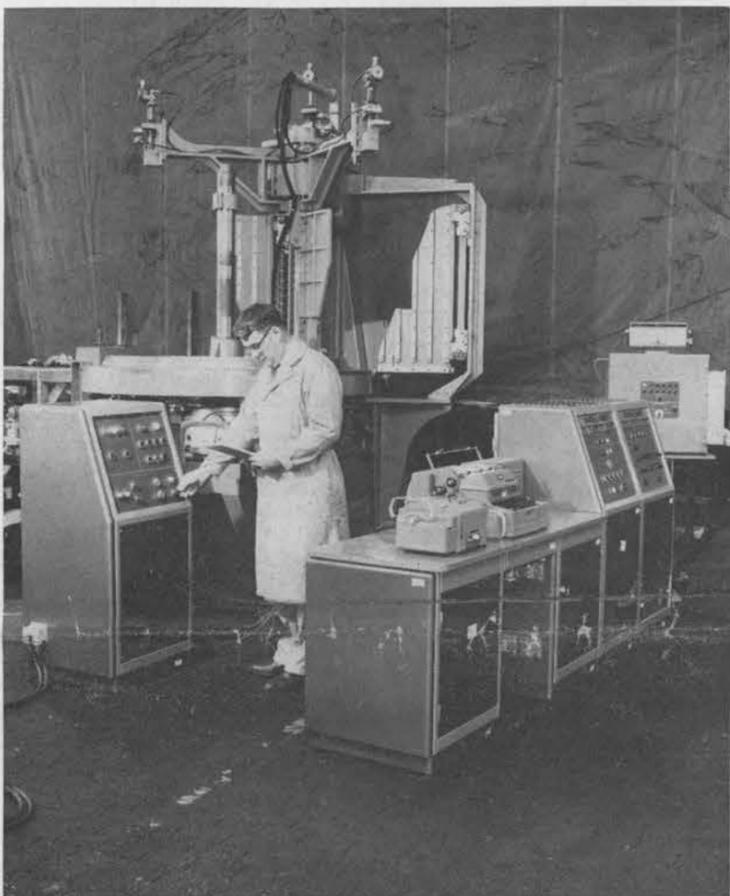




CONGRESSMAN C. M. PRICE of Illinois, a member of the Joint Committee for Atomic Energy, visited Sandia Laboratory last week. Shown above with Sandia Corporation President J. P. Molnar (left) and K. F. Hertford, manager, AEC Albuquerque Operations Office (right), the congressman was accompanied by Brig. Gen. I. L. Branch, assistant deputy chief of staff, Development, Nuclear Systems, USAF.



UNIVERSAL CONTOUR MEASURING MACHINE will be one of the major pieces of equipment to be installed in a new environmentally-controlled gaging and inspection enclosure at Livermore Laboratory. Photo shows the machine at manufacturer's plant.

628 Employees Join Health Care Program, Enrollment Period Open Two More Days

As the end of the special enrollment period for Sandia's Health Care Plan nears, some 628 employees have joined the plan. This brings total enrollment in the plan to 6047.

At the beginning of the drive conducted by Benefits and Services Division 3122, some 2500 employees were eligible to join the Health Care Plan. These were the employees who were still enrolled

under the old Hospital-Surgical Plan and employees with no coverage at all.

Now 76.7 per cent of all employees are enrolled in the Health Care Plan with still two days left in the drive. The enrollment period will close at the end of the day Monday, Nov. 30.

There is still time for employees desiring the Health Care Plan coverage, which pays 80 per cent of medical expenses within the lim-

its of the plan, to enroll. All that is required is for the employee to contact his division supervisor and complete the necessary form. Supervisors can give details of the plan or further counselling is provided by Services and Benefits Division personnel, ext. 52136.

As a verification that all employees have been given an opportunity to enroll, those electing not to join at this time will be asked to sign a waiver card.



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NOVEMBER 27, 1959

Program for Tech Development Begins July for New Engineers

As universities and colleges throughout the nation graduate young electrical and mechanical engineers next June, some 80 of the top men will join Sandia Corporation.

Even though they will have completed a four-year course of study to earn their bachelor's degrees, the new engineers will participate in a concentrated two-year course of graduate study as part of Sandia's newly adopted Technical Development Program. The program begins at Sandia in July 1960.

All new EE and ME engineers with bachelor's degrees will be required to participate in the program at Sandia Laboratory. Under the program the new technical staff members will divide their time between classes at the University of New Mexico and engineering assignments at Sandia.

Livermore Laboratory will not participate in the present program. However, a committee at Liver-

more is working to establish a program to go into effect in 1961.

Primary objective of Sandia's Technical Development Program is to insure that new members of the technical staff acquire a sufficient background of knowledge in modern analytical methods and basic scientific concepts necessary to accomplish the technical mission of Sandia Corporation.

"Four years in the average engineering school or college is simply not enough background for doing the level of work in which I see Sandia Corporation engaged in the future," J. P. Molnar, Sandia Corporation president, said. "I foresee an era of challenging and fascinating activity that will require making use of all our technical talents and skills and then some. I can foresee a future in which all new additions to our staff member category will have background training equivalent either to a doctor's degree or to that of our Technical Development Program at the University, the latter being at a level beyond most master's programs.

"With such a staff," Mr. Molnar continued, "Sandia will have the potential to become a really great laboratory—one that cannot only do its assigned jobs well, reliably and on time, but one that will do much tougher jobs and itself originate new ideas that become programs for the future."

A pilot group for the Technical Development Program was started last June with 20 new engineers with bachelor's degrees participating. During the past months procedures have been developed, content of present courses discussed and new graduate courses planned by the University in physics, mathematics, and engineering for the program.

The Technical Development Program contains curriculum for both electrical and mechanical engineering. In both study programs heavy emphasis is placed on graduate level mathematics, statistics and modern nuclear physics as well as advanced work in electrical and mechanical engineering.

A total of 36 credits will be required for completion of the program in either engineering curriculum. Participants will enroll for nine credit hours each semester for four semesters.

Since about 80 per cent of Sandia's new hires have degrees in the electrical and mechanical engineering fields, the Technical Development Program was designed primarily for the needs of this group. However, the program is

flexible to the extent that graduates with bachelor's degrees in engineering physics, engineering science, engineering mechanics and aeronautical engineering may be included. Physics graduates, in some cases, may qualify for the electrical engineering portion.

In other specialized technical fields, new hires will be employed only at the master's degree level.

The Technical Development Program is administered by Personnel Research, Training and Education Department 3130. It was developed by a committee headed by G. A. Fowler, vice president, research 5000. Members of the committee are J. W. Jones (1220), C. F. Bild (1620), G. J. Hildebrandt (1330), R. S. Claassen (5150) and J. C. Eckhart (5250).

Cooperating closely with Sandia's Technical Development Committee is a similar group at the University of New Mexico. UNM members include Dr. E. F. Castetter, academic vice president of the university; Dr. H. O. Ried, director of extension, summer session and community services; Dr. R. K. Moore, chairman of electrical engineering department; Professor C. T. Grace, chairman of mechanical engineering department; Dr. M. S. Hendrickson, chairman of department of mathematics, and Dr. C. P. Leavitt, acting chairman of the department of physics.

Three Talks Set For Research Meetings In Next Two Weeks

Two Development Seminars and a Research Colloquium will be held at Sandia in the coming two weeks.

The first seminar will be a discussion on materials by Dr. Paul F. Bruins, Brooklyn Polytechnic Institute. He will speak on "New Developments in Plastics" at 1:30 on Dec. 3.

"Future Directions for Micro-Miniaturized Components" will be presented by Iben Browning (5131) at an electronics development seminar on Dec. 10 at 9 a.m.

Tickets are not required for either of the meetings which will be held in Bldg. 815.

Jack Reed (5111) will speak on "Atmospheric Signals from Explosions and Their Interpretation" at a Research Colloquium on Dec. 9. Tickets are required for this meeting which will begin at 9:30 a.m. in Bldg. 815.

For further information contact Craig C. Hudson (5113), ext. 32267.

Work Underway on Livermore Gaging and Inspection Facility

Work has begun at Livermore Laboratory on the construction of a controlled environment gaging and inspection enclosure in Bldg. 913 to house a new metrology laboratory, precision milling machine, and a universal contour measuring machine.

The equipment will be used to certify working standards in the Livermore Laboratory model shop and to standardize large dimensional measurements and inspection techniques among weapon production agencies.

Cost of the chamber is \$97,000. It is being built by the Scott Company of Oakland to specifications established by the Plant Engineering Division (8221). Cost of the equipment in the building will be approximately \$500,000.

