



SANDIA LAB NEWS

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

VOL. 10, NO. 16

ALBUQUERQUE, NEW MEXICO

AUGUST 8, 1958



HEALTH PROBLEMS of using nuclear explosives to build a harbor were discussed by the site survey party at Juneau, Alaska. Meeting with Amos J. Alter (right) of the Alaska Department of Health and Water Pollution Control Board were (L to R)

R. A. Bice (5200); Dr. Harold Fidler, AEC-SAN; Wallace J. Reynolds, Business Manager of the University of California; and Dr. Edward Teller, Director of the University of California Radiation Laboratory at Livermore. Photo by Dr. Merritt.

Sandia Consultants on 'Plowshare' Program Of Alaska Harbor Report Arctic Experiences

A recent trip to Alaska by M. L. (Mel) Merritt (5110) and R. A. Bice (5200) proved to be more than a scientific expedition for Mel who enjoyed the first opportunity in 24 years to visit his birth place.

Dr. Merritt, Manager of the Weapons Effects Department, spent the first 12 years of his boyhood in Juneau and this trip was his first opportunity to renew old acquaintances and explore old haunts.

Juneau was the first stop in Alaska for the two Sandians in a trip which took them to Anchorage, Fairbanks, the eskimo village of Kotzebue, and finally to the rugged coastline near Cape Thompson, a proposed site of a harbor to be created with nuclear explosives.

The scientific expedition in

which they took part was the first field study of the proposed harbor site and is part of Project Plowshare which deals with the non-military uses of nuclear explosives. The project is under the direction of the University of California Radiation Laboratory at Livermore, California.

Great Alaskan Interest

Everywhere they went the Sandians found that Alaskans were highly interested in the development of the territory, even suggesting other nuclear earth-moving programs which could have beneficial economic results. Mr. Bice said. Suggestions included cutting a shipping channel through the Aleutian Peninsula and a harbor further south in comparatively ice-free waters near mineral resources.

"These new possibilities will now be studied," Mr. Bice said, "with a view of choosing that pro-

ject which will provide the technical data required and at the same time be of early economic benefit to the people of the region."

The survey team met with Alaska government officials, representatives of federal agencies, Alaskan educators and representatives of the press.

"Everywhere we stopped we attempted to publicize the work we will be doing and discussed health problems and safety measures which would be undertaken in the Plowshare project," Dr. Merritt pointed out.

Besides bringing back chunks of native jade, ivory made from walrus and mammoth tusks and other souvenirs, both Sandians returned with interesting tales of life beyond the Arctic Circle.

Kotzebue Facts

"Kotzebue," Mr. Bice related, "has a summer population of (Turn to Page 4, Please)



Robert Hall, Bill Laskar, Dick Hodges—
—Lab News Photo receives national recognition—

Dr. M. J. Kelly To Be Awarded John Fritz Medal

Dr. Mervin J. Kelly will be the 1959 recipient of the John Fritz Medal, it has been announced by the John Fritz Medal Board of Award representing four major national engineering societies.

Dr. Kelly is president of Bell Telephone Laboratories and is a member of the Sandia Corporation Board of Directors.

Cited for "his achievements in electronics, leadership of a great industrial research laboratory, and contributions to the defense of the country through science and technology," Dr. Kelly will receive the award at ceremonies to be scheduled by the American Institute of Electrical Engineers, of which he is a Fellow.

The John Fritz Medal is sponsored jointly by the American Society of Civil Engineers, the American Institute of Mining, Metallurgical and Petroleum Engineers, the American Society of Mechanical Engineers and the American Institute of Electrical Engineers.

Presented not more than once in any year for "scientific or industrial achievement" in any field of pure or applied science, the medal was established in 1902 as a memorial to the great engineer and steel maker whose name it bears.

Sandia Photographers Have Work Accepted For National Display

National recognition has been accorded three Sandia Corporation photographers whose work has been chosen for display by the Professional Photographers Association of America.

Sandia Lab News photographer Bill Laskar, Robert Hall and Dick Hodges, all of the Photo Section (2462-1) had photos accepted by the Association which met in Chicago last month.

Attending the meeting from Sandia was W. F. Boyes, supervisor of the Photo Section, who acted as representative of J. J. "Mike" Michnovicz, supervisor of the Photo and Reproduction Division (2462). Mike was elected as New Mexico Council Delegate of the Industrial Division of the Association.

New Brochure For Recruiting Available Soon

A new recruiting brochure containing a detailed description of Sandia Corporation's technical activities is now being prepared by the Public Relations Division (3125) and will be issued to coincide with the opening of the fall semester.

The 32-page brochure features activities both at Sandia and Livermore in addition to highlighting community life at the two locations.

Cousin of 705

704 Computer Joins Sandia's 'Electronic Brain' Family

Simulating a full-scale nuclear war will be just another problem for Sandia Corporation's newest scientific computer — the IBM 704 — which will join its cousin, the 705, at Sandia in October.

The 704 will be used jointly by the Systems Analysis Department (5120) and the Test Data Department (5240) to solve research and data reduction problems.

A theoretical nuclear war is only one of the many problems which will be programmed on the new computer by the Systems Analysis Department in determining the effectiveness of proposed weapon systems.

The Test Data Department will use the 704 for compiling and re-

ducing data on the field performance of experimental weapons and full scale tests. Both departments will continue to serve other technical organizations at Sandia in the solution of mathematical problems on the 704 computer.

Joint use by the two organizations of the 704 is expected to keep the computer busy on a full 40-hour week basis.

Joins 705

Equally busy will be the IBM 705 which will solve problems for the Electronic Data Processing Department (4140) ranging from the areas of quality assurance, payroll accounting and general stores inventory to personnel records, reliability evaluation, preparation

and maintenance of general supply and atomic ordnance catalogues, etc.

Major difference between the two computers is that the 705 handles large amounts of data requiring a minimum of computing on each piece of data while the 704 is designed for processing a moderate amount of data and extensive computing. The result is that the 704 will "do a lot more to the data it processes," according to W. T. "Bill" Moffat, manager of the Test Data Department.

The arithmetical units of the 704 operate approximately 10 times as fast as the 705 "internally," Bill explained. The 704 can perform 4000 multiplications or divisions per second and can add or subtract 10,000 numbers in the same time.

Increasing activities of the two departments and the complexities of problems encountered overtaxed present equipment and justified the acquisition of the 704, Bill explained. One Elecom computer formerly used by the Test Data Department is being shipped to Sandia-Livermore to establish a computing facility there. The remaining unit will be made available to other organizations here for computing work.

Used Other Computers
Prior to the acquisition of the

704 the Systems Analysis Department purchased time on computers at Kirtland Air Force Base, the Air Force Missile Development Center at Holloman Air Force Base, Ramo-Wooldridge Corporation, Los Alamos Scientific Laboratory and Lockheed Aircraft Corporation, in addition to using their own CRC 102A computer.

Don R. Morrison, supervisor of the Computer and Numerical Analysis Division, Systems Analysis Department, estimated that the savings in cost of programming time will more than make up for the \$32,000 monthly rental cost of the 704.

Room 38 in Bldg. 880 is now being readied for the installation of the 704 and much of the present air conditioning and wiring in the room will be utilized in operating the computer. Like other delicate "electronic brains," the computer requires controlled conditions in which to operate.

Vital statistics of the 704 include two high speed "memory" units which each can store 4000 "36-bit" words. A 36-bit word, according to Bill, "is not to be confused with two-bit words used by persons with large vocabularies. Rather, they consist of a series of zeros and ones in machine language which can be used to represent astronomical sums by means of a floating decimal point."

Quick Information Access

The high speed storage units will allow access to any stored information in the space of 12 microseconds. Memory drums in the computer can store an equivalent amount of information but require 14 milliseconds to locate data. A third memory unit, using magnetic tape for storage, is the slowest unit but can store an unlimited amount of information.

To avoid duplication of equipment the 704 will make use of the 705's card to tape converter for storing information and a 500 line a minute high speed printer for displaying computation results.

IBM representative Bill Rogers, a former Sandian, is presently conducting a series of classes in Bldg. 880 to familiarize personnel from the Test Data Department with the operation of the 704.

When the 704 goes into operation it will require a staff of 17 mathematicians from the Systems Analysis Department and 16 from the Test Data Department in addition to several computer technicians. All are currently preparing problems for the 704.

These are the real brains of the 704, which, like other computers, has no real intelligence but operates only as effectively as the people at its controls, the mathematicians and technicians.



Sandia Corporation's Experience of
55 Days
Without A Disabling Injury
Ended July 29

HERE'S WHY...

A woman employee after having punched her time card at the close of her shift slipped and fell receiving a muscle strain.



The Sandia Lab News is an official publication of the Sandia Corporation, Albuquerque, N. M. Office: Room 10, Bldg. 829, Public Relations Division Staff: Cherry Lou Burns, Richard A. Dickson, June Leonard, assistant editors Robert S. Gillespie, editor; William A. Jenkins, assistant editor, Livermore Branch

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Deadline Friday noon of week prior to publication

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

The Pedestrian Always Loses —

Drivers who take their government vehicles into the Sandia technical area are a speed-law abiding group. For this a select group of pedestrians in the same area may be thankful. For if it weren't for the careful drivers (they're observing a 15-miles-per-hour speed limit) these walkers would soon meet their come-uppance.

Reports of the Safety Department show that some Tech area pedestrians are:

- 1.—Jaywalking and crossing streets away from intersections
- 2.—Walking with the traffic instead of against it
- 3.—Stepping into streets without looking for traffic
- 4.—Walking in groups along middle of street

Such trusting foot travel on city streets would have disastrous results in a hurry. At best, the pedestrian would be "ticketed" for violating the law. At worst, he would be run down by a car.

