special **ENROLLMENT** nov. 1-30

# health care

COVERAGE EFFECTIVE DECEMBER 1

DESIGNED TO PROTECT YOU AND YOURS **AGAINST HIGH COST** OF MEDICAL CARE



S. P. Schwartz

## S. P. Schwartz Marks 30 Years With Bell System

Completing 30 years with the Western Electric Company on Nov. 15 will be S. P. Schwartz, vice president and general manager of Sandia Corporation.

Mr. Schwartz first was employed by Western Electric as an engineer. He subsequently held various supervisory positions with those organizations of the Company responsible for the manufacturing and installation of communications equipment and later became associated with the air defense projects which the Company was doing under contract to the U.S. Air Force. He has held his present position at Sandia since 1957.

Mr. Schwartz was born in Hazelton, Pa., and attended Lehigh University in Bethlehem, Pa., where he received his degree in electrical engineering in 1926.

## Health Care Enrollments High, Open Through November

As the Sandia Lab News went to press early this week, enrollments for Sandia's Health Care Plan were coming in rapidly. Jack Mafit, supervisor of Services and Benefits Section 3122-1, which administers the plan, reported that prior to the opening of the special enrollment 68.8 per cent of all Sandia employees were enrolled in the plan and that as of the end of the first week of enrollment, this

figure had risen to 72.3 per cent Some 2500 employees not presently enrolled in the Health Care Plan are being given the opportunity to do so during this special enrollment period which will extend through the month of No-

In addition, employees already enrolled may add dependency coverage at this time if they wish.

Employees desiring to enroll are

urged to contact their division supervisors who will provide enrollment cards and explain features of the plan. Personnel of 3122 are also available, ext. 52136, for Health Care Plan counseling.

Monthly cost of the plan to the employee is \$2.24 for single coverage, \$11.24 for employee and one dependent and \$12.40 for employee with two or more dependents. Sandia Corporation pays an additional \$2.00 of the monthly premium for each employee enrolled. Payments are made by payroll deduction.

Main feature of the plan is payment of 80 per cent of medical costs, within the plan's provisions, for covered employees.

Coverage will start Dec. 1 for employees who enroll during this



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VOL. 11, NO. 23

ALBUQUERQUE, NEW MEXICO

**NOVEMBER 13, 1959** 

## Construction at Sandia Booms, \$4,300,000 in Projects Going

The face of Sandia Laboratory changes daily.

In the lobby of Bldg. 800 a new reception area is completed and refurnished. New metal and glass gate houses stand at the entrances to the Tech Area. In Area III a giant hole has been gouged in the earth and a two story reactor vessel waits to be installed. A Radiant Heat Facility, Complex Wave Facility, Acoustical Test Facility and Vibration Facility are under construction.

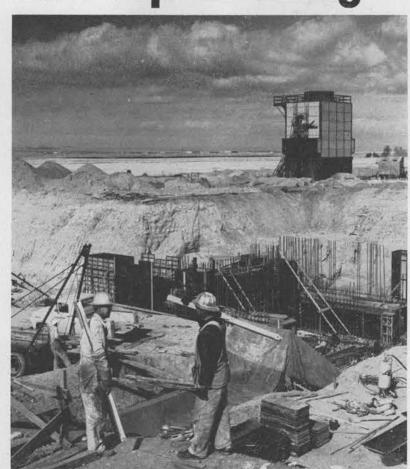
In Tech Area I a new three story environmental laboratory, Bldg. 861, is ready for partitions and installation of equipment. Bldg. 841, a new specialties building for The Development Shops, grows with steel girders daily. New sidewalks and paving run throughout the area.

In Coyote Test Area a new field headquarters building is almost ready for occupancy.

Dozens of other projects are under way. A reclamation facility, Bldg. 870, is almost complete. Additions are being made to the Van de Graaff facility, Industrial Hygiene Bldg. 868 and to Medical Bldg. 831. A new metal cutting facility in Bldg. 851 is being built.

A hundred other smaller projects ranging from a new console room in the Wind Tunnel Facility Bldg. 865 to a masonry wall around substation No. 2 are under

Total cost of construction cur-(Continued on Page 4)



HUGE HOLE in the earth marks location of Sandia Engineering Reactor Facility in Area III. Workmen are currently pouring concrete base for the reactor pressure vessel. In the background partially constructed cooling tower.

#### Sandia All-Stars Clash With Base Thursday, Nov. 19

Sandia Corporation's All-Star football team will be battling to retain possession of the traveling trophy they won two years ago from the Sandia Base Military All-Stars when they tangle again Thursday night, Nov. 19.

Game time is 7:30 p.m. on the Sandia Base football field which is located west of the Provost Marshal's office. The traveling trophy will be presented to the winners at the end of the game.

Jack Dyer (3121) has been named head coach for Sandia's team. Assisting him will be Ron Zottnick (3111), backfield coach, and Jim Brock (1612), line coach.

Employees selected to represent Sandia Corporation are as follows: Jack Thompson and Milton Stackhouse (both AEC), Joe Costales (4153), Pat Moore and Joe Teague (both 1332), Joe Abbott (1521), Julian Lovato (4411), Clyde Hughes (4412).

Ron Bump (5523), Gil Andresen and Allan Ness, (both 4413). Jerry Cole and Tom Tormey (both 4254), Dan Power (5241), Jim Johnson (5243), Charles Salazar (2722), Seyfred Toledo (2711), Buddy Sanchez (3464), Sonny Sanchez (3461), Lon Kracko (1652), Mal Woodward (1614) and Jack Karcher (1612).

## TV Show Will Feature Sandia's 'Sandy Mobot'

"Sandy Mobot," Sandia Corporation's robot mobile remote handler, will be featured on the television series "Johns Hopkins File 7." John Colp (1626) will demonstrate the robot.

The half-hour program will be presented over KOAT-TV, Channel 7, at 3 p.m. on Sunday, Nov. 15.

Sandy, to be used at Sandia's nuclear reactor facility, will dominate the 30-minute program, showing off his many intricate

## All-Time Safety Record of 116 Sandia Technical Papers Sent Dave Without Injury Achieved

An all-time record of 116 days worked without a disabling accident has been achieved by Sandia Corporation employees. This is 4,088,000 employee-hours on the job without a lost time injury.

"This is a record of which every employee may well be proud," A. B. Metzger, manager of Safety Engineering Department 3210, says. "It indicates what can be accomplished by the combined efforts of us all and extends beyond that. It also shows that our people have been spared the pain and suffering which results from unnecessary chance-taking.

"The sole objective of the Corporation's safety policy is to preserve life and limb and prevent suffering. The record serves only to indicate how closely the Corporation's policy is being followed.'

According to National Safety Council statistics on industries performing work comparable to Sandia Corporation, Sandia's outSandia employees, through personal exercise of caution, have been spared 1,648 days of suffering and consequent lost time. Some 28 disabling injuries at work have been prevented. Not only have employees benefited by this accomplishment but Sandia Corporation has gained 1,648 additional days of productive work,

according to the statistics.

"Sandia employees have demonstrated what can be done by exercising care and this should prove to be an inspiration to continue the safe practices." Mr. Metzger said. "Through the continued application of reasonable care, we should be able to continue this splendid record for many months to come."



Sandia Corporation Has Worked 116 Days Without a Disabling Injury

Because Sandians don't bank on common misconceptions such as: accidents always happen to the "other fellow" or that accidents are the inevitable price of progress.

# **To AEC Information Service**

Sixty-eight technical papers by Sandia Corporation authors were sent during the past three months to the Technical Information Service at Oak Ridge, Tenn., for use in the Civilian Application Program of the Atomic Energy Commission. The papers were given standard distribution and made available to the public through the Office of Technical Services, Department of Commerce, Washington 25, D. C.

