

Idea Design Development Models Prototype Proof Testing Production Planning Production Stockpile

LIFE STORY of a weapon is charted by these cartoons. From the moment it is but a glimmer in the brain of a Sandia engineer to the day it's placed in stockpile, the weapon is in one of these phases. The series of articles beginning here will tell of part Sandia plays in the life of nuclear weapons for Uncle Sam's arsenal.

Sandia Corporation's Place in The Nuclear Weapons Program

Sandia Is AEC's Major Ordnance Engineering Lab



Vol. 9, No. 24 Albuquerque, New Mexico November 29, 1957

EDITOR'S NOTE: In this and five subsequent issues, the Sandia Lab News will publish a series of articles on Sandia Corporation's job in the nuclear weapons program. The articles have been prepared to promote a better understanding among employees, their families and friends, of the scope of operations at Sandia. The story attempts, within the limits of se-

curity, to provide a word picture of what goes on behind the fence, in the next building, or even in the next office. We wish to thank those in the line organizations who helped make this story possible. Readers are cautioned not to elaborate on this material in discussing it with their friends and families to avoid disclosure of classified information.

Part One

If Sandia Corporation's job could be summed up briefly, it could be said that Sandia designs and develops strategic and tactical nuclear weapons around the explosive systems developed by the Los Alamos Scientific Laboratory in New Mexico and the University of California's Radiation Laboratory at Livermore, California. However, just as the complexities of a nuclear weapon cannot be described in a few sentences, neither can Sandia's role in the weapons program be contained in a single paragraph.

Sandia is as complex and far reaching in its operations as the industry of which it is a part, the Atomic Energy Commission, "the nation's biggest industry," according to Lewis L. Strauss, AEC

chairman. Mr. Strauss described this industry as a huge network of factories and research laboratories, all owned by the American taxpayer, turning out one product—nuclear weapons—for a single customer—the armed forces—with one competitor—the Russians.

Naturally it would not be good business practice to reveal trade secrets to a competitor and so the complete story of Sandia has gone untold. Although there would be no breach of security if Macy's told Gimbels, atomic secrets in the hands of an aggressor could cause chaos and destruction. Therefore, many new developments and techniques in the nuclear weapons procedures which have brought about these developments can be told.

Council Social Agencies Makes Plans for Christmas Charity

In an effort to eliminate duplication of effort and to insure that coverage is complete, the various social welfare agencies in Albuquerque have worked out a coordinated program for administering Christmas programs for the needy this year.

Basic change in the plan this year, according to the Council of Social Agencies, is to maintain the privacy of the needy families. No names of charity cases will be given out and all deliveries to the needy families will be made by the recognized welfare agencies which are handling such activities the year around.

In addition to keeping the Christmas program on a dignified and quiet basis, the Council hopes to spread the benefits of the Christmas giving over a wider period. "No one must be without on Christmas Day," says the Council's announcement, "but will stomachs filled on December 25 cease to ache in January, April . . . ?"

Here are the main points of the coordinated program in which the agencies are joining, and which is being offered for the consideration of those who wish to organize or participate in some Christmas charity:

- 1: All agencies (including churches) will register their needy families with the Council of Social Agencies. A check will be made to avoid duplication.
2. The Marines will handle the entire toys distribution program. Each agency involved will be given an allocation of toys for distribution to families they are helping.
3. Grocery orders will be distributed by agencies in lieu of Christmas baskets wherever possible.
4. Donations will be made to and through the participating agencies. Cash donations may be made to any of the participating agencies or to the Department of Public Welfare or Child Welfare Division. These monies are placed in a year-round fund for needed services, food and clothing for individual recipients. Donations of canned goods may be made to the agencies which care for the needy every day: Catholic Charities, Brothers of the Good Shepherd, Christina Kent Day Nursery, Salvation

Army, and All Faiths Receiving Home.

In recent years numerous Sandia Corporation organizations have organized their own Christmas program, sharing with the less fortunate in a variety of ways. These activities are encouraged, not only by the Corporation but by the Council. As in the past, the Em-

ployee Services Division will serve as an information center, but will not have lists of needy families as the Council is maintaining the confidential nature of such information. Another method of helping needy is to send money to CARE. One dollar will buy 26 pounds of food for a family in a foreign country.

As in Past Years Many Sandia Employees To Help Needy Enjoy Happy Christmas

In following with the Christmas tradition of giving gifts and good will, a number of Corporation organizations have already organized committees to collect money or food for needy families.

For the second year an "in lieu of Christmas card fund" policy is being sponsored by the 1400 group. After the first day of collecting the enthusiasm shown by 1400 employees for this worthy cause was staggering. The committee handling details includes: Chet Smith (1410), Bob Jones (1420), Bob Schowers (1440), Gene Glaze (1451), Bob Lindsey (1454), Lyle

Hake (1460) and Leo White (1470).

In organization 7411 A. L. Ouellette has been placed in charge of "Operation Food Basket." On Dec. 2 a collection will be taken among members and the money will be used to purchase food baskets (through a wholesale contact). Next week will also be the Christmas aid target date for 5140.

Members of 5510 have been informed of a forthcoming drive to collect money to adopt one or more needy families during the Christmas season. The money will be used to purchase food and clothing while other needed items

will be donated. Last year the same department bought a family a stove and repaired their house in addition to giving the food, toys and clothing.

Starting next week division secretaries in 2220 will have on their desks collection boxes for money to assist needy families at Christmas.

Division 1624 will divide its Christmas fund money between food, clothing, shoes and other needs for a family.

A similar plan will be followed by organization 3100.

Other organizations are expected to join the above mentioned groups in the Christmas program.



CHRISTMAS DONATION BOXES are being passed around by these representatives of 1400 to aid needy families during the coming holiday season. Committee members include: back row, L to R, Bob Jones (1420), Bob Lindsey (1454), Bob Schowers (1440) and Lyle Hake (1460), front row, Chairman Gene Glaze (1451), Leo White (1470) and Chet Smith (1410). Other Sandians plan similar funds.

Sandia Corporation, the Los Alamos and Livermore Laboratories, along with Hanford, Rocky Flats, Oak Ridge, Savannah River and many others make up the AEC's giant laboratories and production facilities.

Sandia Laboratory is operated for the AEC under a non-profit contract. Western Electric Company, of which Sandia is a subsidiary, receives no fee for its services at Sandia.

This \$60,000,000 laboratory, employing more than 7000 persons, is the AEC's major laboratory for the ordnance engineering phases of atomic weapons research and development. Sandia works closely with the Los Alamos Scientific Laboratory and the University of California's Radiation Laboratory at Livermore, where explosive systems for nuclear weapons are developed.

The AEC's Sandia, Los Alamos and Livermore laboratories share responsibility in the development of nuclear and thermonuclear weapons. Sandia's job is to design usable military weapons around the explosive systems developed at Los Alamos and Livermore. The Sandia part in this joint undertaking is referred to as "weaponizing" a device.

Sandia designs the fuzing and firing systems that will detonate the weapon at a particular time and place, assuring optimum destruction of a specific target. Sandia develops the necessary internal components, including power supplies and timing mechanisms, radars, barometric switches and other components and circuitry which make up the intricate actuating mechanisms. In addition, Sandia designs the bomb "body" or casing in which to house this complex "gadget," with the necessary ballistic features to get the bomb to its destination. In the case of "warheads," Sandia's job is one of teamwork with the missile designers to assure compatibility with the delivery vehicle. The nuclear device must be engi-

(See "Sandia's Place" Page 4)



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Safety-An Employee Accomplishment

The Atomic Energy Commission has presented Sandia Corporation with a plaque in recognition of the employees' accomplishment of working 3,610,632 man-hours without a disabling injury.

The plaque has been proudly placed among the growing display of Sandia safety awards in Bldg. 800 lobby.

Behind the display of this plaque is the satisfying knowledge that Sandia employees have made the Corporation an even safer place to work. The Corporation's prime interest in safety is based on the desire to preserve life and limb and prevent suffering.

The awards resulting from these accomplishments are a tribute to all employees for their parts in making the fine record possible. The Sandia safety record cannot be credited to any one employee or any one organization. It is the result of the combined efforts of all employees, and each employee may feel proud of his or her share in this achievement.