Safety organization points out that drivers of vehicles in the Tech area have responsibilities, but they remind pedestrians that they too have responsibilities which involve use of common horse sense.

No matter how much insurance the driver has, the pedestrian loses when hit by a car.

The Editor's Incoming Mail

Dear Editor:

Time again to send another report from the Pacific. This time I'll tell about some of the ways we while away our leisure hours.

Recreation is an important part of any Full Scale Test. Holmes & Narver recreational facilities are quite extensive because they know the value of planned activities for their personnel in the field. Sandia along with other organizations are welcome to use the tennis and volley ball courts and baseball fields.

We had three all Sandia volley ball teams for awhile and did fair in inter-island league competition. Then we came up against an all native boy Holmes & Narver team and the sky fell in. Taking our losses in stride we transferred our interests to something else.

Shell hunting and beach combing are high on the list of favorite pastimes. Each high tide drops various and assorted shells, bottles, and drift wood on the beach.

Occasionally the tide washes up a glass ball which broke loose from

a fishing net somewhere. These balls are used as floats for the nets. They vary in size from three inches in diameter to sixteen or eighteen inches in diameter. It would be interesting to know how far they have floated and for how long a time before the currents dropped them on this atoll.

Drift wood is always prized. It is an extremely hard wood and polishes to a glass-like luster.

Holmes & Narver organize shell hunting trips usually one Sunday a month which we are welcome to join. Also we do some shell hunting on our own, utilizing our 14 foot boat and motor.

The best shells which would qualify as collectors items are found in water varying from 20 to 40 feet deep. Diving for shells at this depth is quite an experience. Water pressure is the first obstacle to overcome. However, several of the fellows dove to this depth and retrieved some fine shell specimens.

The "animal" is removed from inside the shell by suspending the shell in air and in two or three days the "animal" falls away. The hardest job is cleaning the exterior. This is done with acid solutions, sea water and wire brushes. Quite a chore but worth the time it involves.

Fishing is of course a popular sport for many of the Sandians. Favorite fishing spot is atop a deep water pier. Many of the fellows start immediately after work to fish and continue until 10 or 11 p.m., taking time out only for a quick supper.

The fishing is usually good during the early morning. Just about all sizes and shapes are caught. Everything from white fish weighing a pound or two to sea bass and sharks weighing 40 to 50 pounds. It is not permissible to eat fish caught in the Eniwetok Proving Ground, so everything caught is either used for bait or thrown back to find a larger friend.

I could tell all kinds of fish stories which no one at home could disprove, but this would be taking unfair advantage so I won't mention any.

Yours truly,

C. A. "Kip" Blossom

(Editor's Note: This is the second letter the Sandia Lab News has received from Kip Blossom who is at the Eniwetok Proving Ground. Kip, an old hand at full scale tests, is supplying the folks back home with an insight into life at the test site. We hope to hear from him again soon.)



Pauline Baca (1264)

Take a Memo, Please

When walking, take steps to be careful. A step forwards is usually good, but a step in the wrong direction may be painful.

Congratulations

Born To:

Mr. and Mrs. Charles P. Stanton (1452-1) a daughter, Kathy Sue, on July 23.

Mr. and Mrs. Bert Lindsay (5126) a son, Wayne Summy, on July 31.

Mr. and Mrs. Damacio Sandoval (2121-4) a daughter, Mary Helen, on July 30.

Mr. and Mrs. Rolyn Baack (1544) a son, Bret, on July 27.

Mr. and Mrs. R. V. Tullar (5215) a son, Richard Valencourt, Jr., on July 31.

Mr. and Mrs. A. J. Canute (5215) a son, Timothy James, on July 22.

Mr. and Mrs. A. B. Church (1265-1) a daughter, Janet Elaine, on July 26.

Mr. and Mrs. Max Lopez (2473) a daughter, Katherine Louise, on July 13.

Mr. and Mrs. Donald E. Wanner (1622-1) a son, David Evan, on July 26.

Mr. and Mrs. Howard F. Devaney (1474-2) a son, Matthew, on July 24.

Mr. and Mrs. John Archuleta (2221) a daughter, Patricia Marie, on July 19.

Mr. and Mrs. Josue Martinez (5241) a son, Raul Leo, on July 26.

Mr. and Mrs. Floyd E. Forsythe (5242) a son, David Lee, on Aug. 1.

Wedding Plans Told

(Livermore Special)

Sandia-Livermore's first engaged couple, Jerre Clark, 8222, and Gary Sheldon, 8132-1, have announced plans to be married in the fall.

Jerre who has been with the Corporation for one year, graduated last June from Livermore High School.

Gary, who has been with the Corporation since he graduated from Oregon State University in June 1956, recently completed three months basic training at Fort Ord.



Jerre Clark

Wedding

Angelina Gutierrez (7225, assigned to 1542) will be married to Daniel L. Wilson of Albuquerque tomorrow at the Kirtland Air Force Base Chapel. The couple will make their home in Albuquerque.

These Fish Stories Verified as Factual

Fish stories could be circulated by several Sandians who took a trip recently to the Trampas Lakes near Truchas Peak.

If they said they caught about 100 fish, they're telling the truth, and if they mentioned 30 foot snow banks, that's correct, too. Tales of packing in on horseback about eight miles and clearing the trail of fallen trees also ring true.

Sandians who took this trip include R. W. Henderson (1000), Bob Hawk (7329), Cecil Johnson (7319) and Andy Chacon (7319). Mr. Henderson's son, Bob, Jr., and Andy Chacon's son, Lt. "K.O." of the USAF, also went along.



THE FISHING CREW with the catch (L to R): Bob Hawk (7329), Bob Henderson Jr., Albuquerque, R. W. Henderson (1000), Sammy Martinez, El Valle, Cecil Johnson (7319), Andy Chacon (7319), Otacio Martinez, El Valle, and Lt. "K. O." Chacon, USAF.



PROUD DRIVER of this Italian-built junior sports car is Craig Sander, who won the miniature automobile in a recent local drawing. Sitting beside him is his sister Cindy. Howard Sander (5150), Craig's father, is paving his back yard for a safe raceway.

Sandianotes

Rio Grande Gorge Negotiated by Wallace Pritchard With Inflated Raft

Shooting rapids, portaging and fishing were all part of a 22-mile trip down the Rio Grande taken by Wallace Pritchard (3242) recently.

Entering the water at Arroyo Hondo, Wallace, his 14-year-old son and a neighbor floated down the river in a seven-man inflated life raft to Pilar. According to Wallace, there are only a few persons who have attempted the long trip in the Rio Grande gorge. Actual traveling time was 11 hours and during this period the men caught several nice fish, portaged three times and had to use ropes a few times to go down rapids.



LISA ELENA, two years old, recently arrived in Albuquerque from Italy to join her new parents, Frank Francis (5531) and Shirley, formerly with 7225.

Wedding Anniversaries

It will be a double anniversary on Aug. 19 for Alcadio M. Romero (2722). On that date Mr. and Mrs. Romero will celebrate their 19th wedding anniversary and Alcadio will receive his Sandia Corporation 10-year service pin.

Mr. and Mrs. Carl D. Holmes (2722) observed their 11th wedding anniversary on July 14 with a trip to Los Angeles.

Bookkeeping Dept.

George Steck, 5125, reports he has loaned two books and misplaced the borrower. "Limit Distributions for Sums of Independent Random Variables" by Gnedenko and Kolmogorov and "Probability Theory" by Loew are the missing volumes. George would appreciate their return.

Five Years Ago

J. W. McRae was appointed president of Sandia Corporation and D. A. Quarles was to leave that post to become Assistant Secretary of Defense . . . R. J. Hansen was named chairman of the Sandia Community Chest Drive . . . Other committee members for the drive included C. W. Campbell, H. W. Sharp, E. C. Deutschle, A. F. Cone, W. O. Bramlett, C. W. Eggart and K. C. Shinn . . . J. S. Clark, deputy test director of Operation Upshot-Knothole, praised Sandia personnel for work in that operation.

Get Well Wishes

Erlinda Duran, department secretary for 2410 and 2470, is recuperating from major surgery at her home in Belen.

Get well wishes are extended to Dorothy Bair from her co-workers in Organization 4131.

Best wishes for a quick recovery are extended to Lloyd Jolly (2121-1) who is convalescing following major surgery.

Bad Fire Loss

Jesus Gutierrez (2721) lost all his family's clothing and a room in a recent fire at his home at Sandia Park. His co-workers took up a collection of money and clothing for the 10 children to ease some of the loss.

Trip to Wales

Mr. and Mrs. W. M. Evans (5523-2) will fulfill a dream of many years when they revisit Wales in August. Wales is their place of birth and they hope to renew associations with relatives and friends.

The Evanses will be accompanied by their two young grandchildren.

Craftsman Honors

"Flip" Baudoin, 13-year-old son of Louis Baudoin (7411-2), was presented one of five honorable mentions given in New Mexico for his model automobile entry in the General Motors Craftsman's Guild national contest.

Flip's efforts in design and workmanship were rewarded with a check for \$25.

Air Gun Installed in Area III For High Velocity, Shock Tests

Sandia Corporation's newest environmental test facility, a 200-ton air gun for high velocity and shock testing of weapon components, has been installed in Area III.

The huge facility, measuring almost 100 feet in length, is fabricated from two 16-inch naval cannons flanged together, muzzle to muzzle. Components to be tested are inserted in a piston fired by compressed air at speeds ranging from 10 feet to 1100 feet per second. A maximum of 2500 G's can be exerted on test components in the gun and up to 5000 G's on impact.

Project engineer for the design of the unique facility was Walt Walker (1613) whose organization will operate the gun.