Among those not previously reported in the Sandia Lab News were the following: "Subsurface Nuclear Explosion For Seismological Studies During International Geophysical Year," W. R. Perrett "Electrical Operations Manual For The Sandia Corporation Twelve-Inch Wind Tunnel." M. G. Baker (5142): "Folded Wire Structures As Receiving Antennas," C. W. Harrison, Jr. (1423);

"Analysis of Wind-Tunnel Dynamic Stability Testing Methods and Data Reduction" and "Pressure Calibration Of A Reflection Plane In The Sandia 12-Inch Transonic Wind Tunnel," R. N. Leach (5142); "The Construction Of Geothermal Steam Power Plants Utilizing Nuclear Explosives," R. H. Carlson (5112); "A Study of The Error Involved In The Near Use Of A Radia Interferometer," G. J. Simmons (5243); "Ignitron Firing," F. M. Stolt (1265); "A Summary Of Available Information On The Vertical Motions Of Air In The Troposphere," B. N. Charles (5121);

"Cushioning Materials for Packaging-A Sandia Corporation Bibliography," Frances Strachwitz (3421);; "Transport Theory and Spectral Problems," G. M. Wing (5126); "Microbarograph Instrumentation," H. E. Hansen (1231);

In addition to those listed above. the following papers have been added to the Sandia Reprint and Monograph Series: "High Time Resolution Telemetry By Microwave RF Link," C. E. Ingersoll (5231); "Accuracy and Reliability of the Sandia 220-mc Telemetry System," J. H. Scott (5255).

#### Formula for Health Care Protection

558.04 years \$26.88 per year

Maximum benefit under Sandia's Health Care Plan is \$15,000. It would take a single employee paying a monthly premium of \$2.24 (or \$26.88 annually) 558 years to pay this amount into the plan.

This is a lot of protection for very little money. In addition, Sandia's health care plan will reinstate the \$15,000 maximum credit after \$1000 in benefits has been received, provided the employee receives approval from Sandia's Medical Department to return to work.

Medical costs can be staggering. Major surgery and a stay in the hospital could easily cost \$1,000 or more. Extended illness and hospital care would triple this amount.

Sandia's Health Care Plan is tailor-made to take care of these catastrophic costs. Within the provisions of the plan, 80 per cent of your medical bills would be paid.

Look at it this way: while you enjoy good health now, budget a little each month through the Health Care Plan to take care of the costs of illness or accident should it strike. For very little you can buy a lot of peace of mind.

#### Party Scheduled

Organizations 4100 and 6000 will hold a joint Christmas party on Friday, Dec. 11, at the Coronado Club. Activities will start at 6:30 p.m. with a buffet dinner, followed by dancing to 1 a.m. to the music of Al Hamilton. "Tiny" Garritson will be master of ceremonies. Tickets are now on sale at \$3 per person.

#### Memorial

A check for \$70 has been presented to the local unit of the American Cancer Society in memory of Gisela Cultreri, wife of Elio Cultreri (3211-1), who died last month. The money has been contributed by friends of the couple and Elio's co-workers.

#### Double Luck

Mexico beckons to Jacob Isoma (4221-4) at vacation time. His most recent trip was a motor tour to Mexico City, Cholula, Puebla, Cuernavaca and Taxco with four days in Acapulco before his return via the west coast.

At Mazatlan Jake caught two seven-foot 110 lb. sailfish from the fishing boat Yaqui. The tackle battles were recounted many times after his return to co-workers in Bldg. 840.



SAILFISH. BEWARE of Jacob Isoma (4221-4). These two seven-footers didn't heed the warning and were landed Mazatlan, Mex., by the Sandian.

#### Pius X Spaghetti Dinner

If leftover turkey begins to pall your appetite by Nov. 29, several Sandians are helping to arrange the third annual spaghetti dinner of the Pius X Home and School Association for the benefit of the school's athletic program.

Walter Westman (1541) and George Porter (3131) are co-chairmen and sub-committee heads include Robert Kindley (1284) and Robert Duke (4122).

The dinner will be served Sunday afternoon and evening in the school with tickets for the general public at \$1 for adults, 50 cents for children.

#### Back from Military

Back from military duty, Larry Alton returned to his job in Sec-



tion 8143-2. He was inducted into the Army at Fort Ord, Calif., where he took his basic training last June, then took a four-week advanced infantry training

course. His period of training ended Oct. 11.

Larry first joined Livermore Laboratory in June 1958 and was assigned to a project engineering

#### Happy Memories

F. G. Shaw (2711-2) and his wife celebrated their 30th wedding anniversary Nov. 9 with a dinner at Robin Hood Inn. They were accompanied by their two sons who are in military service.



Rose Hainlen (4152)

#### Speaking of Reporters

#### Nine Year Service at Sandia Helps **Rose Hainlen Perform Reporters Duties**

This is another article telling of the volunteer reporters who contribute to the Sandia Lab News.

Rose Hainlen has only been the Sandia Lab News reporter for Cost and Accounting Department 4150 since last January, but she maintains "I've been at Sandia since the year one!"

Despite the gross exaggeration Rose has become well acquainted with employees in the different organizations during her nearly nine years at the Corporation.

Her son, John, was employed in Sandia's Services and Benefits Division before entering military service four years ago.

Rose is from Trinidad, Colo., and she still makes frequent visits there. She and her husband used to do lots of hunting and fishing but now, she says, "I leave it all up to him. Target shooting or eating trout is more to my liking."

Bowling, golf, swimming and knitting are Rose's main interests. She bowls in a major league and a handicap league. "Gardening," she says, "is also a favorite occupation, but I'm not a rose grower."

#### Congratulations

#### Born to:

Mr. and Mrs. Sidney B. Gasser (3111-2) a son, David Frederick, on Oct. 27.

Mr. and Mrs. H. O. Pierson (1625) a son on Oct. 29.

Mr. and Mrs. W. F. Stearns (1625) a daughter, Susan Diane, on Oct. 28.

Mr. and Mrs. Keith Wilson (3423-1) a daughter, Kristen Mavournin, on Oct. 20.

Mr. and Mrs. E. E. Ives (1264-2) a son, Jeffery Lankford, on Oct.

Mr. and Mrs. John C. Lucas (8121-2) a son, John Charles, on Oct. 23.

Mr. and Mrs. Bob Guerin (4113)

a son, David Vincent, on Oct. 29. Mr. and Mrs. Sam Gaeto (4113)

a son, Paul Joseph, on Nov. 1. Mr. and Mrs. Charlie Chavez (3442) a son, Norman Gerard, on

Mr. and Mrs. B. H. Anderson

(1625) a son, Scott Hamilton, on Nov. 4.

Mr. and Mrs. Ernest Wolff (2622) a son, Ernst Paul, on Nov.

Mr. and Mrs. E. T. Schreiner (2561) a daughter, Ellen Annette,

Mr. and Mrs. J. S. Souza (2543)

a son, Stephen Allen, on Oct. 27. Mr. and Mrs. B. M. Stringer (2543) a son, Brian, on Oct. 29.

Mr. and Mrs. J. Luna (2543) a daughter, Priscilla, on Nov. 1.

Mr. and Mrs. William Brady (4424-2) a daughter, Sarah Ann, on Sept. 25.



HONORED GUESTS at a recent Salton Sea buffet party were (1 to r): Mr. and Mrs. Chenault Davison (4582) and Mr. and Mrs. Sylvan Harris (4580). The affair was held at San Felipe Lodge.

## Engagement

Joyce L. Paul (8212-3) announced her engagement to Harold J. Kleve of Mission San Jose recently. The couple plans to be married in January.

Joyce has been with the Liver-Laboratory since August more 1959.

#### Back at Work

Department 8220 is glad to see Karl Tucker (8224-1) back at work after an extended illness.

Betty Pickel (4300) returned to work this week after recent ill-

#### Sunshine-Bound

Three Sandia employees are attending the national meeting of the Operations Research Society of America in Pasadena, Calif., this week. They are Don Peterson (5122), Stoughton Bell (5122) and Dallas Sasser (5121).

#### Moving Time

Mr. and Mrs. D. R. Wilkinson (1263-1) recently moved into their new home at 3804 Hilton NE.

#### Their First Home

Best wishes are extended to Curtis M. F. Anderson (4233) and his bride, the former Erleen Filsinger, who are now at home at 340 Espejo NE. The couple was married Oct. 3 at the First Congregational Church.

Co-workers of Wanda Shult (8213-2) wish her a speedy recovery from her recent illness.