"As A Student Interested In Science . . ."

"As a high school student interested in science," began the letter which asked "should I seek a college education in a chosen field or an on-the-job education program?"

This was the voice of a young American who (before the days of Sputnik) asked Sandia Corporation how he should obtain his training for the future.

Believing that this question is probably asked frequently by students in high school, the Sandia Lab News is reprinting parts of the reply to this young man's letter.

"The need for scientists and engineers is so great that you are advised to pursue a straight college education in the field of engineering or mathematics rather than attempt to obtain an education through an on-the-job or part-time plan . . ."

"Most educators agree that all engineering and mathematics courses are sufficiently rugged to call for undivided attention while in school, if at all possible. An engineering degree is worth putting forth your best effort and full time for a period of four years, rather than stretching out the time required for a degree through an on-the-job plan of eight to 10 years.

"As you are probably aware, most industries today have some type of plan whereby an employee is given financial assistance, and in some instances, time off the job in order to work on a Master's or PhD degree. You can see that if a person goes to college and obtains a degree first, and then continues his work toward a Master's or PhD degree with industry assistance he is in better financial status than by obtaining his degree by an on-the-job process."

Advice was also given on where to look for scholarships and fellowships which are offered by colleges and universities in the United States. Bulletin No. 16, 1951, issued by the United States Office of Education, gives this information. It is available through the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. Price is 55 cents.

Publications which would help on the decision of what college to attend were also quoted. The Engineers' Council for Professional Development, 29 West 39th Street, New York 18, can provide: "After High School What?", "So You Want To Be An Engineer" and "Engineering - A Creative Profession."

Sandia Corporation employees could well use this information in their contribution toward strengthening the scientific prowess of the United States.



THIS 10 POINT BUCK will keep Rudolph E. Lovato (2415) happy until next hunting season. He downed the 200 pound deer in area northwest of Las Vegas.

First Deer

Fern Robinson (7423) is still excited about her first deer hunting trip. While she and her husband were hunting in the Sacramento Mountains near Alamogordo, Fern shot a 95-pound doe.

Other successful hunters were: Arthur J. Shell (5132), Lee Heames (5132), Les Balint (5150) and Earl Anderson (5131).

Sick List

A number of Sandians have been on the sick list for some time. Wishes are extended for their speedy recovery. They are: Roy Kendall (2111), Jim Wincek (7411), Leroy Shoemaker (2152-1), Arthur Johns (2132-1), L. L. Lowe (2132), Wally Smith (4153), Carrie Vick (4135), Wally Nott (4135), Lois Kelley (7422) and Bud Tate (7122-3).

Sandianotes . . .

Mike DiBella 'Shanghaied' By TV Crew; Will Now Be Seen on Network

Caught With His Shutter Open

A photograph in a recent issue of Life Magazine showing TV Western heroes shooting up a saloon prompted the Sandia Lab News photographer Bill Laskar (2462) to call the shots.

In a letter to Life published in a recent issue, Bill pointed out that although the guns were shown firing, their hammers were still cocked. The editor explained that Life's photographer had left his shutter open from the time the guns were cocked until they were fired, catching both actions on the film.

Bill, whose perception is as sharp as his photographs, had a special interest in the picture. His single action Colt .45 won't fire with the hammer cocked.

Blue Ribbon Cat

"Jim Tom," a long-haired part-Persian cat belonging to Polly Loomis (3162), won a blue ribbon in the Albuquerque Cat Show this month. The prize was in the non-championship neuter household pet class.



CORONA AREA provided this deer for Albert Angel and another for Calvin Jackson during a recent hunting trip. Unsuccessful nimrods on the same trip were Gene Cox and Chester Cox. All are in the guard force, 2742.

Congratulations

Born to:

Mr. and Mrs. David Webb (1261-2) a daughter, Danni Laurel, on Nov. 8.

Mr. and Mrs. B. L. Cafferty (5521-2) a son, Lee Leslie, on Nov. 14.

Mr. and Mrs. M. R. Goebel (5521-3) a son on Nov. 13.

Mr. and Mrs. R. M. Ferguson (2462) a son, Ronald Allan, on Nov. 16.

Mr. and Mrs. H. J. Cilke (1423-2) a son, John Francis, on Nov. 8.

Mr. and Mrs. Dan Sheldon (2731) a daughter, Catherine Marie, on Nov. 14.

Mr. and Mrs. Kenneth A. Sarason (1283) a son, Jay Arthur, on Nov. 14. Mary Jo was formerly in 1630.

Mr. and Mrs. Robert Mikkelsen (7111) a daughter, Margaret, on Nov. 14.

Mr. and Mrs. Orlio Montoya (1625-1) a daughter, Sheila Marie, on Nov. 8.

Mr. and Mrs. Vurles Looney (2131-3) a son, Darrell, on Oct. 21.

Mr. and Mrs. Robert Blagg (2133-1) a son, David Lee, on Oct. 27.

Mr. and Mrs. W. P. Brooks (5131) a daughter, Nancy Lee, on Nov. 10.

Mr. and Mrs. John Foster (7122-3) a son, Kurt Matthew, on Nov. 15.

Mr. and Mrs. Loren Blakely (2221-3) a daughter, Lorell Jean, on Nov. 6.

Mr. and Mrs. E. I. Patterson (2721-2) a son, Daniel Lee, on Oct. 31.

Mr. and Mrs. Jim Mauldin (2711) a son, Dane Kris, on Nov. 19.

Mike DiBella (7123-1) will be seen on a network TV program, "The Seven Lively Arts," being shown in Albuquerque, Dec. 15, at 3 p. m. over KGGM.

During a vacation trip to New York City this summer, Mike and his sister were "shanghaied" from their hotel lobby into a waiting sightseeing bus. There, along with about 25 others, they were taken in hand by a team of directors and cameramen to appear in a filmed sequence.

The sequence shows a group of tourists first in Times Square and later in the bus gaping at the tall buildings and being shown points of interest by the guide.

Mike said the CBS crew was most cosmopolitan — the director was from the Midwest, the cameraman was from London, and the assistant director was from Argentina.

Snowbound Horseshoes

A week-end in the Jemez Mountains was enjoyed by nine men from 1422-1 recently at the cabin of C. R. Clyde (1422-1). The men discovered that a special technique was needed to pitch horseshoes in the snow.

Called to Holland

"Joe" Weber, illustrator in technical art, has flown to Holland to be with his mother who is seriously ill. A native of The Netherlands, Joe has been in America since 1936.

Begins Army Service

Reporting for induction in the Army on Nov. 17 was Gary L. Sheldon (8112-2). After eight weeks basic training at Fort Ord, Calif., he will be assigned to another camp to serve six months. Gary, a native of Portland, Ore., joined Sandia a year and a half ago and plans to return to his job at Livermore Branch next summer after completing his military service.

Sympathy

To A. H. "John" Archuleta (3122) for the death of his son, Steven Michael, on Nov. 15.

To Rollin L. Schneider (7311) for the death of his father in Albuquerque on Nov. 16.

To David C. Williams (5131) for the death of his mother, who resided in Portland, Ore.

Weddings and Engagements

Mr. and Mrs. Goebel Davis are at home in Livermore, Calif., after their recent marriage and wedding trip to Idaho and the Pacific Northwest.

Goebel was formerly with organization 1291 and is now assigned to 8120 at the Livermore Branch. His bride, the former Jean Parr, was with 5513.

The couple was married Nov. 21 at Trinity Methodist Church in Albuquerque with a dinner at Casa de Las Huertas in Placitas following the ceremony.

Best wishes are extended to Cynthia D. Mabery (7225 assigned to 5131) on her Thanksgiving marriage to Ramon F. Sedillo.

Cynthia has been at Sandia since last February.



Mrs. Quigley Mrs. Sedillo

Following a honeymoon in Chihuahua, Mexico, Mr. and Mrs. Edward Quigley are now living at 10421 Ralph NE.

Ed and the former Evelyn Clark were married Nov. 16 in the chapel of the First Presbyterian Church. The informal afternoon ceremony was followed by a reception at the Desert Sands.