The barrels of the gun were machined to an inside diameter of 26" to Sandia Corporation specifications by the Naval Gun Factory in Washington, D. C.

Test Unit Intact

Two types of tests can be run in the facility—open end and closed end shots. In a closed end shot the piston will travel down the muzzle of the gun, building up air resistance as it nears the end. A muzzle tank at the end of the gun



GUN BARREL VIEW of Sandia Corporation's new air gun environmental testing facility shows Wilson M. Payne (1613-4), operator, in the breech end. The barrel is almost 100 feet long.

will trap excess air pressure and allow rapid damping or halting of the test unit in the piston. This feature permits high velocity tests without destroying the test unit.

In open end shots, the piston is actually fired from the gun into an excavated target area outside the building in which the gun is housed. A door at the end of the building permits passage of the piston into the target area.

3000 psi Pressure

A 50 horsepower air compressor provides the push for the piston, building up pressure of 3000 pounds per square inch and released suddenly to fire the gun.

M. R. Madsen (1613-1) is section leader for the project under Paul Syroid of the Facilities Division 1613. The Test Laboratory Department (1610) has supervision of the test facility. Assisting in the project were Art Lawrence (1614) and Bill Duggin (1612).

The Plant Engineering Department (2440) designed the buildings to house the gun and supervised construction of the project.

ALO Couriers Cited For Heroic Actions In Putting Out Fire

Three AEC-ALO shipper security couriers have been cited for heroism in extinguishing a fire which threatened to destroy a truck carrying \$202,000 worth of radioactive materials.

K. F. Hertford, Manager of ALO, presented citations and cash awards to Charles E. Houston, Gordon J. Grosbier and Wallace H. Danzer for action they took in snuffing out a blaze on the truck which they were escorting.

The fire took place last September in Independence, Mo. Their quick action not only prevented the loss of government property but also stopped the possible spread of radioactive smoke and dust over a heavily populated suburban area.

A check for \$300 was presented to Mr. Houston and \$100 checks were presented to the others.

Benjamin Trujillo Dies July 27

A military funeral was held for Benjamin Trujillo, 60, who died last week. He had worked in Program Machine Division 2151 and had been a Corporation employee for about seven and one half years.



B. Trujillo A veteran of World War II Mr. Trujillo was well known throughout the Albuquerque area as a baseball pitcher, and during his youth had been in great demand as one of the best baseball players in New Mexico.

He is survived by two sisters, Mrs. Flora Simpson of Albuquerque and Mrs. Ed. Chavez, Medford, Oregon, a brother, Edward, of Stockton, California, and a nephew, Tony Atler, who works at Sandia Corporation in 2462.

Colloquium Presents Speaker on Drag in Magnetic Fields

The Sandia Research Colloquium on Aug. 26 will feature a lecture by Dr. Chieh-Chien Chang of the University of Minnesota describing the drag forces in a magnetic field.

His talk will be entitled "Impulsive Motion of a Flat Plate in Magneto Hydrodynamics." He will also discuss informally laminated (sandwich) structures.

The colloquium will be held at 9:30 a.m. in Bldg. 802, room B-2.

Admiral Shands Thanks Sandians For QA Program

Appreciation for Sandia Corporation's part in a Quality Assurance Program Symposium was expressed in a letter to James W. McRae, Sandia president, from Rear Admiral Courtney Shands, Deputy Commander, Sandia Base. The program was for military inspectors and other military personnel.

The letter said in part: "... The outstanding presentations made by Sandia Corporation personnel contributed immeasurably to the success of this symposium. We are pleased to note that many of those who took part have acquired a new awareness for the results that can be obtained by the application of the quality control procedures outlined in the various presentations..."

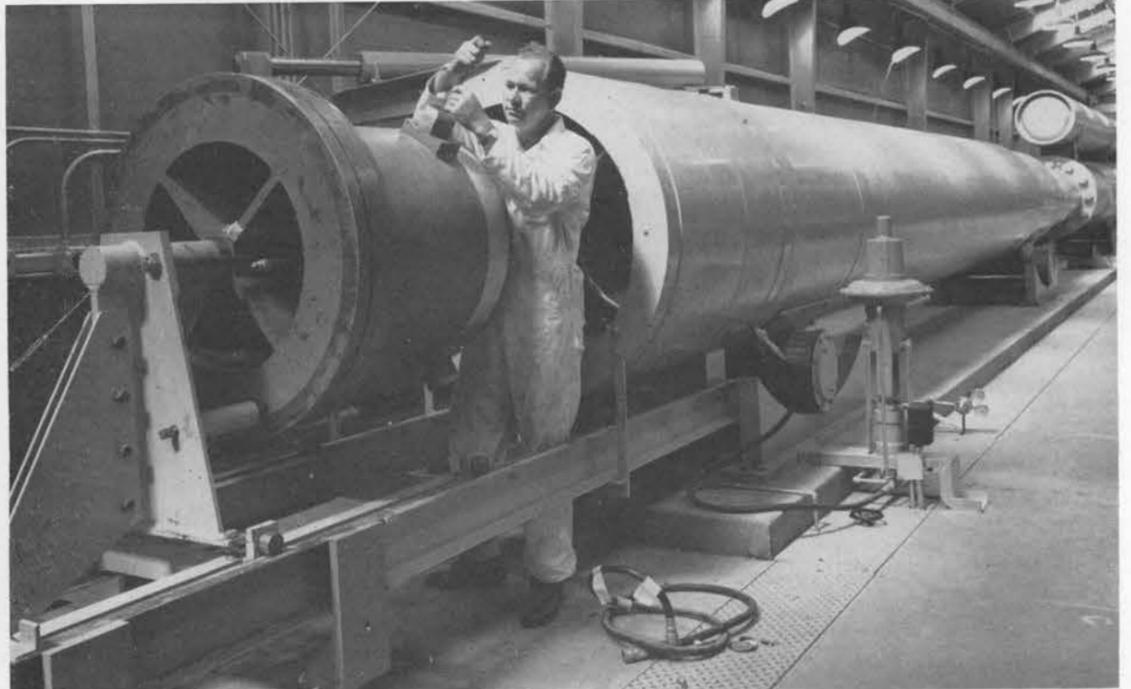
Sandia employees who participated in the symposium include John H. Findlay (5500), George H. Roth (5520), Howard E. Viney (7310), Robert W. DeVore (2710), Ivan M. Moore (7110).

G. C. Holloway (7120), George O. Hawley (5511), Harlan P. Kelsey (5512), Cecil L. Johnson (7319) and Harold F. Dodge, Sandia consultant.

Credit Union Passes \$4,000,000 in Assets

As of June 10, the Sandia Corporation Federal Credit Union showed assets of almost four and one fourth million dollars and loans amounting to over three million dollars.

According to Manager Dale Bellamy, there are about 6300 members in the Credit Union as it approaches its 10th anniversary in October.



MAKING ADJUSTMENTS at the breech end of the gun, located in Area III, is used for high velocity and shock testing of weapon components. The air gun facility is Wilson Payne (1613-4).

Sandia Standards Described In Tech Paper by H. C. Biggs

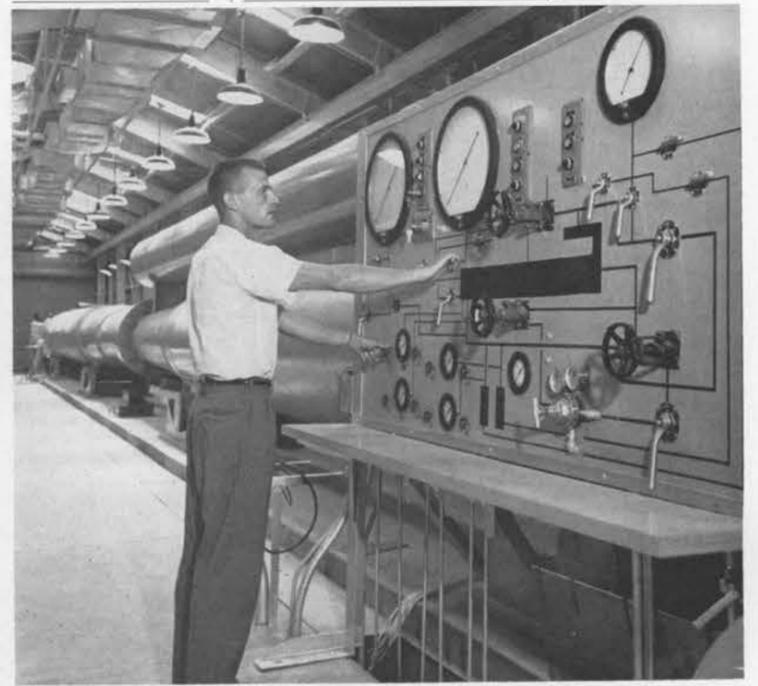
The physical and electrical standardization program for the AEC will be described next week by H. C. Biggs (1650) in a technical paper to be presented at the National Bureau of Standards Conference on Electronic Standards and Measurements at Boulder, Colorado.

Mr. Biggs, manager of the Physical and Electrical Standards Department (1650), traces the development of a centralized standardization program for the AEC weapons system in his paper. He describes the need for the standardization program to control the accuracy and quality of calibration of nuclear weapon components.

In his paper he explains the work of his department in maintaining reference standards for the entire nuclear weapons complex, using fundamental standards of mass, length and time based on standards maintained by the National Bureau of Standards and establishing new standards as required.

Mr. Biggs also points out that Sandia is oftentimes called upon by the AEC to establish new standards, such as in the area of microwave impedance.

