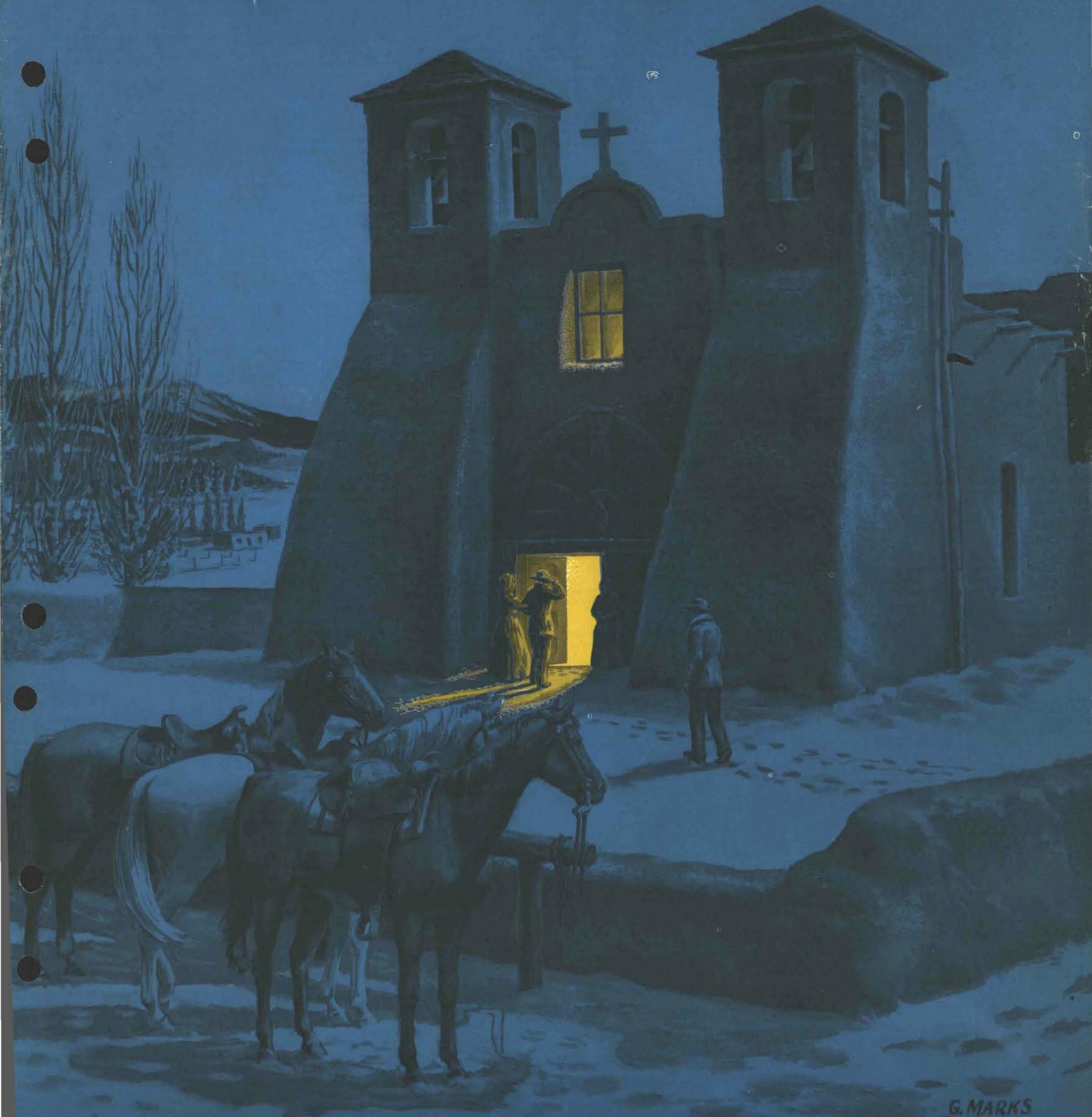


# Sandia Lab News

VOL. 10 NO. 25 DECEMBER 12, 1958



G. MARKS



The Sandia Lab News is an official publication of the Sandia Corporation, Albuquerque, N. M.  
Office: Room 10, Bldg. 829, Public Relations Division  
Editor: Robert S. Gillespie  
Staff

Donald E. Graham, Cherry L. Burns, June Leonard  
William A. Jenkins, Livermore Branch



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



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## These Were the "Good Old Days"

Back on April 5, 1872, a Mr. Zachary Geiger, proprietor of the Mt. Cory Carriage & Wagon Works, posted a set of rules for his employees. Here they are:

1. Office employees will daily sweep the floors, dust the furniture, shelves and showcases.
2. Each day fill lamps, clean chimneys, and trim wicks. Wash the windows once a week.
3. Each clerk will bring in a bucket of water and a scuttle of coal for the day's business.
4. Make your pens carefully. You may whittle nibs to your individual taste.
5. This office will open at 7 a.m. and close at 8 p.m. daily except the Sabbath, on which day it will remain closed. Each employee is expected to spend the Sabbath by attending church and contributing liberally to the cause of the Lord.
6. Men employees will be given an evening off each week for courting purposes, or two evenings a week if they go regularly to church.
7. After an employee has spent 13 hours of labor in the office, he should spend the time reading the Bible and other good books while contemplating the Glories and building up of the Kingdom.
8. Every employee should lay aside from each pay a goodly sum of his earnings for his benefit during his reclining years, so that he will not become a burden upon the charity of his betters.
9. Any employee who smokes Spanish cigars, uses liquor in any form, gets shaved at a barber shop, or frequents pool and public halls, will give me good reason to suspect his worth, intentions, integrity and honesty.
10. The employee who has performed his labours faithfully and without fault for a period of five years in my service, and who has been thrifty and attentive to his religious duties, and is looked upon by his fellowmen as a substantial and law abiding citizen, will be given an increase of five cents per day in his pay, providing a just return in profits from the business permits it.

Be Worthy Of Your Hire

At a season when we are asked to count our blessings this is especially interesting reading.

## Livermore Hospital Drive

The success of the drive for hospital construction funds in Livermore, Calif., is a credit to the community. And the part Sandia Corporation employees played in the drive is a credit to their generosity, loyalty and energy.

The spirit in which the Sandia people supported the drive was clearly demonstrated when co-workers of Ralph Johnson (8222-1) and his wife, Mary (8212-3), made a donation in the memory of their son, Keith, who died of cancer two months ago.

The \$104 these friends gave will go to purchase hospital pathology laboratory equipment. The parents have expressed their sincere thanks to their co-workers who made the gift. Giving to a worthy cause is commendable and giving in the spirit this gift was made makes the cause even more meaningful.

## Congratulations

### Born to:

- Mr. and Mrs. Richard Andres (7329) a son on Nov. 24.
- Mr. and Mrs. W. C. Purchase (4362) a daughter, Barbara Lynne, on Nov. 26.
- Mr. and Mrs. M. T. Hodge (2124-3) a son, Ernest Claybourne, on Nov. 25.
- Mr. and Mrs. Robert E. Moll (1625) a son, Jeffrey Edwin, on Nov. 24.
- Mr. and Mrs. George W. Dyckes (1625) a son on Nov. 26.
- Mr. and Mrs. Marvin Brieske (8151-1) a daughter, Deborah Lynn, on Nov. 25.
- Mr. and Mrs. Bill Jenkins (8233-1) a son, William Carter, on Dec. 1.
- Mr. and Mrs. George Perkins (8232-1) a son, Scott George, on Nov. 29.
- Mr. and Mrs. Louis B. Flores (2722) a son, Rudolpho, on Nov. 23.
- Mr. and Mrs. Matt Roach (7411) a son, Rickey Lee, on Nov. 30.

- Mr. and Mrs. George L. Hutchison (2232-1) a son, Stanley Lyle, on Nov. 26.
- Mr. and Mrs. Arthur Gross (4152-2) a son, Jon Jacob, on Nov. 25.
- Mr. and Mrs. Benny Garcia, Jr. (4152-2) a son on Dec. 2.

## Sympathy

- To Seferino Sanchez (2234-1) for the death of his sister recently.
- To Dorothy Harrington (7221-1) for the death of her mother on Dec. 1.
- To George W. Cosden (2713-1 New York area) for the death of his father on Nov. 27.
- To L. G. Welborn (1542-1) for the death of his father in Walsenburg, Colo., Nov. 30.
- To Angie Gurule (7421) for the death of her father in Las Vegas, N. M., on Nov. 24.

## Livermore Employees Planning Christmas Party for Children

A Christmas party for the children of UCRL and Sandia's Livermore Laboratory employees will be held Saturday, Dec. 20, at Livermore Union High School auditorium.

Members of the Radiation Laboratory Recreation Association and the Social Activities Committee of the UCRL Mechanical Engineering Division have joined forces to plan the party.

Fred Darugh (8162-2) will perform as "Conjure the Magician"



**FIRE EATER EXTRAORDINARY** is the billing Fred Darugh (8162-2) uses for his magician's act part of the entertainment for the combined UCRL and Sandia-Livermore Children's Christmas Party, December 20.

for the festivities. As head of the entertainment committee, Fred has arranged for a trampoline act, several clowns, including Joe Sladky (8115-2) and Al Alford (8234-1), to perform.

Tickets for the party are 50 cents. Donation tickets, 25 cents, are being sold to those who cannot attend but who want to assure a successful party. Donation ticket holders will have a chance to win one of 15 or more 18-lb.-plus turkeys.

The Christmas party will actually be four parties in one. There will be four shows with Santa Claus passing out gifts to the youngsters after each show. Parents will have a chance to win a prize at each show. Ticket chairman Jean Ivarson (8233-1) requested that parents get tickets early.

Ticket salesmen and their telephone extensions are: Russ Richards, 252; Jim Mesnard, 227; Marilyn Kane, 2258; Janet Rego, 2323; Carter House, 2306; Margurite Mihoevich, 7138; Ferne Saylor, 7080; and Jim Wright, 7063.



Eva Chavez (AEC)

## Take a Memo, Please

The right way to do a job is the safe way.  
The safe way to do a job is the right way.



CORONADO CLUB holiday trim as well as decorations for organizational Christmas parties have been furnished this year by the Sanado Club art and garden groups. Adding the sparkle to an evergreen wreath are (L to R) Mrs. W. G. Funk (3120), Mrs. William S. Sharp, Jr. (2131) and Mrs. Robert Higgins (7214).

