

# GIVE



## THE UNITED WAY

POSTER for this year's United Fund drive expresses family unity and protection. The United Fund drive provides contributions for the 24 agencies that are included in the Community Chest.

SANDIA CORPORATION  
SANDIA BASE, ALBUQUERQUE, N. M.

S. P. SCHWARTZ  
PRESIDENT

TO ALL SANDIA LABORATORY EMPLOYEES:

Sandia Laboratory's all-time AEC safety record of 14,936,169 employee-hours representing 417 days without a disabling injury was terminated as of September 6, 1960, when an electrician bruised his knee while descending a power-line pole.

The AEC Health and Safety Office at Washington, D. C., ruled that the case should be included statistically by their interpretation of the Code and this ruling was accepted by the Corporation.

I urge each of you not to let the termination of this record detract from the outstanding achievement to which all of you contributed, since your safety-mindedness made it possible to achieve a goal which only a relatively few years ago would have been considered a dream rather than a reality.

All of you, working together, have demonstrated what can be accomplished and this should spur each of us on to demonstrate that our safety record can be repeated and even surpassed, thereby proving that "it was not an accident."

My congratulations and appreciation to each of you.

*S. P. Schwartz*

## Nine Health Service Agencies Helped by Sandia ECP Drive

In addition to the 24 member agencies of the United Fund, Sandia Laboratory's fund drive also benefits nine local chapters of national health service agencies. Those agencies, the allocation they will receive from the forthcoming SLECP fund, and their purposes are:

**Albuquerque Association for Mental Health—1.0%**

Conducts statewide "Workshop for Clergymen" on counseling for the mentally ill; provides volunteers for recreational therapy for psychiatric patients in Bernalillo County-Indian Hospital; provides information on mental illness to families and furnishes speakers for discussion groups.

**Albuquerque Association for Retarded Children—1.6%**

Has established Development Center for diagnosis and special testing of retarded children; assists public school teachers in obtaining special training; provides information and guidance to par-

ents of retarded children.

**American Cancer Society—7.1%**

Consultation service in Bernalillo County-Indian Hospital serves all hospitals; Tumor Clinic gives medical aid for indigent patients; information center for diagnosis and treatment of cancer.

**Bernalillo County Heart Association—5.2%**

Free cardiac clinic offering diagnosis, examination, and medical advice for heart patients; information on heart diseases; visiting nurse service.

**Cerebral Palsy Association of Bernalillo County—3.0%**

Complete rehabilitation program for individual patients regardless of nature of their handicap; clinic for diagnosis and treatment of afflicted persons.

**Muscular Dystrophy Association of America—1.3%**

Physio-therapy treatments and special equipment are furnished for victims; special educational

## 650 Volunteers to Help Make 1960-61 ECP Drive Big Success

Sandia Laboratory's 1960-61 Employees Contribution Plan drive starts Friday, Oct. 14. It is expected that the major portion of the campaign will be completed by the end of the workday, Oct. 18.

Using the slogan "One For 33," members of the committee planning the drive are urging each employee to give the equivalent of one day's day which benefits 33 agencies assisted by the ECP.

Approximately 650 volunteer solicitors will contact every employee at Sandia Laboratory.

Funds raised will be distributed among the 33 health, charity and welfare agencies throughout the 12 months after the drive. The agencies are listed elsewhere in this issue of the

Lab News. Twenty-four of them are members of the Albuquerque United Fund and nine are independent health service agencies.

This year each employee will be visited by a solicitor. In doing so, the committee hopes to encourage employees to carefully reassess their contributions. Many contributions have remained unchanged for several years.

Employees who join the Employees Contribution Plan or increase their current contribution during the drive will be asked to fill out a card which authorizes payroll deductions on a year-round basis. However, employees may join the Plan by making one cash gift if they wish.

Members of the Plan give at

least 25 cents a week, or \$1 per month for a minimum of \$12 annually. The average contribution last year for Plan members was \$23.

Employees who are ECP members through the payroll deduction plan will receive window stickers listing the agencies to which they are contributing and also wallet-sized cards identifying them as ECP members.

Sandia employees have made previous ECP drives highly successful. In the three years the \$300,000 has been operated more than \$100,000 has been pledged to the agencies included in the Plan.

During the campaign, Room 116 in Bldg. 836 is being used as headquarters. Telephone number for the headquarters is 52232.