Wishes for a quick recovery are also extended to Norman Jackson (8152-2), who recently underwent an operation.

Another Sandian on the sick list is Laurene Dubuque (5125), who has been off work since September.

#### 3460 Dines, Dances

Graphic Arts and Classified Records Department (3460) will hold their annual dinner-dance at the Coronado Club, Saturday, Nov. 21. A buffet dinner will be served at 6:30 p.m. followed by dancing to the music of Tommy Kelly and his band.

Committee for the event includes Gail Ward, chairman, Nellie Sanchez, Dee Fenstermacher, Betty McKenzie, Wayne Hancock and Doris Welch. H. W. Maglidt is honorary chairman of the group.

#### Indians Dance

Devotees of Indian lore will have ample opportunity during November to observe several traditional dances. Nov. 13-15 Zuni pueblo, south of Gallup, will celebrate its annual fiesta.

#### Sweet Tooth

The Camp Fire Girls fifth annual candy sale in Albuquerque will be held through Nov. 22 with Dwayne Mozey (1224) serving as chairman of the candy sales committee.

"The girls hope to sell 55,000 boxes this year," Dwayne said, "with the proceeds going into the summer camp development fund."

The candy will be sold door-todoor and are two varieties: pecan patties or an assorted creme box. Dwayne notes, "Placed in a freezer, the candies later may be used for Christmas presents."

## Sympathy

To Nyrah Marchant (2721) on the death of her father on Oct. 25 in Ft. Scott, Kan.

To Victor Gabaldon (2721) on the death of his brother on Oct. 19 in Belen.

To Glenn Haughness (2721) on the death of his mother on Oct. 27 in Albuquerque. To Hugh Lewis (2721) on the

27 in Corning, Ark. To Anna Averyt (4131) on the death of her mother Nov. 3 in Wilson. Okla.

death of his father-in-law on Oct



Wilma Parsons (3126)

#### Take a Memo, Please It's not old-fashioned to be safe. At the same time, don't expect another person to obey a rule you violate. Set a good example by being safety conscious.



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Staff

Donald E. Graham, Cherry L. Burns, June Leonard R. A. Dickson, Jean Ivarson, Livermore Laboratory, Livermore, Calif.



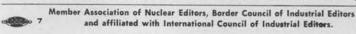
Telephone Sandia Base **Alpine 6-4411** Ext. 25253, 26135



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Livermore Laboratory employees who may have this desire are fortunate in living close to San Francisco where one of the world's oldest systems of mechanized public transportation is still in operation—the cable car.

#### Busman's Holiday

A Sandia Corporation engineer. Paul Rowe, supervisor of Product Engineering Division 8143, recently took a busman's holiday in San Francisco to learn about the workings of this quaint mode of transportation. Paul was recently transferred to Livermore from Albuquerque and cable cars were new to him. Here is what he found.

Inaugurated in 1873 by a Scotch inventor named Andrew Hallidie, "Hallidie's Folly" has been in service ever since. Paul discovered, in fact, that some of the original equipment is still in use at the power house to haul the 26 cars up the steep grades of the city, operating 20 hours a day, seven days a week.

Paul, who has a bachelor's degree in mechanical engineering and a master's degree in aeronautical engineering, was surprised to find that a single 750 horsepower motor is enough to operate the entire system. The motor drives a shaft on which the power wheels revolve. These wheels, some in use since the system was first put into operation, pull the cables through ten miles of underground troughs beneath the tracks.

#### Friction Device

A friction device in the cable car, operated by a "grip man," engages the moving cable and propels the car at a top speed of nine miles per hour up and down hills, some with grades in excess of 19 per cent.

Cars running downhill help to pull other cars up the hill, but perfect balance is seldom achieved. A car struggling up Powell Street, loaded with 35 seated passengers and 40 strap-hangers, doesn't gain much assistance from a nearly empty car clanging down the other side of the hill. The motor back at the power house makes up the

Occasionally the grip fails, as it did while Paul was riding on a car. To prevent the car from careening down San Francisco's precipitous slopes, the grip man has four methods of stopping the car. If the cable is intact and the grip



CABLE CAR manpower was supplied by Paul Rowe (8143) when he toured San Francisco's famed cable car system recently. Here, as passengers frequently do, he helps turn car on turntable at the foot of Market and Powell at the beginning of the line.

is working he can tighten up on the cable and thus prevent the car from going more than the nine miles per hour speed of the

#### Wheel Brake

He also has a conventional wheel brake in which a metal shoe clamps down on the wheel rim. A third technique utilizes a wooden block which presses against the track surface. These blocks, made of pine, must be replaced every three days.

An emergency brake is used as a last resort. This brake consists of a metal wedge which is driven into the cable slot in the street. It not only stops the car immediately, but usually requires a welding crew to melt the brake from

The 19-strand cables, wound around a rope core, have a tensile strength of 130,000 pounds, and seldom break from wear. When one does break, a temporary splice is made in the street and the cable is slowly reeled into the

powerhouse where it is woven together with a splice 55 feet long. The giant splice must conform to the diameter of the cable. Fortunately the cables are replaced only once every six or eight months.

#### Last Stronghold

San Francisco, the first city in the world to use cable cars, is now the last stronghold of the little hill climbers. At one time the city had 600 cars in operation on 10 lines. Today only 26 cars and three lines remain and their future is somewhat precarious, depending for their existence on sentimental San Franciscans who have long waged a battle cry with city officialdom to preserve the dwindling lines.

But for 15 cents Paul found he could still climb aboard a rickety, yet jaunty, conveyance and be treated to roller-coaster thrills. marvelous views, and the strange tunes tapped out by the grip men on the cable car bells.

#### Meteorological Paper Printed

B. N. Charles (5121) is the author of a technical article appearing in the October issue of the Journal of Meteorology, a bimonthly publication of the American Meteorological Society.

The paper is entitled "Empirical Models of Inter-level Correlation of Winds.

#### Sea Test Base resulted in a total contribution of \$803. Solicitors contacted 103 Sandia Corporation employees and 15 employees of the Prophet Company. The final figures included \$150 donated by the Corporation.

Salton Sea Gives

\$800 to Valley

**Fund Campaign** 

The first Imperial Valley United

Fund drive conducted at Salton

**NOVEMBER 13, 1959** 

Last year 11 towns in the Imperial Valley were consolidated for United Fund drive purposes. Participation by Sandia employees was relatively small because the Base was not solicited until late in the drive. This year 62 employees are contributing on a year 'round basis through regular payroll deductions.

The drive was spearheaded through the efforts of the Community Council. The council's chairman, Roger L. Kurlinski, also served as drive captain.

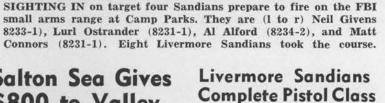
The solicitors were: organization 4581-D. S. Cain, R. E. Mobley and B. L. Workman; organization 4582-I. V. Beall, J. A. Culver, R. E. Fair, S. R. Pickens and Edward Sehn; organization 5262-M. J. Boyer, E. R. Dirnberger and R. L. Kurlinski, and San Felipe Lodge-Lillian Farrants.

#### Material Developments To Be Discussed at Research Seminar

Four speakers from Los Alamos Scientific Laboratory will discuss "Recent Material Developments and Applications" at a Development Seminar Thursday, Nov. 19, at 9 a.m. in Bldg. 815.

The men and their fields of work are James Gore, electrochemical; Gale Hanks, fabrication; James Church, plastics, and Stephen Stoddard, ceramics. All four are from the Chemical and Metallurgical Group.

Tickets are not required for the meeting, according to Fred Sweet (1621), who is in charge of arrangements for the seminar



SANDIA LAB NEWS

PAGE THREE

In the event of a national disaster or emergency at the Livermore Labortary a group of Sandia "minutemen" will be on hand to help maintain security.

Under the guidance of Lurl Ostrander, supervisor of the Physical Security Section (8231-1), five Sandia employees selected by the security division have completed the rigorous FBI small arms course. Three more Sandians will fire the course in the near future, Lurl said.