Controlled Environment

To assure the accuracy of the precision equipment in the enclosure, the temperature and humidity in the room will be closely controlled. Relative humidity will be maintained at 45 per cent and the temperature will be kept at 68°F., plus or minus two tenths of a degree. An air conditioning system will change the air in the room every four minutes.

Only a few rooms of this design

are in use in the U. S., according to Ken Finders, supervisor of the Plant Engineering Design Section (8221-2). Several are in use at Sandia Laboratory.

When completed early next year the chamber will be used by the Model Shop and Inspection Division (8223) and the Product Evaluation Division (8116).

The Model Shop organization, headed by J. F. Bryson (8223), will operate the milling machine and the universal contour measuring machine. It will be used to manufacture templates for the fabrication of ballistics shapes.

Contour Measuring

The universal contour measuring machine will check manufactured weapon parts against templates fabricated by the milling machine. It will measure inside diameter, outside diameter, and thickness of any cylindrical or conical shape. Electronic gage heads on the machine will be capable of measuring manufactured parts to an accuracy of 50 millionths of an inch.

Results of the measurements will be punched automatically on paper tape for comparison with original specifications. The comparison will be made on a special purpose digit-

al computer which is part of the machine.

C. D. Johnson (8161-1) helped to establish the requirements for the machine.

Additional contour measuring machines will be installed at other AEC agencies to standardize inspection procedures in the production of nuclear weapons. Templates used by these agencies will be calibrated against master gages at Livermore Laboratory.

Metrology Lab

The metrology laboratory will complete the facilities in the enclosure. It will be operated by Section 8116-3, headed by Jack Wilson. Equipment in the laboratory will include a coordinate measuring machine, a Sip universal measuring machine, an optical comparator, a precision coordinate microscope, a precision tiltable rotary table, a large granite surface plate, gage blocks, optical flats and thread gages.

The coordinate measuring machine, now out for bids, will be the only large machine of its kind in the country capable of making two coordinate measurements, Mr. Wilson said. The machine will be used to check the accuracy of templates made on the milling machine.



Jane Smith (3126)

Engagement

Marybelle Arnold (4431-1) has announced her engagement to Jim Fisher (4423). The wedding has



Miss Arnold

been set for Feb. 12 at the First Presbyterian Church.

Marybelle has been with the Corporation five years and Jim has worked here since 1950.

Congratulations

Born to:

Mr. and Mrs. W. A. Benson (5313) a son, Thomas A., on Nov. 7.

Mr. and Mrs. Harold Brumfield (8115-2) a daughter, Patricia Ann, on Nov. 13.

Mr. and Mrs. Ken Byrne (8152-2) a son, Joseph Gilman, on Nov. 13.

Mr. and Mrs. Tom Lane (8116-1) a son, Tom, Jr., on Nov. 15.

Mr. and Mrs. Vernon R. Ivins (8225-2) a son, David Edward, on Nov. 6.

Mr. and Mrs. George Banos (3122-2) a daughter, Patricia Ann, on Nov. 18.

Mr. and Mrs. Chuck Stanton (1432) a daughter, Elizabeth Ruth, on Nov. 13.

Mr. and Mrs. Ray Shroka (4411-6) a daughter, Jeanette Marie, on Nov. 17.

Mr. and Mrs. B. G. Neeld (1311) a son, Curtis Blake, on Nov. 18.

Mr. and Mrs. John Lew (2225-1) a daughter, Karen Lee, on Nov. 12.

Mr. and Mrs. H. C. Rumm (2544) a daughter, Elizabeth Ann, on Nov. 5.

Sympathy

To Adeline Scharping (4325) for the recent death of her brother in Milwaukee.

To Roger Baroody (8121) for the death of his mother in New York City on Nov. 16.

To Joseph Sladky (8121-1) for the death of his mother in Wisconsin on Nov. 8.

To E. M. Bauer (1611) for the death of his father-in-law, C. A. McAlister, on Oct. 28. Mr. McAlister formerly worked in the Sandia Corporation motor pool.

To James A. Sisler (1626) and his wife, Mary Ellen (3150), for the death of his father in Dexter, Mo., Nov. 15.

Underwater Gold Panning Hobby of Livermore Skindiver Don Knudsen

"There's gold in them thar streams," is the clarion call of Don Knudsen (8225-1), a man with a very unusual hobby. Don, an amateur skin diver, spends his week-ends exploring the bottoms of streams in the "Mother Lode" area of the Sierras, some 200 miles from Livermore.

In the past month he and others in his group recovered gold from the rocky river bottoms. His method is somewhat unique. Diving to a likely spot on the bottom, Don places a gold pump, resembling a vacuum cleaner hose, over the area. Gravel sucked up through the hose is immediately separated from the gold underwater.

Where does he find the gold? Well, that's a pretty well-kept secret, but Don hinted that he and his friends spend a lot of time in the Yosemite area. "It's great fun," Don says, "and we're learning a lot about geology."

When not involved in underwater prospecting Don enjoys "catching" fish with underwater movie cameras. Using a specially enclosed 8 mm Kodak F 1.9 camera with a wide angle lens and a 16 mm Bell and Howell camera, Don has captured on film beautiful color movies of underwater scenes off both the California and Mexican coast.

Don uses a sea sled under water to help spot good filming areas. The sled is guided by special control planes and is pulled by a boat on the surface. Don began skin diving in 1951 and took up underwater photography soon after. "I was fascinated by the colors of fish and plants down there and wanted to take pictures," he said. He has shown his movies to many service groups.

Welcome Back

Co-workers of Ramona Rothe (8212-3) welcomed her back to work after an extended illness.

Holiday Dinner Scheduled for Sanado Club

The annual Christmas dinner for Sanado Club members, their families and guests, will be held Dec. 6 from 1-2:30 p.m. at the Coronado Club.

There will be gifts for children under 12 and entertainment by the University of New Mexico a capella choir. General chairman for the event is Mrs. Ken Sutton.

Another Life Saved

Chalk up another victory for mouth-to-mouth resuscitation.

Pat Coonce (5144) and his wife were sitting in their living room the other evening as their sons, ages three and five, prepared for bed. The littlest boy popped into the room and told them to come see what was wrong with Buddy.

Buddy may have hit his head on the bathtub. At any rate he was flat on his stomach in the water and his skin had turned blue.

Pat recalled the first aid film he had seen recently at Sandia Corporation and began mouth-to-mouth resuscitation. When the youngster started to breathe the parents rushed him to the hospital, where he was placed in an oxygen tent.

The following day it was determined Buddy had contracted pneumonia from the experience but he is well on his way to recovery.



EQUIPPED with a "wet suit," Don Knudsen (8225-1) prepares to enter the water off Pacific Grove with his two color cameras. Note plastic "wings" on his Bell & Howell camera (right) to stabilize it in the water.

New Addition

Lloyd Jolly (4221-1) came home from deer hunting to find a new addition to his household: a nine-month-old blonde, blue-eyed bouncing baby boy. Lloyd and his wife, Jeanne (4135), have named the baby Mark Clent.

Sandian Is Soldier of Month

Pfc. James L. Hay (on leave of absence from 4250) was recently named Soldier of the Month for 1st Missile Battalion, 62nd Artillery, at Camp Hanford, Wash.

Get Well Wishes

Wishes for a speedy recovery are sent to George Steinhauer (8115-1) by his co-workers. He is convalescing following surgery.



WINNERS of the Livermore Laboratory employees' first annual table tennis tournament receive trophies from their director, W. J. Howard (8100). Winners E. J. "Jack" Simpson, Jr. (left) and R. C. "Bob" Keller (second from right) are both in Section 8114-1. Runners-up were Sylvester Grisby (right), Section 8121-1, and W. D. "Bill" Reske (8121-2). Besides individual trophies the winners were awarded a departmental perpetual trophy.

Take a Memo, Please

The same kind of accidents that happen on the job—falls on slippery floors, off ladders, down stairs, electric shock, injuries from tools—can happen at home. Take your safety rules home with you.

Moving Time

John Hertweck and family are well settled in their new home at 1616 Parsifal NE.

Thanksgiving dinner in their new home at 10512 Carol Pl. NE was enjoyed by Jeanne Cummings (3431-1) and her husband.

Mr. and Mrs. R. R. Petrini (4232-3) are proud new home owners at 913 Lomas Court NE.

At Livermore, Carl F. Lundbom (8116-3) and his family have moved into their new home at 4263 East Ave. There's also a new address for Lyle Hake (8123-2) and his family — 736 Adams Ave.

Walter Selig (8115-2) and his family have moved to their new home in Walnut Creek at 130 Village Court.

Another Livermore new home owner is A. J. Derby (8211-1) and his family, settled at 804 Jefferson St.

Mr. and Mrs. G. E. Boettcher (1431) are happy to be in their new home at 6205 Ponderosa NE.

Recently settled in their new home at 8308 New Hampshire NE are John Sundberg (5313) and family.