Ed is supervisor of Analysis Section 2225-1 and Evelyn is a personnel representative in 3152-2.

Congratulations to Mr. and Mrs. Harry Passmore, who were married in Albuquerque on Nov. 8.

The bride, the former Jeanette Come (7226-1), has worked for the Corporation since last December. Harry has been at Sandia since June, 1952, and is in 7412-3.

John Kane Wed

From Illinois comes word from John Kane, (WE retiree while at Sandia), who was with the Corporation for four years. Congratulations are extended to him on his recent marriage to the former Jessie Stephen. The couple is now living at 505 N. William St. in Joliet.

2200 Holiday Dance

Organization 2200 will hold its annual holiday dance at the Coronado Club Friday, Dec. 13, from 8:30 p.m. to 12:30. Music will be furnished by Ray Giles Orchestra. Door prizes will be given.



ARE THESE YOUR GLASSES? Mary Lou Milligan (3153) displays the many lost glasses which may be claimed at the Corporation's Lost and Found desk in Bldg. 829. Mary holds an earring that has been found—clear plastic covering a tiny model of a rocket.

Sandianotes . . .

Sinnotts Watch Parliament Opening While Making Long European Tour

Dogdom Degrees

High scores in three shows added up to a Utility Degree for Lowell Stouder's boxer, one of the few dogs in Albuquerque to win this honor.

To obtain this degree a dog must score at least 170 out of a possible 200 points in three shows. "Diosa" chalked up 188, 182 and 180 at shows in Pueblo and Arizona.

Lowell (who works in 2151) explains that it's unusual for a boxer to achieve this degree because of their limited sense of smell. Usual winners are German shepherds, poodles, and cocker spaniels.

Diosa's daughter, Ebony, at the age of 13 months has already won herself a place in the dogdom Hall of Fame by scoring 195 points in three consecutive shows.

Try, Try Again

George Byrne (5126) is a determined hunter. First trip he went in the Grants area with two companions, they both got their deer, George didn't even see one. Second try Gorge went hunting by himself. He drove to the end of a side road, got out of his car, put on his boots, picked up his gun, saw a buck and shot it.

Student Recognition

Proud parents around Sandia include Pauline Vandellinder (5125-1), whose son Stephen was recently elected president of the student council at McKinley Junior High and Marjorie (5125-1) and Carl (1613) Endres, whose daughter was listed in the latest collegiate Who's Who.

Wedding Anniversaries

Wedding anniversaries prevailed in 2111-1 this month. Mr. and Mrs. Charles Horner celebrated their 19th anniversary on Nov. 18 and Mr. and Mrs. Bill May marked their 10th anniversary on Nov. 15.

Mr. and Mrs. Frank J. Taylor (1473) celebrated their 25th wedding anniversary on Nov. 23.

Mr. and Mrs. Ralph D. Depore (2711) celebrated their 34th wedding anniversary on Nov. 23.

Another anniversary was observed Nov. 26. June (2711) and Earl (2225) Brooks marked their 19th.

Flying Article

The long-awaited article by M. V. Gowdy (7123-2) under the heading of "I Learned About Flying From That!" is appearing in the December issue of *Flying*. The magazine purchased the story last summer.

Call Sent Out For Basketball Players

Organizational meeting for the 1957-58 Sandia Employees Basketball association will be held today. The Sandia Base gymnasium will be available for practice sessions beginning Monday. League play is expected to start about Dec. 15.

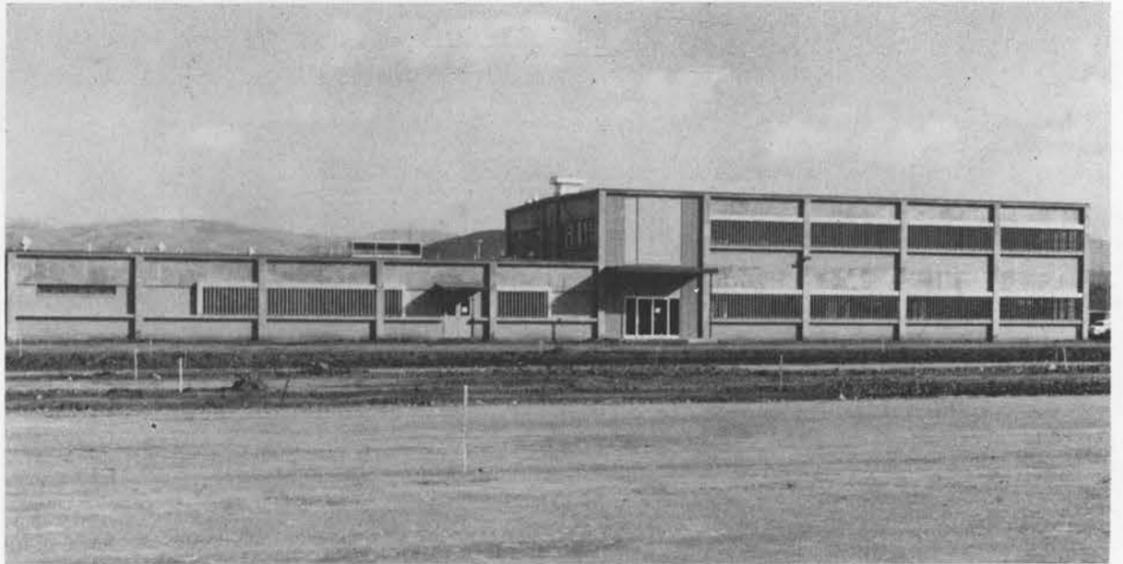
Promotions

Wilbur F. Stearns (1625) to Laboratory Assistant
 Charles W. Metzler, Jr. (1625) to Laboratory Assistant
 Maude A. Rafter (2464) to Document Clerk
 Glen L. Wisher (7412) to Draftsman
 Martha A. Gelt (2350) to Secretary
 Fidencio C. Sandoval (4135) to Tab. Equip.
 Mary Lou Hume (2520) to Secretary
 Jacoba Mata (2474) to Janitor (Cleaning and Polishing)
 Benito Padilla (2474) to Janitor (Cleaning and Polishing)
 Preciliano Trujillo (2474) to Janitor (Cleaning and Polishing)
 Joseph T. Plant (2474) to Janitor (Cleaning and Polishing)
 William H. Thompson (2474) to Janitor (Cleaning and Polishing)
 Charles E. Smith (2474) to Janitor (Cleaning and Polishing)
 David L. Chavez (2474) to Janitor (Cleaning and Polishing)
 Quirino A. Carrillo (2474) to Janitor (Cleaning and Polishing)
 Juan D. Espinoza (2474) to Janitor (Cleaning and Polishing)
 George D. Edwards (2474) to Janitor (Cleaning and Polishing)
 Herman C. Marquez (2474) to Janitor (Cleaning and Polishing)
 Trinidad J. Montano (2474) to Janitor (Cleaning and Polishing)
 Dixie D. Cain (2464) to Document Clerk
 John W. Wood (2721) to Inspector (Electrical)
 Virginia A. Baker (2462) to Mimeograph Operator
 Melvyn S. Montano (7232) to Utility Operator
 William R. Caldwell (2723) to Staff Assistant (Tech.)
 Richard C. Porter (2723) to Staff Assistant
 Stephen O. Edwards, Jr. (7411-5) to Staff Associate (Designer)
 Billy M. Gragg (5242) to Staff Assistant
 Pasquale A. Ligouri (7411-2) to Staff Associate (Designer)

Watching Queen Elizabeth open the British Parliament on Nov. 5 was the highpoint of a three months' trip abroad by Norman Sinnott (5213), his wife and five year old daughter.

The family sailed from New York on the Queen Elizabeth Aug. 24 and in Paris purchased a Volkswagen to tour the Continent for a month. After a look at six countries they crossed over to England for a week in London and two weeks in Liverpool, Norman's former home, where they stayed with friends and Norman's sisters. Stops in Scotland and Ireland completed their tour.

After their return on the Queen Mary, Mrs. Sinnott went on to Sacramento to pick up their young son who had been staying with Mrs. Sinnott's sister.