The first group to qualify on the course were Hal Watson (8212-1), Ken Finders (8221-2), Neil Givens (8233-1), Don Wheaton (8224-1) and Al Alford (8234-2). Firing with them were three members of the Security Division (8231). They were Lurl Ostrander, Matt Connors, and Jim Spirup. Still to fire are Howard Cole (8121-2), Carter House (8213-2), and Arnold Schuknecht (8213-2).

The FBI course requires that each shooter fire 50 rounds in six minutes and 10 seconds, using various firing positions at distances ranging from seven to 60 yards from the target. Guns used for the course were .38 caliber revolvers. The group used a pistol range set up at nearby Camp

High score in the group was attained by Ken Finders, with a total of 98 out of a possible 100 per

#### Military Reservation Open to Hunters

Sandia Corporation employees will be permitted to hunt deer, birds and rabbits on Sandia Base Reservation on designated days during the hunting season.

Any person wishing to hunt must go to the Military Police Duty Officer or Desk Sergeant, Building 220, at least 24 hours prior to hunting. He must show a valid New Mexico license and furnish the following information: name, organization, place of employment, estimated time of departure for withdrawal area, destination within withdrawal area, and estimated time of return.

The withdrawal area will be identified to hunters when they check in with the Military Police prior to hunting.

Following are the type of game and authorized dates for hunting: Deer—bucks only, with rifle, now through Nov. 22, 1959; migratory waterfowl-Nov. 20, 1959 through Jan. 8, 1960; ring-necked pheasant—Nov. 28-29, 1959; quail now through Jan. 8, 1960; rabbits -anytime.

#### Paper Published

The October issue of the Journal of Geophysical Research, published by the American Geophysical Union, contained a technical article jointly written by C. E. Abraham and W. H. Bradford (both 5122).

The article was entitled "Extension of a Definition of Constancy to Noncircular Normal Distributions.'

## Sandians Spend Summer Helping Improve La Madera Skiing Area

for some Sandians.

The ski talk has been mixed in with calculations of rise and lifting power, snarls at balky jeeps, buzz of portable saws, crash of timber and occasional vowl of pain.

The "blood and sweat" routine was assumed on week-ends by many Sandians and other volunteers to make possible a longer ski lift and better trail conditions.

The main project was clearing the line for installation of a 2100 ft. T-bar tow above the existing lift. The tow opens the upper area for skiing to an elevation of 10,100 ft. The new lift has a rise of approximately 400 vertical feet and a capacity of 300 skiers per hour.

Construction engineer has been Art Lawrence (1614) with assistance given by Don Cotter (1260), Ralph Deltenre (5224), Bob Loncharich (5144), Don Rigali (5142) and Ray Harrison (1285).

The other big project was determining location for a trail system, feeding off the top of the new lift, and then clearing the timber and

Avid skiers traditionally spend brush from the trails. Ed Long the summer months talking about (3422) served as trail designer and skiing, but La Madera ski area has his crew included Gurdon Miller turned into a year-'round haunt (5111), Ken Kerns (1240), John Shunny (3423), Dick Claassen (5150), Jim Manweller (1246), Keevin Moriarty (4121), Sedgwick (5143), Paul Delker (3132) and Leon Smith (1310). Manager of La Madera is Ben Abruzzo (formerly of 5512).

The new upper area will permit skiing through May (there was an average of 40 inches of snow in the upper area May 15, 1959) and will disperse the crowd, expected to be larger than ever this year due to improved highway conditions.

The new Aspen Trail is one-half mile long and ends in the upper bowl. There is also a connecting trail from Aspen Trail to Ridge Trail. The new run is 20-30 ft. wide and is suitable for intermediate and advanced skiers and for controlled racing.

Another welcome change at La Madera is a mid-point loading area at tower five of the main lift. This will allow novices fuller use of the lower area yet better facilities and more room for more advanced skiers on the upper slopes.



QUICK AND READY reminders of open safes are these magnetized, plastic cards which were recently distributed by the Security Operations and Information Division 3422. Julie Bode (1283-3) places one of the red, white and black signs on the safe in her office.



REACTOR PRESSURE VESSEL stands in Area III undergoing inspection prior to installation. Sandia's Engineering Reactor Facility is currently under construction and scheduled for completion early in 1961. Cost of construction is placed at \$1,808,600.

# **Building Projects**

rently progressing at Sandia Laboratory is \$4,321,600. Total of completed construction for the year will reach about \$4,269,600. The pace will continue through 1960. On Jan. 1, it is estimated that \$4,967,500 in construction projects will be under way.

Sandia's Plant Engineering Department 4540 is carrying a tremendous load riding herd on the many construction jobs.

Plant Engineering Department submits budget figures to the AEC on all Sandia Laboratory construction projects and generally plans the construction. On the majority of projects such as new buildings, Plant Engineering prepares design criteria and preliminary layouts for use by architectengineering firms employed by AEC Construction Branch, ALO, and contracts for the construction are let by ALO.

On smaller projects, usually totaling no more than \$15,000, Plant Engineering handles all details. Contracts are let through Sandia's Purchasing Organization 4300.

The Department also performs inspection of all construction before acceptance from contractors.



RADIANT HEAT FACILITY in Area III takes shape as workmen work on the inner walls of the environmental test facility. Construction will cost \$279,990 and will be completed in January.



NEWLY ENLARGED AND REFURNISHED reception area in Bldg. 800 is shown in this photo.

Desk at left is reception counter for the many supplier representatives who visit Sandia Lab.



NEW ENVIRONMENTAL TEST LABORATORY Bldg. 861 is virtually completed with only installation of partitions and equipment remaining to finish the project. Here I. N. Humble (4541-1), Plant Engineering Department project engineer for construction; C. F. Bild, manager of Materials Standards Department 1620; B. S. Biggs, director of

Materials and Standards Development 1600, J. F. Reid (4543-3), Plant Engineering project engineer for occupancy of the building, and H. C. Biggs, manager of Physical and Electrical Standards Department 1650, inspect the second floor of the east wing of the building. The three story building is valued at \$1,642,000 and includes cost of moving.



NEW SPECIALTIES BUILDING for the Development Shops (Bldg. 841) is under construction in Area I. Steel framework of the new building is shown in this photograph. Valued at \$977,700, construction project is scheduled for completion about June 1960.

#### Sandians in Tonopah Help Rescue Efforts to Reach Trapped Miners

Sandia men stationed at Tonopah Ballistics Range in Nevada last month assisted in attempts to rescue three miners trapped in a shaft of the Mowhawk silver mine, 50 miles to the northwest.

A. P. Gruer, manager of Test Range Department 5260, made arrangements for installation of a single sideband two-way radio system and a supplemental electric generator.

Ben Edwards and Al Bolles (both 5261) worked through the night after the radio was in operation to provide communications between the remote minesite and Silver Peak, 28 miles away where the nearest telephone was lo-

cated. They took orders for shoring timber and other equipment to be hauled to the scene of the rescue operation.

Later the Sandians helped setup field telephones in different parts of the mine and the mine office at Silver Peak where relatives and friends of the victims were gathered.

The three miners were trapped 300 feet inside the mine when a cave-in occurred Oct. 16. More than 50 volunteer miners from California and Nevada worked in shifts in attempting to reach the trio. Their attempts were called off by safety engineers Oct. 29 due to extreme danger from further cave-ins

Sandia Corporation's Golf Association season ended recently with inter-league playoffs and a handicap tournament at the University of New Mexico golf course.

Winners of the inter-league playoffs were Ed Willett (4321) and Tom Humphreys (4333), champions of the "B" league. They were assisted in the playoff by Dick Othmer (1282).

The three men defeated Tim Butler (5524), Frank Abbott (AEC) and Pat Donovan (AEC), who were winners in the "A" league.

Top men in the "C" league were Lloyd Strosnider (3442), Jim Allman (5143), G. M. Prestby (3442) and Rambert Rivera (3442). Chet Fornero (3153), Bernie Clouse (2632), Jim Kelly (2632) and A. Blain (2232) captured first place in the weekend league.