TEENAGE DAUGHTERS of Sandia Corporation employees will assist as junior hostesses for the Sanado Club family Christmas dinner at the Coronado Club Dec. 6. The girls, their respective fathers in parenthesis, are (standing l to r) Winnie DeVore (R. W. DeVore 2710), Vickie Buss (E. E. Buss 2732), Mary Komen (P. J. Komen Jr. 1413), Barbara Callies (P. W. Callies 2551), Carol Roth (G. H. Roth

5520), Karon Spence (R. C. Spence 5223), Susan Sherwin (T. B. Sherwin 3431), Karen Fesler (J. E. Fesler 4152); (seated l to r) Cindy Baylor (J. E. Baylor 3211), Cherie Anderson (L. G. Anderson 2531), Carla Vandt (Q. L. Vandt 4361), Lorelei Crompton (J. Crompton 2543). Missing from the picture, Eleanor Louise Funk (W. G. Funk 3120). The Christmas dinner is a popular annual affair.



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Military Liaison Committee Members Visit Sandia Lab

Members of the Military Liaison Committee, committee staff members and Armed Forces representatives met at Sandia Laboratory last week for special weapons technical briefings.

Among the visitors were H. B. Loper, chairman of the committee and assistant for atomic energy to the Secretary of Defense; RADM E. N. Parker, Chief of the Defense Atomic Support Agency; Brig. Gen. Paul Preuss, deputy director of Air Force Research and Development, and former deputy commander of Armed Forces Special Weapons Project (now DASA) at Sandia Base; and J. T. Snodgrass, member of the committee representing Army Operations.

The Sandia briefing was part of a tour by the group which included visits to Los Alamos Scientific Laboratory, Lawrence Radiation Laboratory, and Sandia's Livermore Laboratory.

I. M. Moore, manager of Weapons Training Department 5310, coordinated the program presented to the visitors at Sandia.

Important to Keep Names of Insurance Beneficiaries Current

Keep the names of your insurance beneficiaries current with your wishes and let those beneficiaries know where your three Sandia Corporation certificates are kept, Urges Services and Benefits Division 3122.

The three policies are the free Group Life Insurance Plan, the Supplemental Group Life Insurance, and the Group Retirement Plan. All have a cash value in case of an employee's death and must be presented to proper authorities before payment can be made to beneficiary.

Marriage, death of the beneficiary, divorce or other reasons could make a change in the designated beneficiary desirable. The insurance claim can only be paid to the designated beneficiary if living.

The policy must be presented to Services and Benefits Division at the time the change is made.



CHEMISTRY II STUDENTS from Sandia High School toured Sandia Corporation's industrial hygiene, chemistry and Van de Graaff accelerator facilities on Nov. 18. Looking through a stereoscope microscope is Grace Colvin. With Grace are (l to r) L. K. Jones (1621) and her fellow students Suzanne Seay, George Hilty and Wayne Clay. Twenty-two students were on the two-hour tour.

Contract Awarded for 1400's New Radio-Frequency Facility

Announcement was made this week by the Atomic Energy Commission that a construction contract

has been awarded for Sandia Laboratory's new Radio-Frequency Facility.

To be utilized by Electronic Component Development 1400 organizations, the new RF facility will be located in Tech Area I east of Bldg. 880.

It will consist of a 50-ft. square concrete pad with a metal surface, an underground reinforced concrete room with an area of 370 sq. ft. and a prefabricated metal building of 400 sq. ft.

Radar Advanced Development Division 1423 will operate the new facility which is expected to be completed within 112 days after the AEC tells the contractor to proceed. Contractor is H. E. Scott Construction Company of Albuquerque which submitted the apparent low bid of \$38,000.

Project engineer for 1423 is R. L. Parker. M. B. Moore (4543-3) is Plant Engineering project engineer.

Plant Engineering Department (4540) prepared design criteria and specifications for the project.

Eugenio Roybal Retires Monday

Eugenio Roybal, a Corporation employee for eight and one-half years, will retire the end of this month. He has worked in both the day and night shifts of the Janitor Service Division 4574.

Mr. Roybal will continue to live at 508 Broadway NE since he has a daughter and two sons in Albuquerque. His weekends, however, are usually spent in Espanola, where his mother lives.

Will he spend his new leisure to renew interest in fishing? "No, I'm all fished out," he said.



Technical Achievement and Employee Benefits

Ten Years of Sandia Advancements and Growth

While the Western Electric Company contemplates the changes in 90 years of steady growth Sandia can look back upon only the last 10, but they have been eventful and productive years.

When Western Electric Company assumed operation of Sandia Laboratory in 1949 on a non-profit, no fee basis, the original contract with the AEC was for the period ending Dec. 31, 1953. A five-year extension was agreed upon in 1954. When a new five-year contract was put into effect Jan 1, 1959, the action was viewed by employees as a new vote of confidence in Sandia Corporation's operation of Sandia Laboratory.

Because of the nature of Sandia Corporation's work in nuclear weapons research and development, details of our activities are classified. We have been able to report on some of the assignments given to Sandia. Corporation employees have participated in nuclear tests at Nevada Test Site and in the Pacific in increasing numbers and also in more responsible positions in recent years. There have been special assignments in the fields of telemetry and meteorology, air temperature studies for civilian agencies and blast information obtained for civil defense and Department of Defense projects.

Balloon Tests

There were extensive tests by Sandia in use of captive balloons as detonation platforms for nuclear tests to save building expensive steel towers and to reduce radiation fallout on nearby areas. Such a balloon was used at a height of 1500 ft. over Yucca Flat,

NTS, in 1957 in the "Hood" shot, largest nuclear shot set off in the United States. The balloons were initially used as instrumentation mounts on "blast lines" set up in the vicinity of full scale tests.

Sandia Laboratory developed high speed movie cameras to study shock waves from high altitude nuclear blasts and adapted other cameras so they could be mounted on missiles and recovered to help in studying ballistic behavior of falling shapes.

For the "Hardtack" series Sandia-designed high altitude research rockets for weapon effect studies carried instruments into the fireballs created in the "Teak" and "Orange" shots. Sandians helped design, arm and fuze the experimental rockets to gather upper atmosphere and blast data. Sandians performed a similar function for rockets used in the "Argus" project, in which nuclear devices were detonated at altitudes of about 300 miles.

Among other publicly announced activities of the Corporation are the high altitude studies at Tonopah Ballistics Range, Nev., utilizing rockets carrying telemetering equipment and air sampling instrumentation; Sandia's Livermore Laboratory development of the warhead for the Polaris missile; design, development and evaluation of non-nuclear components of the warhead for the Betty, atomic depth charge; development of the firing system and other ordnance phases of the Genie, nuclear air-to-air defense rocket, and Sandia's development of the Davy Crockett tactical weapon as announced by the Department of the Army.

Telemetering

Our telemetering instrumentation has even been used in testing stability characteristics of long-range strategic supersonic jet fighter planes (the F-101A Voodoo) and Sandia-designed rockets have been used to help boost some U.S. satellites into orbit.

Many of the country's top civilian and military scientists and executives have met at Sandia Laboratory as members of the Special Weapons Development Board. In the past year numerous technical representatives of the United Kingdom have visited Sandia to exchange technical information on atomic weapons development.

Project Sherwood

In peacetime applications Sandia has assisted Los Alamos Scientific Laboratory in one phase of Project Sherwood, use of thermonuclear power for peaceful applications; has participated in feasibility studies in use of nuclear explosives to create a new harbor in northern Alaska; has conducted ground motion studies and has made preparations for arming the nuclear device for Gnome project in southeastern New Mexico.

In the early period of Sandia Corporation's existence, work was carried on primarily at Sandia Laboratory in Albuquerque and Salton Sea Test Base in California. In 1956 the Livermore Laboratory, Livermore, Calif., was established at the request of the AEC to provide ordnance engineering support for the University of California Lawrence Radiation Laboratory. It has grown to 760 employees and a physical plant worth some \$6 million.

In addition to Salton Sea, bal-

90-Year Anniversary Marked By Western Electric Company

Ninety years ago on Nov. 18 a partnership was formed between three men, creating a modest electrical manufacturing firm which grew with service and became the Western Electric Company.

The first big step in the small firm's growth occurred in 1872 when Western Union officials, impressed by the company's emergency work in the wake of the great Chicago fire and its reputation for integrity and quality workmanship, helped organize and finance the \$150,000 Western Electric Manufacturing Company.

As the company became primarily a manufacturer of telephones Western Union withdrew, turning over its patents and equipment to the Bell Telephone Company.

During 1881 Western and Bell officials formed the \$1,000,000 Western Electric Company of Illinois to serve as the manufacturing unit of the Bell System.