## Back From Service

Sandia organizations have welcomed back two more employees following leaves of absence to fulfill military service requirements.

Howard K. Dicken has returned to division 5223 after two years in the Army Signal Corps.



H. K. Dicken R. P. Baker

He was stationed at Fort Monmouth, N. J., and Fort Sill, Okla. Before reporting for military duty he had worked for Sandia about five months.

Robert P. Baker is back in Division 1542 where he started with the Corporation five years ago. Meanwhile he served three years in the Navy at both Mare Island Naval Shipyard near San Francisco and at Eighth Naval District in New Orleans.

## Bowlers Needed

Bowlers interested in tournament play are urged to contact Lew Hake (1472), ext. 39265, secretary of the Sandia Major Bowling League. The group is always interested in prospective players who average 160 or more to fill vacancies or act as substitutes.

## Weddings and Engagements

Helen J. Bordewick (8212-2) became the bride of Wallace C. Eberhardt on Nov. 29 at the Lutheran Church in Reno, Nev.

After Jan. 1 the newlyweds will make their home in Columbus, Ind.

Helen joined the Corporation last June.

Mr. and Mrs. Kenneth Hankins are now at home at 3203A 30th Place, Sandia Base, following return from a honeymoon in El Paso and southern New Mexico.

Kenneth and the former Margaret Grover were married Nov. 14 at La Mesa Presbyterian Church.

Margaret works in 7411 and her husband is in 7412. Both have been at the Corporation more than six years.

Mary Lou Doederlain and "Dutch" Schirmer will be married on Dec. 27 at the Redeemer Lutheran Church.

Mary Lou has been with the Corporation in division 1456 since July 1956. Her fiance is a student at the University of New Mexico.

The couple will honeymoon in Colorado, then reside at 1112 Maxine NE.

## Elaine Hughes to Be Soloist With Civic Chorus

The 14th Christmas presentation of Handel's "The Messiah" by the Albuquerque Civic Chorus



Elaine Hughes

will have as guest alto soloist Elaine Hughes (3154).

The program will be presented Sunday, Dec. 14, at 8:30 p.m. at the Civic Auditorium.

Since coming to Albuquerque four years ago from Laramie, Wyo., Elaine has won second place in The Young Artists Contest and was guest soloist in 1955 for the Chorus.

Other Sandia employees who will sing in the chorus are: Fern Howes (7226), Joan Lent (7225 assigned to 1624), James R. Dillard, Jr. (2243), John Newman (1414), Clinton H. Purdue (1521), Richard E. Knutson (1262), and Richard J. Gossett (5223).

Tickets are on sale by all members of the chorus and at the Civic Auditorium.

## Entering Service

Christmas greetings came early this year for Theodore S. Trybul (5143)—from Uncle Sam. He will report shortly for Fort Belvoir for officer's training.

A graduate of the University of



T. S. Trybul

Illinois, he was granted a regular commission in the Army Corps of Engineers after being designated a distinguished military student in ROTC.

Working in aeronautical research for the past two years, he was also active in the Sandia sports program, having played on the Corporation's all star softball, basketball and football teams.

# Sandia Organizations Plans for Christmas Charity Snowballing

Plans are snowballing among organizations at Sandia for Christmas assistance to the needy in lieu of exchanging greeting cards.

Most groups have appointed committees to handle the details and donations will be flowing in as Christmas draws closer.

The Salvation Army, Department of Public Welfare, Catholic Charities and Elks Club have on hand the names of families needing help and these agencies will also make deliveries of donated items.

The Albuquerque Council of Social Agencies is encouraging year-round assistance rather than generosity expressed only at Christmastime.

Employee Services Division, 3122, is assisting Sandia organizations by providing information and transportation. Telephone inquiries may be made at ext. 26149.

Department 2150 got an early start and by the first week of December already had collected \$198 among its personnel. Plans call for assisting one family with food, clothing and gifts, while two other families will be given token gifts.

The ambitious plan of providing a Christmas dinner and children's toys for 23 families is being repeated this year by Department 7410 personnel. In 1957 \$300 was collected. A. L. Ouellette (7411-4) is chairman for the Christmas Food Basket Operation and solicitors have been named for each of the 14 sections in the department. The food packages will be delivered to the families on Dec. 24.

Section 2713-4 manages to successfully combine Christmas giving with further aid through the year. Through the cooperation of Perry L. Simmons, husband of Jean Simmons (2713-4), and Creamland Dairy, his employer, the section both last year and again this year is furnishing a needy family with one year's supply of milk delivered daily.

Mr. Simmons forfeits his personal commission and the dairy also gives assistance. Section 2713-4 selects the family and makes all other donations such



**GIFT WRAPPING SESSION** was held by (L to R) Delmar Duffy (2152-6), Bruno Paoletti (2152-3), Joanne Boyd (2150), Gerhard Horn (2151-1) and Ted Neubauer (2153-2) in preparation for department's Christmas giving. Committee has raised \$198 already.

as food, clothing or any particular need of the family.

The slogan "Christmas Baskets Instead of Wastebaskets" has been adopted by 5200 personnel to emphasize the practice of substituting food donations for the needy in lieu of exchanging cards among fellow employees. Collectors appointed by the Christmas committee are: Ed Barber (5210), J. A. Hamilton (5220), H. J. Plagge (5230), Esther V. Donaldson (5240), and W. T. Smith (5250).

Division 2131 is working on plans to "adopt" a family for Christmas and provide them with food, toys and other needed articles.

Containers for donations of money have been placed around the work areas of Department 2110 with assistance to a needy family the group's goal.

Members of Division 3152 have decided to help the Bernalillo County Indian Hospital and the All Faiths Home. A visit has already been made to the two locations and immediate needs noted. The Christmas committee includes R. A. Quelle, chairman, Connie Steputis, Hallie Tankersley and Marvin Sektman.

Division 2463 has voted to contribute, to a needy family, money that ordinarily would be spent on inter-office Christmas cards. In

charge of additional collections of toys, clothing, and canned food, are Jim Walston, Gail Ward and Voris Hope.

Collections are being made in Division 3153 for food, clothing and toys to help make a cheerful Christmas for one family.

A committee has been appointed in Division 2466 to collect funds to be shared by members of a family chosen through the Salvation Army. Committee members are: Bernice Cannon, Ruth Leslie and Dorothy Lewing.

## UCRL Renamed To Honor Late E. O. Lawrence

The University of California Radiation Laboratory at Livermore changed its name to the Ernest O. Lawrence Radiation Laboratory. Announcement was made recently at a meeting of the National Academy of Sciences.

The name honors the late Director of the Laboratory, Prof. Ernest O. Lawrence.

It was his invention of the cyclotron that led to the laboratory's founding in 1936 as a division of the Department of Physics at the University of California. Prof. Lawrence served as Director until his death last August.



**LIVERMORE VALLEY MEMORIAL HOSPITAL** will be built! The community effort to raise \$525,000 for a new hospital exceeded its goal by \$178,000. Helping Livermore city firemen lift the victory sign is Dolores Van Noy (8211-1). The final report shows Sandia employees contributed a total of \$37,745 which was almost \$8,000 over their goal. The average employee contribution was \$104. In addition, the Corporation contributed a big round \$10,000.

## Postpone Opening Of Reactor Bids Until Next Year

The Atomic Energy Commission has advised contractors that bids are now scheduled to be opened March 22, 1959, instead of Dec. 18, 1958, as previously announced, on construction of an engineering reactor facility for Sandia Laboratory. The additional time is needed to complete work on plans and specifications, which now are due to be issued about Jan. 15, 1959.

The project will include construction of two materials testing reactor buildings, including radiation shielding, utilities, evaporative cooling, and alarm system, fencing and grading. The work will not include fabrication or installation of the reactor itself, which is being procured separately.

The Government cost estimate for the two buildings and associated facilities, not including the reactor, is \$1,750,000 to \$2,000,000.

## Metal Trades Council Elects Officer Slate

Harold Burrell (2124) has been reelected president of the Atomic Projects and Production Workers Metal Trades Council at Sandia.

Other officers of the group are: Edward J. Peterson (2154), vice president; John C. Sitts (2411), secretary-treasurer; J. B. Ortiz (2163), recording secretary; and C. Calendaria (2473), sergeant-at-arms.

Trustees are: Millie Graves (2462), H. E. Griskey (2413) and Charles Davis (2411).

## Patents Awarded Former Employees

Patents have been awarded two former Sandia Corporation employees in the name of the Atomic Energy Commission, the Patent Department (6010) reports.

Patent number 2,861,789 for a device to measure acceleration was awarded to the AEC in the name of Kenneth E. Pope (formerly 1473), now working for Globe Industries in Albuquerque.

A component of computers, "Regenerative Transistor Amplifier," invented by Louis J. Kabel, now with Stanford Research Laboratory, Palo Alto, Calif., was awarded Patent number 2,862,113.