The centralized standardization system described in the paper has several advantages, Mr. Biggs said. "It provides a convenient means for the members of the (AEC) complex to calibrate their own instruments. It shortens the lines of communication on standards problems and hence saves time. Finally, it effects a dollar saving to the AEC by assuring a higher yield of acceptable product from its manufacturing system."



PRESSURE TEST of the air gun is made by Don Bauder (1613) on the control panel of the air gun in Area III. The barrels of the gun were fabricated from two 16" naval cannon shipped to Sandia Corporation Tech Area III from Washington, D. C.

A. R. Bender Dies After Long Illness

Albert R. Bender, retired Sandia Corporation employee, died July



19 after a lengthy illness. He was 65.

Mr. Bender, who worked for Sandia six and one-half years, started in Receiving Inspection, but had been most of the time in Field Inspection Division (2713).

He came to Albuquerque eight years ago from Oklahoma.

Survivors include his widow, twin sons, 14, a daughter, 10, all living in Albuquerque, another son, Capt. Jack Bender, USAF, Sequin, Texas, and another daughter, Mrs. Alberta Tillman, Bridgeport, Conn.

Two Superintendents Named to Albuquerque Chamber of Commerce

L. E. Lamkin and R. E. Hopper have been named Sandia Corporation representatives on the Albuquerque Chamber of Commerce. Mr. Lamkin is Superintendent of Inspection, 2700, and Mr. Hopper is Superintendent of Plant Services, 2400.

They replace E. J. Cooney who has been transferred back to the Bell System and C. W. Campbell who is now at Sandia's Livermore Branch.

Sandia Radio 'Hams' Win Military Praise For Pacific Contacts

The commander of Task Group 7.4 of the Pacific Proving Ground has commended a group of Sandia amateur radio operators for making possible contact between men in the Pacific and their families at home.

In a letter to Joe Tilley (2411), Col. William B. Kieffer said: "Due to the isolated geographical location of the Pacific Proving Ground and the tensions accompanying a project of this type, your contributions to the morale of this command have helped immeasurably. Your unselfishness in devoting many hours to our needs has certainly made our stay here more enjoyable."

This was the first year that official approval was received for contact between the local radio "hams" and stations of the military amateur radio system. Sandians providing the service from Albuquerque are: Joe Tilley, John Halliday (1411), Paul Vandenberg (1614), Ralph Roane (1453), Ed Mileskosky (whose wife works in 5213), E. W. Kersten (7113) and others from time to time.

Their main contacts in the Pacific have been Cedric Senter (1523) and Jack Garriott (5233).

Sympathy

To J. W. Pearce (1614) for the death of his mother in Mount Pleasant, Mich., on July 19.

To Audrey Kroes (2466-1) for the death of her mother on July 27.

To Florence McPherson (7221-1) for the death of her husband recently.

To Mary McClure (7221-1) for the death of her brother recently.

(Continued From Page 1)

Report Arctic Experiences . . .

about 1000 people, mostly Eskimos, and 2000 dogs. The Eskimos come to this village in the summer to hunt and fish in the streams in the bay and delta areas.

"Interestingly enough," Mr. Bice continued, "the rainfall at Kotzebue is similar to Albuquerque's, with only eight inches or so a year. However, there are thousands of little lakes in the area which nev-

er dry up because cool weather lessens evaporation and the permafrost (frozen soil) prevents seepage."

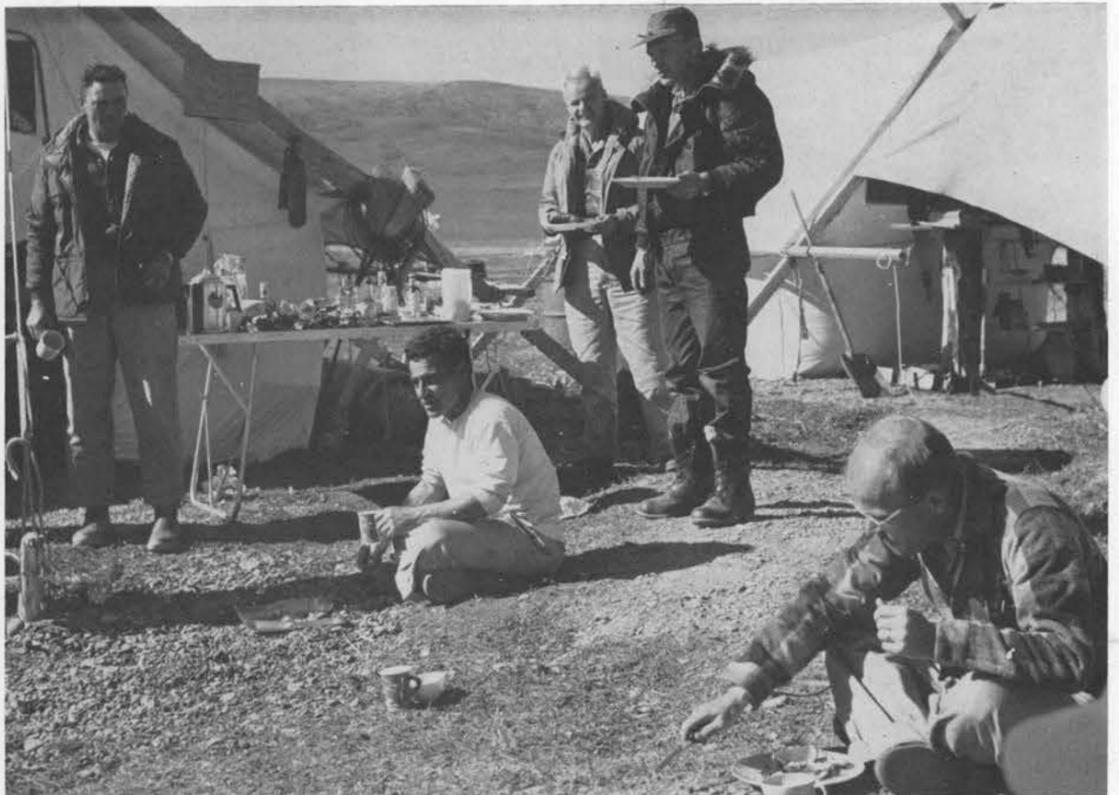
Both Dr. Merritt and Mr. Bice reported that Kotzebue "is quite an aromatic village" as a result of meat and fish drying on open-air racks.

Used Bush Plane

The trip from Kotzebue to the proposed harbor site was made by "bush plane," a Cessna 180 known as "the covered wagon of Alaska." The bush plane is the only feasible way to get around in a country where neighbors or settlements are hundreds of miles apart, Mr. Bice pointed out.

On a trip to the harbor site by the small seaplane Mr. Bice discovered that boats come in handy too. After landing in the sea near the survey site the plane drifted away from its moorings and a boat from the campsite returned the party to the wandering plane.

Dr. Merritt reported that while he was camped out at the proposed harbor site one of the members of the party—Dr. Troy L. Pewe of the U. S. Geological Survey team—was the brother of Paul O. Pewe (2513).



CARIBOU BARBEQUE was enjoyed by the survey U.S.G.S.; Ruben Kachadoorian, Chief of the team at the site near Cape Thompson, Alaska. Preparing to chow down are (L to R) Pete Sainsbury, U.S.G.S. party; Sam Howe, Holmes and Narver; Dan Kilgore, AEC-SAN; and M. L. Merritt (5110).

Small World Dept.

(Livermore Special)

The small world theory has been confirmed again (at least for the Hugh Odell family). Before transferring to 8122-2, Hugh lived on Bluewater Road in Albuquerque. On the adjacent corner lived Henry Barnes and family and on the opposite corner lived Edward Curran and family. Both had moved before the Odells came here, the Barnes to Los Angeles, the Currans to Salem, Oregon.

A couple of weekends ago the Barnes made a surprise visit to Hugh at his new home in Livermore. The next day, while the Barnes were still there, the Currans showed up on a surprise visit of their own.

Service Awards



Alfredo Fernandez
2473
Aug. 2, 1948



R. J. Hansen
2100
Aug. 3, 1948



Olin W. Cook
7313
Aug. 5, 1948



L. J. Heilman
7200
Aug. 5, 1948



R. E. Hopper
2400
Aug. 5, 1948



William J. Cocks
1225
Aug. 6, 1948



William E. Holder
5231
Aug. 9, 1948



Ilva R. Baldwin
7225
Aug. 10, 1948

10
Year
Pins



John E. Shine
2154
Aug. 10, 1948



Leo P. Apodaca
7241
Aug. 11, 1948



Raymond N. Arnold
3242
Aug. 11, 1948



Joe Chavez
2473
Aug. 11, 1948



Robert M. Officer
2441
Aug. 11, 1948



James W. Hook, Jr.
7210
Aug. 12, 1948



Jack M. Merrill
5221
Aug. 16, 1948



W. A. Rhinehart
2731
Aug. 16, 1948



Marion E. Schifani
4362
Aug. 16, 1948



Ruth J. Shoup
7123
Aug. 16, 1948



Victor Gabaldon
2153
Aug. 17, 1948



George E. Hansche
5130
Aug. 17, 1948



Shary D. Holmes
1621
Aug. 17, 1948



Truman T. Gillett
7122
Aug. 18, 1948



James C. Laffoon
2232
Aug. 18, 1948



David S. Tafoya
2462
Aug. 18, 1948



Chester R. Clyde
1455
Aug. 19, 1948



Douglas B. Kennedy
7411
Aug. 19, 1948



Alcadio M. Romero
2722
Aug. 19, 1948

Five Year Awards

Aug. 9-15

Joseph H. Placek 2543, R. D. Freyermuth 4332, Woodrow W. Bledsoe 5120, Josephine B. Hanna 4340, Lawrence E. Stone 2121, Carlos Jaramillo 2414, Jerome H. Johnson 1263, Alva Louis Ayers 2151, and Merrill J. Robinson 7411.

