rd. and Parsifal NE. Davis, 299-6789 after 5 p.m.
 WILL TRADE 3-speed bicycle for unicycle. Huddle, AX 8-3471.
 YOUNG LADY to share expenses, 5-room house. Collier, 316 Terrace SE, 243-0728.
 HOME for one red female kitten "Tangerine," house trained Kate's granddaughter. Johnson, AL 5-8851.
 MEMBERS for car pool from vicinity 10324 Paseo Del Norte NW (Rio Vista) to vicinity bldg. 800. Dehon, 898-2219.
 RIDE or car pool from 501 Charleston, NE. Uhl, AM 8-1855.
 TO TRADE 19" rotary power mower for reel mower; also need "c" piccolo, alto or soprano saxophone. Fisher. 265-0626.
FOR RENT
 IN ADOBE ACRES, 2-bdr., carpeting, a/c, garage, \$90 mo., lease required. Hunter, 877-0332 after 5 p.m.
 ROOM with kitchen privileges in lovely home in Inez Addition. Yurcic, AX 9-2389.
 UNFURNISHED 4-bdr. home w/basement apartment, \$100/mo. plus utilities, 318 Oak St. SE. Nogales, CH 7-1178.

What Do You Know About Your Government?

You can have fun with this quiz. Try it on yourself, your family, friends. This is the second of three parts.

Part II

Which answer or answers make the following statements correct?

22. The "Hoover Commission" report dealt with: (a) Cost estimates of the Hoover Dam; (b) The cost of providing relief to war-stricken areas of Europe; (c) The problem of how to improve government efficiency; (d) The foreign problems we face as a nation; (e) Foreign aid funds and their distribution.
23. The President of the Senate is: (a) The Secretary of State; (b) The Vice President of the United States; (c) The Senator with the greatest seniority; (d) The Secretary of Defense; (e) The Senate Leader of the majority party.
24. Politics is: (a) Usually a conflict between good people and bad people; (b) A conflict between public-spirited people with honest differences of opinion; (c) The art of unprincipled compromise; (d) Pretty dirty stuff; (e) A public quarrel between political bosses who really cooperate behind the scenes.
25. The best way to make democracy work is to: (a) Be strictly impartial and non-partisan; (b) Let the winning party rule without interference; (c) Appoint experts who can handle the complex problems of politics; (d) See to it that more good citizens get active in political and community work; (e) Guarantee complete equality to all people.
26. The State Department of the United States reports to the (a) Foreign Relations Committee; (b) House of Representatives; (c) Senate; (d) United Nations; (e) President.
27. The principle of separation of powers means that: (a) All powers vested in the House are also vested in the Senate; (b) All executive power must be divided between the House and the Senate; (c) The Supreme Court has legislative powers; (d) Governmental powers are dispersed among the President, Congress, and the Supreme Court; (e) Individual states are sovereign.
28. The Constitution of the United States sets up: (a) A method of government that includes several cabinets; (b) A federal system based on checks and balances; (c) A government in which states' rights are supreme; (d) A highly centralized form of national government; (e) a government based on group representation.
29. Constitutional qualifications for members of the House of Representatives include three of the following: (a) At least 25 years of age; (b) A United States citizen for at least seven years; (c) A resident of the state from which elected; (d) Resident of the district from which elected.
30. The most important power of the House of Representatives is: (a) Investigating scandals in government; (b) Impeaching the President; (c) The power to appropriate money or withhold it from various government agencies; (d) The power to make treaties.
31. The "Electoral College" is: (a) A special college for children of Congressmen; (b) The group of people who count the final ballots in an election; (c) The County Board of Elections; (d) The group that officially elects the President; (e) An honorary society of public-spirited men.
32. The first article of the Constitution provides for: (a) The legislative branch; (b) The executive branch; (c) The judicial branch.
33. Supreme Court Justices are appointed by the: (a) President; (b) Attorney-General; (c) Senate; (d) American Bar Association.
34. Confirmation of the President's Cabinet must be made by the: (a) House of Representatives; (b) Senate; (c) Supreme Court; (d) House of Representatives and Senate.
35. Final determination of whether or not a federal law is constitutional is a function of the: (a) Supreme Court; (b) President's Cabinet; (c) Attorney-General; (d) House and Senate.

(Answers at bottom of this page)

Sandia Leaves Salton Sea Base After Long Use

July 31, 1962, Sandia Corporation relinquished responsibility for Salton Sea Test Base in California. On this date, the Sandia Area Office, Atomic Energy Commission, turned over surveillance and maintenance of the Base to American Security Service of Pasadena. Sandia has operated Salton Sea Test Base for the AEC just one month short of 13 years.

For the past year, Sandia performed maintenance duties at the base. The majority of the 16 employees stationed there during that time have been reassigned to either Sandia or Livermore Laboratory. A few elected to stay in the Imperial Valley of California.

Test activities, which began at Salton Sea late in 1946, continued until July 1961. When Sandia Corporation was formed in November 1949, the AEC gave responsibility for operation of the Base to the company.