## Radio Club Members To Have Holiday Party

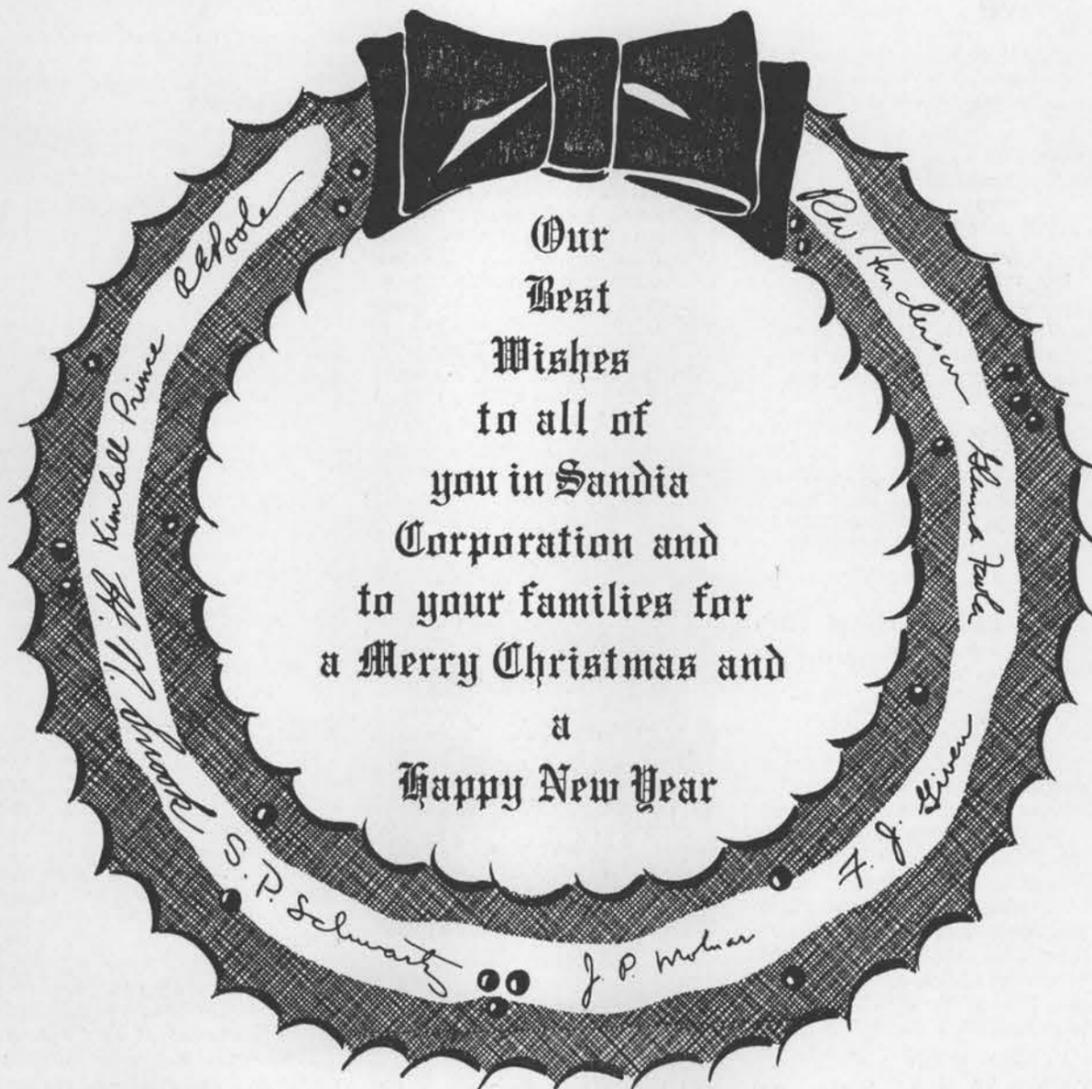
Annual Christmas Party of the Sandia Base Radio Club will be held Dec. 19 at Leonard's Restaurant at 7:30 p.m., according to Ed Bales (2554), newly elected secretary of the club.

Tickets, \$2.50 per person, are available from Ed, ext. 26257, John Cundy (7233), ext. 43133, and Tom Banks (5252), ext. 42242.

## Byatt Speaks to Colloquium Dec. 17

William Byatt (5111) will address a meeting of the Sandia Research Colloquium on Wednesday, Dec. 17. "Analog Calculation of Phase Shifts in Elastic Scattering of Electrons by Atoms" is the subject of Mr. Byatt's talk.

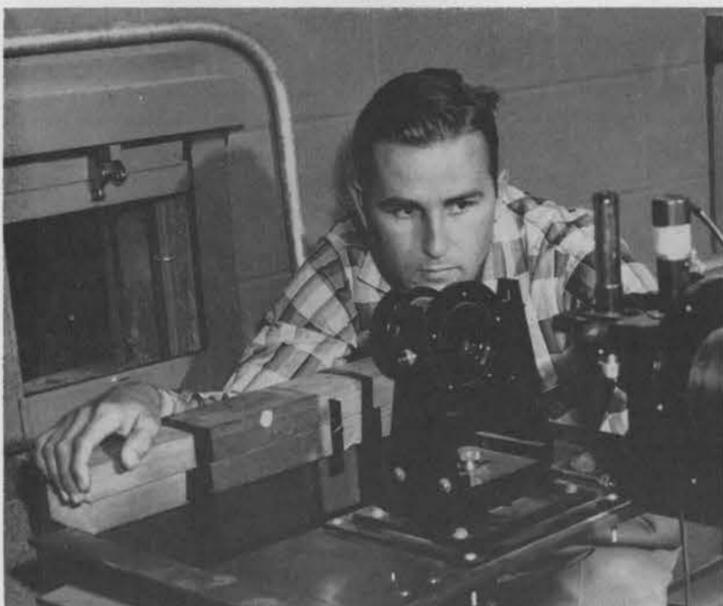
The meeting will begin at 9:30 a.m. in the basement conference room of Bldg. 802.



# Site 300 'Foreign Legion' Expert In Handling High Explosive Tests



GUY WILLIS operates a high voltage power source, one of the many pieces of auxiliary test equipment at the Sandia permanent facility.



GENE SIMPSON reads the Bowen smear camera, used to measure small explosion times. The explosion will occur behind the concrete wall; the camera, focused on the explosion through the window, will translate image into measurable photographic trace.

Do you like to get away from it all, people included? Are you willing to trade the racing pace of office life for plenty of fresh air and sunshine?

Do you like to work with high explosives?

Answer yes to all these questions and you're a prime candidate to join three Sandia-Livermore men at an oasis in Livermore's desert outpost, the AEC's Site 300.

Located 15 miles from Livermore in the Altamont hills, Site 300 has been known to make transferees from Albuquerque homesick. Only the rolling hills nearby distinguish the brown mesa with its rocky buttes and occasional flock of sheep from the high country around Albuquerque.

The three Sandians who make the long trip across rugged canyon roads each morning, returning at night, are engineer Howard Cole and staff assistants Gene Simpson and Guy Willis of Local Test Section 8121-2. Since the little Sandia test base was established last September, the men of this miniature foreign legion have spent most of their time in the hills.

The whole of Site 300 covers about 10 square miles. It is administered by the University of California Radiation Laboratory for the AEC. By agreement with UCRL, Sandia arranged last year to use a small portion of the acreage for explosive tests. None of the explosive tests conducted by either laboratory at Site 300 involve nuclear materials.

### Three Men Assigned

The three Sandia men on permanent duty at the site work in a fully-equipped operations building. Nearby, dug into the hills, is a magazine bunker. The Sandia test installation was designed largely by Howard Cole; he and his crew carry out continuing test operations under the supervision of Bill Little, head of the Environment Test Division (8121).

These test operations are unusual, to say the least. Cole's crew spends most of its time analyzing explosions. To get precise information, they must literally measure the explosion before they can interpret the results. Considering that most of these explosions are over in about ten millionths of a second, theirs is not an easy job.

The trio has two ways of analyzing an explosion. In one, the pin method, a number of pins are placed at different distances in front of a plate, and the explosion occurs behind the plate. As the explosion drives the plate forward, it makes contact with each pin at a different time. By recording each contact on an oscilloscope and measuring the time between traces, the rate at which the explosion is growing can be determined.

### Smear Camera Used

In the other method, a camera is used. It's called a Bowen smear camera and it contains an 8-face

mirror which spins 500 times a second.

The camera is aimed at the explosion from behind a shatter-proof window set in a wall, and the explosion is set off. The spinning mirror in the camera picks up pictures of the explosion and reflects them onto a long, semi-circular film plate—sort of smearing the picture across the film.

The length of the smear or trace on the film plate can then be translated into explosion time. Using the Bowen camera, it is possible to measure traces on the film plate within microns, and explosion time within a few microseconds.

Where there are explosions there must be safety precautions. At Site 300 safety is on everyone's mind all the time. All safety procedures are spelled out in detail by a thick book of operating procedures. The entire site is fenced, and access is strictly controlled.

Firing areas within the site are also fenced, and no one can get in until the firing area is called on a field telephone. At the Sandia facility an alarm on the gate rings before firing time as a double check against visitors straying within range of an explosion.

### Safety Comes First

Within the area, safety procedures are equally stringent. Matches are forbidden, and smoking is controlled within the operations building. The men who handle explosives wear conductor shoes to guard against carrying a static charge on their bodies. A long check list must be completed before even the smallest charge is fired. Perhaps the most reassuring item to the visitor is a head count to make sure everyone within the firing area is in the operations building before the charge is fired.

Another standard operating procedure deals with the wildlife oc-

asionally encountered in and around the site. Snakebite kits are kept inside the operations building and are strapped to the steering post of vehicles operating in the area.

"They've seen snakes at other parts of the site, and mountain lions up in the hills," Howard Cole reports, "but so far we haven't had any in our area."

Actually, supervisors consider that the daily drive to and from work may now be the most hazardous part of the test operation. "When trained men are handling explosives in accordance with good safety procedure, there's very little danger," Bill Little explains, "but driving habits are harder to control, and that's a pretty poor road. We stress slow and careful driving."

### Use Other Areas

In addition to the permanent installation, Sandia has arranged with UCRL to use other small parts of Site 300 on a temporary basis for special test projects. One such project is now in progress. George Darmohray (8121-2), area coordinator for the project, and Dick Sundahl (8121-2), who is responsible for test planning, are directing a series of development tests at two firing ranges, using mobile instrumentation vans to obtain and record test data.

Another permanent Sandia installation—a 100-foot drop tower to aid in impact studies — is planned for later in the year.

While life at Site 300 may be rugged, it has its advantages. Livermore office workers are convinced that the men at the site have the answer for balmy California summers. Dress is decidedly informal, and shorts are often the order of the day.

On the few hot days that hit Livermore in July and August, the men who work at Livermore's "oasis in the desert" are probably the coolest crew around.

## Corrosion Aspects to Be Studied by ASME Production Engineers

"Corrosion in Action," a film of the many aspects of deterioration in metals, will be shown at a meeting of the Production Engineering Professional Division of the American Society of Mechanical Engineers Monday, Dec. 22.

The meeting will be held at 7:30 p.m. in Rm. 2 of the Mechanical Engineering Building, University of New Mexico, according to Chris Christensen (2541), chairman of PEPD.

## Luther Saylor Will Retire Dec. 26 After 10 Years at Sandia

Luther Saylor (2154-2) will retire from Sandia Corporation Dec. 26, two weeks after receiving his ten year pin.

A machinist since 1904, Luther came to Albuquerque 10 years ago



Luther Saylor

from Indianapolis to visit his daughter and never went back. He started working at Sandia when the machine shop was located in a quonset hut.

Luther likes sports and places 3 B's at the top of his list—bowling, boxing and baseball. Until this year he bowled two nights a week, but now he's tapered down to one league and carries a 162 average.

Luther and his wife plan to remain in Albuquerque at 405 Gen. Patch NE. He has two married daughters.