Aug. 16-22

Aldis S. Hayes 2711, Leo Henry Bressan 1652, William W. Spence 3242, Cecil D. Foster 2462, and John Mc Lay 1455.

Two Year Certificates

Aug. 9-15

Norman Rosenberg 1461, Paul M. Wallack 2514, Thomas D. Oatman 1245, James L. Hains 5232, Eleanor R. Lenox 2533, Ernest Carey 2152, Sylvia J. Martinez 7225.

Melbra J. Clark 2111, James E. Meek 7123, Rene O. Letourneau 1245, J. V. Scroggin, Jr. 1263, Herbert H. Dykema 7412, Clarence E.

Long 7223, Donald R. Wilsey 8114, Oliver J. Foster 3122.

Earl E. Tomlinson 7312, William E. Reed, Jr. 7312, Sibyl M. Nissen 7225, Clarence C. Fischer 2461, Joyce F. Carnes 4135, Manuel G. Chavez 4135, Stuart V. Ward 2482, Cecil L. Haynes 2153.

Frances M. Schaeffer 7423, Lawrence H. Ivy 5241, Dorothy L. Wisner 2461, George Hernandez 2133, Ann R. Hawk 2231, Carl L. Schuster, II 5253, Julia M. Bode 1261, C. M. Encinas 2474, and Grace M. McGrew 2231.

Constance E. DeWitt 2410, Ellera J. Corwin 2511, Ralph W. Deltenre 1621, Lois E. Rawson 3152, Harold V. Hampton 7412, Joseph C. Newton 1413, Lawrence G. Biggs 1263, Frederick D. Snyder 2131.

Kenneth T. Risley 2481, Joel A. Hamilton 5232, Wilbur F. Stearns 1625, O. Jean Leonard 7411, Arthur D. Mackley 5524, Henri A. Guerin 2153, Hollis L. Brownson 3242, and Sally M. Dyer, 4131.



Arthur J. Roth
1522
Aug. 20, 1948



Ellis A. Turner, Jr.
7422
Aug. 20, 1948



GETTING READY for Livermore's Community Chest Drive is Charles W. Campbell (8200), newly appointed campaign chairman. He is being congratulated on his appointment by John Stief, president of the Livermore Community Chest committee.

V. M. Fields Heads U. S. Naval Research Company at Livermore

(Livermore Special)

Lt. Vernon M. Field, USNR, recently became commanding officer of the Naval Reserve Research Company at Livermore. Lt. Field, who is in Sandia Corporation Organization 8124-1, relieved Cmdr. Roger G. Preston, who works at UCRL.

Other Livermore Branch members in the Company are Joseph J. Sheridan (8131-1), a Navy lieutenant and assistant training officer for the Company; Ralph H. Richards (8124-1), an Air Force captain and assistant program officer; and David H. Hurley (8221-2), a Navy lieutenant.

Rooms Needed For Summer Employees

Can you accommodate an extra person in your home for a few weeks?

Living quarters are needed by a group of Sandia summer employees who have been staying in the University of New Mexico men's dormitory. The hot water in the building will be shut off Aug. 25 and they will need to move. They need housing for the last three weeks of their stay in Albuquerque.

Last year men making the move paid for their short-time quarters at the same rate they paid for living in the dormitory—\$1 per day.

Any employee who has a room that can be rented to one of these men may call Eleanor Kelly (3151) ext. 43256.

C. W. Campbell Heads Livermore Chest Campaign

(Livermore Special)

Charles W. Campbell, Superintendent of Staff Services, has been named campaign chairman for the Community Chest Drive in Livermore, Calif.

Mr. Campbell's role in the drive, which will start in September, was announced recently by John Stief, president of the Livermore Community Chest organization.

Mr. Campbell is now organizing a staff for the community campaign and faces a somewhat different job than chairman of past drives in the California City. For this first time, Livermore will take part in the Alameda County United Crusade. In previous years Livermore conducted an independent single fund drive.

W. A. Little (8122) has been named to head the Chest drive inside the Sandia Livermore Branch. His committee will be announced later.

This year's drive will be the third successive campaign in the Branch since it was set up in 1956. Mr. Campbell, a veteran of Albuquerque Chest drives, transferred to Livermore earlier this year.

Paper Presented

A paper was presented recently by two Sandians at the American Society for Testing Materials meeting on Mass Spectrometry in New Orleans.

M. K. Laufer (1651) and J. G. King (2532) authored the paper entitled "Practical Aspects of Mass Spectrometry in Quantitative Leak Detection."



SANDIA TABLE TENNIS LEAGUE CHAMPS are (2711), Tom Kelly (2554), M. L. Heisler (1611), (L to R) Harlan E. Morris (1265), Max Pons Gene Lucero (2721), and Eugene Chavez (2722).

Physical Checkups Being Offered Employees Nearing Retirement Age

Employees aged 60-64 inclusive who have five years of service with Sandia Corporation are being offered the opportunity to have an annual physical examination free of charge. For some time such examinations have been given to 25 employees on postponed retirement (ages 65-69).

Employees in the new age group are being included in the periodic physical examination service by the Medical Department to better help them prepare for retirement. "An inventory of health," says Dr. S. P. Bliss, Corporation Medical Director, "is tremendously helpful in the years immediately prior to retirement." He points out that these examinations often discover illnesses in early stages and make successful treatment possible.

Employees who are eligible are being notified of these examin-

ations. Examination calls for two visits to the Medical Department. In the final visit the employee has a complete discussion of the findings with the doctors.

The results of these examinations are confidential. They will not be revealed to anyone without approval of the employee. If the employee desires, the results of the examination will be forwarded to the employee's personal physician.

At Fort Bliss

C. E. Sanday, Bob Edwards and Charles Barnes (1542) will be attending summer camp for two weeks at Fort Bliss as part of the annual New Mexico National Guard encampment.

Wide Variety of Items To Be Sold By Sandia Reclamation Department

Invitations to bid have been sent out by Sandia Corporation on a wide variety of electronic gear, cameras and camera equipment, and miscellaneous items. Bids are to be made on individual items.

Included in the listings is a scanning oscillator, camera lens, motion picture cameras, a film dryer, 8-channel amplifier, butane heaters, generators, radio tone transmitters and rectifiers.

Sealed bids for one lot must be postmarked no later than Aug. 14. Bids for this lot will be opened Aug. 21. Bids on the other lot must be postmarked no later than Aug. 27. Bid opening for this group will be Sept. 3. Bids are opened at 2 p.m.

Forms for bidding are available at the Sandia Salvage Yard. Further information may be secured from R. K. Leahy or G. W. Browning, Receiving and Reclamation Department.

Emergency Reporting Center Part of Sandia Disaster Plan

Softball Playoffs

The Sandia Corporation Softball League playoffs will be held Aug. 11 and 13 beginning at 6:45 p.m. on Diamond "C," Sandia Base. The championship game is scheduled for Aug. 15 on Diamond "C" beginning at 7 p.m.

Final Softball Standings

"A" League		
Team	Wins	Losses
2500-I	13	1
1400	11	3
3100	9	5
4100	7	7
1200-II	5	9
7200-II	4	10
4300	4	10
7400-II	3	11

"B" League		
Team	Wins	Losses
1200-I	14	4
2100	14	4
2400	13	5
5100	11	7
7400-I	11	7
5200	8	10
5500	8	10
2500-II	5	13
1600	4	14
2700	2	16

Batting Records Employee Softball League

Team	O.A.B	Hits	B.A.
Leo White	1400	37	.568
Gordon Ross	3100	39	.538
Ken Medearis	1200-II	26	.538
Tom Donham	2500-I	41	.537
Bernard Goncher	3100	22	.531
Cliff Taylor	2100	42	.524
Ron Zottnick	2500-I	50	.520
Robert Christopher	5500	47	.511
Ken Flynn	5500	36	.500
George Horne, Jr.	4100	36	.500

Doubles—Ron Zottnick, 2500-I, 11; John Vick, 1200-I, 10
 Triples—D. R. Atkinson, 2100, 5
 Gordon Ross, 3100, 4
 Robert Christopher, 5500, 4
 Home Runs—Ken Flynn, 5500, 6
 John Vick, 1200-I, 6

Pitching Records

Team	Wins	Losses	Pct.
Dan Grim	1500-I	9	.900
Ken Gillespie	2400	8	.886
Jim Manweller	1200-I	11	.846
Palmer Landis	7400-I	8	.800
Cliff Taylor	2100	7	.778
Cliff Rudy	2400	9	.750
Wally Jungmeyer	5100	9	.750

Emergency reporting centers for Sandia employees have been set up in four towns some distance from Albuquerque as part of the disaster planning program of the Corporation.

The centers are located as follows:

In Farmington, 185 miles north-west of Albuquerque, the Sandia emergency headquarters are 209 E. Main Street.

In Gallup, 130 miles west, headquarters are at Aztec and Second Street.

In Socorro, 75 miles south, headquarters are at 232-234 Fisher Avenue.

In Tucumcari, 175 miles east, headquarters are at 225 E. Center Street.

Purpose of the reporting centers, which were set up several months ago, is to provide facilities for registration of employees as an assist to reuniting families and to help resumption of essential activities of Sandia Corporation in event of a national disaster.

Telephone and radio communications equipment have been installed at the reporting centers. Sandia employees are conducting periodic checks of the equipment to keep it in working condition.

Local managers of the telephone companies have been designated custodians of name lists of Sandia Corporation employees at the centers. These lists are kept up to date and would be used by the reporting centers in case of emergency.