NEW BUILDING AT LIVERMORE BRANCH as seen from the west. Recently constructed Bldg. 911 houses personnel, purchasing, accounting and business methods, typing pool, security, procurement and plant engineering. The area in front of the main entrance is being prepared as a parking lot.

West Texas Looks at Dogs Owned by Sandia Employees; All Earn Praise

The recently concluded West Texas circuit of dog shows found praise heaped upon canines owned or shown by Sandians.

One of the biggest surprises of the circuit was when Bill Barth's 10-month-old English springer spaniel was pulled out of the Puppy Class and took Best of Breed and third in Best of Sporting Group at Odessa. The dog, Garibar's Royalsen, has already gathered two major show wins and eight points toward the necessary 15 points for championship rating.

Another of Bill's dogs, Garibar's First Salutation, acquired enough points in the circuit for championship rating.

Welsh terriers are the specialty of Louise "Pat" Patterson (7223). In the West Texas shows Birr Burning Bright received eight points and Birr Wind Witch obtained 10 points in the Puppy Class. Both dogs were handled by C. A. "Lee" Leemhuis (5523-3), who showed another of her dogs to championship last fall.

Among Pat's 19 Welsh terriers she numbers three champions.

Welsh are the oldest of the terrier breed and are ancestors of the air-dale — a cross between the Welsh terrier and an otter hound.



C. A. LEEMHUIS shows one of "Pat" Patterson's prize winning Welsh terriers in West Texas.



TWO MAJOR WINS were chalked up by English springer spaniels belonging to A. W. "Bill" Barth (1442). L to R: Harry Sangster, professional handler from California; Champ. Garibar's First Salutation; Judge Duane Doud; Bill and Garibar's Royalsen.

Adam Manzanares To Retire Today

Today will be the last work day for Adam Manzanares who is retiring after six and one-half years with Sandia Corporation as a janitor in 2474.

Adam is a native of Espanola and was employed at Los Alamos for seven years before moving to Albuquerque.

He and his wife live at 1416 Gold SE and come spring Adam will be busy gardening. Their two children also live in New Mexico.



Adam Manzanares

John Holcomb Retires With 7 Years Service

Another familiar face will be missing next week after the retirement of Jose M. Holcomb.

Jose has been an assembler in 2231 for seven years.

He and his wife live at 855 San Andres NW, however, in late winter they plan to travel to California to visit their daughter and two sons who live there. They also have 16 grandchildren.

The Holcombs moved to Albuquerque in 1944 from their former home in Springer, N. M.



Jose Holcomb

Davie B. Ray to Retire December 1

On December 1 Davie B. Ray (7225 assigned to 1611) will become the first woman to retire from Sandia Corporation.

She has been at Sandia for five and one-half years.

Davie came to Albuquerque 10 years ago from Kansas and the Duke City was considerably different then: after you passed Hermosa on East Central there were just a few signs and a few motels.

Although she has been making her home at 222 Virginia NE with her daughter, Terry, a former Sandia employee, Davie plans to move to California after her retirement.



Davie Ray

Manuel Gallegos Retires This Month

Manuel Gallegos will retire from Sandia Corporation the end of this month.

He has been a night-shift janitor in 2474 for the past six years.

Manuel comes from Torrance County and has lived in Albuquerque since 1922. He and his wife live at 1018 Eleventh St. NW and part of their leisure will be taken up playing with their daughter's four children.



Manuel Gallegos

Welcome Newcomers

Nov. 12-22

Albuquerque	Philip L. Archuleta	2415
	Walter L. Hammond, Jr.	2321
	William T. Huntsman	2461
California		
	Claire L. Grubbs, Livermore	8221-1
	Roberta M. Cole, Pleasanton	8221
	Barbara F. Goldman, Livermore	8221
	Gordon V. Bjork, San Lorenzo	8212-3
Missouri		
	Marjorie A. Newman, St. Louis	3124
New Mexico		
	Neil B. Gholson, Hobbs	2462
Ohio		
	Perry V. Davis, Dayton	4111
Oklahoma		
	Max E. Crandall, Enid	2532

Service Awards

10 YEAR PINS



Horace J. Montoya
2236
Dec. 8, 1947



Manuel P. Bell
1456
Dec. 3, 1947



Louis J. Paddison
5500
Dec. 8, 1947

Five Year Awards

Dec. 1-6

Agnes L. Cernich 1261, Robert S. Neiman, Jr. 5133, Winton B. Pafford 5233, William H. Lueders 2711, Henry J. Schroer 2132, Eugene Chavez 2722, Marian A. Tillman 2133.

Pearlie M. Kelley 2721, Marcus M. Peebles 2413, Joe M. Costales 4153, Donnie M. Schuette 2335, Alice M. Graves 2462, Edwin C. Wittwer 5212.

Floyd M. McIver 5133, Francis D. Hess 1461, Allen L. Thornton 2730, Frank W. Millikin 1222, Hunter W. Lewis 5524, Joe D. Fulmer 2232, and Dennis A. Doherty 2412.

Dec. 7-12

Richard O. Murdoch 1463, Pauline Y. Loomis 3162, Grafton W. Moses 7312, Gilbert Ramirez 2232, Mary H. Bailey 7225, Eugene J. Meyer 5142, and Donna D. Brown 5241.

Two Year Certificates

Dec. 1-6

Frank E. Burley 2500, Norman C. Lucas 1611, Robert A. Schroeter 7325, Ruth I. Leslie 2461, Ernestine M. Sawyer 2553, Robert E. Adams 1421.

Michael R. Silva 2221, William J. Luce 2131, George D. Edwards 2419, Bernard J. Mechenbier 7412.

Dec. 7-12

Charles E. Jackson 1217, Edwin M. Weber 7411, Anna D. Osle 2314, Robert E. Stewart 1472, Alvin E. Farmer 7311, and Elizabeth R. Horan 3152.



Mabelle I. Weaver
5242
Dec. 1, 1947



Wilfred M. Bacchus
1413
Dec. 9, 1947



Jefferson Blaylock
2473
Dec. 5, 1947



Felix Hendren
2124
Dec. 10, 1947



HALF-WAY THROUGH THE JOB of filling the wind tunnel's storage tank with empty dog food cans these Sandians stop to take stock of the situation. L to R: Alan Pope (5140), Milt Davis, a former Sandia Corporation employee, Amadeo Aragon, Jr. (2415) and Elauterio Torres (2415).

Tin Cans Solve Cold Problem Faced in Wind Tunnel Work

Sandians' Sons Play Strong Football With Wilson Wildcat Team

Among the outstanding players of the Woodrow Wilson Wildcats, record-breaking junior high football team, were several sons of Sandia Corporation employees. The team wrapped up the Albuquerque junior high school football championship with an undefeated and untied record.

The team scored a total of 168 points against six opponents. Only six points were scored against the Wildcats and that in the last period of the last game.

Walter Paxton (2711) watched his son, Ray, playing halfback spark the team to victory. Tackle Bob Schwartz, son of S. P. Schwartz, Vice President and General Manager, was the bulwark of the unyielding line.

Other team members included Frank Adams' (4152) son Lynn, Arthur Johns' (2132) son Kenny, Andrew Blaine's (2211) son Jimmy, M. W. Denish's (2232) son R.B., and Nelson Radman's (1442) son Jerry.

2500 Christmas Party Scheduled for Dec. 6

Personnel of organization 2500 and their guests will start the holiday season with a buffet dinner dance Friday, Dec. 6, at the Coronado Club.

The dinner will start at 6:30 p.m. and will be followed by a surprise entertainment skit directed by Paul Callies (2551). Dancing will be from 9 p.m. to 1 a.m. to the orchestra of Billy Morris. G. C. McDonald (2530) is chairman of the party committee.

Radio Club Elects Tom Banks President

Tom Banks (5252), president, heads a new slate of officers for the Sandia Base Radio Club. Other new officers recently elected are Cedric Senter (1451), vice president; John S. Cundy (7232), secretary; and Captain Merl Hutto, treasurer.

Annual Christmas party of the organization is scheduled for Friday, Dec. 13, at 8 p.m. at Leonard's Restaurant. Tickets are \$2.50 per person and may be obtained from Mr. Cundy, ext. 43133.

A strange request went through the purchasing organization recently—an order for a carload of empty dog food cans.