## Dorcas Close Retires To Live in Ohio After Touring in Southwest

Dorcas Crosby Close, a disbursement audit clerk, (4131-4), retired Nov. 28 after eight years with the Corporation.

She was married Nov. 19 and will now make her home at 513 East 11th St., Lackport, Ill. Summers the couple will live on their farm near Defiance, Ohio.

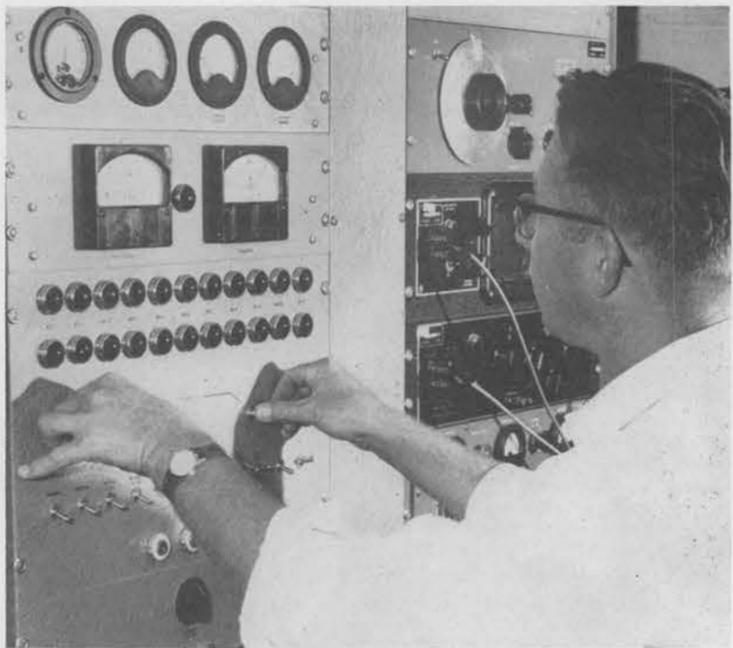
Right now the Closes are traveling through Arizona and eventually expect to vacation in Florida. Dorcas is an avid traveler and has already made several trips to Alaska.

Regarding her retirement Dorcas said, "In Ohio I'll be living within 150 miles of all of my relatives and after eight years of living in the Sandia dormitory it will be nice to have my own home."

## Jan. 1 Deadline for UNM Registration

New students who will be attending the University of New Mexico for the first time in January and students who have attended in the past but are not currently enrolled should complete applications by Jan. 1, the registrar's office has announced.

Sandia employees who wish to enroll under the Corporation's Educational Aids program for the first time should consult their supervisor and the Staff Training and Education Division 3123 in time to meet the University's enrollment deadline. Further information including course offerings is available from W. H. "Bill" Bailey (3123), ext. 45157.



HOWARD COLE checks control panel before firing an explosive.



SANDIA'S PERMANENT installation at Site 300. Out of sight behind the small hill at left is the bunker where explosives are stored. Safety is the first word in stockpiling all kinds of ammunition.

# Faces of the Christmas Season



**CHRISTMAS IS FOR CHILDREN.** Timmy 2½ and Kathleen 5½, children of Jim H. Kelly (3122-1), check the merits of a diesel engine at a local toy shop. Stuffed animals had more appeal to Timmy.



**FROST BOUND** pretty girl is Janet West (4333). There's no guarantee for holiday snow in Albuquerque but bright sunshine is a satisfactory substitute for the white stuff for most residents.



**EVEN SANTA CLAUS** is out on a limb as Carole Cole (7225-1522) trims her tree. Fireproof decorations and electric lights rather than candles cut down fire hazard. Star of Bethlehem tops the tree.



**"DECISIONS, ALWAYS DECISIONS,"** thinks T. J. Williams (1451) as he thumbs through albums of Christmas cards. Greeting cards originated in England about 1844 and now are used universally.



**FRIENDS, RELATIVES** and other gals in the Typing Pool (7225-5) will vouch for Ruth Way's good Christmas cookies. Although this "batch" is cut in fancy shapes, she prefers "drop" cookies! with lots of fruit and nuts and loads of delicious calories!



**GREEN OR SILVER,** real or artificial, evergreens are widely used in America to symbolize everlasting life. Mollie (3152) and Gurdon Miller (5111) check the strong branches and freshness of this prospective Christmas tree with an eye on safety as well as beauty.



**RELIGIOUS THEME** is important part of holiday season to most people. Many of our popular customs have foundation in religious symbols. Voris Hope (2463) admires Sandia Base Chapel bell tower.



**ORIGIN OF HANGING** stockings at the fireplace is lost in time but youngsters already prepared for Christmas Eve are (L to R) Tom 4, Jim 5½ and Karl 2½, all sons of Richard A. Kavet (2552-3).

# Supervisory Appointments

**GEORGE P. STECK** to supervisor of Quality Assurance Procedures Division 5511, Quality Assurance Department.



During the three and one-half years he has been at Sandia George has been doing research in probability and statistics in Division 5125.

George holds a BA degree from the University of California at Berkeley, a Master's degree in Physics from California Institute of Technology, and a PhD degree in Statistics from the University of California.

Before working toward his doctorate he taught physics and math for one year at the University of California College of Agriculture, Davis, Calif.

George served four and one-half years in the Navy, part of the time as an electronics officer in the Pacific.

He is a member of the American Mathematical Society, Institute of Mathematical Statistics, American Statistical Association, Society for Industrial and Applied Mathematics, Sigma Xi, scientific honorary, and Phi Beta Kappa, scholastic honorary. He has had technical articles published in three journals.

**DAVID D. HURLEY** to supervisor of Security Division, 8231.



"Dave" joined Sandia at Livermore in March 1957 and eight months later he was promoted to supervisor of Security Section, 8221-3.

Previously he was with AEC security at Hanford Operations Office, Washington, and later with the San Francisco Operations Office for a total of 10 years.

From 1940 to 1942 he was a Treasury Department deputy. Early in World War II Dave was a civilian investigator with the Intelligence branch of the Air Force. He spent two years in the Navy as a gunnery officer.

Dave studied law two years at the Gonzaga University Law School.

**ROBERT DEWHURST** to supervisor of Information and Publications Division 8233, Information, Security, and Program Control Department.



"Bob" has been with Sandia since 1953. He worked first as a planning and scheduling coordinator and then as a technical writer. In February 1956 he was transferred to Livermore as a technical department service representative. He was promoted to supervisor of the Information Services Section in July 1957.

Before joining the Corporation Bob was a newspaperman for a number of years. He was an Associated Press editor in the Albuquerque bureau and worked as a reporter for the Albuquerque Tribune, the El Paso Herald-Post, and the Staten Island (N. Y.) Advance.

Bob received his BA degree in government from the University of New Mexico in 1952. He also attended the RCA Institute night school for a year as well as various military radio and electronic schools. He served three years with the Army in radar maintenance.

Bob is a member of Golden Gate chapter of the Technical Publishing Society.

**KEEVIN T. MORIARTY** to Senior Auditor in Auditing Division 4121.



A Corporation employee for six and one-half years, Keevin has worked in auditing the entire period. He came to Sandia from Lincoln, Neb., where he was an accountant for an automobile dealer for a year.

Previously Keevin taught accounting for two years at the Lincoln School of Commerce.

He attended the University of Detroit for two years and went on to the University of Nebraska to receive a BS degree in Business Administration.

From 1943-45 Keevin served in the Army Air Corps, part of the time stationed with the Eighth Air Force in England.

He is a member of the American Institute of Certified Public Accountants and the New Mexico Society of Public Accountants.

**MAXINE STEPHENS** to supervisor of Secretarial Section 7225-6, Secretarial Services Division.



Maxine started with the Corporation in November 1955 as a typist-clerk in purchasing. Six months later she transferred to personnel and has been an interviewer there since March 1956.

Her previous experiences include a year as an interviewer for the State of Washington at Wenatchee and three years as a county office clerk for the Farmer's Home Administration in Caldwell, Ida.

During World War II Maxine served three years in the WAVES and was a Link Trainer instructor.

She has a BA degree in Physiology from the College of Idaho and is a member of the International Association of Personnel Women.

**JOHN F. BRYSON** to supervisor of Model Shop and Inspection Division 8233, Plant Services Department.



John came to Sandia in 1946 as a machinist. In 1952 he was promoted to supervisor of the machine shop night shift section and later supervised a number of different sections in the machine shop. Last April he was transferred to Livermore to head the Model Shop Section.

Before joining the Corporation John spent three years in the Navy as a machinists mate. Previously he worked two years as a tool maker with the Studebaker Corp. at Ft. Wayne, Ind. Before that John was employed for three years by Chrysler Corp., Newcastle, Ind., as a tool maker.

**JAMES H. MAFIT** to supervisor of Plant Engineering Division 8221, Plant Services Department.



"Jim" joined Sandia in 1951 as a draftsman and later worked in plant engineering. In 1955 he left to become mechanical superintendent with Skidmore-Owings-Merrill architectural firm at Los Alamos and a year later joined UCRL at Livermore as a project architect. In November 1956 Jim rejoined Sandia at Livermore and in July 1957 he was named Plant Engineering



SOFT GLOWING luminarios, unique as a Christmas decoration in the Southwest, outline an Albuquerque residence. This photo was taken during the holiday season last year by Oscar Goodwin (2462-1).

## Sandia Pres. Molnar Tells Supervisors They Are Judged by Work of People Under Them

"The performance of the supervisor," J. P. Molnar, president of Sandia Corporation, said recently, "is no longer judged by what the supervisor individually accomplishes, but rather by what the group he is responsible for accomplishes."

Mr. Molnar was speaking to a group of Sandia supervisors who had just completed a supervisory development conference.

"There is nothing most people would rather do than put their whole heart and soul behind some cause they are convinced is worthwhile," he said. Mr. Molnar then pointed out that it is the job of the supervisor to define goals so that they are clear and obviously worth-while.

Further discussing the qualities of a good supervisor, Mr. Molnar pointed out that they are interested in the personal welfare of the people reporting to them and help

them develop to the full extent of their capabilities. The man with great potentialities is not held back by the good supervisor, as it is a great service for outstanding people to be broadened and be of more service to the Corporation.

Mr. Molnar encouraged supervisors to keep up with the technology of their group's activities. He pointed out that in this day of fast moving technology this is not easy, but nevertheless it is necessary if the supervisor is to best help his people.

One of the main jobs of the supervisor, he advised, is to make sure that his group is accomplishing its assigned function in the Corporation.