In the years following, plants were expanded, new products introduced, and thousands of new employees hired, as Western Electric grew along with the demand for telephone service.

By 1906 Western Electric had become the largest electrical manufacturing and distributing organization in the world, with sales to-

taling \$65 million.

In World War I Western helped develop the aircraft radiophones and supplied the armed forces with large quantities of telephone equipment. During World War II four-fifths of the company's production was devoted to military products, including over a billion dollars worth of radar and over 30 per cent of all electronic war equipment.

The years since the end of the war have been years of unprecedented growth and achievement. Western Electric continued to meet the tremendous new demand for telephone products and services, while also planning and building for the future.

In the last 10 years alone, the company has more than doubled the size of its physical plant, adding some 12-million sq. ft. of floor space. Since 1949, Western Electric has added 50,000 new jobs, increased wages by more than 60 per cent, made substantial liberalizations in the benefit plan, and introduced such programs as the tuition refund plan and group life insurance. During this same period, in the face of soaring costs of all kinds, the company has reduced the price of WE-made equipment by an average of six per cent.

Recognizing the company's unique capabilities in performing complex, large-scale operations, the AEC in 1949 asked Western Electric to operate Sandia Laboratory. A non-profit contract was negotiated and has twice been renewed by the Government and Western Electric Company. The Armed Forces have assigned Western highly strategic projects such as the Dew Line, Sage, White Alice, the Nike missiles, the Titan ICBM, and Project Mercury.

Western Electric, today a company of some 125,000 employees with annual sales of over \$2 billion, has the promise of a bright future.

Sandians Participate in Plant Engineering Meet

D. S. Tarbox, manager of Plant Engineering Department 4540, and R. M. Officer, Planning Division 4541 supervisor, recently participated in the program of the annual Western Electric Interplant Engineering Conference. The three-day meeting of plant and factory engineers was held at the Omaha (Neb.) Works.

Mr. Tarbox described the physical plant and facilities of Sandia Laboratory and showed "The Sandia Story," 30-minute color film describing the work and mission of Sandia Corporation.

Mr. Officer spoke on "Truck Safety Problems."

istics tests have been carried on at Dalhart, Texas, and at Tonopah, Nev., where a range improvement program is underway.

Employee Benefits

Although Sandia Corporation administrative procedures are patterned after those of the parent organization (Western Electric) in many respects, there are numerous deviations in personnel practices, for example, because of the special nature of Sandia's operations.

Even 7 years ago the "benefits package" amounted to 53 cents per hour per employee and included such items as holidays, vacations, rest periods, military allowances, sick leave, retirement, group life insurance, etc. With the addition of other features in recent years, the value of the fringe benefits has increased to an average cost of 82 cents per hour.

An improvement in the benefits package occurred in 1954 when the Group Hospitalization and Surgical Benefit Plan went into effect. Four years later the new Health Care Plan with extended protection was offered to employees and three months later Sandia Corporation agreed to pay \$2 toward each employee's monthly premium.

Insurance Protection

Free Group Life Insurance protection was improved in 1958 to give every employee with five years service or more coverage the equivalent of a full year's salary. Shortly thereafter employees were given the opportunity to increase their coverage at low cost through Supplemental Life Insurance. Adding to the "peace of mind" package is the generous retirement plan, to which the Corporation contributes substantially, bridging

of service for employees with previous Sandia employment, lay-off allowances, and a home disposal plan for employees transferred. The growing number of "old timers" wearing five and 10-year service recognition emblems (3908 at last count) is evidence of the approval by employees of Sandia's benefit package.

The desire of employees for self-improvement resulted in free non-credit classes being offered after hours in various courses of study in the Sandia Evening School. In 1956 the Educational Aids Program was initiated, offering half tuition refund and limited time off the job for graduate studies in job-related subjects. The following year the program was extended to include undergraduates. Recently a new Technical Development Program has been added at Sandia Laboratory providing for graduate study by newly-hired technical staff members on a half work-half school basis. (See story elsewhere in this issue.)

In addition there have been orientation and training courses for supervisors, various special courses for on-the-job training, and an apprenticeship program for machinists. A similar apprenticeship program in electronics is being formulated.

From a handful of surplus barracks to an \$80 million laboratory and from 1800 to 7800 employees is a sizeable increase in just 10 years.

What will the next 10 years bring? It has been wisely said that the future belongs to those who prepare for it. All indications are that Sandia is well prepared, if imagination, ingenuity, technical competence and demonstrated ability are the basic requirements.

Plans Forming for Christmas Charity Projects of Sandians

It's later than you think for getting started on Christmas charity projects.

For several years Sandia Corporation employees have planned charity projects during the holiday

Marguerite Miheovich Visits Europe on Eight-Week Tour

A trip to Yugoslavia culminated an eight-week tour of Europe for Marguerite Miheovich (8212-3), who visited Tito's country in the hope of bringing her grandmother back to the United States for a visit.

Marguerite was disappointed to learn that the physician of her 70-year-old grandmother recommended she wait several months before traveling, but she plans to join Marguerite in Livermore in a few months.

Before leaving on her vacation, Marguerite submitted her itinerary to the Security Division. She left San Francisco airport early Sept. 2, flying the polar route to Paris.

Her tour with 18 others included visits to France, Belgium, Holland, San Remo, Monte Carlo, Italy, Austria, Switzerland and Germany.

The most interesting parts of her trip, Marguerite says, was her visit to a private home in Holland and receiving an audience with the Pope in Rome.

"I'm sure we would have never made it in those taxis in Rome without the papal blessing," laughs Marguerite. "Our drivers relied on their horns and rarely used their brakes."

Attend Workshop

J. R. Sublett (2560) and L. E. Snodgrass (2561) recently attended the American Society for Quality Engineers' workshop seminar on Management Quality Control held in Chicago.

season in lieu of exchanging greeting cards with co-workers.

Already Plant Engineering Department 4540 has named a Christmas committee including Doris Mason, Nicki Nixon, Mike Koetter and Barney Myer. The committee has sent a letter to each employee of the organization pointing out that while the custom of sending Christmas cards is appreciated by the recipients, it is more in keeping with the spirit of Christmas to use the money in giving a little happiness for the less fortunate. Employees may designate which charity they would like their donation given to. Last year \$101 was collected and went to eight different charities.

Organization 5300 plans to continue its established Christmas charity program of donating money toward purchase of shoes for needy children of the River-view Elementary School (Barelas district). In 1958 the employees were able to provide 40 pairs of shoes (obtained at wholesale rate) for the youngsters.

Winnie DeWitt will serve as coordinator for Department 4360's project of helping a needy family. A similar project was undertaken last year.

Organization 1300 has also decided to forego exchange of Christmas cards in favor of donating money to a charity. Details will be worked out later.

Other groups of employees planning charity projects are reminded that the Albuquerque Council of Social Agencies will again serve as a "clearing house" for donors and recipients. The Salvation Army, Department of Public Welfare, Catholic Charities and Elks Club will cooperate in locating families needing help.

Cash contributions are especially welcomed by the Council or the agencies as it often means benefits may be extended through the year rather than limited to the Christmas season.



FIRING CHAMBER for explosives is unloaded at Livermore's Site 300. The 20-ton chamber was fabricated of armor plate by Todd Shipyards, Alameda, Calif. at a cost of \$16,600. Watching the unloading (left) is Howard Cole, Test Operations Section (8121-2), whose organization will use the firing chamber at the site.

Building Miniature Steam Engines Hobby of Livermore Lab's Bob Hauff

A Livermore Laboratory draftsman shares an interest in an unusual hobby with two famous men—Walt Disney and orchestra leader David Rose. They all love scale model steam-driven trains.

Bob Hauff (8114-3) began building miniature trains 25 years ago as a boy in Seattle. About 10 years ago he began building scale-model steam locomotives which are about 15 inches high and weigh 95 lbs. He has built four steamers and many flatcars. "I was interested in building the 19th century models because they were so colorful. Modern trains are too streamlined," he said.

He and fellow members of the Golden Gate Live Steamers from the Bay Area meet once a month in an Oakland school for business meetings, and as often as possible they congregate at Oakland's Redwood Park where the city gave them land to build a quarter-mile of tracks. "David Rose is among the many enthusiasts to use our tracks. He makes a trip here about once a year," said Bob.

Bob's engines are tested at 335 lbs. pressure, but he operates his locomotives at 180 lbs. pressure. The steamers average 10 miles per hour on the track. "Once in a while we take kids along as passengers, but we have to limit the number. However, we do carry insurance to cover possible accidents," Bob said.

Mrs. Hauff is tolerant of her husband's hobby but is firmly against him working on his hobby in the house. One evening she was upstairs when the house was shaken by an explosion. Bob blew a hole in the kitchen ceiling while pressure-testing his locomotive. He promptly built a shed in the backyard and kept his engines out there after that experience.