The cans proved to be the cheapest method of improving the operation of Sandia's wind tunnel used for research purposes.

Until the arrival of the cans, air released from the storage tank under 300 pounds pressure dropped from 100 degrees Fahrenheit to 60 degrees below zero during a typical 30-second test. The expansion process as the tank pressure drops from 300 lbs. per square inch to 100 lbs. per square inch causes

Noon-Time Musical

The Corporation noon movie show will offer a feature-length musical comedy in technicolor during coming weeks.

"Ain't Misbehavin'" stars Rory Calhoun, Piper Laurie, Jack Carson and Mamie Van Doren. The first part will be shown Dec. 3-6 and the second part Dec. 10-13.

The free movie starts at 12:10 p.m. in Room 3, Bldg. 849 on Tuesdays and Thursdays and Room B-6 of Bldg. 802 on Wednesdays and Fridays.

Sandia Van de Graaff Operator to Receive Special Training at Factory

An opportunity to learn the mechanics of the Van de Graaff accelerator before it is installed at Sandia Corporation is being given Elmo Hirni, a staff associate from 5214 at Salton Sea Test Base.

Next week Elmo will return to



Elmo Hirni

this temperature decrease. It is desirable to maintain near constant flow conditions in the test section (where model shapes are located) during a test run.

To install a conventional heating system in the storage tank would cost around \$5,000.

Alan Pope, manager of Aerodynamics Department 5140, recalled a previous instance when tin cans were used to stabilize temperatures of air under pressure. The cans, packed inside the storage tank, retain enough heat to warm the air as it is released from the storage tank.

The carload of 120,000 dog food cans cost about \$2,000. For three weeks workers stacked the tins in the pressure tank by hand. Finally they shoveled the tins into the remaining space. The last two feet couldn't be filled as the tank is entered through a side opening.

In the first run after the cans were put in the tank the air temperature dropped only 15 degrees.

"Since then," Mr. Pope noted, "we are getting a 10 per cent longer run and air flow conditions are far better."

The big problem now is what to do with the 28,000 empty dog food cans that were left over.

Albuquerque for a briefing in Sandia's Physical Sciences Department and then travel to Cambridge, Mass., where he will be at High Voltage Engineering Corporation, accelerator manufacturer, for six weeks seeing the \$120,000 instrument assembled and learning how it operates. Organization 5150, the recently created Physical Sciences Department, is planning the programs for the facility.

Elmo was hired by the Corporation in January 1948 as a junior engineer and was later promoted to electrical technician, field test technician and staff assistant-technical.

According to Richard S. Claassen, 5150 department manager, the Van de Graaff accelerator will probably be installed at Sandia in its newly constructed building 803 in late January or early February. At that time Elmo will be responsible for operation of the machinery, maintenance and safety aspects.

The accelerator is used in radiation physics and chemistry research in the testing of various materials.

J. I. Hegge Speaks To North Dakota Engineering Students

What's ahead for engineering graduates was the topic of a talk presented by J. I. Hegge, Jr. (1470) at the North Dakota Agricultural College last week.

In his talk, which was given at a banquet of the Pi Tau Sigma honorary engineering fraternity, Mr. Hegge stressed the need for understanding administrative procedures in carrying out an engineering job in industry. He pointed out that the administrative aspects of engineering are little known to the engineering graduate "but most useful."

Mr. Hegge, who is manager of the Electromechanical Development Department at Sandia, is a graduate of the University of North Dakota.

Three Men Back At Sandia After Military Duty

More Sandians returned to their jobs at the Corporation this month after fulfilling military obligations.



E. G. Kadlec



Sam Jeffers Jack Houston

Emil G. Kadlec is back as a staff member of 1224 after more than three years in the Navy. He had been employed at Sandia for two years before reporting to OCS in Newport, R. I. After officer's training in Port Hueneme, Calif., Emil was stationed at White Sands Proving Ground with the Naval Ordnance Test Facility there.

Returned from six months' training is Jack Houston, a staff engineer in 1473. He had been at the Corporation a year before reporting to Fort Monmouth, N. J., for basic training. The Army then transferred him to Holloman AFB in New Mexico.

Sam Jeffers served his six months in the Army at Fort Belvoir, Va., and Fort Carson, Colo. He has returned to his job as staff member in 1218 which he had filled a year before Army duty.

Supervisory Appointments

WILLIAM R. GUNTRUM to supervisor of Environmental Test Section 8122-1, Project Division, at Livermore Branch of Sandia Corporation.

From June 1951 - August 1954 Bill was in research and development work at Sandia. From May 1956 until his present transfer he has been doing project work in 1245 at Albuquerque.

Bill was an engineering consultant for Franklin Gates Co. in Albuquerque from August 1954 until his return to Sandia.

He holds a Bachelor's degree in Electrical Engineering from Michigan State University where he was a member of the following honorary societies: Tau Beta Pi, engineering; Eta Kappa Nu, electrical engineering; Pi Mu Epsilon, mathematics; and Phi Kappa Phi, all college honorary. He also belongs to the American Institute of Electrical Engineers.

(Continued from Page 1)

Sandia's Place...

needed to fit the size and shape limitations of the missile as well as meeting the operational requirements.

Sandia must arrange for the manufacture of these weapons, although little actual production-type manufacturing is done by Sandia. Manufacturing is done by suppliers throughout the country under contract to Sandia. Quality assurance in manufacturing, and surveillance of stockpiled weapons to assure continual reliability also figure prominently in Sandia's job. It must also design the mechanics' tools, or handling equipment for field assembly and testing of the weapons. It must help test new weapons and prepare training manuals and procedures for the military.

Weapons are constantly being developed at Sandia. Although the quantity and types of weapons turned out each year are classified information, it is well known that large quantities of nuclear weapons are ready for instant use and that the stockpile of these weapons is constantly growing. President Eisenhower and other high government officials have confirmed that we have a "whole family of weapons" designed to meet various military situations.

Sandia Laboratory has been largely responsible for ordnance engineering of these weapons since its establishment in 1946. As an example, Sandia was responsible for the ordnance engineering phase of the nation's first thermonuclear weapon.

Broadly speaking, Sandia's responsibilities in the ordnance phases of the nuclear weapons program are (I) Research, (II) Development, (III) Manufacturing Engineering and Production Operations, (IV) Quality Assurance and Surveillance, (V) Military Liaison and Training. These five activities will be covered in subsequent issues of the Sandia Lab News.

Research activities at Sandia are divided between fundamental and applied fields. Fundamental research as it applies to Sandia has been defined by Glenn A. Fowler, Sandia's Vice President in charge of Research, as "the quest for new knowledge and understanding in scientific fields related to Corporation activities." Applied research, he says, is "that which is more concerned with new applications of proven principles." The next article will discuss the role of research in the weapons program at Sandia.

DAVID D. HURLEY to supervisor of newly-created Section 8221-3, Administrative Division at Livermore Branch of Sandia Corporation.

"Dave" joined Sandia last March after seven years with the Atomic Energy Commission at Hanford, Wash., and San Francisco operations offices. At San Francisco he was chief of the security operations branch.

A native of Spokane, Wash., he attended Gonzaga University from 1935-38, majoring in philosophy. He later studied law for two years.

Prior to his entry into the service in World War II Dave worked for the U. S. Army Air Corps as a civilian investigator in the intelligence division. He went into the Navy in 1944 as gunnery officer aboard an LST in the Pacific Theater. He is still in the Naval Reserve, intelligence division, as a Lieutenant.



AEC Lauds 1957 Sandia Safety Record With Award of Honor

Sandia Corporation employees have earned the AEC's Award of Honor for working 3,610,632 man hours without a disabling injury. The three month period extended from March 20 to June 20, 1957.

In announcing the accomplishment of Sandia's employees Brig. Gen. K. W. Field, General Manager of the U. S. Atomic Energy Commission, had this to say:

"This is the second occasion when Sandia employees have attained the AEC top award for safe operation, the first Award of Honor having been earned in 1953-54. This is continued evidence of the effectiveness of Sandia accident prevention efforts.

"Please extend the appreciation of the Commission, and my personal congratulations, to Mr. James W. McRae, President, and ask that these expressions be con-

veyed to the employees responsible for this fine performance."