"It is most refreshing," he added, "to hear a suggestion from a supervisor that he could do his job with fewer people."

Making a point of the need for supervisors to have a good under-

standing of the "broad scheme of things" at Sandia, he told the audience, "It is the combination of managerial skill and inspired leadership in your assigned area plus a record of contributions in the broader sense to the Corporation activities that we look for when we pick candidates for higher management positions."

The real satisfactions of being a supervisor, Mr. Molnar said, are of a deeper sort.

"To me," he said, "they arise from the knowledge that I am living a life that permits me to guide the productivity not only of myself but that of other people. If I can feel that I am doing this successfully, and the total effort accomplishes something really useful for a worth-while cause, then I have the satisfaction that my life has been more than just grubbing a living out of a day's work."

### SANDIANOTES . . .

#### More Boating Fans

Two new boat owners have joined the ranks of weekend sailors at Livermore.

Dick Cook (8141-1), a seasoned skin diver, decided to take to the surface when he bought a 14-foot runabout boat and trailer with a 25 hp outboard motor. Recently he and his wife went water skiing at Don Pedro reservoir, about 50 miles from Livermore. Fortunately they took along their rubberized skin diving suits because the day was chilly.

Jim McMinn (8234) has bought a 22-foot Owens inboard cruiser and is getting ready to launch it.

#### Get Well Wishes

Wishes for a rapid recovery are extended to Ralph A. Roane (1414), who underwent surgery last week.

Richard A. Miller (2722) is also off work due to illness. His co-workers send along wishes for a speedy recovery.

Get well wishes also go to Earle Paxton (8232-2) who is recuperating from a recent illness at the Washington Township Hospital in Fremont, Calif.

and Maintenance Section supervisor.

He received his BS degree in architectural engineering from the University of Houston in 1951. Previously he worked a year for an engineering firm at Carlsbad, N. M.; three years for a potash company as a draftsman; and a year as a designer for a firm in Cincinnati, Ohio.

Jim is a veteran of three years service in the Navy and before entering the Navy he studied mechanical engineering at the University of New Mexico for two years.

#### 2700 Holiday Party

Organization 2700 will hold its annual Christmas party on Thursday, Dec. 18, at the Coronado Club with a buffet supper served from 6:30 to 8:30 p.m. and dancing afterwards to the music of Jimmy Caldwell's band. Arrangements have been made by: S. L. McCammon (2721), party chairman; H. E. Sloane (2723-3), arrangements; C. E. Drew (2711-4), entertainment; W. L. Paxton (2722-5), finance and Emily Gilmore (2731-1), publicity.

#### 2463 Celebrates

With Jim Walston and Gail Ward as committee co-chairmen, Division 2463 is busy making final arrangements for its annual Christmas party. Assisting on the committee are Gene Lloyd and Dick Strome.

According to Jim, a major problem this year is not in having to coax volunteers from the group for the floor show, but the selective choosing necessitated by an overabundance of talent. Listed as star attractions are Bill Pawley and Yale Knox, who will perform some tricky duo-guitar arrangements.

The party will be held in the La Caña room of the Coronado Club on Friday, Dec. 19.

#### Fun Plans for 1451

Division 1451 is having a Christmas party in La Caña room at the Coronado Club tonight. Festivities will begin with a buffet dinner at 6:30 and will be followed by dancing for the remainder of the evening.

Division 1455 has chosen Leonard's for their Christmas party tonight. Dinner will start at 6:30 followed by dancing.

#### Turkey Trickery

Anticipate difficulty carving the holiday turkey? Charles Ray (1613-3) has the perfect solution: he de-bones the fowl before baking, stuffs the bird back to original shape with dressing, then at the dinner table he carves easily without any hidden obstacles.

Charles, a butcher for 17 years, admits that you have to know the exact location of each bone in order to dig them out with knife and fingers. Once you have the knack and knowledge it takes about an hour to de-bone a turkey.

#### New Homes

Edward (2220) and Edith Jolly (5531) are ready for the coming holiday season in their new home at 11212 Snow Heights Blvd. NE

The C. B. Kinabrews (5531) are also in their new home at 11104 Brentwood Hills Blvd. NE.

The moving season is combined with the holiday season for Mr. and Mrs. Frank Keene (7423-1), now at 9831 Haines NE.

Moving time came in December for Mr. and Mrs. I. J. Honeycutt (2132-3), who are settled in their new home at 1212 Betts NE.

There's also a new address for the Ed Gilberts (5125). Their new home is at 2812 Tennessee NE.

#### ASTE Party

Albuquerque Chapter of the American Society of Tool Engineers is holding its annual Christmas party Friday, Dec. 19, at 8 p.m. at the Hugh A. Carlisle Post 13 of the American Legion. Address of the hall is 1201 Mountain Road N.E. Reservations may be made by calling Gene Idecker, CH 7-0361, ext. 375.



Martha M. Belmonte  
2418  
Dec. 13, 1948



Thomas N. Earp  
5214  
Dec. 13, 1948



Alfred F. Fields  
2731  
Dec. 13, 1948



Juan Perea  
2551  
Dec. 13, 1948



Luther B. Saylor  
2154  
Dec. 13, 1948



James S. Tamer  
5216  
Dec. 13, 1948



Carl Csinjinni  
1544  
Dec. 14, 1948



Harlan P. Kelsey, Jr.  
5512  
Dec. 14, 1948



Ruth V. Keyser  
3162  
Dec. 14, 1948



Kenneth B. Stiver  
2413  
Dec. 14, 1948



Malcolm L. Shannon  
5531  
Dec. 15, 1948



Fred Buttrey  
2124  
Dec. 17, 1948



Herbert E. Anderson  
1461  
Dec. 20, 1948



Albert E. Clamp, Jr.  
5513  
Dec. 20, 1948



Ralph B. Larsen  
2153  
Dec. 20, 1948



Charles F. Martin  
1426  
Dec. 20, 1948



George H. Matvichuk  
1461  
Dec. 20, 1948



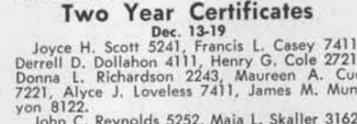
Thomas A. Vance, Jr.  
5112  
Dec. 21, 1948

### 10-Year Pins



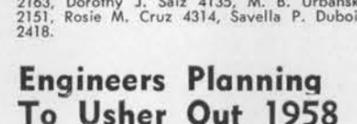
Wilbur E. Henry 2723, Thomas M. Bozone, Jr. 7321, Marie E. Dillon 4315, Wynona H. Durham 3210, John H. Findlay 5500, Joan Adkins 4143.

### Five Year Pins



Joyce H. Scott 5241, Francis L. Casey 7411, Derrill D. Dollahan 4111, Henry G. Cole 2721, Donna L. Richardson 2243, Maureen A. Cue 7221, Alyce J. Loveless 7411, James M. Munyon 8122.

### Two Year Certificates



John C. Reynolds 5252, Maja L. Skaller 3162, Alfonso O. Trujillo 2161, Trinidad J. Montano 2474, Dallas W. Sasser 5121, Rita Jo Dauzat 2163, Carl J. Wiseburg 1455, Paul M. Richey 2713, Alvin B. Thomas 7412.

### Engineers Planning To Usher Out 1958

The Albuquerque Chapter of the Professional Engineers plans a New Year's party, according to Bill Keeler (1282), publicity chairman. The party will be held Dec. 31 at the Alvarado Hotel beginning with a social hour at 7 p.m. Dinner is scheduled at 8 p.m. with dancing to the Joe Stark combo to follow. Ticket information and reservations are available from Bill, ext. 20147.

### Promotions

M. L. Heisler (1611) to Staff Assistant  
Cecil B. Foster (2462) to Bindery Operator  
Leon A. Williams (2462) to Bindery Operator  
Ralph W. Carter (2462) to Bindery Operator  
Richard Duran, Jr. (2462) to Bindery Operator  
R. Gabaldon, Jr. (2462) to Bindery Operator  
F. B. Arendorf (2462) to Bindery Operator  
Dennis B. Hayes (2462) to Bindery Operator  
Wayne W. Graving (2462) to Bindery Operator  
Lawrence A. Kent (2133) to Assembler  
Juan F. Zuni (2133) to Assembler  
Gilbert J. Lovato (2133) to Assembler  
Ronald E. Brooks (2131) to Layout Tech.  
Linda B. Kopp (7225) to Stenographer Clerk  
Dorothy M. Day (7225) to Secretarial Typist  
Evelyn J. Gilchrist (7225) to Sec. Steno.  
Hugh H. Howe (7221) to Library Assistant  
Elmer G. Goepfert (2111) to Expediter  
George P. Beller (4152) to Accountant  
Maurice S. Chavez (4132) to Tab. Analyst  
R. E. Summer, Jr. (2731) to Investigator  
Ferdinand F. Thome (8224) to Toolkeeper  
Celso Vazquez (8224) to Shipping & Rec. Clerk  
Karen L. Stock (3152) to Typist Clerk  
Zireta L. Votaw (3151) to Sec. Steno.  
E. A. Dietrich (8212) to Secretarial Typist  
Susan E. King (8212) to Sec. Steno.  
Mary H. Johnson (8212) to Switchboard Optr.  
Hazel F. Hellen (8212) to Sec. Steno.  
Norma J. Monday (7225) to Secretary  
Joyce P. Willford (8114) to Service Clerk  
Estra C. Hill (8212) to Secretary  
M. B. Paredes (8212) to Secretary  
Claire L. Grubbs (8212) to Secretary  
Kenneth T. Riddle (8224) to Property Clerk  
Charles E. Simpson (1613) to Lab. Asst.  
Lawayne E. Janssen (8224) to Stock Analyst  
Tommy G. Lane (2466) to Material Handler  
George F. Lusareta (8224) to Document Clerk  
Phyllis K. Munn (8221) to Document Clerk  
Judith C. Gehring (8141) to Staff Assistant  
S. Joanne Myers (2461) to Document Clerk  
Mary Barea (7242) to Record Clerk  
M. J. L. Gallegos, Jr. (2713) to Investigator  
John R. Russell (7233) to Material Handler  
Herbert A. Parsons (2222) to Staff Assistant  
Everett M. Gieseker (2632) to Staff Assistant  
Richard P. Demmel (2633) to Staff Member  
M. R. Gutierrez (2234) to Toolkeeper  
Glenn M. Haycock (2412) to Helper-Trades  
Odelio J. Otero (2231) to Repairman  
Oscar I. Thompson (2475) to Special Handler  
Audrey C. Box (2551) to Technician  
F. E. Ramirez, Jr. (2112) to Record Clerk  
Gene L. Guerin (2211) to Record Clerk  
Marian P. Goddard (2221) to Record Clerk  
Joyce K. Miller (3124) to Steno. Clerk  
Margaret I. Kier (7423) to Record Clerk  
Lyle T. Davis (1612) to Data Reduction Clerk  
Mary W. Warner (2621) to Service Clerk  
Marion L. Jones (3122) to Service Clerk  
Louise S. Winner (7121) to Typist  
Gilbert C. Baca (4161) to Property Clerk  
Aurice E. Grant (2713) to Investigator  
Patricia M. Snider (2632) to Chartist  
Thomas D. Clarke (1621) to Lab. Asst.