# Sandia Corporation LAB NEWS

ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

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OCTOBER 14, 1960

## Distribution of '59 Funds to Be Finished Nov. 30

Just how much money is given by Sandia's ECP drive to each agency, is a question frequently asked by employees.

Since donations for the current contribution year will extend through Nov. 30, 1960, it is necessary to estimate the final figures. Included in the amount for the 24 agencies served by the United Fund campaign is \$9,000 contributed by the Corporation.

United Fund	\$ 97,230
Cancer Society	9,280
Heart Association	6,223
Crippled Children	5,489
Cerebral Palsy	3,613
Arthritis & Rheumatism	2,050
Retarded Children	1,888
Muscular Dystrophy	1,693
Multiple Sclerosis	1,217
*Misc. Agencies	705
Reserve	1,079

Total .....\$130,467

\*Amount contributed by individuals to specific agencies.

The division of the fund is determined by the amounts raised by the various agencies in their separate drives in the community.



CHILDREN USING a walker, shown above, are learning to walk again with the help of braces. This special equipment is among the facilities at the New Mexico Rehabilitation Center where crippled children and adults, multiple sclerosis and cerebral palsy patients are given treatments and therapy for their afflictions.

## Sandia Employees at Livermore Set New Record in United Crusade Drive

The United Bay Area Crusade tallied \$9,711 from Livermore Laboratory employees in the 1960

campaign, according to a final report by Ken Purchase (8213-2), treasurer of the in-plant drive. This figure exceeds the previous high in 1959, and shows an average donation of \$14.26 per contributing employee.

"All drive workers and contributing employees are to commended for their efforts and cooperation in the campaign," said Dick Cook (8116-4), chairman of the Livermore Laboratory drive.

The funds raised will be distributed among the 263 United Crusade agencies serving Alameda County and Bay Area. Some Livermore agencies directly benefiting are the Community Chest, Welfare Council, Family Service Agency, Salvation Army, Retarded Children, YMCA, YWCA, Boy Scouts, and Girl Scouts.

## What Should I Give . . . ? Monthly-Paid

If Your Monthly Pay Is:	Giving "1 For 33"		Suggested Monthly Payroll Deduction Is:
	One Day's Pay Would Be:	Monthly Payroll Deduction Is:	
\$300	\$13.80	\$1.00	\$1.00
400	18.40	1.50	1.50
500	22.99	1.75	1.75
600	27.59	2.25	2.25
700	32.18	2.50	2.50
800	36.78	3.00	3.00
900	41.38	3.25	3.25
1000	45.98	4.00	4.00
1200	55.17	4.50	4.50

## Weekly-Paid

If Your Weekly Pay Is:	Giving "1 For 33"		Suggested Weekly Payroll Deduction Is:
	One Day's Pay Would Be:	Weekly Payroll Deduction Is:	
\$65	\$13.00	\$.25	\$.25
80	16.00	.30	.30
90	18.00	.35	.35
100	20.00	.40	.40
110	22.00	.45	.45
120	24.00	.50	.50
140	28.00	.55	.55
150	30.00	.60	.60

\* deducted 48 weeks per year

## ECP Committee Chairman Speaks



"Not to have participated in the events of one's time is not to have lived at all." This quotation attributed to Oliver Wendell Holmes points the way for all of us at Sandia Corporation. Our task at Sandia is so closely connected with world events that we often neglect our participation in events closer at hand. Too, the complex life of today denies to us many of the opportunities to participate as fully as our ancestors.

In the past, everyone shared in the community tasks and lent his or her talents to the job. Neighbor assisted neighbor in building houses and barns. Building of hospitals and care for the sick and underprivileged was personally shared in by all. Although today it is impractical for us to share personally in community tasks such as these we can participate by putting our dollars to work in our places.

This year through participation in the Employees Contribution Plan we all have the opportunity to support our community by giving once for 33 agencies. I hope that employees who have not yet joined the plan will seriously consider joining this year. Those of us who are now members of the plan need to review our pledges and contribute our fair share for the coming year.

W. R. Rosenburg

## New Mexico — Where?

Deduct one state from the nation's roster. Alaska and Hawaii no longer have difficulty being identified as one of the United States, but New Mexico is still a foreign country.

A recent request by James Weber (5133) for information from an industrial supplier in Des Plaines, Ill., resulted in a reply from the firm's export manager suggesting that "our representative in your country — Mexico" be contacted.