Bob is a charter member of the newly-organized Alameda County Central Railroad Society which meets every Friday in the old fair



PRIZE-WINNING scale-model locomotive, the "Genoa," is oiled by Bob Hauff (8114-3). The 95-pound engine took 13 months to build and won first place several years in Seattle in a general hobby show in competition with several hundred other model trains.

office building of the Alameda County Fair Grounds.

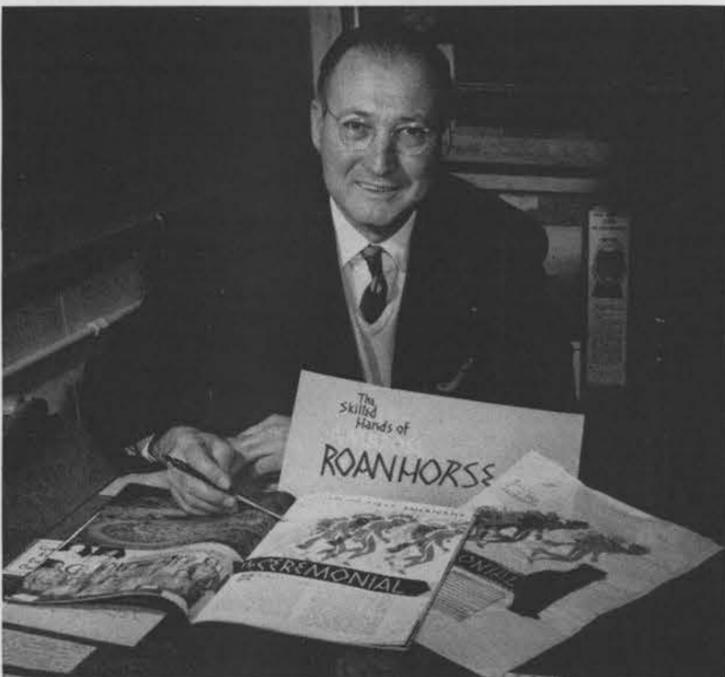
President pro tem of the society is Dick Durham (8231-1), with Ken Purchase (8213-2) acting as treasurer and Vince diLorenzo (8233-2) serving as secretary. Other charter members are Lee Klaus (8115-1), Carl DeCeasar (8234-1), and Tom Jones (LRL). First regular member of the society is George Saling (8122-2).

Aim of the group is "to create and maintain a place in which to assemble and operate scale model railroad equipment, promote general fellowship between model railroaders, and to make available the exchange of ideas and new methods of building railroad equipment," Dick says.

Primary interest of the society is in HO and ON3 gauge scale models. Members of the organization own more than \$2000 worth

Promotions

- John H. Cordial (8224) to Staff Member, Admin.
- H. Suzanne Sheldon (3126) to Typist Clerk
- Lydia I. Trujillo (3126) to Typist Clerk
- Betty B. Sherrad (4135) to Invoice Clerk
- Dorothy Benton (4135) to Accounting Clerk
- Catherine L. Anesi (4152) to Accounting Clerk
- Alan A. Netz (5241) to Math Analyst
- John W. Melvin (5241) to Math Analyst
- Joseph J. Fox (8225) to Stockkeeper
- D. R. Deatherage (1542) to Staff Member, Tech.
- William P. Morales (4511) to Refrig. & Air Cond. Mechanic
- Andrew J. Landis (4232) to Layout Technician
- Ann M. Williams (3126) to Steno Clerk
- Sharon D. Glenn (3126) to Steno Clerk
- Lynn S. Basham (3126) to Secretary Steno
- Mary B. Heckler (3126) to Secretary Typist
- Jo Ann E. Belmont (3126) to Secretary Typist
- Barbara A. Ford (3126) to Typist
- L. Marita Humphrey (3126) to Typist
- Donald L. Fulton (3464) to Camera Operator
- Thomas L. Patterson (4132) to Tab Equipment Operator
- Edna S. Baca (3421) to Assignment Clerk
- Jane M. McDermott (4135) to Investigator
- Warren B. Miller (5241) to Math Analyst
- J. Archie Lackey (5241) to Math Analyst
- Loyd E. Kelley (4152) to Accountant
- Charles C. Calhoun (8225) to Utility Operator
- James R. Rego (8225) to Stockkeeper
- Marilyn C. Lorenson (8212) to Employment Clerk
- Shirley A. Heller (8212) to Service Clerk
- Joseph A. Portolese (8232) to Senior Clerk
- Dennis J. Adkins (1612) to Lab Asst.
- Kenneth T. Riddle (8224) to Stock Analyst
- Lawrence A. Kent (4231) to Technician
- P. A. MacPherson (2222) to Prod. Control Clerk
- Henry F. Bacon (8224) to Property Clerk
- Ernest R. Dunaway (1622) to Lab Asst.
- Alma A. Mischke (4152) to Accounting Clerk
- Robert D. Bryant (8225) to Receiving Clerk
- D. M. Martinell (8233) to Record Clerk
- Donnie J. Martin (3153) to Employment Clerk
- Lawayne E. Janssen (8234) to Order Analyst
- Paul F. Martinez (1414) to Tab Equipment Operator
- Richard G. Vigil (1622) to Staff Asst., Tech
- Richard C. Wahlberg (2713) to Staff Asst., Tech
- Richard L. Chapman (6021) to Staff Asst., Admin.
- B. O. Sandoval (4253) to Cleaner
- Ira H. Patterson (4254) to Cleaner
- Adelardo E. Romero (4233) to Plate Maker
- Shirley H. Smith (2722) to Record Clerk
- M. Amy Gonzales (5241) to Data Red. Clerk
- Doris L. Briggs (8161) to Prod. Release Clerk
- R. James Dill, Jr. (1612) to Lab Asst.
- E. D. Hollingsworth (5150) to Secretary
- Gladys M. Collins (5510) to Secretary
- Armonia A. Gonzalez (5530) to Secretary
- Supervisory Lateral Transfers
- R. W. Durand from 2243-3 to 2221-2
- W. A. Johnson, Jr. from 2234-1 to 2243-3
- J. J. Reck from 2231-4 to 2553-2
- L. M. Barker from 1261-2 to 1283-3
- D. J. Massey from 5532-3 to 5532-2
- L. A. Smoll from 5532-4 to 1544-3
- L. G. Stewart from 5531-1 to 5532-3
- L. B. Hobbs from 2541-2 to 2542-1
- M. L. Shannon from 5531-3 to 5534-4
- C. A. Wells from 5531-2 to 5534-3
- R. C. Smelich from 2562-3 to 3466-3
- A. D. Peppmuller from 3442 to 3121
- H. M. Willis from 3441 to 3442
- R. P. Kelly from 3445 to 3441
- H. T. Stump from 3364 to 3445
- E. K. Baker from 3422 to 3364
- W. L. Miller from 5544-1 to 3132-2



PRELIMINARY ART WORK contrasts with finished issue of "Indian Life." Arthur P. Lites was in charge of design for the official magazine of the Gallup Intertribal Indian Ceremonial.

Art Lites' Work on 'Indian Life' Magazine Wins Excellence Award

When the official magazine of the Gallup Intertribal Indian Ceremonial won a recent citation in a nationwide competition of fine printing, Arthur P. Lites (5321-1) was particularly proud.

Art was in charge of the design work for "Indian Life." The award, from Mead Papers, Inc., was based on excellence of design and editorial content as well as printing quality.

"This was the first time I had worked on the yearly ceremonial magazine and I enjoyed the opportunity to use so much color. My job here is entirely with utilitarian type military publications and they're almost all black and white," Art explained.

It took him a month of spare time to complete the layout and other art work. All of the headlines were hand-lettered and designed along the linear lines used predominately by the Indians in their own arts and crafts.

Art had extensive experience in the printing and publication fields before coming to Sandia about three years ago. He was a typographic designer for 16 years for the Stanford University Press, one-time operated his own publishing organization, worked as a printing salesman, and was production manager for more than four years for Ward Hicks Advertising Agency in Albuquerque.

Sandia's Safety Record

Sandia Laboratory
Has Worked
130 Days
Without a
Disabling Injury

Livermore Laboratory
Has Worked
1376 Days
Without a
Disabling Injury

Square Dancers on TV

Four Sandia couples were among 500 square dancers who performed before TV cameras at San Francisco's Cow Palace recently when Roy Rogers was a guest of the Chevy Show. Representing several Livermore square dance clubs were Mr. and Mrs. Joe Vieira (8116-1), Mr. and Mrs. Clyde Martin (8222-2), Mr. and Mrs. O. R. Thomas (8213-1) and Mr. and Mrs. Harold Short (8123-1).