### R. J. Wilson Dies

Ralph J. Wilson, a Corporation employee for nearly 10 years, died Dec. 1 at Cocoa Beach, Fla., after an illness of three months. He was 46.

Funeral services were held in Cocoa Beach followed by burial in Orlando, Fla.

Mr. Wilson was first assigned to Salton Sea Test Base. He remained in California until March 1957 when he was assigned to Section 5254-1 as an instrumentation technician.

Surviving is his widow, Adelaide, of Rt. 3, Box 775, Merritt Island, Fla.

### Woman's Club Brunch

Mexican troubadours and colorful decorations will be features of the traditional annual Fiesta Christmas Brunch of the Sandia Base Woman's Club, being held today in the Officers' Club.

The wives of many Corporation employees are serving on committees for the Spanish buffet or entertainment. Christmas punch will be served beginning at noon. Mrs. R. W. Henderson (1000), chairman, will be assisted by Mrs. S. P. Schwartz (100) and Mrs. George W. Henfling (7242) as well as other group hostesses. Mrs. T. T. Robertson (7400) is in charge of table decorations. Publicity for the event has been handled by Mrs. B. C. Coats (2514).

### 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

'57 CHEVROLET, Bel Air, 4-door, P.G. trans., power steering, \$1,700, trade for older car, Bragg, 216 Vineyard Rd. NW, Ext. 29165.  
SOFA BED, dusty rose, \$25. Hackard, AL 6-4312.  
POWER TOOLS, drill press, combination disk and belt sander, 18" jig saw, 9" bench saw, 4" planer, Calvery, AX 9-1804.  
PORTABLE TYPEWRITER, Royal, w/case. Reinertsen, AL 5-1954.  
'56 CUSHMAN motor scooter w/5 h.p. Husky engine, \$150. Bothell, AX 9-0031.  
FIREPLACE WOOD, dry, \$17 per ton delivered. Johnson, DI 4-5641.  
LIONEL TRAIN, two-unit diesel, 6 freight cars, two remote switches, large transformer, uncoupler, plenty of track, \$50. Ogden, AL 6-7106.  
'58 HOUSE TRAILER, 44' by 10' wide, Artcraft, 2 bedroom, will trade \$3600 equity for 2 or 3 bedroom home in NE heights. Shaw, AM 8-2648.  
SHOPSMITH (for Christmas?). Benson, AX 9-3315.  
26" BICYCLE, girl's, Higgins English racer, Kelley, AL 6-4982.  
DELCO MOTOR, 1/2 h.p., 5 amps, 1725 rpm, 1/2" shaft, 1 1/4" long, \$12.50; 22 Volt automatic, 11 shot Woodsman, \$30. Mahoney, AX 9-6241.  
COT with innerspring mattress, \$10; typewriter table, \$4; Smith, AL 5-7389.  
GAS RANGE, 36", 3 1/2 years old, \$50; ladies ice skates, size 6 1/2, \$5. Connolly, AX 9-1517.  
FRIGIDAIRE MANGLE, 30-inch roll, used very little, \$75. Harnar, AX 9-3400.  
20" BICYCLE, girl's deluxe model, J. C. Higgins, \$20. Smith, AM 8-1349.  
LIONEL TRAIN, complete w/transformer, many extra remote operating features, lots of track, originally \$120, now \$50. Frame, AL 6-7229.  
'54 CHEVROLET, 4-door sedan, light blue, plastic seat covers, R&H, \$750. Gatlin, AL 5-5391.  
GAS RANGE, Kenmore 30", 8 months old, \$110. Brandalise, AM 8-0663.  
'57 PLYMOUTH Sport Suburban V-8, has everything, trade-in considered. McDonald, AL 6-6929.  
ELECTRIC ORGAN, Conn, \$1395; GE up-right freezer, 15 cu. ft., \$260. Wank, AX 9-5671.  
HAM TRANSMITTERS: 60 w. AM phone, commercial built, complete, \$55; all band AM Mobile rig, \$35. Scussel, AM 8-1583.  
'53 PACKARD Sportster, recent complete overhaul, custom interior, Delco radio, new windshield, battery, original owner. Zipprich, AX 9-2173.  
WRIST WATCH, man's Bulova. Norvell, AM 8-1536.  
HOLLYWOOD BED, mattress, springs and frame, \$15; dinner ware, service for four, Franciscan Malay Rose pattern, green, \$10. Allen, AL 6-4337.

CAMP TRAILER, tear drop, fully equipped w/3/4 bed, Coleman 2-burner gas stove, ice box, 10 gal. water tank, will sacrifice, \$175. MacKenzie, AX 9-3055.  
'58 MOTORCYCLE, Harley-Davidson No. 165, w/crash bar and windshield, \$350. Padilla, CH 2-4984.  
LIONEL TRAIN, accessories; pellet gun; Crosley sports car w/spare engine. Laskar, AX 9-1024.  
IRONRITE MANGLE No. 85 w/chair, used two years, \$250; two double breads, Cabincraft, pink chenille, Bates, blue, each \$4. Costello, AL 6-9702.  
FUEL GAUGE for 1955 Plymouth, new, \$3. West, AX 9-1878.  
'58 FORD Fairlane 500, 4 door town sedan, many accessories, 12,000 miles. Morehouse, AX 9-0028.  
COUCH & CHAIR, \$30; peddle car, large, \$14; trike, \$2; 5 piece dinette set, \$35; mattress, standard, \$8. Rudeau, AL 6-2380.  
LIONEL TRAIN set, one third original cost, \$30. Kleindienst, AL 6-1859.  
MOBILE TRANSMITTER, 10 watt, 10 meter, Gonset 10/11 converter, 6 v. Magmotor, microphone, \$55; Simmons studio couch, trundle-type, \$35. Bauer, AL 5-7774.  
26" BICYCLES, two girls, \$20 each or trade for girls 20 and 24 inch. McMullen, CH 3-9825.  
PINK SHOES, embroidered, size 8 quad, never used, \$10. Crockett, AL 5-1704.  
'53 OLDS 98 hydramatic, all power, R&H, air conditioned. Dickerson, AX 9-6083, 9710 Woodland NE.  
PORTABLE WASHER, Handy Hot, 5 gallons, \$20; women's coat, green, fur collar and sleeves, size 16. Johnson, AX 9-1893.  
TWO 26" BICYCLES, girl and boy, 3-speed w/baskets and thorn proof tubes, \$25 each. Clyde, AL 5-6805, 3128 Summit Pl. NE.  
ENGLISH BICYCLE, Reliance, w/headlight and generator, \$30; Thayer baby carriage, \$15. Wylder, AX 9-5297, 9225 Shoshone Rd. NE.  
'55 CHEVROLET station wagon, 210, 4 door, R&H and auto-transmission, blue and white, original owner, \$1150. Cleveland, Ext. 45269, 3353 48th Loop, Sandia Base.  
CHAIR-ROCKER, contour, overstuffed, \$25. Vivian, AX 9-1785.  
WINDOW FRAMES, wood, 3 standard size, double sashes, \$15 for all; automatic washer, Bendix, large size w/internal water heater, \$35. Kane, AM 8-0174.  
GAS REFRIGERATOR, 12 cu. ft. Servel, new gasket. Houghton, AX 9-3386.  
GAS RANGE, four burners, large oven and warming closet. Cannon, AX 9-4592.  
WA-P2 PREAMPLIFIER, in operating condition, complete w/instruction manual, new, \$24. Reed, AL 5-8094.  
26" BOY'S BICYCLE, white wall tires, directional signal lights, horn. Ronald, AL 6-4177.  
HI-FI COMBINATION, Emerson three (3) speed, new diamond needle, blond finish table model, matching table included, \$60. Welch, AL 5-4876.  
ALTO SAXAPHONE, Selmer, gold plated, sacrifice for best offer. Hunter, CH 2-5971.  
PORTABLE TYPEWRITER, Smith-Corona, sterling model w/carrying case, \$65 or best offer. Beaudet, AX 9-0849, 9908 Woodland NE.  
3 BRM. HOME, den w/fireplace, 1 1/4 baths, carpeting, air conditioner, patio, walled yard, landscaped, \$900 down. Scott, 1825 Blume NE, AX 9-4126.  
TROMBONE w/case, cost \$143, used four months, sell for \$80 or best offer, a nice Christmas present. Brown, AX 9-1689.  
24" GIRL'S BICYCLE, w/basket, \$18. Sherwood, AX 9-2169, 2326 Hoffman Dr. NE.