The facilities at Salton Sea were slowly outdated by advancing technology. When drop tests began on the 81-sq.-mile range, aircraft were propeller driven. Now, the speed of jet aircraft and rockets requires the larger Tonopah Test Range in Nevada.

Most of the instrumentation and equipment used at Salton Sea was installed at Tonopah. The rest was turned over to other government agencies or, if no longer useful to the government, sold for salvage.

The future of Salton Sea Test Base lies with the General Services Administration of the federal government.



AMERICAN PSYCHOLOGICAL ASSOCIATION'S forthcoming symposium on "Human Factors in Industrial Research Management" will be conducted by Sandians (l to r) F. O. Carleton (3133), D. J. Jenkins (3130), J. R. Garcia and S. H. Peres (also 3133). Meeting is in St. Louis, Mo.

Four Sandia Employees to Present Symposium at Psychological Meeting

A symposium on "Human Factors in Industrial Research Management" will be presented by four Sandians during the American Psychological Association's national convention in St. Louis Aug. 30-Sept. 5.

Problems to be defined during the three-hour symposium are based on research at Sandia since 1959.

The separate subjects to be discussed are: "Managerial Viewpoints on Organization and Management of the Industrial Research Laboratory" by D. J. Jenkins, manager of Personnel Re-

All Sandia Classified Files To Be Purged

Sandia Corporation's annual classified file purge begins next week. The effort will involve all accountability stations. The clean-out will continue through October.

"Purpose of the purge," Jay Hughes, supervisor of Security Standards and Development Division 3231, said, "is to reduce the amount of documents in files and thus reduce the possibility of security infractions."

Last year's program saw 313,415 classified documents either destroyed or sent to Central Record Files or Archives.

"Get rid of old preliminary reports, old rough drafts, old masters, extra copies, obsolete documents and reports, and other unneeded papers," Mr. Hughes said.

At the end of October, accountability stations will report results of the purge.

Lt. Col. W. G. Grisham Completed Air Reserve Command Assignment

After more than a year of service, Lt. Col. Wilber G. Grisham (2311-2) has resigned as commander of the 8504th Air Reserve Recovery Group.

He plans to accept an assignment in the 9831st Air Reserve Squadron, one of five subordinate units of the 8504th. The group is comprised of reservists throughout New Mexico and El Paso, Tex., and has the mission of providing recovery assistance to the Air Force in the event of an enemy attack.

Astronomical League Members to Visit Sandia Laboratory

Two hundred members of the Astronomical League will tour selected Sandia Laboratory facilities Sept. 1. Accompanying them on the tour will be D. H. Fenstermacher (7224), regional chairman of the League.

The tour will include a visit to the Sphere of Science, where the group will see "The Sandia Story"; and visits to the solar furnace; the telescope in Bldg. 952; and the Van de Graaff accelerator.



EGAD, WHAT'S THIS? It's a real newspaper and Jane Holman (1000) uses it to illustrate a serious thought: Clean out those files. September and October are classified file-purge months at Sandia Laboratory.

Service Awards

15 Year Pins



D. H. Juckett
4211
Sept. 2, 1947



L. R. Neibel
4330
Sept. 2, 1947



D. J. Padilla
7523
Sept. 2, 1947



R. D. Statler
7246
Sept. 2, 1947



Billy W. May
3453
Sept. 5, 1947



J. P. Taylor
4254
Sept. 8, 1947



H. L. Crumley, Jr.
4314
Sept. 9, 1947



F. H. Deiber
4411
Sept. 10, 1947



R. E. Fisher
1122
Sept. 10, 1947

10 Year Pins

Sept. 1-14
J. A. Beaudet 2544, S. O. Edwards, Jr. 4413, A. C. Ellingson 2422, P. L. Kerley 1413, J. R. Lawrence 4171, J. A. Paulhamus 2564, A. J. Quant 1111.
J. Fern Robinson 4212, Flaviano Saavedra 4622, H. J. Wild 4362, I. L. Brazell 4575, Emily J. Gilmore 3453, C. K. Rudy 4543, Edith D. Miller 3423, L. J. Baker 4612.
W. E. Glisson 4575, Angelina F. Gurule 3126, E. D. Herrity 4344, J. R. Holpp 2342, J. J. Marron 1314, G. S. Wallace 2532.
T. G. Banks, Jr. 7212, B. P. Chavez 4132, E. W. Coomes 7322, A. D. Ford, Jr. 8116, W. A. Halpin 5133, R. E. Thompson 4112, W. A. Warren, Jr. 4344, N. K. Howard 4542, R. A. White 1313.

What Do You Know About Your Government?

Quiz Answers

Part II

22. c; 23. b; 24. b; 25. d; 26. e; 27. d; 28. b; 29. a, b, c; 30. c; 31. d; 32. a; 33. a; 34. b; 35. a.

Sandia's Safety Record

Sandia Laboratory HAS WORKED 700,000 MAN HOURS OR 20 DAYS WITHOUT A DISABLING INJURY

Livermore Laboratory HAS WORKED 350,000 MAN HOURS OR 68 DAYS WITHOUT A DISABLING INJURY