Presented to Mr. McRae

The award was presented to Mr. McRae by A. E. Uehlinger, Manager of the Sandia Area Office of the AEC's Albuquerque Operations.

Mr. Uehlinger pointed out that in addition to this second Award of Honor Sandia employees had earned an AEC Award of Merit for working 2 million man hours without a lost time injury in 1955-1956.

Sandia's injury frequency rate was reviewed by Mr. Uehlinger. Quoting the number of injuries per million man hours worked this is the record he cited:

1948—7.32	1951—.81	1954—1.26
1949—6.26	1952—1.61	1955—1.76
1950—5.34	1953—1.89	1956—2.14

Other Awards Earned

A. Burton Metzger, Sandia Corporation Safety Director, commented on the award:

"During these years, in addition to the AEC awards, the Corporation has received seven consecutive Awards of Honor and one Award of Merit from the National Safety Council.

"Compared with the national average of industries in the category under which Sandia Corporation is classified by the National Safety Council, Sandia Corporation's disabling injury and severity rates during 1957 to date are 73 per cent and 94 per cent lower, respectively. Compared with the average rates for all AEC production, research and service contractors for the same period, the cumulative disabling injury frequency and severity rates are 72 per cent and 96 per cent lower."

The plaque awarded Sandia, along with other safety awards earned by Sandia employees, is displayed in the lobby of Bldg. 800.

'New Concept' in First Aid Training Will Be Presented

A new concept in first aid will be utilized in classes scheduled to begin this month at Sandia Corporation, Ray Sheppard (1441), instructor, announces. The new approach, developed by the Red Cross and outlined in a new first aid textbook, will form the basis for two standard first aid courses to be completed here before the end of the year.

"The emphasis is now placed on lifesaving principles rather than techniques," Ray says.

G. A. Fowler Elected To Nat'l IRE Post

Glenn A. Fowler, Vice President of Research 5000, was recently elected Director of Region Seven of the Institute of Radio Engineers. Region Seven includes IRE sections in Washington, Oregon, California, Arizona, Utah, New Mexico and the Hawaiian Islands.

Last year Mr. Fowler was chairman of the Albuquerque-Los Alamos Section of the IRE and has served on the Executive Committee of the organization for several years.

He has been Vice President of Research at Sandia Corporation since Dec., 1955. He was Director of Electronics from July, 1954, and was Director of Field Testing prior to holding that position.

"Prevention of accidents is an important subject in the new courses as well as new skills developed for control of bleeding and practice of artificial respiration."

Families of Corporation employees are urged to attend the scheduled classes, according to Earl Wilson, Staff Training and Education Division, who with Tom Muzzey (3123-2) is coordinating the courses. Dependents of Corporation employees may take the courses without the employees attending. Classes will be held in buildings outside the tech area.

"First aid training is a civic responsibility. In the event of an emergency or disaster first aid will take on a new meaning. Families, primarily the mothers, would have to rely largely upon themselves to administer the first aid needs of children," Earl says.

Anyone interested in taking a first aid course may contact Earl at ext. 45157. The standard first aid course has five two hour sessions.

Advanced first aid courses and instructor courses are planned to begin after Jan. 1. An employee bulletin will be issued shortly containing the complete schedule and enrollment procedures.

Holiday Festivities Planned in Quantity For Club Members

The holiday season brings with it some gala entertainment planned at the Coronado Club.

Leading off is the arrival of Santa Claus at the club on Dec. 21 where he will reign during the club's annual free children's party from 1 to 3. With Santa will be a troupe of twirlers and magicians, and Mike Michnovicz (2462) will squeeze out some sprightly holiday music on his accordion. Bags of candy will be distributed to the children.

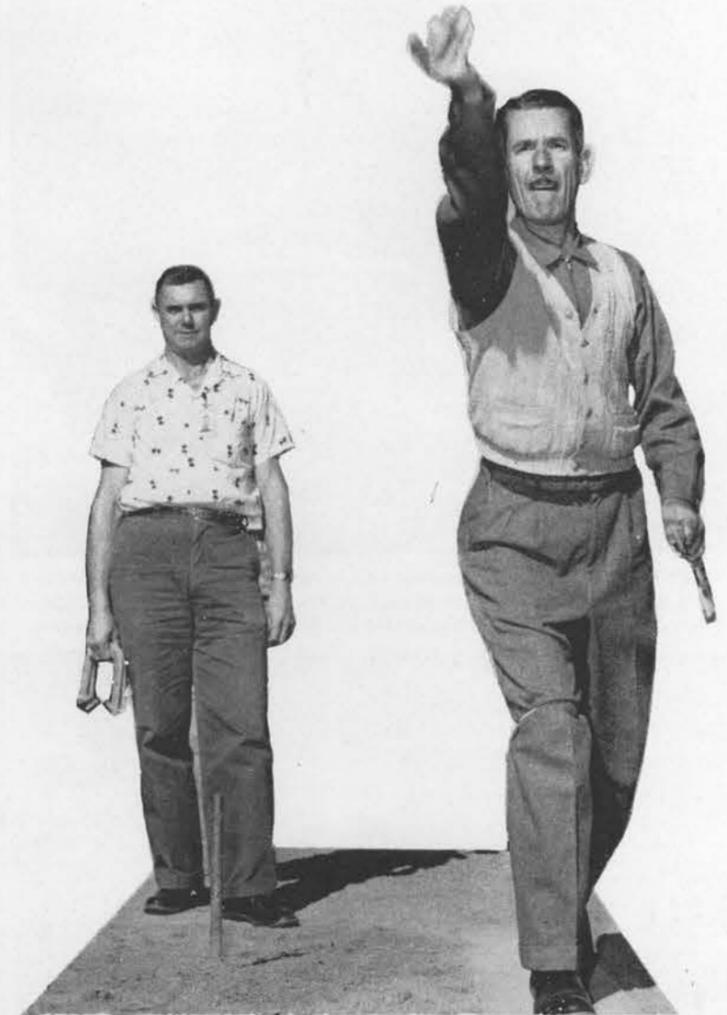
The annual free cocktail party for adult members will follow on Sunday, Dec. 22, from 3 to 5.

Reservations can be made beginning Dec. 16 for the big New Year's Eve party at the club. Festivities planned from 9 to 1 include the music of the MBC Trio and Leigh Sprague and his orchestra. Breakfast will be served soon after the new year enters. Tickets for members are priced at \$2.75, \$3.85 plus tax for guests.

To Print Article

An article by George P. Steck, Systems Analysis Department, will appear in an early issue of the Annals of Mathematical Statistics.

Mr. Steck's paper is concerned with A Table for Computing Trivariate Normal Probabilities.



SINGLES CHAMPION of the Sandia Corporation noon-hour horseshoe tournament is Parker Burns (7231) shown here tossing a ringer in the final match with Ludwig Eversgerd (2722), left. The five game match was close. Scores: 25-22, 20-25, 25-18, 25-23, 25-22.

LASL Scientist on Colloquium Program

Dr. W. H. Langham, Los Alamos Scientific Laboratory, will address a meeting of the Sandia Corporation Research Colloquium Wednesday, Dec. 11. "The Physiology and Toxicology of Plutonium" is the title of Dr. Langham's talk.

The meeting will be held at 9:30 a.m. in the basement conference room of Bldg. 802. Tickets are not required, according to A. K. Wheeler (5111) of the Colloquium committee.

1600 Employees To Dine, Dance

Dining and dancing will be main features of the annual 1600 Christmas party to be held Thursday, Dec. 19, at the Coronado Club. The buffet will start at 7 p.m. with dancing to the music of Tommy Kelly's orchestra getting underway at 9:30 p.m.

L. D. Watkins Discusses Analog Computer Before AIEE Members Dec. 3

"Analog Computers" will be the subject of a speech by L. D. Watkins (5242) to be presented at a meeting of the American Institute of Electrical Engineers Tuesday, Dec. 3. The meeting will begin at 8 p.m. in the Electrical Engineering building, University of New Mexico.