### NEXT DEADLINE FOR SHOPPING CENTER ADS Thursday Noon, Dec. 18

8" TABLE SAW, \$47; 10" band saw, \$47; 13" jig saw, \$20, wood lathe, stands, motors, misc. tools, 5 h.p. gas engine. Pliner, AL 6-1907, 6210 Bellamah NE.  
35-LB. BOW, five arrows, finger guard, wrist guard, \$10. Minter, AL 6-9225.  
DACHSHUND PUPPIES, male, AKC registered, Champion sire, ready Dec. 7 or hold for Christmas. Broch, AX 9-3954.  
STEEL WINDOW, 3312, white sink w/faucets, inside wood door. Overbury, AL 5-7788.  
TARGET RIFLE, Remington, Model 37, 15x, supertarget spot rifle scope, 10x; coat and glove, size 42; various accessory equipment, best offer, all or part. Kross, AL 6-0223.  
'55 STUDEBAKER sport coupe, R&H, O.D., power pack, high ratio rear end, WW tires, clean, \$1,150. Longfellow, AL 6-4326 offer 5, 4612 Haines NE.  
TWIN STROLLER, \$20; Teeter-Babe, \$3. Salazar, AX 9-2185.  
'57 NORGE, wringer-type washer w/pump, \$70. Foley, AX 9-6852.  
INEZ BRICK, 3 bedroom, 1 1/4 baths, huge den, utility, dining room, carpeting, stove, refrigerator. Strome, AX 9-3389, 2039 Utah NE.  
ICE SKATES, boy's Canadian Flyer, size 3, guards included, \$7.50. Roper, DI 4-1911.  
PHILCO MOD. 45-1974-TR-12 Antenna Rotor, 20 lb. capacity, good for small 10 or 6 meter amateur application, best offer. Kokkes, AL 6-2915 offer 5:30.  
IMPORTED BICYCLE, lightweight, 3-speed, \$40, beginners trumpet, \$70. Gallegos, 1409 Guymas Pl. NE, AX 9-7270.  
GAS RANGE, Welbilt, 4-burners, divided cooking top, \$25. Kaver, AX 9-1793.  
HORSE TRAILER, Morales, DI 4-6816.  
GASOLINE MOTOR, Briggs and Stratton, 2 1/2 hp, \$25; Ambassador trumpet, \$100. Salazar, AL 5-1301.  
24" GIRL'S BICYCLE, \$15; 24" boy's bike, \$15; refrigerator, \$75; crib, \$12. Pope, 816 Val Verde Dr. SE, AL 5-6702.  
ELECTRIC SHAVER, Ronson, w/cord and leather case, 1 year old, but works good, \$5 or best offer. Roller, AX 9-4661, 9620 Aspen NE.  
24" BICYCLE, Schwinn, English racer type, 3-speed gears, front and rear hand brakes, \$25. Hutton, AM 8-8366.  
'55 CHEVROLET, 4 door, 150 series, standard transmission, 6 cyl., \$645. Pennypacker, AX 9-1547.  
STANDARD TYPEWRITER, L. C. Smith, \$25. Warn, AL 6-6446.  
'56 CHEVROLET, V-8, R&H, straight stick, \$1,250. Hay, CH 2-8663.  
VM 562, 4-speed, twin speaker, hi-fi record player w/tuner jack; Knight 30 watt amplifier and pre-amp, 15 inch Karson w/tweeter and crossover. Botsford, CH 2-0257.  
MAYTAG WASHER, wringer-type, square tub, deluxe model w/pump, \$50; Credenza, mahogany, 3 large drawers, desk compartment, glass top, \$95. Ogden, CH 3-4723.  
UTILITY TRAILER, small, entirely enclosed. Adam, AL 6-7567, 9500 Aspen NE.  
GOLF CLUBS, Wilson K-28, complete matched set, bag, cart, \$90; Patty Berg complete matched set, used once, bag, cart, \$100. Zanetti, AX 9-7582.  
ENCYCLOPEDIA, Funk and Wagnalls, \$30. Biesterveld, AL 6-7983.

'53 DODGE V-8, 4-door sedan, Gyrodive, R&H, defroster, TS, WS Washer; \$400 or best offer. Meissen, 232 Utah NE.  
'50 CHEVROLET, 4-door sedan, R&H, white wall tires, rebuilt engine, new paint. Boyd, AX 9-6230.  
DEEP FRYER, General Mills, almost new, \$10. Boling, AX 9-1346, 1025 Lester NE.  
8mm CAMERA, Kodak, 1.9 lens, case, light meter, \$35; Argus C3 35mm camera, flash attachment, case, \$40; want old guns. Zaluga, DI 4-1564.  
ELECTRIC RANGE, Norge, timer, light appliance outlets; traverse rods, child's racing car, concrete tub, double compartment sink, misc. Richter, AX 9-0409.  
BUTANE LANTERN, Coleman, single mantle, (new), \$7. Hobart, AX 9-2698.  
TIRE CHAINS, \$4; ski boots, size 7, \$3; 15 qt. RPM 10-30 oil, 30 cents quart; Argus slide projector, case, 100 w, \$15. Sherwin, AL 5-8866.  
HEARING AID, Beltone, 4 transistor unit, never used. Newman, AL 6-3295.  
REFRIGERATOR, 7 cu. ft., \$60; phono cartridge, Shure ML-44 w/sapphire needles, \$2; blond grid cloth, make offer. Anderson, AX 9-4616, 1612 Wisconsin NE.  
SWIVEL ARM CHAIR, beige fiber glass shell body and bronze legs, \$12.50. Janney, AM 8-8074.  
POODLE PUPS, Miniature, AKC registered, wonderful Christmas gift, 8 weeks old, w/papers. Wilson, Ext. 42242.  
BINOCULARS, Lens 7x50, featherweight; new mattress, full size; vertical blinds, 2 sets of 3 each. Montoya, AL 6-5434.  
LIVING ROOM SET, Kroehler, grey background, \$65. Martin, AL 5-4440 offer 5:30, 5016 Roma NE.  
MANGLE "IRON-RITE," \$150; skis, never used, \$20. Hawk, AL 6-6264, 1821 Florida NE.  
AXLE AND WHEELS and new 4-20 x 14 tires, ideal for boat trailer or utility. Renfro, AL 5-9554.  
21" TV, Magnavox console, guarantee on picture tube, \$125; violin w/case, bow and extra strings, \$25. Huddle, AX 9-6603.  
BRITISH .303 Jungle Carbine, looks and handles like a Sporter, \$27.50. Donaldson, Ext. 45240 between 12 noon and 1 p.m. only.  
PORTABLE TYPEWRITER, Royal, w/carrying case, \$50. Bytheway, 1837 Gretta NE, AX 9-2791.  
STUDIO COUCH, innerspring, bolster pillows, maple dropleaf table, six chairs, hutch cabinet; chrome table w/four chairs. Miller, AM 8-1939.  
ELECTRIC STOVE, '56 Hot Point, push button 39", \$150. 4-piece walnut bedroom set, \$125; Spanish guitar, Martin, \$100. Burbidge, AL 6-7239.  
AUTOMATIC WASHER, '55 Norge, \$60. Sedgewick, AM 8-0820, 3224 California NE.  
LAUNDRY TUBS, double basin vitreous China, w/stand and swing spout faucet, \$50; 1/4 hp motor w/cord and rubber mounts, \$9. Muculeski, AL 6-7609.  
'58 FORD Country Sedan, make offer. Colp, AM 8-8035.  
'58 HOUSE TRAILER, 33 ft. Capri, one bedroom, will trade \$1,400 equity for NE home or sell trailer outright for \$400. Byrne, DI 4-3834.  
BREAKFAST SET, 7 piece, new: boy's bike; love seat, boudoir chair, vacuum, white desk and chair, curtain stretcher, others. Boeck, AM 8-3203.  
DOUBLE BED, Ranch oak, box spring mattress, bookcase headboard, \$35; two matching modern upholstered chairs, \$15 each. Horner, AL 6-9316.  
ELECTRIC TRAINS, Lionel, one steam w/whistle, one diesel, board mounted remote control switches, two transformers, other accessories, \$35. Verardo, 1012 Dakota SE.

### LIVERMORE FOR SALE

GAS RANGE, O'Keefe and Merritt, 6 months old. Clem, HI 7-4044.  
'56 VOLVO, 2-door, black sedan, will consider older car in trade. Byrne, HI 7-3606.  
GAS REFRIGERATOR, Servel, 8 cu. ft., \$50. Morgan, HI 7-2168 after 5 p.m.  
HI-FI EQUIPMENT: Knight AM-FM tuner, Heathkit W4MP amplifier (20 watt); SP12B Speaker in Carlson enclosure; RC80 changer w/GE RP 51 cartridge; PA, single chassis, 20 watts; T10 Revere tape recorder, 7 1/2 i.p.s., 7 inch reels. Iverson, HI 7-2487 after 5 p.m.  
**WANTED**  
HOMES FOR KITTENS. Free, most colors and sizes, one or a dozen. Davis, CH 3-2060.  
HOMES FOR KITTENS. Free for Christmas. Just the right size for your stocking, will deliver Christmas Eve. Tatum, CH 2-9021.  
KILN for home ceramic hobby. Wimborough, Ext. 41255.  
BAGPIPE PLAYERS to form band, will offer free tutoring to those interested in learning the instrument. Orr, AM 8-4053 offer 5.  
MARK 5 Model Shopsmith, with or without accessories, will pay reasonable cash. Hoagland, AX 9-7097.  
WOMEN'S GOLF CLUBS. Hartman, AL 6-0532.  
RIDERS TO Indianapolis or vicinity. Leave Dec. 19, return Jan. 2. Via U.S. 66 to St. Louis, U.S. 40 to Indianapolis. Baker, Ext. 21147.  
ENCYCLOPEDIA SET, late edition; exerciser, Topper, Stauffer or Silhouette, gun, good used 32 or 38 automatic pistol or revolver. Welker, Ext. 31248.  
WISH TO CONTACT energetic and imaginative engineer, mechanic or tinkerer for developing three unusual toys (have working models). Abrams, DI 4-8252.  
20" GIRL'S BIKE, prefer convertible to boy's with trainer wheels. Foster, AX 9-6240.  
8" TABLE SAW and cement mixer, reasonable price. Downs, AX 9-5022.  
PERSON TO SHARE driving to Florida, free ride, leave anytime after Dec. 1. Buss, AL 5-3702.  
PAY CASH for German or Nazi guns and daggers, also old knives of any kind or condition. Smith, AX 9-1096.  
CRAFTSMAN 8" SAW w/3/4 hp motor, in good condition at reasonable price. Richardson, DI 4-4324 after 5:30.  
USED BAND SAW and bench or floor model drill press and motors. Hansen, AL 6-1216.  
**LOST AND FOUND**  
LOST—Tan snap ring holder w/keys; 8; 10 keys on a ring found in 839; single key, car keys and knife on chain; car keys on string; 6 strand white pearls, rhinestone dangle earring, Boy Scout tie chain, tobacco pouch w/double zipper, Amson gold tie clasp, brief case lost two months ago. LOST AND FOUND, Ext. 26149.  
FOUND—Silver dangle earring, red plastic billfold w/ID of Donna Jarman; fine line ballpoint pen; envelope w/check for \$100 and 2 \$1 bills; 3 keys on ring, green prescription sunglasses in case; tan string knit glove, stone cast silver earring, several pairs of glasses still in lost and found that were turned in 3 to 6 months ago. LOST AND FOUND, Ext. 26149.  
LOST: Suit coat, east side of Bdg. 892, \$10 reward. Olson, AX 9-1886.  
WILL THE PARTY that picked up the wrong black, full-length coat at the 2460 organization party, Nov. 22, please contact me. I do have your coat and will be happy to return it. Atkisson, Ext. 48292.