Apparently "Albuquerque" was too much for the typist. The letter and envelope bore the original spellings: "Alburque" and "Alburquerque."

## Congratulations

### Born to:

Mr. and Mrs. Jay W. Grear, Jr. (1432-4) a son, Brian Phillip, on Sept. 11.

Mr. and Mrs. K. L. McClelland (2716-2) a son, Matt Darren, on Sept. 12.

Mr. and Mrs. J. E. Van Meter (5131) a son, David Carl, on Sept. 24. Lou formerly worked in 5131.

Mr. and Mrs. Everett L. Westfahl (1414-1) a daughter, Ann Elaine, on Oct. 3.

Mr. and Mrs. Don Fjelseth (1121) a son, Brian Evan, on Sept. 18.

Mr. and Mrs. Leon Smith (1310) a son, Philip Owen, on Sept. 22.

Mr. and Mrs. R. K. O'Neill (7521) a son, Robert Scott, on Sept. 11.

Mr. and Mrs. J. M. Mellinger (8115-2) a daughter, Julie Anne, on Sept. 23.



Hanne Rose (8161-3)

## Take a Memo, Please

A SURE GOOD WAY to avoid accidents is to put off until tomorrow the things you should never do in the first place.

## Hazel Vance Sees Passion Play While On European Tour

Viewing the day-long Passion Play in Oberammergau, Germany, was a highlight of Hazel Vance's (7241) recent six weeks in Europe.

"The seats are covered and so is part of the stage where most of the tableaux are presented. However, the chorus of 50 stood in the open, singing as if the sun were shining instead of the rain pouring down," she recalled.

The Passion Play is only presented once every 10 years with most of the residents of the tiny southern Bavaria village participating. The cast for the leading roles is chosen by secret ballot by a special committee. This year 30 additional performances had to be scheduled due to the great demand for tickets.

Hazel flew to Edinburgh, Scotland, to attend a world convention of the Christian Church. She was a delegate from the Monte Vista Christian Church in Albuquerque. More than 4000 persons from different countries attended the conclave.

Afterward Hazel joined 75 other delegates to visit Holland, Brussels, Germany, Switzerland, France and Italy.

"The very heavy rains in much of Europe this summer limited our activities," she said, "but there still was plenty to see and do."

## Union Presidents Endorse Sandia's Employees Contribution Fund Drive



Edsel L. Gunn



John C. Ivey



Harold E. Burrell

To Sandia Employees:

Speaking for the members of the unions we represent, we are proud and enthusiastic in our support of Sandia Laboratory Employees Contribution Plan drive. Our cooperation with these Sandia drives in the past has helped make them successful.

We urge all employees to contribute to the 1960-61 SLECP drive and make it the most successful of all. We heartily endorse the idea of giving a day's pay for the benefit of the 33 agencies represented in the drive.

This method is the easiest way to fulfill our responsibilities to the needy of the community. Nowhere do our dollars go farther and do more good.

All of you are urged to review your personal contribution budget this year and give once and for all.

Edsel L. Gunn  
Office Employees  
International Union  
Local 251, AFL-CIO

John C. Ivey  
Local 27  
International Guards  
Union of America

Harold E. Burrell  
Metal Trades Council  
AFL-CIO

## Correspondent Reports

### Hurricane Donna Slightly Damages Cocoa Beach

Hurricane Donna, the nasty lady of the Atlantic Ocean, sent out her messengers to Sandia Corporation's site at Cape Canaveral, Fla., but did not visit them personally, reports the Lab News Cocoa Beach correspondent, Letha Stewart.

Times were tense and Donna had Floridians worried as is indicated in the following report on the hurricane sent to the Lab News by Letha.

Here is her day-by-day report:

#### Thursday, Sept. 8

The Cape Canaveral, Cocoa Beach, Cocoa Area was alerted to Hurricane Condition 4, or Hurricane Watch.

#### Friday, Sept. 9

Sandia Corporation personnel were busy keeping the storm plotted on a special hurricane map most of the day. When we left work at 4, it was headed directly for the Florida Keys, and it seemed to be heading for the Gulf, so no one here was particularly worried.

#### Saturday, Sept. 10

At 9:30 this morning the area was placed in Hurricane Warning Area, or Condition 3. Early this morning, V. Keith Smith, Cocoa; Robert D. Pace, Cocoa; Paul Roper, Cocoa; William Gault, Cocoa; Watson Snyder, Cocoa Beach; and Miles Leeman on travel from Albuquerque, all came out to our Sandia Building and moved things off the floor, removed antennae from the top of the building, and generally secured the building.