Hikers Plan to Climb South Sandia Peak

Ten miles of hiking up the south Sandia Peak is planned by the New Mexico Mountain Club Sunday, Dec. 8. W. C. "Bill" Gallagher (2743) will lead the climb. The group will depart from Nob Hill Shopping Center at 8 a.m.

Anyone desiring to make the trip is urged to contact Bill at ext. 29253.

SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER
<p>CLASSIFIED ADVERTISING</p> <p>Deadline: Friday noon prior to week of publication unless changed by holiday.</p> <p>RULES</p> <ol style="list-style-type: none"> 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. 	<p>WASHING MACHINE, wringer type, \$30. Aberg, 245 Wyoming SE.</p> <p>HI-FI SYSTEM, complete, Garrard Changer, Diamond Stylus, FM tuner, 10 watt amplifier, two speakers, one coaxial, furniture cabinet. Moeller, AL 6-4159.</p> <p>SECTIONAL BOOKCASES, two, oak, five shelves each, individual glass doors each shelf, \$45; office oak desk, \$35. Luna, AX 9-3348.</p> <p>LEICA III F, new, w/Nikkor F2 50mm lens and case. Schuetz, CH 3-6574, 434 Maple NE.</p> <p>HEAT LAMP, combination, \$10; Westinghouse roaster w/grill, table and plastic cover, \$25. Courtin, AM 8-0065, 804 Madison NE.</p> <p>'55 SCOOTER, Cushman, Highlander Deluxe, \$170. Parker, AL 6-5844, 2829 La Veta NE.</p> <p>CHIHUAHUA PUPPY, thoroughbred, female, 10 weeks old, \$20. Savage, AX 9-3374, 8922 Claremont NE.</p> <p>MAYTAG FREEZER, 15 cu. ft., upright, '57 model, best offer over \$375. Tafoya, CH 2-3723 after 5:30 p.m.</p> <p>GAS RANGE, apartment size, 4 burners, large oven and separate broiler. Rust, AL 5-0167.</p> <p>20" BICYCLE, girls or boys, w/training wheels, \$25. Brouillard, AM 8-0996.</p> <p>2 BR. HOUSE, near Bases, total price \$4750, \$650 down, \$55 a month. Chavez, CH 2-1791.</p> <p>'52 AUSTIN, 4 door, see at Rowe Brothers Garage. Turner, AL 5-1736.</p> <p>AUTOMATIC PISTOL, Browning, 9MM (.38 cal.), 13-shot, \$38; Bissell carpet sweeper, new, \$7; folding accordion door, 8'x8', \$50. Shunmy, AX 9-2787.</p> <p>SHOPSMITH, model 10 ER, w/jigsaw, casters and speed changer. \$205. Platt, AL 6-6089, 319 Texas St. SE.</p> <p>'47 CHEVROLET, radio and heater, four nearly new tires, and it runs! First \$75 takes it. Clark, AL 5-5747.</p> <p>WALL TELEPHONE, antique, restored to natural finish, \$25; oil paintings: 2 landscapes, 1 seascape. Ives, AX 9-7003.</p> <p>26" BICYCLE, girls, Schwinn, basket, puncture proof tires, \$30. Keyser, AL 6-1285.</p>	<p>NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Dec. 6</p> <p>CLARINET, metal, completely overhauled w/new mouthpiece, \$40; want carrying case for Hawaiian guitar. Tatum, CH 2-9021.</p> <p>PHILCO COMBINATION: 3-speed record player, AM-FM radio, 14" TV, blonde cabinet, \$65; 120 base, 2-switch, Wurliizer accordion w/case, \$100. Houghton, AX 9-3386.</p> <p>GARAGE DOOR, 3/4x8x6.8 plywood with 2x4 frame, complete spring tension door opener and locking hardware, \$20. Silva, CH 2-6759.</p> <p>DEEP FREEZE, '56 GE, 16 cu. ft., holds 560 lbs., \$225; size 39 man's tweed topcoat. \$10. Siskey, Ext. 49143, 7203 Conner SE.</p> <p>REFRIGERATOR, 8' GE. Rayner, AM 8-1705.</p> <p>STUDIO COUCH, opens into double bed, \$15; modern armless chair, \$18; 9x12 solid grey fiber rug, \$20. Petrone, Ext. 45194.</p> <p>'57 MERCURY, 4 door Monterey, 10,000 miles, by owner. Werner, AX 9-1339.</p> <p>REDUCING MACHINE, '57 model Relax-A-Cisor. Grossman, DI 4-1180 after 5:30 p.m.</p> <p>AUTOMATIC PISTOL, .45 cal., made by Ithaca, has engraved leather holster and ammunition, \$40. Alberts, Ext. 37298.</p> <p>MOULTON JACKET, size 10-12. Batterson, CH 7-9417 after 6.</p> <p>'49 DODGE sedan, heater, new seat covers, Gyromatic transmission, \$185. Braudaway, AL 6-5654.</p> <p>VACATION TRAILER, 15', '57 Aljo, sleeps 5, electric brakes, butane stove, 12-gal. water tank, 50 lb. ice box. Nelson, AL 6-6300.</p> <p>BABY CRIB w/mattress. Johnson, Ext. 52164.</p>	<p>'56 BUICK Super 2 door Riviera, PB/PS, other accessories, less than 12,000 miles. cash/trade. Schmidt, Ext. 22286 after 5 p.m.</p> <p>MOTOR SCOOTER, Cushman Highlander Deluxe, cash or finance personally; aquarium cocktail table, 10-20 gallon aquariums, studio couch. Richardson, DI 4-3082.</p> <p>DX-100 TRANSMITTER, \$150, going single side band. Snyder, AL 5-0833. Rayvern Trailer Ranch, 424 Utah SE, Lot 20.</p> <p>'53 FORD, 6 cylinder, 2 door, Mainliner, overdrive, heater, seat covers, 31,000 miles, clean, original owner, \$550. Weber, AL 6-2947.</p> <p>ELECTRIC STOVE, '55 GE Spacemaker, 24", pushbuttons, clock, used very little, \$125. Draper, AM 8-2395.</p> <p>SAW, Jig Craftsman, \$37.50; Lynman Tru-line Jr. reloading tool, \$15; Roger single action .22 revolver, new, \$57.50. Galbraith, AX 9-6554.</p> <p>'50 CROSLLEY body, complete w/disc brakes, less engine, \$40. Laskar, AX 9-1024.</p> <p>SEWING MACHINE, automatic, Magic Zig Zag portable, \$50; ladies black figure skates, size 6 1/2, \$6.50. King, AX 9-3778.</p> <p>26" BICYCLES, two, boys, standard models, one has two new tires, the other has one new tire. Murphy, AL 5-4706.</p> <p>YOUNG GEESE, fat, good stock, \$5 each. Davis, CH 3-2060.</p> <p>'53 MORRIS MINOR, English convertible, R.H. Foley, CH 2-5373 after 6.</p> <p>ELECTRIC TRAINS, Lionel w/accessories, "O" gauge, practically new, in original boxes, cost \$480, sacrifice \$250. Batchelor, AX 9-4831.</p> <p>'55 BUICK Roadmaster, 4 door, power equipment, back-up lights, WW tires, selectronic radio, air conditioning, window washers, turquoise & white, \$1795. Davis, AL 6-4962.</p> <p>DRIVE WELL POINT, new 1 1/4" pipe, about 5 ft. long, \$4; want exercising machine. Hill, CH 3-3493.</p> <p>HOTPOINT REFRIGERATOR, \$60. Gomez, AL 6-1584.</p> <p>SECTIONAL, 3-piece; wrought iron and birch table and 6 chairs; kitchen table and 4 chairs; automatic washer. Meyer, AL 6-3926.</p>	<p>WANTED</p> <p>GRINDER HEAD, 6" with or without wheels. Harris, AL 5-6608.</p> <p>WILL PAY CASH for old revolvers, pistols or rifles in any condition. Smitha, AX 9-1096, 8607 Menaul NE.</p> <p>MICROSCOPE and 3 wheel bicycle. Dunn, AL 5-9213.</p> <p>POWER TOOLS—lathe, drill press, grinders, etc. Sander, AX 9-5761.</p> <p>HEAD SKIS, used pair, 7 ft. standard. Dick, AL 5-5437.</p> <p>WOOL RUG, used, 12x15 ft. or 15x18 ft. for wall-wall carpet. Kannerman, AL 5-4070 after 5:30 p.m.</p> <p>SEWING MACHINE, used. Baird, AL 6-5439.</p> <p>CHILD CARE in my home, all ages. Corrova, 1717 Wilmore Dr. SE.</p> <p>CHILD CARE in my home, 2 to 5 years, days only. Higgins, AX 9-4302, 2412 Elizabeth NE.</p> <p>TIRE CHAINS for Volkswagen. Burns, CH 7-9372.</p> <p>7' SKIS, size 11, ski boots. Rychnovski, Ext. 27141.</p> <p>CHILD CARE in my home during the day, Monday through Friday. Williams, DI 4-1161.</p>
<p>FOR SALE</p> <p>YOUTH BED in blond finish, \$20, bedding included free; matching chest of drawers, \$25. Pardee, AL 5-1998.</p> <p>21" TV, Zenith table model, beige leatherette covered, \$49. Carlson, AM 8-8138.</p> <p>'47 NASH, radio and heater, \$45. Warr, AL 6-6446.</p> <p>'50 PLYMOUTH, four door deluxe sedan, \$200. Elich, AL 5-0600.</p> <p>TWIN BEDS, two sets, used one year, firm mattresses, \$50 set, both for \$90; two maple chests, matching, \$25 each. Barger, AX 9-0439.</p> <p>SPEED GRAPHIC, Pacemaker, 4x5 w/3.5 Tessor 15 cm lens, flash, 3 holders. Hall, AL 5-2304.</p> <p>HAM TRANSMITTER, 60W all band, and 6 ft. hardwood top workbench. Eilfritz, AL 5-4020.</p> <p>ANTIQUE DESK, \$50; formal dresses, shoes, etc., some new, 1/4 of cost. Weber, AM 8-0788.</p> <p>GLASS DOOR, 8' sliding w/screen, \$60; steel casement window, 53"x39" w/glass and screens, \$25. Beck, AL 6-3350, 1033 Jefferson NE.</p> <p>'56 JAGUAR, X K-140, clean, low mileage, equipped w/racing tires, \$2825. Earnest, AL 5-6887.</p>	<p>LOST AND FOUND</p> <p>LOST—Collie and Springer dog, brown and white, back of locket with initials ACH, GM key in black case, gold tie chain, silver tie gripper, prescription safety glasses, black wallet w/ID, solitaire diamond ring—owner extremely anxious to have same returned, 6 keys on chain, 1 desk No. FR 97. LOST AND FOUND, Ext. 26149.</p> <p>FOUND—Aluminum Yale key, Ford and other keys on chain, lady's prescription glasses w/purple and gold leaf frames, missile in plastic earring, scarf w/black and gold on white, girl's pearls found at 10th Loop, safety glasses w/bifocals, Catholic medal, Briar pipe, Yello Bole. LOST AND FOUND, Ext. 26149.</p> <p>LOST—Sable and white female collie, 11 months old; one eye slightly defective. Starzynski, AX 9-3489, 2327 Hendola Dr. NE.</p>			