# Employees Pledge, Give \$113,421 In Contribution Plan Drive

Final tabulation of the recent Sandia Corporation Employees Contribution Plan fund drive was announced this week. Figures show that 5,883 Corporation employees contributed to the drive and gave an average of \$19.28. Of the 6,534 employees contacted during the campaign, 90 per

cent contributed either by pledging payroll deductions or by giving cash.

**More Coming**  
There remain about 200 Sandia employees who are yet to be contacted for their pledges. These employees were on vacation, ill or away from work for some other reason at the time of the drive. They will be contacted by solicitors at an early date.

Grand total of the drive is \$121,749.44. This includes \$113,421.94 contributed by Sandia employees, Sandia Corporation's gift of \$7,500 to the United Fund and the contributions of Anderson-Dunham, Coronado Club concessionaire, of \$325, Coronado Club, \$300, and Credit Union employees, \$150.

Further breakdown of the figures shows that 4,811 employees became members of the SCECP by giving \$12 or more. The payroll deduction feature of the plan spreads the contribution evenly over a 12 month period.

Allocation of funds from the

SCECP to Albuquerque United Fund and other participating health and welfare agencies is by percentage allocation based on the past fund raising record of the agencies in the community.

Percentage allocation and the amount going to each agency (including special gifts) are as follows:

United Fund	75%	\$93,503
Arthritis and Rheumatism	1.3	1,465
Cerebral Palsy	3.2	3,607
Cancer Society	7.6	8,598
Crippled Children	4.1	4,620
Heart Association	4.5	5,059
Muscular Dystrophy	1.3	1,480
Multiple Sclerosis	1.0	1,122
Retarded Children	1.0	1,160
Reserve Fund	1.0	1,134

## Welcome Newcomers

Nov. 24-Dec. 5

Albuquerque	Nov. 24-Dec. 5
Lynn S. Basham	2544
David H. Blaser	2551
Ruth M. Cowham	7225
Ruth A. Cushman	2463
Donna J. Ferrin	2731
Marjorie G. Grant	3153
Mary Jane Haygood	7314
Harold E. Hunt	2413
Billy Z. Jones	2461
Margaretta W. Kinman	7225
Betty J. Lagermann	7225
Walter E. McAbel	2721
M. Joyce Miller	7225
Walter F. Scott	7242
Joyce A. Simpson	7225
Felix V. Tesner	2154
Edito O. Trujillo	2474
*Emelia G. Vigil	2418
Marjorie G. Walter	7314
Ronda Y. Whitwell	4142
<b>California</b>	
Earl W. Mosby, Martinez	8223-1
Joyce E. Henekener, Hayward	8212-3
Donna M. Short, San Francisco	8212-3
Elizabeth J. Marcellin, Livermore	8212-3
Colleen Y. Ackerman, Irvington	8212-4
Dorothy M. Barker, Hayward	8212-2
Lloyd Rothacker, San Leandro	8222-1
Oran E. Parrish, San Lorenzo	8223-1
James M. Austin, Livermore	8222-1
Elizabeth A. Reece, Livermore	8212-3
Lynn E. Wheeler, Napa	8232-1
*John N. Tucker, Livermore	8233-1
John C. Lucas, Livermore	8114-1
Shirley M. Borch, Hayward	8212-3
Janet E. Var, San Leandro	8161-3
Harold C. Malmquist, Pleasanton	8222-1
James A. Mount, Pleasanton	8232-2
Lee E. Klaus, Livermore	8115-1
Wanda Y. Shult, Livermore	8213-2
Don S. Corder, Livermore	8224-3
Margaret A. Zumwalt, Livermore	8233-1
Paul S. Knechtli, Sacramento	8223-1
<b>Georgia</b>	
*Irvin N. Madden, Atlanta	5257
<b>Illinois</b>	
Donald A. Greenwoll, Chicago	5221
<b>Michigan</b>	
Donald M. Johnson, Midland	8115-1
<b>Missouri</b>	
Hugh F. Lewis, Kansas City	2721
James E. Allred, O'Fallon	2463
<b>New Mexico</b>	
Jack Carnoham, Artesia	2411
<b>Ohio</b>	
Charles F. Wagner, Toledo	2154
<b>Pennsylvania</b>	
Albert J. Chabai, Bethlehem	5112
* Denotes rehired	
<b>Returned from Leave</b>	
Robert P. Baker, Laramie, Wyo.	1542
Howard K. Dicken, Cedar Rapids, Iowa	5223
Norma M. Green	2471

## City Manager to Look at Future in AIEE Talk

Edmund L. Engel, Albuquerque City Manager, will address a dinner meeting of the Albuquerque Area Chapter of the American Institute of Industrial Engineers Monday, Dec. 15.

"A Glimpse Into the Future (Although It May Be Cloudy)" is Mr. Engel's subject.

The meeting will begin at 6 p.m. at the Sandia Base Officers Club, according to Homer McIlroy (2511), publicity chairman. Wives are invited.

Mr. Engel received his BS degree in engineering from the U.S. Naval Academy and did graduate work in public administration at the University of California.

From 1946 to 1950 he held various city planning positions with the Long Beach and Los Angeles City Planning Departments. In March 1950, he became Albuquerque's City Planning Director for the City Planning Commission. In January 1952, he was appointed to his present position of City Manager for Albuquerque.

## W. J. Howard on Advisory Board of Bank in Livermore

W. J. Howard (8100) has accepted an appointment to the advisory board for the Bank of America's Livermore Branch, bank officials announced last week.

The announcement said in part: "We are very pleased to welcome to our board . . . Mr. Howard, a comparative newcomer who has entered wholeheartedly into community activities."

The seven-man board advises bank officers on matters of economic and community interest.

## Artist George Marks Creator of Sandia Lab News Christmas Cover

The Christmas cover appearing on this issue of the Sandia Lab News was created by George Marks, technical illustrator in Division 2463.

George, a native Iowan, came to the Southwest five years ago to work at Sandia and paint horses. His oils of western scenes have twice been awarded first place at Coronado Club art shows.

In the Lab News cover George expresses his feeling for the historic spiritual values that moti-

vated early residents of New Mexico.

George studied art at the University of Iowa and graduated in 1950. He attended another year as a graduate student before coming to Sandia.

He was in the Marine Corps three years during World War II.

An emergency called George out of town just as the drawing was nearing completion. Leo Ortiz, also a technical illustrator, completed the finishing touches.

## Modern Steam Plant Replaces Temporary Facilities at Livermore

Two World War II steam "Jennies" were honorably retired recently at Sandia's Livermore Laboratory. They gave way to a new high pressure steam plant and underground distribution system.

The two old boilers which produced at top capacity about 600 lbs. of low pressure steam per hour were replaced by a new plant which produces 20,000 lbs. of steam per hour and heats the entire Laboratory. In the summer the new steam plant powers refrigeration equipment.



STARTING the new steam plant at Sandia's Livermore Laboratory are (L to R) Domenico Tavone (8222-1), fireman; Audie Cowan (8222-1), operator, and Jim Smith (8221-1), consultant.



FESTIVAL OF LIGHTS is observed at home of Max Weber (5121) with son Lewis, 13, and daughter Paula, 5, lighting the last of eight candles denoting the Jewish fight for tolerance and freedom.

## Chanukah - Festival of Lights - Is Winter Holiday for Jewish Faith

Sundown this Sunday will mark the end of the eight-day winter holiday of people of the Jewish faith. The holiday is called Chanukah (a Hebrew word meaning dedication), or Festival of Lights.

Originating about 165 B.C., Chanukah marks the victory of the ancient Judeans over the huge Grecian army which sought to impose idolatry upon them. The triumph, as related in the Books of the Maccabees, came after years of struggle between the forces of Judah Maccabee and those of the Greek emperor, Antiochus Epiphanes.

The holiday itself is based on an ancient legend. When the Jewish army recaptured Jerusalem, it was found that the Holy Temple which was dedicated to the Lord had been desecrated by the enemy. When the High Priest arrived, he set about restoring the Temple. He found amidst the rubble that there was but enough undefiled oil to maintain the rekindled Eternal Light for a single day.

This was a considerable disappointment, for the Eternal Light symbolized the light of the Lord in all his wisdom. Furthermore, it took fully eight days to prepare new holy oil.

Nevertheless, the remaining oil was poured into the lamp and the preparation of more oil was begun. At this point, the legend tells us, a miracle occurred. The single cruse of oil burned for eight days and eight nights until the new oil was prepared, and the people gave thanks. It is for this reason that the holiday is celebrated for eight days.

Like all Jewish holidays, Chanukah is hailed both in the home and in the synagogue. The temple devotions include a special Chanukah ritual, traditional holiday melodies (in particular, the thanksgiving hymn, "Maot Tsur," or "Rock of Ages"), and sermons which emphasize the right to worship God as one sees fit.

At Temple Albert, 1006 Lead Avenue, S.E., a special musical service for the Sabbath during Chanukah will be held tonight at

8 p.m. The story of Chanukah will be recited and will include responsive reading by the congregation and the choir. Anyone wishing to attend this service is welcome to do so.

In the home, the Chanukah candelabrum (or Menorah) is lit for eight nights, prayers of thanksgiving to God are recited, and gifts are exchanged and also earmarked for the poor.

The Menorah has holders for nine candles, eight to commemorate the festival, and a ninth, called a "Shammus" or servant light, used to kindle the other lights.

On the first night (which occurred this year on Saturday, December 6), the Shammus and one other candle are lit. On the second night, the Shammus and two other candles are lit, and so on for all eight nights.

The Menorah is placed in a prominent place of public view—preferably a window—to serve as a reminder for everyone of the fight for tolerance and freedom which took place some 2100 years ago.

Since the victory marked a rededication to the ideals of morality, which also two centuries later was to give birth to Christianity, many churchmen have expressed the view that Christians have as much cause to observe Chanukah as do the present-day Jews.



Sandia Corporation Has Worked  
58 DAYS  
Without a Disabling Injury

## HERE'S WHY...

Sandia Corporation employees believe in others. They demonstrate genuine interest and expend their energy to prevent the needless suffering that injuries bring. They employ safety because it works.