In the handicap tournament Tom Humphreys won first place with an 88/22-66 total. Ed Willett, with a 78/10-68 and Max Richter (1611) with an 86/18-68, tied for

Two teams tied for the best four-man low ball score. They were composed of Frank Abbott, Dale Massey (5532), Max Richter and J. P. Gaynor (2631), and Jim Leonard (1247), Tim Butler, Paul Syroid (1284) and Ed Vavro (1615), both with net 56's.

There was also a tie for the two man low ball with a net 61. Winners were Tom Humphreys and John Barnhouse (2711), and Harry Wild (2221) and G. W. Guist (4412).

Ed Willett and Jim Leonard tied for low gross with 78's.

Trophies were presented to the winners at a buffet dinner at the Sandia Base Officers Club following the tournament.



NO SILENT BUTLER, Ernie Alford (8223-2) had 13 lines to say in the Livermore Cask and Mask Players' production "The Importance of Being Ernest."

#### **Emergency Water Supply** Facility Completed At Livermore Lab

An emergency water supply for firefighting is nearing completion at Sandia Corporation's Livermore Laboratory.

The \$45,000 facility, which contains 150,000 gallons of water, was built by the John McGosker Company of Berkeley to plans and specifications approved by the Plant Engineering Division (8221), under an AEC contract.

(Water for firefighting in Sandia's technical area comes from a supply operated by the University of California's Lawrence Radiation Laboratory.) The emergency water supply was built to maintain pressure in the lines in the event of a pressure drop between the main supply and the fire hydrants.

The system will be capable of pumping 750 gallons a minute into the lines using a 1750 rpm electric pump or a stand-by gasoline driven pump, operating at 2600 rpm.

Firefighting equipment and personnel are provided by the Lawrence Radiation Laboratory.

#### Cossell, Gabaldon Sandia Doubles Horseshoe Champs

Winners of the Sandia Corporation 1959 doubles horseshoe championship are F. B. Cossell (4512) and F. G. Gabaldon (4573). They defeated J. E. Haaland (5313) and R. D. Brooks (5331) in the finals.

Following are the General Organization doubles champions who participated in the tournament: A. R. Holmes and J. H. Barnum, Jr. (1300), R. J. Sinkey and A. E. Farmer (1500), M. J. Bustos and F. Speakman (2200), S. H. Neff and H. C. Olson, Jr. (2500), L. J. Underwood and L. A. Eversgerd (2700):

P. B. Burns, Sr. and R. J. Mickey (3400), G. K. Carmichael and H. A. Romme (4100), S. Eastman and R. P. Asbury (4200), M. W. Skidmore and H. M. Mac-Neill (4400), F. B. Cossell and F. G. Gabaldon (4500), and J. E. Haaland and R. D. Brooks (5300).

#### **Zottnick Elected** Sandia Basketball League President

R. R. Zottnick (3111) was elected president of the Sandia Corporation Basketball Association for 1959-1960 at an organizational meeting last week. Carl Duimstra (1331) will serve as vice president, and George Banos, Employee Services representative 3122, is permanent secretary.

League play will start Dec. 1, with games being played at Junior High School gyms. Games will be on Tuesday and Thursday evenings at 7:00 and 8:30 p.m.

Mel Otero (2621) is Commissioner of the Basketball Associátion and will rule on any protests which may occur.

Interested participants should contact their recreational representative or George Banos, Ext. 29157.

## Sandia Service Awards 10 Years



William Seelbach 4252 Nov. 14, 1949

James R. Meikle

2632 Nov. 17, 1949

Carl B. O'Dell 4581 Nov. 21, 1949

NOVEMBER 13, 1959



Alfred S. C. Taylor 4254

James H. Lindell

5534 Nov. 21, 1949

William W. Peters 4573 Nov. 21, 1949



Nov. 21, 1949





George H. Mauldin 1314





Jack R. Spence 4335 Nov. 25, 1949

#### Standards Paper Read

A technical paper by W. C. Hunter (1652) was presented at the fourth annual Western Electric Company Test Engineering Department conference in Winston-Salem, N. C., recently.

"Functional Standards and Production Acceptance Testing for the AEC."

#### 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

- Include name and organization.

EMBASSY CORNET w/case, less than two years old; original cost \$109, sell for \$50. Bristor, AM 8-0735.

TEETER BABE, \$3.50; pair of pleated white drapes w/pink trim, 45x63 inches wide, \$7.95. Sedgwick, AX 9-9071, 3421 Parsifal NE.

ELECTROLUX floor polisher; 54 in. beige plastic headboard; boy's blue suit, tan sport coat & slacks, tan coat, all size 16. Bowen, AL 5-6759.

'53 FORD V-8, 4-dr., R&H, overdrive, \$450. Weldon, AL 5-5855.

'47 MOTOR SCOOTER, Cushman Eagle. Sullivan, AX 9-7904, 329 Erbbe NE.

FRENCH POODLE puppies, 3 wks. old; two metal frame twin beds w/springs. Ward, DI 4-2278, 222 Montono Rd. NW.

FUR COAT, Muskrot, size 12-14, or trade for any of following: grandfather clock, upright vacuum cleaner, piano, typewriter. Dossey, AL 6-0857.

'49 CHEVROLET ½ ton pickup to \$200. Durham, AL 6-6284, 2729 lencia Dr. NE.

DRESS FORM, Sears, adjustable, bust 29-36 in., hips 31-38 in., \$6. Overbury, AL 5-7788.

DRAPES, two matching sets for LR, red rose pattern on grey background, full length, 80 inches, \$15. Owens, AL 6-3789. 17" TV, Motorola, w/1 year picture tube warranty, \$60; Hallicrafter S-39 com-munications receiver, \$30. Mills, AX 9-2130, 8027 Princess Jeanne NE.

NORGE REFRIGERATOR, 8 ft., auto. de-frost, has clock in door, \$95. Anez, AX 9-6301.

BABY BED, \$5. Leonard, CH 2-8613, 212

CERAMIC MOLDS will sell individually or all for \$7. Lambert, AL 6-2825.

'53 CADILLAC-62, 4-dr., PS, R&H, hydro-matic; 2-wheel 6x7 ft. trailer w/steel rack. spare tire & wheel. Hueter, CH 2-1620.

CAMPER BODY for 1/2 ton pickup trucks, construction steel construction, screened windows boat rack, inside light, locking tail gate \$150. McClude, AX 9-0592 or AX 9-9405 GAS HEATER, 12,000 BTU/HR., to take

chill off a garage, \$9.50. Baxter, 4-7601, 1610 Bayita Lane NW. TWO UPHOLSTERED CHAIRS, \$25 ea.; TV, \$60; radio w/record player, \$75; two junior beds, \$30 ea. Miller, ext. 52194 after 5 p.m.

'59 MGA ROADSTER, wire wheels, R&H Abarth exhaust system, aluminum valve cover, extras, \$2300; will trade for jeep. Spann, ext. 3-2162.

ACCORDIAN, Scandalli 120 bass, \$150; mahagany Duncan Phyfe dining table, \$15. Anderson, AL 6-4728, 518 Grove NE.

ANTIQUE DINING SET, solid oak, table, 6 chairs, \$25; new muffler & brake shoes for '46 '48 Chevrolet, \$15. Hill, AL 6-1931. BIRD CAGE, equipped w/feeding & watering troughs, other accessories, suitable for canary or parakeet, \$2. Stea. ext. 25292, 3207 D 30th Pl., Sandia Base. ZENITH 14 IN. TV, portable, '58 model, \$65. Baca, AL 5-8452.

CHILD'S PEDAL CAR, 1 yr. old, \$7; singleshot 16 ga. shotgun w/ammo, \$25. Scranton, AX 9-4902, 2522 Gen. Bradley

NE.

58 PONTIAC 4-dr. Super Chief, R&H,
AC, new tires, 2-tone green & white.
Moon, AX 9-1181, 2516 Gen. Arnold, NE.
ELECTRIC RANGE, Hotpoint Deluxe, pushbutton controls, 4 burners, deep well,
timer, etc., \$125. Hunke, AX 9-4557. ANTIQUE DESK, cherrywood, \$150. Taylor, AL 6-3774.

759 MGA, w/w tires, wire wheels & other accessories, \$2450; will consider trade. Sanchez, CH 2-6241 before 1 p.m. 738 DE SOTO, \$75. Welborn, 1204 Mary Ellen NE.