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

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

'50 KAISER Traveler, w/work, 9" DeWalt Radial arm saw w/1000 bench, \$175; 4" jointer on stand w/motor, \$40. Jones, AX 9-0879.

UTILITY BOAT, 16 ft., new in April, \$275 or best offer. Cox, AL 6-1977, 510 Espanola NE.

TYPEWRITER, Smith-Corona w/carrying case, \$50. Keyser, AL 6-1285.

3 BRM HOME, Mankin, near bases, schools. Miller, AL 6-2574.

SECTIONAL, 2 piece, brown metallic tweed, lime oak step table, \$20; bedroom set, ash oak, \$20; couch, big chair, wood frame, \$15. Penn, Ext. 37150.

15 FT. TRAILER, '57 DeVille deluxe, sleeps five used once, reasonable. Grotberg, AX 9-1704.

BABY STROLLER w/sun shade, shopping basket, \$10; 35mm camera, Retina Ia, f3.5 lens, case, meter, \$75. Tscholach, CH 2-0405 after 5:30.

2 BRM HOME, carpet, drapes, walled yard, beam ceiling, FHA refinance or 4 1/2% Gl. Stam, AX 9-0297, 9330 Alta Monte NE.

APARTMENT SIZE stove, fully equipped. Oberst, AX 9-6644.

'54 MOTOR SCOOTER, Cushman, \$100. Ross, AL 5-4197, 335 Tulane Dr. NE.

REFRIGERATOR, Westinghouse; Frigidaire electric range, \$110 for both; blue freize couch, miscellaneous furniture, accessories. Wiesch, AL 6-7236.

SWING SET, \$10; boy's 20" bicycle, \$15. Toya, DI 4-2775.

'49 CROSER station wagon, \$85 or best offer. Parman, AL 5-2506.

3 BRM HOME, 1 1/2 baths, separate guest room w/own bath, built-up neighborhood, \$3500 down to \$15,500 FHA. Crosby, AL 6-5189 after 5.

ELECTRIC DRILL, new 1/4", new band saw (Tote saw), both \$30 or sell separately. Shelton, AL 5-1887, 416 Morningside NE.

MODERN FURNITURE including sectional, 2 tables, mirror, lamps, bookcase bed; '55 Thunderbird, Fordomatic, 2 tops, power. Alberts, Ext. 33161.

RONDINA ACCORDIAN, 12 bass, w/case, ideal for beginner, \$40. Williams, AX 9-3828.

FIESTA PLEATING, \$1.50 or \$2. Wagman, AX 9-5831.

9x12 Tent, good for hunting, first offer gets it. Hubbard, AX 9-7012.

35mm CAMERA, Voigtlander, Prominent F1.5 lens 1/500 sec, with/case, lens shade, filters, cost \$310, sell for \$175 or best offer. Bliss, CH 3-0189.

MATCHING COUCHES, two, w/wrought iron legs, bolsters, no arms; Electroflux w/attachments; trade for desk and/or one couch. Bowen, AL 6-3696 after 5.

POWER LAWNMOWER, \$20; and 16 gauge single shot shotgun w/box of ammo, \$25. Scranton, AX 9-4902.

SIGNAL GENERATOR, N.R.I. professional model, 170 KC to 60 MC, \$35. Sayers, AL 5-5773 after 5:30.

POWER SUPPLIES, 1000 V. @ 400 Mils, U.T.C. Components, \$10; double T.P.T.G. 200 MC Oscillators w/four 826's, \$6. Fenstermacher, AX 9-0200.

MOLDS FOR complete set of dishes, ceramic paints, make offer. Whitehill, AL 6-6777.

WASHER, Easy-Spin dry, divan and chair. Reinertsen, AL 5-1954.

'58 FAIRLANE 500, 2-door, hardtop, 9000 horse miles, fully equipped except air conditioning, list \$3550, sell cash \$2445. Atkinson, AX 9-3250.

COMPLETE HOUSE of furniture and appliances, most nearly new, if you don't like price, make offer. Biegel, DI 4-3724.

BLOOD-COLORED desk, thick glass to fit top; adjustable fluorescent desk lamp, all \$25; unused high quality magnetic tape cheap. Fulcher, AL 5-6182.

BABY CRIB, blond, mattress and cover w/crib cover, \$18. Freund, AX 9-3716.

POCKET BOOK editions, 10 cents each; deck chairs, 2 folding, \$1.50 cents. Vale, Ext. 22284.

'57 FORD Fairlane 500, 4-door, hardtop, Victoria, automatic transmission, R&H, WW tires, other extras, \$2550. Fjelseth, Ext. 20298, 3225-H 34th St. Sandia Base.

'55 CHEVROLET, Bel-Air 4-door, 6 cylinder, standard transmission, priced to sell, Goris, AX 9-2924.

VACUUM CLEANER, hand portable, Westinghouse, new \$15. Corney, AL 5-1490.

RELAXASIZOR, deluxe attachments, \$110. Gay, AX 9-5625.

'56 MERCURY Montclair 4-door sedan R&H, MOM, WSW, PS, PB, TG, 27,000 miles, \$1750. Fornero, AL 5-9879.

3 BRM HOME, 1 1/2 baths, den, carport, fireplace, patio, air conditioned, carpets, carpeting, corner lot, close to schools, \$500 down. Kosanda, AX 9-1373.

21" TV, Zenith Console, \$50; girl's bike, \$10; Baby bed, \$10; pair lamps, \$5; two record players, \$5 each. Wagoner, AL 5-9974.

DALMATIAN PUPS, purebred, no papers, well marked, males \$25, females \$20; partial roll of wire fencing cheap. Minnear, DI 4-5419 after 6.

COFFEE TABLE, light wood, \$7.50; 4-drawer mahogany vanity dresser, \$8; king-size headboard bookcase, light wood, \$18. Weimer, AL 6-0327.

3/4 ACRE LOT at Sandia Knolls, \$850 (1956 price still holds). For information about down payment and monthly payments call AL 6-5434, Mantoya.

3 BRM. HOUSE, by owner, 1 1/2 baths, pitched roof, air conditioned, 2 car garage, landscaped, near school, NE location. Wallis, AL 6-4241.

MICRO MIDGET race car w/trailer and spares, \$200; one horse trailer, \$90. Humble, AL 5-3706, 336 Gen. Patch NE.

NEXT

DEADLINE

FOR SHOPPING CENTER ADS
Friday Noon, Aug. 15

TYPEWRITER, Underwood, standard model, \$30. Binder, AX 9-2937.

'57 KARMANN GHIA Volkswagen, two tone brown, clean, sell for blue book list, \$2165. Wilson, Ext. 42242.

'57 ELECTRIC RANGE, 30 inch, Frigidaire, used 10 months. Shroka, Ext. 23280, 3272 47th St., Sandia Base.

SAMOLED PUPPY, AKC registered, 4 months old, choice of either male or female, \$40. Koetter, AM 8-1009, 1108 Indiana SE.

SELMER FLUTE, used only 3 months; GE transistor radio; umbrella tent, 9x11. Nissen, 629 Alvarado Dr. SE.

TRAILER Awaiting, 27', green and white stripe, \$20. Coleman, AL 6-3241.

SNOW STUCCO HOME, pueblo-type, landscaped, carpeted, newly-painted, immediate possession, \$13,000, 4 1/2% Gl, owner sale; miscellaneous furnishings also. Hittle, AX 9-6863 evenings.

'57 PONTIAC, 4-door sedan, dark green, hydramatic, PS, PB, air-conditioned heater, 8700 miles. Williams, AL 5-7860.

3 BRM HOUSE, large kitchen, separate dining room, landscaped, patio, cooler, flexible terms. Hutton, AL 6-3654.

PLAYPEN, \$10; portable crib, \$8; 2 safety gates (folding), \$2. Cotter, AL 6-0326.

CAR COOLER, evaporative \$5; hand lawn mower, \$5; screen door, \$3; back door, \$5; 6-foot Venetian blind, \$5. Southerland, AL 6-5865.

EVAPORATIVE COOLER, 4000 CFM, circulating pump and float, adjustable vanes and louvers, reasonable, \$70. Jenkins, Ext. 28180, 3407 51st Loop, Sandia Base.

'49 PICKUP, 1/2 ton Studebaker, Randle, AL 6-1747.

UNITED FREEZER, upright type w/double doors, 15 cu. ft., \$225. Honeycutt, AL 5-5219.

UMBRELLA TENT, 9x9, \$10; 2 lots, near Menaul and Juan Tabo. Marehouse, AX 9-0028.

3 BRM. HOME, Mossman resale, 1 1/2 baths, air conditioned, carpeted, drapes, fireplace, patio, \$3500 down, assume Gl loan. Schonberg, AL 6-3073.

ALFALFA, 95 cents per bale; GE window air conditioner; 3/4 ton refrigerator type L200. Harley, CH 2-8795.

LUDWIG DRUM, suitable for school band, \$20; medium size dog house, \$6. Cullley, AL 6-6308 after 5.

2 RUGER single six 22's, used, \$50 each. Bains, AX 9-1560.

SPIDER WEB turquoise and silver bracelet, two sterling guards, \$25. Braley, AL 6-6622.

GAS STOVE, clean, cheap. Morrison, CH 3-9829 after 6.

3 BRM HOME 1 1/2 bath, brick Hoff-man w/95 foot frontage, landscaped, air conditioned, carpeted, \$15,750, substantial down. Grymko, AX 9-4053.

BABY BED, Maple, spring Kantwet mattress, baby chest of drawers, \$35. Thomas, AX 9-4070, 2622 Gen. Marshall NE.

'51 STUDEBAKER Commander V-8, automatic transmission, radio, new brakes, \$275 or best offer. Summer, AX 9-1912.