Ill Sandia Employees Cheered and Helped By Visiting Nurses of Medical Department

When you're ill, it's nice to know that someone is concerned about the way you feel and whether you need any help.

Visiting nurses of Medical Department 3360 provide this service to ill employees by calling on them to help in any way possible and to

do a little cheering up. When an employee has been absent due to sickness for three consecutive calendar days, it is Corporation policy for his supervisor to contact Health Services Division 3364. A company nurse will then visit the employee. Sometimes at the request of a supervisor, the nurse may call on the employee on the first or second day of sickness absence if help is needed.

By following this procedure, the Medical Department knows that the employee is obtaining competent medical care, that he is not neglected or alone and that the absence is properly chargeable to sick leave.

In addition to house calls, the nurse also sees Corporation employees in the hospital. Not every patient is visited at home. Sometimes a phone call assures the nurse that everything is all right.

Corporation nurses rotate periodically as visiting nurses. Usually only one nurse is needed, but if the workload warrants it, another nurse helps. This is especially true during the winter months.

During FY 1959, 2768 personal visits and 1544 phone calls were made by the company nurse. "In addition, we had many false alarms," Howard T. Stump, 3364 supervisor, says. "Many times the employee is visiting his doctor, has returned to work, or we have the wrong address."

Howard explained that it is not necessary for a patient to check with Medical Department after an illness unless he has been on sick-ness absence for eight consecutive calendar days or more, in the hospital, or returning after an injury. A supervisor may also request that an employee check with Medical before returning to work.

"One of our biggest problems," he said, "is wrong addresses. If the person taking the call from the ill employee would check the address to make sure it is correct, we could alleviate our worst headache."



BEFORE STARTING her house calls, visiting nurse Helen Culley (3364-2) checks with supervisors by telephone to see if employees reported sick have returned to work. She also phones some of her patients instead of visiting them, if they are on the way to recovery.



LOOKING UP street locations is a task performed many times during the day by Helen. Valuable time is lost when her records show a wrong address listed.



CALLING ON an employee who is ill, Helen will assist in any way she can and probably do a little cheering up, too.

Sandia Service Awards

15 Years



Elizabeth F. Foley 4131 Dec. 7, 1944



Fred F. Eichert, Jr. 4410 Nov. 28, 1949



Vincent W. Hansen 5222 Nov. 28, 1949



Leo White 1321 Dec. 5, 1949

Five Years

Nov. 28-Dec. 11

Thomas F. Lonz 4131, Alvin E. Kaping 4332, Ray L. Harrison 1285, Robert G. Newman 5150, Billie L. Beckman 3466, Ada R. Crowder 5512, Howard E. Sloane 2723, G. M. Costello 2723, Gail B. Ward 3463, John H. Barnum, Jr. 1322, Robert E. Wagner 5262, Richard Lee Davis 1432, Clyda L. Bohannon 3126, Hazel C. Minter 5250, Robert E. Marsh 1245, Charles E. Alderman 4518, George G. Martin 4411, George W. Buddrus 5524, John A. Devenau 4361, Henry K. Togami 1225, James J. Wincek 4411, Charles M. Griffin 5543, John Blough, Jr. 3442, M. Margaret Platt 4112, Irene T. Brian 3421.

In the Clouds

Purchasing has taken to the air. Alberta "Bertie" Dougherty (4314-1) and Larry Lavanier (4361-1) have been taking flying lessons this year and both soloed recently.

10 Years



Barcus A. Keller 4514 Nov. 14, 1949



Lois P. Kelley 4421 Nov. 21, 1949



Joseph I. Hegge, Jr. 1320 Dec. 1, 1949



Rosendo Lesperance 4513 Dec. 5, 1949



Reo T. Depew 1411 Dec. 7, 1949



George Jaramillo 4573 Dec. 8, 1949

Livermore Golfers Invited to Compete In Turkey Tourney

Sandia golfers are invited to participate in the Radiation Laboratory Recreation Association's Turkey Tournament at the Hayward Golf Course, Saturday, Dec. 12. Players will be divided into groups or flights of about 12 players, according to handicap. Low gross and low net in each group will be awarded a turkey. B. H. Morgan, Bldg. 152, Rm. 156, LRL, is accepting reservations and a \$1 fee, which must be received by noon, Dec. 1.

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

- '52 DODGE, \$200. Garcia, AM 8-5323, 2942 La Veta NE.
- '53 PACKARD Clipper, \$300. Rudeau, AL 6-2380.
- KEYSTONE K-70 BRIGHTBEAM 8mm projector w/case, new lamp, 400 ft. reel; free trial, \$60. Kersten, AL 6-4513.
- '59 CHEVROLET 1/2 ton, 4-speed, R&H, rear bumper, snow tires, spotlight, heavy duty throughout, \$1700. Dempsey, AX 9-3969, 2120 Hoffman Dr., NE.
- GOLF CLUBS, Kroydon, Tommy Bolt set of 9 irons & 4 woods, never used; engagement ring, 1/4 carat; priced to sell, Ruff, ext. 48190.
- SMALL YOUNG TERRIER, part Chihuahua, spayed female; has all shots, license tag included, \$10. Batchelor, AX 9-4831.
- BED, single maple bunk w/springs and mattress, \$12. McMaster, AM 8-8062 after 5 p.m.
- '57 CORVETTE, 283 hp, fuel injection, low mileage, never raced, \$2925, no trades. Parker, AL 6-4216.
- TIRE, U.S. Royal 7.50x14 whitewall tubeless, brand new, \$20. Sayers, 228 General Bradley NE.
- LABRADOR RETRIEVER, 15 mos. old, housebroken, good pet for children, ready to train for hunting, \$100. Over, AL 5-9459.
- '56 CADILLAC sedan, white, all power; will trade down or sell outright. Branson, AX 9-1360.
- STENOGRAPH-MACHINE, case & books, \$50 cash; wringer washing machine, used 6 mos., \$80 cash. Padilla, AM 8-2782 after 6 p.m.
- MALE BEAGLE, 2 yr. old, w/dog house, \$15. Luikens, AL 6-0437.
- '57 GOLIATH, 14,000 miles, R&H, new battery, antifreeze, will sell for blue book loan value. Nielsen, AL 5-2045.
- '59 SIMCA, 9 mos. old, \$1695. Riggs, DI 4-2791 after 6 p.m.
- '56 CUSHMAN EAGLE scooter, \$225 or best offer. Gallegos, AX 9-7270, 1409 Guaymas Place NE.

WASHER-DRYER Bendix Duomatic, 220 volts, water & drain hoses provided, not bolted down, \$100. Eggert, AL 5-4980, 14025 Skyline Dr., NE.

'56 FORD Fairlane V-8, autom. trans., R&H, 2-tone grey & white, orig. owner. Will trade for late model Volkswagen. Hunter, AX 9-1089.

BABY CRIB & mattress; car bed; bath-nette; stroller; playpen; Saffee Server. Leckman, AL 6-2354.

BABY CARRIAGE, can be used as car bed, \$15; maple crib, \$10; gas stove, \$15. Dauphinee, AL 5-6367.

IMPORTED '57 AM-SHORT WAVE table model radio; 10 in. elliptical Telefunken speaker, \$30; RCA 45 player, \$7; Fisher preamp, \$7. Angell, CH 3-2713.

MOVIE CAMERA & projector, 16 mm Kodak; orig. cost \$520, will sell both for \$250 or separately. Johnson, ext. 25290.

BOOKCASE & matching headboard set, \$15. Glass, AL 6-2485.

22 REMINGTON BOLT action Rifle; Japanese reflex camera; 15 gallon aquarium; auto parts, Lincoln, Ford, Model "A" & others. Villella, AX 9-7915.

GIRL'S BICYCLE, 24 in., blue & white; boy's bicycle, 20 in., red & white. Taggart, AL 5-3092.

'56 PORSCHE Speedster. Edwards, AX 9-5496, 9100 Woodland Ave. NE.

BOWLING BALL w/bag, \$16; shotgun, 12 ga., Springfield automatic w/case & equipment, \$70. Galbreath, DI 4-4306, 3730 Manchester NW.

22 RIFLE, \$20; phone stand, \$10. Burbidge, ext. 32289.

PICKET FENCING, Two 50 ft. rolls, new wire bound, 36 in. high, never been unrolled, \$18. McClure, AX 9-9405, 2012 Glorietta NE.

POODLE PUPPIES, male and female, \$35 ea. Takahashi, AL 6-0743.

SWING SET, \$10; 2 complete Lionel train sets, \$40; Craftsman lawn mower, \$5; oil painting; 12 ga. shotgun antique. Otero, AL 6-6597.

JEEP, 4 wh. dr., \$475 or trade for camp trailer. Pritchard, AL 5-6949.

FUR CAPE, finger tip length, good for Christmas gift, \$70. Arning, AL 6-9229.