"O" GAUGE LIONEL electric freight train, large double unit transformer, 38 PCS track & accessories, \$70; terms. Fessia, ext. 52164.

59 MERCURY 58-A, 45 HP outboard 4 cylinder motor, w/remote controls, electric starter & generator, extra gas tank. White, AL 5-8491.

WEDDING DRESS and veil, ballerina length, size 10, \$25 w/free garter. Stone, AM 8-8942 after 5:30 p.m.

ELECTRIC RANGE, Hotpoint late model, fully automatic, \$150. Duren, 3713 fully autom Palo Duro NE.

GIRL'S SKATES, roller rink, size 6; child's upholstered rocking chair, play stove, nk and refrigerator. Ault, AX 9-2054. GAS RANGE, Tappan, \$65 or best offer Mall, AX 9-1710, 1927 Vermont St

REFRIGERATOR, Montgomery Ward, 11 ft., cheap. Hanks, AL 6-2917, 824 Alvarado SE.

GAS STOVE, 36 inch, \$20. Claassen, AL THOMAS ORGAN, \$550 or best offer. Potter, AM 8-5451.

LIVING ROOM SUITE, studio lounge cov ered w/nylon frieze, chair covered w/wool frieze, \$75; will sell as suite or individually. Cox. AX 9-0480 after 5 p.m. '48 HARLEY 61 inch, \$150; '57 Indian tomohawk, \$475. Pinnell, AL 6-7080, 3312 Cuervo Dr. NE.

BRASS FIREPLACE SET, screen, andirons wood basket, \$20; trumpet w/case, \$50 colonial maple table lamp, spinningwhee base, \$20. Krieger, 3400 Dakota NE.

MAYTAG wringer-type washing machine two tubs & stand, \$25. Souder, BU 2-3274.

'51 MOTOR SCOOTER, Cushman Eagle accodian, standard 120 bass Nobel 3 bass & 8 keyboard stops. Henderson, AL

SWING & GLIDER SET, sturdy, \$20. Mc-Kinley, AM 8-4779.

#### NEXT DEADLINE

FOR SHOPPING CENTER ADS Thursday Noon, Nov. 19

UPRIGHT PIANO w-bench, \$100; Lionel train, track, transformer & other accessories mounted on board, \$25. Cashion, CH 2-3345, 2811 Monterey SE. LIVING ROOM SET, red, \$30. Phono-radio console \$20. Padilla, AX 9-4043, 2721 Charleston NE.

JEEP STATION WAGON, four wheel drive, 11,000 mi., 4.27 axles, Warn hubs & extras, \$2600. Linn, BU 2-3986.

BICYCLE, Girl's 24 inch, Hawthorne, balloon tires, overhauled this year, \$18. McGehee, AL 6-3486, 1024 Georgia, SE.

BUNK BEDS, GI wooden frame w/inner-spring mattresses, \$35. Houghton, AX 9-3386, 1413 Guaymas Pl., NE. '55 PONTIAC Safari, R&H, PS, PB, Hydro-matic, 6-way adjustable seat, hitch, wiring, brakes for trailer, 35,000 miles, \$1195. Strome, AL 6-3324.

GOLF CLUBS and bags, man's set and woman's set, Wilson and Miss America. Carrick, AL 5-8281.

DINETTE SET 5-piece, large table w/For-mica top and extra leaf, \$25. Littrell, AL 5-4620, 2820 California NE. AUTOMATIC WASHER, Kenmore, \$50. Harper, 1101 Garcia St. NE

AMANA REFRIGERATOR & freezer, \$375; encyclopedias, children's classics w/-bookcase, \$150; 30x40 inch mirror, \$25; RCA radio, \$20. Burbidge, ext. 32289. MAPLE BEDROOM SET, single bed, chest, vanity w/mirror; parakeet, chartreuse, cage & stand; girl's roller rink skates, size 8. Beadersted, AX 9-2829.

3 BRM HOME, den, solarium, two fire-places, garage, patio, sprinklers, fruit trees, walled, SE Heights. Miller, 4006 An-derson Av., AL 5-6387.

ELECTRIC RANGE, Hotpoint, \$100. Beckes, 5-8207. FIREPLACE WOOD, \$25 a cord. Souder BU 2-3274.

HENKE SKI BOOTS, size 5; girl's white figure ice skates, size 6. Bode, AM 8-2157.

PHILIPPINE MAHOGANY, 1/4 inch pre-finish, 2 sheets, 4x8 ft., less than wholesale price; both for \$15. Montoya, DI 4-6222. DEWALT RADIAL SAW, \$100; model rail-road, mounted, 4 remote switches, de-couplers, 4 manual switches, \$40. Miller, AX 9-2736, 1216 Garcia NE.

3 BRM BRICK, pitched roof, central heat, HW floors; low down payment, new FHA loan (current FHA loan 41/4%). McNeely, 2511 Gen. Arnold, NE. AX 9-4232.

'59 ALLSTATE MOTORCYLE, \$250; Relaxa-cisor, \$80; twin size mattress, \$4; parakeet w/cage & stand, \$8; screen door, \$2. Cummings, AX 9-5907.

BOYS SMALL TRACTOR, ideal ages 3-6. Kochmann, AX 9-5133. DOGS—Dalmatian female & her three-month old puppy, will sell separately, both registered, priced cheap. Garrison, DI 4-2023 after 6 p.m.

RADIO-PHONOGRAPH, Motorola w/Hi-Fi enclosure and 12 inch coaxial speaker, \$50. Grab, AX 9-0015, LIVING ROOM SUITE, couch makes into bed, \$65; seven drawer kneehole desk, \$30. Libby, AM 8-2025, 1714 Hermosa

Five Years

Nov. 14-27

Reuben E. Minter 2732, Fred H. Sanders, Jr. 4221, Pablo C. Maes 2711, Allie B. Whitmore 2243, Willard A. Scranton 1411, Joseph Lobato 3441, Walter R. Eden 4511, Margerite T. Karpen 3412, Henry W. Strege 2551, Edmund Beach 2633, Clinton J. Henry 1431.

RIFLE, J. C. Higgins model 51 30-06, used one season; two 25 gallon butane lightweight tanks, one year old. Langston, AM 8-2839.

PLATINUM FOX SCARF, unusually large, \$100. Watterberg, AX 9-0155. GAS STOVE, 36 inch. Willis, AL 5-3860.

ELECTRIC RANGE, 1956 30 inch Frigidair, glass oven door, automatic features, \$125. Conklin, AX 9-3787.

CLOTHES CLOSET, metal magnetic double door w/shelf for storage, \$15. Stephen-son, AX 9-9114. '55 PLYMOUTH V-8 Belvedere, will sell for \$150 under present retail price. Mc-Campbell, AL 6-4156.

AMERICANA ENCYCLOPEDIAS, w/book-case, \$100; photo enlarger, \$15; print dryer, \$5: table tennis set, \$15; girl's ice skates, \$5. Jackson, AL 6-0318.

REVOLVERS German .22, may be fired double action, \$20; Webley combat re-volver, shoots .45 G.l. ammo, \$11. Don-aldson, BU 2-3175.

2 BRM HOME, carpeting, drapes, lawns, shrubs, patios, close to both bases; monthly payments less than rent. Laskey, AL 5-2063 after 5:30 p.m.

'58 VOLKSWAGEN sedan, 16,000 miles, original owner; need \$1600 for real estate deal. McEwin, AM 8-8291.

KARLSON ENCLOSURE, mahogany with 15 inch Jensen coaxial speaker, \$80. Hodges, AM 8-5097. 2 BRM HOME, LR & BR carpeting, pitched roof, walled backyard, lawn w/shade trees, \$10,700. FHA commitment. Garcia, AL 5-6929, 628 Maderia SE.

RECORD CHANGER, Garrard RC-88-4 with sonotone diamond stereo stylus, heavy walnut base. Cost \$87, sell for \$68. Karcher, DI 4-7619 after 5 p.m.

'50 DE SOTO, light blue, 2 door, fluid drive, needs valve work. Parks, AM 8-0875.