ROLL AWAY BED w/inner-spring mattress; full size coil spring bed, \$30; study table, oak, w/lock on drawer, \$5. Halliday, AL 6-6685.

26" BICYCLE, girl's, \$15. Atkins, AL 5-8849.

GAS RANGE, 36", one year old, best offer. Cannon, AX 9-4592.

MATERNITY CLOTHES, size 12-14, \$1 to \$10. Joseph, AX 9-6989.

15' VACATION TRAILER, \$550; 1 ton thermostatically controlled window type air conditioner, \$150. Mays, AX 9-5602.

1 BRM HOUSE, garage, \$2,250. Mann, Ext. 24239.

'49 CHRYSLER Tudor, less than 65,000 actual miles, priced under 5 cents per pound, only \$165 cash. Cultreri, AX 9-0579.

3 BRM HOUSE, 10 minutes from Base, walled backyard, carport, stove, refrigerator, \$750 down, \$9500 total. Abbott, AM 8-2225, 420 Gen. Hodges NE.

CHAISE LOUNGE folding, arm rest, thick foam rubber pads, attractive pattern, nylon finish, unused, \$30. Terry, AL 6-7112, 5301 Marble NE.

'53 FORD V8, two-tone, customized, R&H, overdrive, 4 new tires and tubes, new 36 month battery, \$495. Salazar, CH 3-0251.

DOUBLE BED, blond bookcase headboard, mattress, box spring, \$35. Ryan, AX 9-5736, 1521 Espejo Tr.

RECYCLING TOOL, Nu-Line Jr., \$15 w/30-30 dies, \$17.50. Galbraith, AX 9-6554.

ELECTRIC BLANKET, blue, orlon-wool mixture, single control, \$8. Hughes, Ext. 23260.

'52 FORDOR sedan, heater, new transmission, battery, Bargain to dispose. Campbell, Ext. 29192 after 6 p.m.

'52 PONTIAC tudor deluxe R&H, hydramatic, clean, recent overhaul engine and front end, \$395. Houston, Ext. 35187 after 4:30.

'58 KARMANN GHIA Volkswagen, low mileage, will trade. Munn, CH 2-8239 after 4.

DEEP FREEZE, 11 cubic foot chest type, \$100. Pope, AL 5-6702, 816 Val Verde SE.

CAMPING TRAILER, 14 foot Crown. Young, AL 5-8193, 837 Valencia Dr. SE after 5.

'56 HARLEY DAVIDSON Hummer 125, \$150. Pearson, AL 5-7125.

'57 ELECTRIC RANGE, twin ovens, automatic timer, built-in rotisserie, cost \$550, sell for \$250. Meyer, AL 6-3926.

AUTOMATIC WASHER, Maytag, sell for \$75. Montoya, CH 2-3197.

'54 CHEVROLET, 2-door, 210, tu-tone tan, WW, R&H, \$750. Carter, AM 8-1677 after 5.

'53 PONTIAC 4-door, R&H, hydramatic, priced right. Hanen, Ext. 25268, 3346 48th Loop, Sandia Base.

PORTABLE GENERATOR, 110 v AC Gasoline powered, 500 watts or more. Hungate, AL 6-6545.

EMPLOYED WOMAN to share 5-room house. Wilson, AL 6-2630.

HOMES FOR Calico Kate's 15th litter, can leave home after Aug. 24. Johnson, AL 5-8851.

LOST AND FOUND

LOST—Solitaire ruby ring, checkbook of Wm. Fuller, keys in plastic holder, black rosary, Sheaffer black and silver pen, fine line green pencil, safety prescription bifocal green frame glasses. LOST AND FOUND, Ext. 26149.

FOUND—Man's black Hawthorne English bike found in area approximately 6 months ago; man's hat, sunglasses found in housing area, cat w/1957 rabies tag Laian Air Base. LOST AND FOUND, Ext. 26149.

Livermore Shopping Center FOR SALE

POWER MOWER, Toro rotary 18", '54 model, recently reconditioned. \$45. Perkowski, HI 7-4039.

WELDING MACHINE, lightweight, unused 30 amp capacity, can be used for carbon arc or stinger, portable, \$10. Hubner, CL 4-4134.

DISHWASHER, James Portable, all stainless steel interior, washes, sterilizes, and dries automatically, \$25. Richards, HI 7-4389.

1956 Hudson Rambler, 4 door sedan, w/radio, heater, hydramatic drive, low mileage, good condition. Booth, HI 7-5723.

STALL SHOWER, complete, in original carton. Excellent for summer cabin or extra shower. Cost \$50, will take \$25. Wells, HI 7-3446.

RCA SHORT WAVE Receiver, BC 348H, \$40. 410B shotgun, \$10. 12 gauge shotgun, \$15. R. S. Cook, HI 7-3525.

1937 PACKARD sedan, four good tires, extra parts, \$25. Ivarson, HI 7-2487 after 5 p.m.

1955 METROPOLITAN convertible, w/w tires, heater, radio, good condition, low mileage, \$500. Imlig, VI 6-2382.

TRAILER, single wheel, frame mounting, 4 foot by 6 foot box, with waterproof cover, like new, best offer. Wilcox, HI 7-4064.

RANGE, GAS, good condition, \$35. Three-piece sectional, green, \$130. Rindone, HI 7-4438.

TRAILER, CAMPING, 1957 Mercury, 18-foot deluxe, floor heater, awning, sleeps six. Drummond, HI 7-5856.

VANITY, WALNUT, circular mirror, 4 drawer, \$20. Three piece sectional, Frieze, reversible cushion, rose, \$25. Johnston, HI 7-1269.

COOLER, evaporating, 4000 cfm, squirrel cage, recirculating pump, used one season, \$75. Wilbanks, 509 Rincon Ave.

WANTED

TO JOIN car pool, Rincon Ave., or vicinity to Sandia Parking lot. Wilbanks, 509 Rincon Avenue.

WORKING MOTHER desires child care for first grader. Vicinity of Kelly and Kennedy. Resenius, HI 7-3011.



DEPARTMENT MANAGERS E. Lee Deeter (1540), left, and Thomas Marker (1520) both celebrated their 10th anniversaries with Sandia Corporation on Aug. 2. They received a giant 10 year pin and cake decorated with a Thunderbird from co-workers.

Length-of-Service Report

Number of 'Old Timers' At Sandia Shows Steady Increase

John T. Watkins Retires Next Week

Retiring next week will be John T. Watkins, who has worked in Janitor Service Division 2474 almost seven and one half years.

Mr. Watkins plans to take it easy, though he says he's always enjoyed hunting and fishing.

He and his wife came to Albuquerque from Denver eight years ago and live at 402 San Clemente NW.

He has three children—a son living in Albuquerque and a son and daughter in Denver—and seven grandchildren.

Welcome Newcomers

July 21-Aug. 1

Albuquerque	
George Baca	2474
Leo G. Baca	2418
*Dominic R. Bontempi	7412
Judith M. Brown	2111
Clyde H. Deeds	2466
Marjorie C. Donaldson	3153
Alberta K. Dougherty	4314
Kent R. Drummond	1283
James M. Ethernott	7216
Carolyn J. Evans	7412
Carl R. Gaugler	7412
John E. Hagar	2461
Carl K. Hoffman	2541
Euell E. Knudson, Jr.	7412
Gerold L. Kramer	4333
Roy O. Mills	3161
Richard G. Oliverira	7232
Jose L. Pecos	2162
Louis H. Sanders	2464
John R. Schinabeck	2544
Joyce E. Sirls	7225
Lillian T. Thomas	2466
Lorraine B. Whitlow	7225
Alva R. Winchester	7412
Billy B. Womack	7412
Arizona	
Mary K. Beard, Phoenix	2461
California	
*F. Claude Hemen, Los Angeles	3243
Raymond A. Leri, Richmond	8114-4
Ramona K. Rothe, San Leandro	8212-3
Iida F. Herbert, Castro Valley	8212-3
Grace L. Matuska, Livermore	8212-3
John E. Marion, Sunnyvale	8131-1
Marion A. Alexander, Livermore	8222-3
Hesa Yano, Oakland	8114-2
Dennis B. Sparger, Jr., Livermore	8222-1
Marilyn A. Larson, Castro Valley	8223-1
Celso Vasquez, Hayward	8224-1
Neil Givens, Fresno	8221-1
John L. Daniel, Lodi	8111-2
Mary C. Aven, Livermore	8114-2
James W. Smith, Millbrae	8222-1
Bette A. Hardy, Hayward	8212-3
Connie I. Garber, Castro Valley	8212-3
John R. Martin, San Diego	8122-2
Anson M. Averell, Diablo	8111-1
Kenneth Barnes, Livermore	8113-1
Connecticut	
Richard E. Simmons, New Haven	1262
Illinois	
John B. James, Jr., Chicago	1263
James E. Van Meter, Mendota	5131
Thomas D. Brumleve, Urbana	8224-3
Indiana	
Ray G. Mosteller, Greencastle	1541
David V. Knetzer, Indianapolis	8114-1
Paul L. Hargheheimer, Brighton	2554
Massachusetts	
Arthur D. Auba, Brookline	1611
Michigan	
John Unger, Garmington	2554
Missouri	
Paul C. Jesse, Kansas City	1222
New Jersey	
Robert F. Schaefer, Sayreville	8111-2
New Mexico	
William J. Zagar, Clayton	7412
Ohio	
Harold L. Anderson, Fairborn	2541
Oregon	
Richard T. Dillon, Eugene	5122
Pennsylvania	
Walter R. Hrab, Philadelphia	1218
Washington	
Victor A. Peterson, Seattle	8133-1
Wisconsin	
Henry C. Rumm, Jr., West Bend	2544
* Denotes Rehired	
Returned from Leave	
Jean Horvath	5512
Ronald Williams	7411
Vernon D. Peckham	1456

The awarding of 10-year service pins to three superintendents this week brought to 15 the number of "Large Staff" officials with over 10 years tenure. All but two of the superintendents or above (except Bell System personnel) now claim "old timer" status.