RIFLE, J. C. Higgins model 51 30-06; heavy duty gas regulators w/autom. cut-overs; 620 Ansco camera, flash attachment & case. Langston, AM 8-2839.

FREEZER, chest type, 4 cu. ft. capacity, linoleum top, \$65. Martin, AL 6-6785, 4631 Hannett NE.

GE REFRIGERATOR, 7 cu. ft., \$60; 48 in. 3 shelf bookcase, \$12; executive file cabinet, safe, letter and card drawers, \$35. Taylor, AX 9-2281.

'50 DE SOTO custom club coupe, new tires, fully equipped, \$325. Gelder, AX 9-0134 after 5:30 p.m. or weekends.

NEXT DEADLINE

FOR SHOPPING CENTER ADS
Friday Noon, Dec. 4

LIONEL 027 TRAINS, tracks, accessories, including 275 watt transformer. Stauffer, AX 9-3224, 2209 Hendola NE.

BEDROOM SUITE, 4-piece w/innerspring mattress & box spring, \$100; full size Rollaway bed, \$25. Mischke, AL 5-5145.

'55 BUICK Century (dynaflow) w/PS & PB & seat, R&H, 4-door. Shea, ext. 28258 between 12 and 1 p.m.

FIRE ENGINE set, Toy Tonka, includes ladder, pumper & rescue trucks; orig. cost, \$28.50, sell for \$16. Cashion, CH 2-3345, 2811 Monterey SE.

IRONRITE MANGLE, chair, \$150; boy's 26 in. heavy-duty Roadmaster bicycle, \$10; student Kahn coronet, \$100. Costello, AL 6-9702, a.m. and after 4 p.m.

WASHER, Kenmore automatic, hoses attached \$25. Smith, AL 5-6236.

'50 STUDEBAKER Champion, 2-door, ideal second car, \$150. Patterson, CH 3-9474.

'49 CROSLLEY, R&H, \$130. Kent, AX 9-8821.

USED CROSLLEY engine parts, heater. Laskar, AX 9-1024.

'58 MGA, sacrifice at \$1800. Cole, ext. 2-4147.

AIR CONDITIONER, portable, used three days, \$30; 10 watt amplifier, 20-20,000 cps, \$35. Will trade for Lionel 027 equipment. Stuart, AX 9-9190.

SEWING MACHINE, portable electric, \$30. Schroeder, AX 9-1313 after 5:30 p.m., 7707 Penn. Pl. NE.

'56 STUDEBAKER SKY HAWK, autom. trans., R&H, w/w tires, 2-tone paint, \$1195. Pickens, AX 9-1455.

AUTO ROLLE "G" f3:5 Xenotar, Eveready case, Rolleinar No. 1, Rolleiflash, cable release, filter, Weston Master III, complete developing equipment, \$190. Rechner, 5015 Ponderosa NE.

PROJECTOR, 8mm Keystone 70, \$39.50. Mancuso, AX 9-4279.

RIFLE, Mannlicher-Schoenauer, custom model Mannlicher, new 280 cal. Goens, BU 2-3492 after 5 p.m.

GAS STOVE, O'Keefe and Merritt, \$65. Douglass, AL 5-0539.

'48 CHEVROLET, 4-dr. \$175. Johnson, AL 5-5427.

TV, 14 in. Motorola table model, \$45. Cihlar, AL 6-2264.

'56 FORD V-8, 4-dr., std. transmission, good mileage. Delker, AX 9-0773.

GOLF SET, 2 woods, 4 irons, bag and cart, \$60. White, ext. 39292 after 5 p.m.

CAMERA, Exacta, single lens reflex, 2.8 Zeiss Tessar lens; mobile transmitter, converter and power supply; trade or sell. Schowers, AL 5-9279.

IRONRITE MANGLE, \$135; G. I. skis, never used, \$10. Hawk, AL 6-6264.

'51 BUICK, 4-dr. sedan, 2-tone, R&H, 18 mi. per gal., \$300; '42 Chevy pick-up truck, best offer. Lopez, AX 9-0941.

'57 AUSTIN-HEALY 100-6, wire wheels, overdrive, R&H, tonneau, best offer. Daniel, AM 8-0417.

'55 VOLKSWAGEN, motor recently overhauled, good tires, has radio, \$1150. Revels, DI 4-3033.

MEXICAN CHIHUAHUA, female, brown, 4 mos. old, pedigree, \$50. Lopez, AX 9-6996.

'58 PLYMOUTH station wagon V-8, 2-dr. autom. trans., R&H, new battery, \$1895; will consider trade. Radwanski, 301 San Pablo NE.

'54 CHEVROLET pick-up, 1/2 ton, 3 speed, one owner, \$650. Dyer, CH 2-8830.

'54 PONTIAC, 4-dr., Star Chief, \$625. Neiman, AM 8-2657.

'55 FORD Six Ranch Wagon, autom. trans. Reed, AM 8-8839.

PUPPIES, 7/8 collie, 1/8 shepherd, just weaned. Heinz, AX 9-4821.

'55 STUDEBAKER Commander Deluxe, 4-dr., automatic drive, R&H, 43,000 miles, \$825. Salazar, ext. 32280.

TRAIN, Lionel, engine and 7 cars, many other accessories, 35 ft. track w/trestle mounted on board; best offer over \$40. Armbrust, AL 6-2254.

'54 FORD 1/2 ton pick-up, 6 cylinder, 3 speed, \$550. Hoverty, DI 4-1161.

CLEANER, Hoover upright, \$25; trombone with case, cost \$225, used 6 mos., \$95 w/terms; portable typewriter, \$35. Brunacini, DI 4-6831.

'59 PORSCHE-1600, R&H, low mileage. Bartolucci, AX 9-9072 after 5:30 p.m.

TV, 17 in. Motorola table model, new 1 year warranty picture tube, rabbit ears, \$65; old clocks. Muehlenweg, AM 8-0316.

3 BRM ROBERSON resale, 1 1/4 bath; FHA or 4 1/2% GI available. Myers, AM 8-8645, 1857 Illinois NE.

ANTIQUE LOVE SEAT w/two matching chairs; Mangle, cook tent 10x12x3 ft. Ingram, DI 4-0341; after 6 p.m., DI 4-5756.

HAMSTERS, 4 wks. old, make good pets, \$1. Krahling, AM 8-8126, 1036 Princeton NE.

LOST AND FOUND

LOST: Nash hub cap; man's yellow gold wedding band w/band of white gold inside; key for Plymouth; chrome Zippo lighter; SC 5 year pin; man's grey leather gloves, lost in Bldg. 880. Last and Found, ext. 26149.

FOUND: Pillow slip in process of being embroidered and crocheted; prescription sun glasses w/grey frames; lady's

brown skirt found near gate 3; yellow pocket knife; tan cotton glove; Mercury keys. Lost and Found, ext. 26149.

FOUND: Large female hound, white w/brown and black markings, on South Highway 10, Nov. 8; she now has pups. Bullack, ext. 49152.

LOST: Solid black female cat, 1 1/2 years old, red collar, 1959 rabies tag no. 98785. Blake, AL 5-7815.

WANTED

WILL SWAP set of Britannica Encyclopedia college level for Colliers or comparable set at high school level. Gary, AL 6-7325, 1915 Dakota NE.

OLD FORD 4-dr. or pickup, 1932 to 1948 with or without motor. Villella, AX 9-7915.

4 SAMSONITE chairs w/arms, any color. Stewart, AL 5-6659.

GERMAN LUGER PISTOL, dress swords & old knives American & European. Smitha, AX 9-1096.

ROOMMATE—Girl w/2-bedroom apt. would like to share with another girl. Pope, AL 5-6217 or ext. 39257.

GIRL'S BICYCLE, 2-wheel, 20 in. Freund, AX 9-3716.

TRADE 1 book Pioneer Trading Stamps for 1 book S&H Green Stamps. Bird-sall, AL 6-6225.

TRAILER, light weight, 150 to 200 pounds. Edwards, AX 9-5496.

TO TRADE 2 BRM HOME, HW floors, attached garage on large corner lot for small acreage w/house out of city limits. Haley, DI 4-3919.

FOR RENT

2 BRM UNFURNISHED HOME, conveniently located to both bases, couple or small family. Laskey, AL 5-2522, 613 Ortiz Dr. SE.

2 BRM HOME, 3512 Garcia NE, \$95 partly furnished, \$105 unfurnished, water paid. Gunderson, AX 9-9184.

3 BRM unfurnished Hoffmantown, garage, carpets, landscaped, \$110 mo. Irvin, AX 9-8046.

FURNISHED APT. deluxe, 2 bedrooms, available Dec. 6, 321 Madison. Newman, AL 6-0166.