WASHER, Kenmore automatic, needs new discharge hose, \$25. 4-0278. Loemker,

ROBERSON 3 BRM, 13/4 bath, 41/2% Gl loan, no qualifying; corner lot, carpet, drapes, forced air heat, AC, WB fire-place. Womack, 1900 Moon St. NE, AX place. v 9-7331.

MOVIE PROJECTOR, 8 mm Keystone K-70, used very little, \$49.50. Mancuso, AX 9-4279.

PICK-UP, 1949 International ½ ton, good body, rebuilt engine, \$250. Hampton, AL 5-8110.

DOUBLE BED mattress, spring and Hollywood frame, \$20. Portable washer, \$5. Nelson, AX 9-0884.

#### WANTED

SEWING—skirts, blouses, drapes, curtains; alterations of all types, reasonable rates. Pierce, AL 5-7923, 6805 Zuni SE. HILD CARE in my home. Wood, AL 5-6383, Northeast Heights.

CHILD CARE for one little girl near age of my 3 yr. old girl. Cafferty, AM 8-0674. TWO RIDERS to share expenses to Galveston, Texas; leaving approximately Nov. 20 and returning Dec. 5. Heimer, AX TRADE 2 BRM home, hw floors, attached garage on large corner lot for small acreage with house. Haley, DI 4-3919.

BABY SITTER living within one mile Hiland High, sitting about nine even-ings per month through March. Abbott, AL 5-4904, 1301 Hermosa SE.

3 BRM HOME, utility room, \$85 plus utilities; across from Adobe Acres, 3605 Santa Anita Rd., SW. Treharn, CH 2-4114. 2 BRM APARTMENT, stove & refrigerator, SE, convenient to bases. Coomer, CH 2-2868.

#### LOST AND FOUND

LOST: Math textbook w/UNM jacket; man's tan unlined cotton jacket w/zipper; Zippo lighter w/name Eton Aircraft Div.; new narrow silver Zippo lighter; keys w/sinker on chain; keys on blue plastic Oden Chevrolet holder; Nash hub cap. Lost and Found, ext. 26149.

FOUND: Blue earring w/black tips; sterling silver necklace; brown leather glove; gold and pearl Swank tie clasp; white knit gloves; gold round earring. Lost and Found, ext. 26149.

#### LIVERMORE FOR SALE

STANDARD ROYAL Typewriter, \$95. Widger, Ext. 2440.

'53 FORD Ranch Wagon, R&H, Fordomatic. \$550 or best offer. Burns, after 5:00 p.m., HI 7-5561.

COMPLETELY REBUILT 1953 BSA 650 cc motorcycle with only 1000 miles. New fires, tanks, seats, wiring and lights. Darmohray, HI 7-3795.

'55 JAGUAR MK-7 Salon, tires new, 37,000 miles, \$1,675. Hollingsworth, HI 7-4327.

heater, and tonneau cover \$2350. Gal-lagher HI 7-5907.

EXPANDAWAY DESK, converts to dining room table, chair to match, limed oak, \$60. Saylors, HI 7-5995 after 5.

'49 PLYMOUTH Special Deluxe 4-door sedan. Purcell, HI 7-4338 after 6.

HOT POINT electric range, full size with well cooker, three burners, \$60. Glaze, HI 7-4167.

USED 4-WHEEL drive Jeep or 4-wheel drive Jeep pick-up. Marcellin, HI 7-2945. USED MEDIUM steamer trunk. Ayen, Ext.



SANDIA LAB NEWS



Roland S. Millican 5262 Nov. 15, 1949



Philip A. Nicovich 4412 Nov. 22, 1949



Mr. Hunter's paper was entitled

FOR RENT

SERVEL GAS refrigerator, 12 cubic ft., frozen food section, \$50. Sites, HI 7-1566.

BABY BED with mattress \$10; two-burner hot plate \$5; fluorescent desk lamp, \$3. Farmer, HI 7-4407.

3 BRM. HOME, 2 bath, double garage, built-in electric kitchen, living room w/firelace, lawns, fences, \$15,500, \$1200 down, G. I. Loan. Murphy, HI 7-4033.

'49 FORD, V-8, overdrive, 2-door sedan, \$195. Peterson, HI 7-5728.

LUGGAGE TRAILER with frame and cover, two swivel wheels, \$60; dinette set with 6 chairs. \$35; baby wardrobe, \$20. Aas, HI 7-3858.

1 De Soto convertible, 6-cyl. \$225. Mafit, OL 6-0681.

LIVERMORE WANTED



FLAG FOOTBALL STARS, the Sandia "T"s, are shown after beating the Sandia Rejects 13 to 7 recently. Kneeling (I to r) are Daren Bainter (8232-1), Jack Simpson (8114-1), Hanloy Quock (8114-4) and Dave Rierson (8114-1). Standing (1 to r) are Don Wagner (8212-2), Hal Watson (8212-1) and team co-captains, Marlin Pound (8212-1) and Mike Ferrario (8114-1). Not pictured are: Ray Gott (8115-2), Ron Puckett (8114-3) and Lee Nation (8114-3).

#### Calendar Scientific and Technical Meetings

Nov. 17 Society of Technical Writers and Editors,

Society of Technical Writers and Editors,
Albuquerque Chapter
Coronado Club, Staff Dining Room
Meeting: 7:30 p.m.
Speaker: Arthur P. Lites (5320)
Topic: "The March of Lithography"
Also two film subjects on photo lithography:
"How To Make a Good Impression" and
"A Better Run for Your Money"
For more information contact Jim Murray or
Dick Jackson (4421), Ext. 39238

Nov. 18

American Society of Mechanical Engineers Triangle Restaurant Dinner: 6 p.m.
Technical Meeting: 7:30 p.m.
UNM EE Bldg., Room 201
Speaker: Murray Kanes,
Director of Engineering,
Friez Instrument Division
Bendix Aviation Corp.
Topic: "Instrumentation for Global Weather Observing and Forecasting"
For more information contact Art Clark (1232),
Ext. 46131.

Nov. 19
American Society for Metals
Hoyt's Dinner Bell
Social Hour: 6 p.m.
Dinner: 6:45 p.m.
Technical Meeting: 8 p.m.
Speaker: Earl R. Parker.
National Trustee of ASM
Topic: "Recent Development in
Materials Research"
For more information contact H. R. Holmes
(1621), Ext. 31258

Nov. 19
American Society of Safety Engineers—
American Welding Society—Joint Meeting
Leonard's Restaurant
Dinner: 6:30 p.m. (ladies invited)
Technical Meeting: 7:30 p.m.
Speaker: Robert Mitchell
Industrial Hygiene Group, Health Division,
LASL
Topic: "Health Hazards in Welding"
For more information contact V. G. Nelson
(1621), Ext. 32246

American Society of Tool Engineers
Leonard's Restaurant
Dinner: 7 p.m.
Technical Meeting: 8 p.m.
Speaker: E. S. Roth (2562)
Topic: "Positional Tolerance and Maximum
Material Condition"
For more information contact Doug Spence,
CH 7-0361, Ext. 457

Nov. 24
Institute of Aeronautical Sciences
Kirtland AFB Officers' Club
Social Hour: 6 p.m.
Dinner: 7 p.m.
Technical Meeting: 8:15 p.m.
Speaker: Alan Pope (5140)
Topic: "Aerodynamic Research in Europe"
For more information call Roger Tate (5144),
Ext. 39254

Amateur Radio Caravan Club of New Mexico
Lovelace Clinic Radiation Lab
Meeting: 8 p.m.
Program: Discussion of new plans and programs for coming year. Presentation of prize
to winner of treasure hunt on Nov. 11.
For more information call Bob Foster (1651),
Ext. 27231.

This information compiled by New Mexico Council of Scientific and Technical Societies.