Million Pounds Paper Handled Yearly in Sandia Mail System



OPENING MAIL to determine which organization should receive it is one of the jobs of these mail clerks. L to R are Doris Galloway, Adella Vigil, Emma Venderman, Dora Zamora, Anna Canavan.

One indication of the prodigious amount of business performed by Sandia Corporation is the mountain of mail—literally a million pounds of paper—processed and distributed by the Central Mailing Section 2461-5 in a year's time.

"We face mountains of mail," Nick Tarnawsky, section supervisor, says holding a typical monthly report in his hand, "for instance, we mailed 26,183 pieces of first class mail, 1,885 pieces of which were registered and the section processed 868 pieces of incoming registered mail and handled 4,197 TWX messages last month."

These figures do not include the internal flow of mail throughout the Corporation or distribution of Corporation publications such as *Management News Briefs*, *Technical Notes*, *Sandia Lab News*, salary records, document prints, or work orders.

Vehicle Messengers

"Backbone of the whole operation is the work performed by the 12 motor vehicle messengers who make as many as six and never less than four pickup and deliveries of mail to each building every day," Nick says with pride. "These men are continually on the go with their mail pouches bulging."

"The Corporation is particular when hiring these messengers. We want a man with clerical and filing ability. They pass difficult tests before beginning the job," Nick points out, "and usually move up the grade scale quickly."

Nick's chief assistants are Joe Hernandez and Tony Lopez who are assignment clerks. Their job is to distribute the workload evenly among the 27 mail room employees and keep the flow of mail moving to its many destinations.

Joe, with nine years at Sandia, keeps an eye on all internal distributions while Tony watches over external mailings. Tony has been with the Corporation for six years.

Incoming Mail

Five document clerks—Adella Vigil, Doris Galloway, Anna Canavan, Emma Benderman and Frank Toya—process all incoming mail for delivery. A large portion

of the mail requires opening to determine who should receive it. This requires an intimate knowledge of Corporation personnel and activities.

Mail is quickly sorted and put into the right "coop" for the motor messengers. A big rack or b'n stands in the mail room in Bldg. 802 and is divided into sections marked for organizations or mail substations. Substations are located in Bldgs. 880, 892, and 863 with another being completed in Bldg. 836. Here again the mail is sorted for organizations and speeded on its way.

Other duties of these clerks include processing outgoing mail through the postage meters. The Corporation's postage bill averages \$6,000 monthly.

Ted Baldonado and Don Odell, mail clerks, handle off base delivery of Corporation mail to post offices and also pick up printed material contracted to Albuquerque print shops by the Document Department. Truckloads of mail leave the main mailing room daily to meet Post Office schedules. Air mail is handed over to the Sandia Base Post Office to go directly to the airport while other first class mail goes downtown at times coinciding with outgoing train schedules.

Handle Classified Mail

"Classified mail requires special handling by four other mail clerks," Nick says. "Outgoing documents are specially packaged according to AEC regulations and sent only to approved channels."

Joe L. Garcia, Harold Garcia, Charlie Eden and Gil Tabet are approved couriers and messen-

gers for internal distribution of top secret documents. They double as addressograph machine operators printing rolls of addressed labels for special mailing lists and addressing SCI's for distribution.

In the mail room is also located part of Sandia's TWX facilities. Nick Padilla, Adolpho Maes, and C. D. Woodyard transmit and receive all of the Corporation's TWX communications with the exception of organizations operating their own direct tie lines.

One-Man Night Shift

One man, Jake Aragon, works an evening shift in the mail room. His job is to ready mail that came in late in the afternoon for early morning distribution and to make a trip to the main Post Office in Albuquerque to expedite mail processed by the evening shift of Document Control Section 2461-4.

Only first class mail is handled by the Central Mailing Section. All outgoing parcel post is delivered by the motor messengers directly to Receiving Section 2353-3 under R. W. Durand for processing.

"Our men enjoy working together both on the job and off," Nick says, "the mail section contributes a majority of members for the 2400 teams that participate in Sandia's recreation programs. Our team won the Softball Sportsmanship Award this year and has placed high in basketball and other sports in the past."

"It is an indication," he says, "of the teamwork that makes possible the efficient handling of a mountain of mail."



TWX OPERATORS in the Central Mailing Section handle almost 200 messages daily. Shown here are, L to R, Adolph Maes, Nick Padilla and Woody Woodyard all of the Central Mailing Section.



INCOMING MAIL bulging in heavy Post Office sacks is shoved up a roller ramp to the window of the Central Mailing Section. Here Tony Lopez pulls the mail inside for prompt distribution.



MOTOR MESSENGERS of the Central Mailing Section 2461-5 hustle mail from Bldg. 802 to all delivery stations in the plant area as many as six times a day. Loaded with mail pouches are L to R, Jim Sanchez, Larry Tichenor, Dick Peterson, Buddy Sanchez, Leo Chavez, Foy Graves, Dave Davis, Artie Romero and Harold Garcia. Their routes take them to many different buildings.



TOSSING a heavy sack of mail onto the roller ramp into the Central Mailing Section is Don Odell. In the background is a fully loaded truck just returned from one of many daily pickups.