3 BRM HOME, 1 1/4 bath, garage, \$125; 3419 San Pedro NE. Pasko, AM 8-3497.

3 BRM HOME, garage, landscaped, walled yard, drapes, w/w carpeting, near all schools, shopping, \$120; 3210 Tiley Drive NE. Jolly, AX 9-6979.

LIVERMORE FOR SALE

HOUSE TRAILER, 1955 Spartan 43' x 8', one bedroom, Frigidaire, garbage disposal, 35' aluminum awning. Sorensen, ext. 2359.

PUPPIES, give-away, small, short-haired, all colors, either sex. Born Oct. 28. Finders, HI 7-3166.



BALL CARRIER Pat Moore (1332) is tackled when offense pulls flag from his belt. The run was good for a first down.



GOOD BLOCKING helped Charlie Salazar (2722) cover 16 yards to score the first touchdown for Sandia Corporation All-Star team.



SANDIA CORPORATION'S All-Star Flag Football team members are (first row, 1 to r): George Banos (3122), Employee Services representative, Ron Zottnick (3111), assistant coach, and Jack Dyer (3121), head coach. (Second row, 1 to r): Lon Kracko (1652), Jack Karcher (1612), Buddy Sanchez (3464), Tom Tormey (4254) and Sonny San-

chez (3461). (Third row, 1 to r): Allan Ness (4413), Gil Andresen (4413), Dan Power (5241), Pat Moore (1332) and Charlie Salazar (2722). (Fourth row, 1 to r): Ron Garin (4412), Clyde Hughes (4412), Jack Thompson (AEC), Jim Johnson (5243), Herb Filusch (1225) and Julian Lovato (4411). The Corporation team won by a score of 16-12 to retain trophy.

Sandia Takes All-Star Tilt 16-12, Scores Twice in Game's Last Seconds

Sandia Corporation's All-Star Flag Football team scored twice in the last minute and a half of play to defeat the Sandia Base All-Stars 16-12 in their second annual game last week.

A sensational 40-yard catch in the end zone by Lon Kracko (1652) put the Corporation in the lead 14-12, and with 20 seconds left Herb Filusch (1225) scored a safety.

Pat Moore (1332) threw the touchdown pass to Lon who snagged it while being covered by three men.

Sandia Base moved the length of the field to score the first time

they had possession of the ball, but the score was soon tied when Charlie Salazar (2722) carried the ball 16 yards into the end zone for the Corporation. Neither team converted for extra points.

Sandia Base made their second touchdown in the second quarter, and the Corporation didn't break into the scoring column again until Allan Ness (4413) tallied a safety in the third quarter.

Sandia Corporation remained in possession of the traveling trophy since they beat the Sandia Base All-Stars 38-13 in the first game two years ago.

Final Plans Set For Livermore Christmas Party

Christmas Dance Chairman Bob Dougherty (8141-1) met with his committee this week to make final plans for the Dec. 13 party at Castlewood Country Club. Ticket sales began two weeks ago and those planning to attend are urged to get their tickets as soon as possible.

Refreshments and hors d'oeuvres are included in the \$2.75 ticket per person, Bob says, and the social hour is from 6 to 8 p.m. Dark suits and cocktail dresses are appropriate for the semi-formal affair. The dancing begins at 8 p.m. with Gordon Heche and his orchestra.

Paintings of Christmas scenes by artists of Section 8114-5 will be presented as door prizes.

Committee members are Bill Guntrum (8153-1), Aggie Van Brocklin (8232-1), Jack Bonetti (8212-2), Jim Hyde (8116-1), Chuck Pignolet (8161-2), Cal Brewster (8122-1) and Roy "Smoky" Maxwell (8225).

Bob announced plans are already being made to secure a date for next year's Christmas party.

Sandians Active in American Business Women's Group

Sandia members of the American Business Women's Association not only help make education possible for worthy students, but through their organization they are helping inform others of Sandia Corporation's purpose and opportunities.

The national organization is comprised of business women and is primarily concerned with education. The local group gives one full scholarship a year and partial payment on a second. This year the members are assisting a girl in the University of New Mexico School of Nursing and a second in a local business school.

Past officers of the association have been Helen Batchelor (3463), president, Bernice Duke (4131), president, and Mildred Johnson (5532), recording secretary. Current officers from Sandia include Emily Gilmore (3452), recording secretary, and Rosemary Morrissey (2713), publicity chairman.

At each monthly meeting a vocational talk is given by a mem-

ber and frequently there have been guest speakers such as Ruth Farley (3421), Jean Gillette (3132), H. Wilson Maglidt (3460) and T. D. Harrison (2561).

Since the Sandia members work in various types of jobs their vocational talks have been of wide variety. The women include Clara Blasky (4131), Ruth Cushman (3463), Leota Hoffert (3462), Elaine Layton (3126), Jean Lucas (4211), Anita Seavers (3452), Barbara Vandenberg (2731) and Dorothy Belmore (3423).

Combo Team Champions of Football League

Champion of the 1959 Sandia Corporation Flag Football league is the team combination of 1200-1300-1400-1500. Individual trophies will be presented to the winners by Clyde Hughes, president of the Football Association.

Team	Final Standings			Lost
	Won	Tied	0	
1200-1300-1400-1500	6	0	0	1
4400-5500	5	0	0	2
2500-2700	4	1	0	2
3400	4	0	0	3
5100-5200-5300	4	0	0	3
4100-AEC	2	1	1	4
1600	1	1	1	5
2200-4200-4500	0	1	1	6

Calendar Scientific and Technical Meetings

- Dec. 4**
Sandia Base Radio Club
Leonard's Restaurant
Dinner Meeting: 7:30 p.m.
Speaker: Ben Caine
For further information contact
Ed Bales (2552), Ext. 26257
- Dec. 8**
Instrument Society of America
Time and place to be announced
For further information contact
Victor Meyers, AM 8-2474 or AX 9-4149
- Society of Photographic Instrumentation Engineers
Albuquerque Chapter
Bldg. T-300, Sandia Base
Meeting: 7:30 p.m.
(Nomination of officers)
Program: Unclassified photographic instrumentation movie
For more information contact
H. Sweeney (5216), Ext. 36137



FLAG FOOTBALL CHAMPS, a combination team with members from 1200, 1300, 1400 and 1500, is shown above. In the first row (1 to r) are Carl Duimstra (1331), A. C. Arthur (1332), B. G. Neeld (1311), Max Newsom (1247), and Leo White (1321). Standing are H. J. Filusch (1224), G. G. Downs

(1411), Don Lundergan (1261), J. H. Von Dreele (1332), Gene Ives (1264) and Pat Moore (1332), captain. Not shown are George Hildebrandt (1330), Joe Abbott (1521), Tony Arnold (1521), Bill Hartman (1261), Joe Teague (1332), and Ron Lawwill (1312). The team's record was six won, one lost.

Dance Concert Set by Sandia Players Dec. 4-5

The Sandia Players will present a dance concert, "Inventions in Black and White," Dec. 4 and 5 at 8:30 p.m. at the Sandia Base Theater. Admission is free.

Experiments in dance will include a spoof on the Beatnik generation, "Slide, Boy, Slide," and an allegorical struggle between good and evil, TV detective style, to the Peter Gunn theme. There will also be interpretations of "Deep River" and "Night and Day" as well as other numbers.

Direction and choreography is by Pfc. Mark Masuoka who wrote and directed the musical satire "Security Unlimited" which was presented by the Sandia Players last spring.

Sandians on the program include dancer Crawford MacCallum (5150), narration by Phyllis Schatz (whose husband works in (5126), and accompaniment by Marian Weiss (3126).

Bill Puder Elected STWE Chairman

Bill Puder (2631) was elected recently to chairman of the Society of Technical Writers and Editors to fill the unexpired term of former chairman John Chapp of Lytle Engineering who has transferred from Albuquerque.

G. J. Hurley (5323) was elected to vice chairman of the group, an office formerly held by Mr. Puder.

Squaw Valley Trips Open to Livermore Lab Employees Now

Reservations are now being taken by Jack Bonetti, Livermore Laboratory Employee Services Section (8212-2), for trips to the Squaw Valley area in northern California.

Two weekend trips to Crystal Bay were arranged for Jan. 23-24 and March 12-13 by Employee Services through a San Francisco travel agency. At \$12.50 a person, the trip will include breakfasts Saturday and Sunday, dinner Saturday night, dancing and social hour at a local club, and motel accommodations for two nights in Crystal Bay.

The fee does not include transportation.

Crystal Bay is on Lake Tahoe and is 12 miles from Squaw Valley and one mile from the Nevada state line. Special rates on chair lifts and ski tows are available for those who wish to ski at Squaw Valley, Jack said.

Reservations are limited and interested persons will be signed up on a first come-first served basis.