Scientific and Technical Meetings

Scientific and Technical Meetings
Nov. 16

American Institute of Industrial Engineers
Sandia Base Officers' Club
Social Hour: 6 p.m.
Dinner: 6:45 p.m.
Technical Meeting: 8 p.m.
Speaker: J. P. Molnar, President,
Sandia Corporation
Topic: "The Industrial Laboratory"
For reservations contact J. W. Sims (4111),
Ext. 31173

Nov. 16
IRE Professional Group on Space Electronics and Telemetry
Hospitality Room, Albuquerque National Bank,
Washington and Central NE
Technical Meeting: 7:30 p.m.
Speaker: Lt. Col. James L. Beaver II,
Kirtland AFB
Topic: "AFSWC High Altitude Rocket
Sounding Systems"

Nov. 16
Society for Nondestructive Testing,
Los Alamos Section
Los Alamos Golf Club
Dinner: 6:30 p.m.
Technical Meeting: 8:15 p.m. at Los Alamos
Health Research Laboratory Auditorium
Speaker: E. W. Milburn, Manager,
Western Zone Sales, X-ray Dept.,
Industrial Section, General Electric Co.,
San Francisco, Calif.
Topic:
"Non-Radiographic Applications of X-rays"
For more information call K. MacMillan,
Los Alamos 79

Nov. 17

Nov. 17
American Meteorological Society
Room 253, Administrative Bldg., UNM Campus
Technical Meeting: 7:30 p.m.
Speaker: Dr. William C. Spreen
Topic: "Air Weather Service Climatic Center"
Refreshments will be served. Public invited.
For more information contact B. N. Charles
(5121), Ext. 48161

Nov. 17
Institute of Radio Engineers Section Meeting (Sponsored by PGNS)
Radiation Laboratory, Lovelace Clinic Technical Meeting: 8 p.m.
Speakers: Drs. White, Grossman and Lovelace Topic: "The Medical Aspects of Radiation" For more information contact R. C. Spence (5223), Ext. 23249

Nov. 17
Instrument Society of America
Western Skies Hotel
Luncheon: 12 noon
Tour of Ideal Cement Co. Tijeras Plant
I to 2 p.m.
Speaker: Robert Biggs, Plant Manager,
Ideal Cement Co., Tijeras Plant
Topic: Operation and Process Control
of the Tijeras Plant
For reservations contact Victor Meyers,
AX 9-4149 or AM 8-2474

#### Welcome Newcomers

Albuquerque

Oct. 26-Nov. 4

Anna I. Carlin	5544
Lois W. Class	3423
Alfredo Chavez	
J. D. Creek	5536
William C. Crosley	4111
Sally M. Donovan	3120
Phyllis A. Eskew	3126
Mary A. Fergesen	3126
Marjorie A. Geisler	3126
Diego Gonzales	4574
*Thomas J. Hoban	
Helen M. Johnson	
Harriette J. Melton	3461
Marilyn N. Overton	4132
Emery Postenrieder	3400
M. Frances Robards	3120
Donna J. Scepold	3120
Dick M. Shead	4413
Arizona	2450
Darrel E. Riggs, Tempe	3452
Californ'a	0000 1
Bobby G. Allen, Santa Cruz	3212-3
	8114-5
	3232-1
	3224-2
	8222-1
	8222-1
	8223-1
	3212-3
Illinois	3212-3
Walter Selig, Chicago	3115-2
Indiana	
Franklin L. Paris, Jr., Lafayette	5141
Ohio	
Wayne G. Ebaugh, North Canton	4411
Oklahoma	
Cecil M. Morrisett, Oklahoma City	4543
Wisconsin	2002200
Howard C. Phillips, Janesville	4254
* Denotes Rehired	
Returned from Leave	
Margalee M. Parkhurst, Albuquerque	4413
Larry R. Alton, Livermore, Calif. 8	5143-2



T. A. KANNEMAN (1264-2) working under the Educational Aids Program for a Master's degree in electrical engineering will complete the requirements by June 1960. He said, "I feel it is a necessity for a person in a technical field to study different approaches to his chosen pursuit and to remain proficient and up-to-date. Although formal schooling is not the only way to accomplish this, for myself it seems the best method."



C. J. MacCALLUM (5150) is currently in his fifth semester under the Educational Aids Program and nearing completion of work for a PhD degree in physics. He said, "Primarily because I desire a PhD degree. While this is not important as it affects my present job, it may be important in the future. I like to keep in contact with academic life and will probably maintain some connection even after obtaining my degree."



LEO H. BRESSAN (1652) is currently enrolled in an Electronics V class in the Evening School. In the past he has completed other courses in the Evening School and at the University of New Mexico. He said, "My reason for going to night school is to gain additional knowledge and experience beyond the requirements of my job. I find the classes interesting and beneficial. If you don't grow as an individual, you're wasting your time," he added.

The Inquiring Reporter Asks

# Why Do You Continue School While Having a Full Time Job?

Some 1,369 Sandians are currently enrolled in classes in three educational programs sponsored by Personnel Research, Training and Education Department 3130.

This is 19 per cent of employees at Sandia Laboratory. Such a large scale "urge to learn" is the result of the special climate at Sandia. Sandians participating in the work of the nuclear weapons program utilize a tremendous accumulated technical knowledge. The work itself has long been labeled "on the frontier of knowledge."

The result is a drive for selfimprovement, an effort to gain more knowledge for use on the job and as a satisfaction to the individual employee.

Coupled with this drive is an active policy of the Corporation to encourage employees to expand their education. Under the Educational Aids Program employees are encouraged to continue university work. Sandia pays half of tuition costs, with some time off the job provisions for students to attend classes. Five hundred Sandians are currently enrolled in this

The Sandia Evening School provides facilities and instructors for many courses of special interest to employees that are not available elsewhere in the community. Typical of these courses would be electronics, blueprint reading, and welding. Employees currently enrolled in this program number 465.

Staff Technical courses are conducted out-of-hours, mainly during the noon hour. Corporation employees are instructors for these college level studies that include such courses as machine design, analytical geometry, differential equations, technical Russian, and fundamentals of tran-



DENNIS HAYES (3462) working under the Educational Aids Program for an electrical engineering degree said, "I go to school because my real interest is in a field that requires a college education. I'm fortunate to be able to work a night shift in Sandia's print shop and take classes during the day. My job is a good one but my ambition is doing research in electrical engineering or physics."

sistor applications. College credit is not given for these courses but successful completion is recorded in the employees personnel record as in the case of students in the Evening School. Some 404 Sandians are enrolled in this program.

Benefits to the employee for participating in the program are many and varied. Foremost is the satisfaction of self-improvement and educational growth of the in-

At Sandia it's recognized that



G. C. BEATRICE (4412) who has taken Evening School courses since Sandia began the program is currently enrolled in Welding II and Shop Metallurgy. He said, "My experiences have taught me that with new advances in all fields of work you must keep up with new and better methods of doing things. Attending school is the one way of obtaining this."

experienced employees, who develop skills and knowledge on the job and through additional study, are better prepared to take on more responsibility and advance when opportunities occur

Typical of Sandians furthering their education are the five interviewed here. Most of them are married and have families but still find time for the necessary study at home. Although varying slightly their answers point to the reasons for continuing school when they work full time.

Christmas Fast Approaching . . .

# Organizations Planning Charity Projects

The Christmas season of giving is fast approaching and Sandia employees are again planning their annual charity projects in lieu of exchanging cards with coworkers.

The Salvation Army, Department of Public Welfare, Catholic Charities and Elks Club will cooperate in locating families needing help. Their needs will then be listed with the Albuquerque Council of Social Agencies, which will.

again serve as a "clearing house" for donors and recipients.

As was the case last year, the names of individuals and families in need of food or clothing will not be given out in order to avoid embarrassment to individuals and to insure privacy for those who do not wish to be identified as objects of charity.

Another Council service will be to help extend the benefits of December giving through the

other 11 months of the year. It was pointed out that there is a year 'round need for imperishable food and clothing to be distributed to less forutnate families.

Cash contributions are especially welcomed by the Council or any of the four agencies coordinating the Christmas program. Oftentimes special food or clothing is needed and must be bought.

Many Sandia organizations are already appointing committees to handle details and plan the type of donation for their particular groups.

Last year, ideas for Christmas giving were abundant and included food baskets, toys, clothing, CARE packages, and cash donations. Many groups gave cash and gifts to the Bernalillo County-Indian Hospital, All Faiths Home, St. Anthony Boys' Home and others. One organization provided milk for a family for a year.