Newest arrival in the decade category are R. J. Hansen, 2100, L. J. Heilman, 7200, and R. E. Hopper, 2400. All three came up through the ranks of supervisory positions.

Since the start of the Service Award program in January 1956, the employee body has been maturing steadily. At that time there were only 24 employees with over 10 years service.

Since then 407 more employees have passed that milestone, to bring the total to 431 as of today (Aug. 8). More than 200 of those received their awards during the past seven months. Only one employee has passed the 15-year mark, however. W. E. "Bill" Caldes, 5511, claims that distinction.

What percentage of the people on the roll 10 years ago are still around? Personnel Department figures show that on Aug. 1, 1948 (Sandia was then a branch of Los Alamos Scientific Laboratory) there were 765 employees at Sandia.

Thus, it appears that some 56.3 per cent of those people are still with us. The figures are not completely accurate since there were some people who later transferred to Sandia from LASL and were given credit for their previous service in the weapons program.

Sandia Carnival Tickets Offered At Reduced Rate

Advance sale tickets will be available shortly from all Sandia Corporation department managers' secretaries for the carnival to be held on Sandia Base Aug. 29 through Sept. 1 for the benefit of youth groups on Sandia Base.

Ticket sales booths are being set up at strategic locations in the tech area for the convenience of employees. The tickets will provide holders with a 20 per cent savings on the more than 30 rides at the carnival. Most rides will cost 25 cents each but advance sale tickets will provide five rides for \$1.

Proceeds from the carnival will be used to support the Combined Youth Activities Fund which supports Little League baseball and tennis, Boy Scouts, Explorer Scouts, Cub Scouts, Girl Scouts, Brownies, Junior Rifle Club and the community center on Sandia Base.

Sandia Corporation representative on the joint committee is L. J. Heilman, Superintendent of Research and Development Staff Services (7200). Serving on subcommittees are Howard Viney (7310), promotion; W. T. Moffat (5240), operations; and George Horne, Jr., (4141), food and drink concessions.

UNM and Sandia Agree To Extend Educational Aids

Sandia Corporation and the University of New Mexico last week signed an agreement which assures the continuation of the Educational Aids Program for another year for both graduate students and undergraduates.

This third graduate subsidy agreement between the Corporation and the University is for the purpose of helping the University expand its offerings in fields needed now and in the future by Sandia. This includes engineering, mathematics, physics, business administration and allied fields where further knowledge and skills will benefit the mission of the Corporation.

The agreement provides for subsidy payments to the University of sums equal to the tuition charged graduate students.

Sandia's educational aids program provides that students who successfully complete approved studies at the University will have one half of their tuition fee refunded to them by the Corporation.

A new clause in this year's agreement provides for Sandia Corporation to loan surplus equipment needed in class work for Sandia students to the University so that maximum benefit may be received from their educational work there.

T. L. Bogue Retires After Nine Years Service With Sandia

Travis L. Bogue retired at the end of July after almost nine years with Sandia Corporation.

He had been working in Electromechanical Component Division 2541 for about a year and before that had been in Material Standards, Technical Services and Publications divisions.

Mr. Bogue has no plans at the moment, and says he'll "just do the usual puttering around the house." He is a member of the American Legion Bugle and Drum Corps and the Shrine Band.

He came to Albuquerque from Tulsa, Oklahoma, where he was employed by the Public Service Company for 24 years. Mr. Bogue is a graduate of Western Illinois State Teachers College, and taught for five years following college before entering the Army during World War I.

Livermore Branch to Have Special Section Of Shopping Center

(Livermore Special)

Sandia Corporation employees located at Livermore will find items they submit for the Sandia Lab News Shopping Center in a special section in the future.

Livermore Sandians should submit their advertisements to Information Services Section 8221-1. The deadline is Tuesday noon of the week prior to publication. All other regulations for use of the Shopping Center are listed each issue in a box appearing with the section.

Sandia Players Win Triple-A City Tourney

The Thunderbird softball team, consisting of Corporation players, won the AAA Twilight Softball League with a standing of 12 wins and five losses.

Co-managers of the team, named after the Sandia emblem, are Jim Tichenor (5132) and Joe Bradshaw (1614).

Members include: H. S. Dennis (1541), Jim Fjelseth (2461), Foy Graves (2461), Jim Hay (2152), Len Kracko (1652), Bob Loncharich (5144), Julian Lovato (7412), Al Martin (7412), Gene Medina (1614), Walt Mooney (2154), Sam Samuelson (7411), Vic Sirwinski (1541), Bob Stewart (2112), Larry Tabor (7412) and Ted Trybul (5143).

Supervisory Appointments

ROBERT L. PEURIFOY, JR. to supervisor of Project Division 1245, Engineering Department.

A Corporation employee since June 1952, "Bob's" duties have been in Systems Development organizations 1210 and 1240 doing project and electrical systems work. He has been a Section supervisor since March 1956. He received a BS degree in Electrical Engineering from Texas A & M College in 1952.

He is a member of the American Institute of Electrical Engineers, the Institute of Radio Engineers, and is a registered professional engineer in New Mexico.



HARRY W. CLAY to supervisor of Dispatch Section 2473-1, Motor Pool Division.

Harry has been at Sandia almost nine years working the entire time in the same division, first as taxi driver and then as a dispatcher.

Before coming to Sandia he worked for Creamland Dairies and an Albuquerque feed store. Prior to that Harry managed a store for Southwestern Junior College in Keene, Texas.

He attended Phillips University in Enid, Oklahoma, and has taken several courses at Southwestern Junior College and the University of New Mexico.



BERNARD OSTLE to supervisor of newly-created Statistics Section 1592-1, Statistics and Evaluation Division.

"Bernie" has been with Sandia for one year working in the same division. Prior to that, he was a Professor of Mathematics and Director of the Statistics Laboratory at Montana State College from 1952-1957.

He received a PhD degree in Statistics from Iowa State College in 1949 where he worked as an Assistant Professor of Statistics from 1947-1952. He also holds a BA degree in Mathematics and an MA degree in Economics from the University of British Columbia, Vancouver, B.C.

Bernie is the author of a textbook, *Statistics in Research*, and has written numerous other technical articles.

He belongs to Sigma Xi, research honorary society; Pi Mu Epsilon, mathematics honorary society, and Phi Kappa Phi, scholastic honorary. Bernie also has membership in the following professional societies: American Statistical Association, Institute of Mathematical Statistics, Biometrics Society, American Society for Quality Control and the Operations Research Society of America.



ANDREW A. LIEBER to supervisor of Fuzing Systems Division 1262, Electrical Systems Department.

"Andy" has worked at Sandia six years, and has been a section supervisor for the past four years. He has done systems design and project-type work with the Corporation.

He received a BS in Electrical Engineering from the University of Louisville, Kentucky, in 1952.

A registered professional engineer in New Mexico, Andy belongs to Sigma Tau, engineering honorary society, Phi Beta Phi, scholastic honorary, and Omicron Delta Kappa, men's leadership honorary society.

He served in the Army in 1945-1946 in the field artillery.



Horsemen Meet

Rio Grande Horse Association will meet tonight at 7:30 p.m. at the Albuquerque Chamber of Commerce Building and will conduct a horse show Sunday at 6 p.m. at the Sheriff's Posse Grounds on North Edith.

Both the meeting and the show are open to all interested persons it was announced by Irving C. Elliott (7411-5), vice president of the association.

Employees Will See 'Sandia Story' Film In October Premier

"The Sandia Story," a half hour sound color movie describing Sandia Corporation's technical activities, will be first shown in October to employees and their families. The film is now in final stages of printing.

Special arrangements are being made with an Albuquerque theatre for the employee premiere of the film which will be shown for several consecutive days. Copies will be made available for showing at remote locations as well. The movie will then be used for recruiting and public relations activities.

Narrators in the film are Truman Bradley, narrator of the TV series, "Science Fiction Theatre," and Marvin Miller of the TV drama, "The Millionaire." Leading roles in the film are played by Dean Thornbrough (5231), who plays the part of the young engineer, and George Stobie (5230), who portrays Dean's supervisor.

Scenes in the film were shot in Albuquerque, northern New Mexico, Salton Sea, the Nevada Test Site, Livermore and the Bay Area in California. The movie was prepared by the Public Relations Division (3125) with the assistance of numerous other Sandia organizations and was produced by the Air Force Lookout Mountain Motion Picture Laboratory, Hollywood. Tom Zudick, now in 3152, coordinated arrangements for the film and wrote the script.

UNM Faculty Members Meeting Sandians Monday

Employees interested in attending the University of New Mexico will meet at the Coronado Club on Monday, Aug. 11, at 7:30 p.m. The University is sending a delegation of college officials and faculty members to explain general registration procedures, graduate and undergraduate school requirements. They will also be available for individual conferences.

Following the general meeting to cover questions on registration and other matters of wide interest, there will be meetings of those interested in such fields as electrical engineering, mechanical engineering, physics, mathematics, and business administration.

In those groups, employees may receive counseling on choice of course, prerequisites, and course content from University representatives. Tentative class schedules for the fall semester will be available for this meeting.

Last year's meeting held in September attracted approximately 250 Sandians. This year's meeting is being planned earlier because of the University request that new students, both graduates and undergraduates, complete necessary admission procedures before Aug. 15, in order to be accepted as a regular student for the fall semester.