Approximately 2,500 persons evacuated the Cocoa Beach area for Cocoa, and other mainland cities.

Letha Stewart, secretary, who

lives right on the beach at the MAR-ROY in one of the homes nearest the Cape, chose to stay home and hold on tight. About 20 sheets of plywood were boarded over the large plate glass windows of her residence.

The winds were high and rain squalls persisted throughout the afternoon and evening.

#### Sunday, Sept. 11

The crisis of the storm, with winds variable from 100 to 120 mph, came about 1 today, which coincided with a high tide, but the crisis passed, and the tides did not rise much above normal. The closest the "eye" or center of the storm came was about 30 miles west of Orlando or about 90 miles west of the Cocoa Beach-Cocoa area.

Although Key West, Fort Meyers, Daytona Beach, and many other areas in the state received severe damage, the area here received minor damage. The personnel from our Sandia office all survived their first hurricane with only minor damage to their yards.

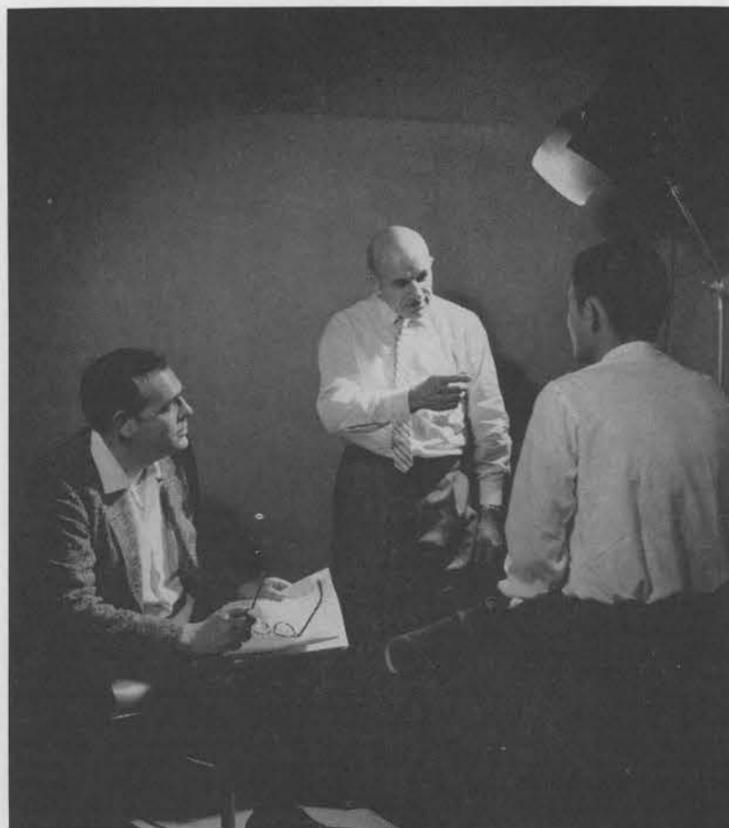
Many baby sea turtles were found on the beach. This was a most unusual phenomena, as the baby sea turtles usually hatch and go directly to sea before anyone sees them. These sea turtles weigh from 200 to 500 lbs. when full grown.

#### Monday, Sept. 12

Business in the Sandia office as usual and the antennae were replaced on the top of the Sandia building.

## Sympathy

To John W. Bowers (4152-2) for the death of his mother in Harlingen, Tex., recently.



REHEARSING A SCENE in "Caesar's Tower" are Les Rowe (8220), center, and Bob Harks (8233-1), right. The original play by Livermore author-director Bill Hayden, left, is being produced by a local theater group Oct. 26 through 29. The plot is based on the last 74 days in the life of Marie Antoinette, Queen of France.

## Sandians Have Roles in Livermore Author's New Play 'Caesar's Tower'

When the curtain rises Oct. 26 for the "world premiere" of "Caesar's Tower," an original play by Livermore author Bill Hayden, two Sandians will have part in the production.

The play, revolving around the last 74 days in the life of Marie Antoinette, takes place in France during the latter part of the French Revolution. Les Rowe (8220) is cast in the role of the prison administrator who attempts to free the captive queen, while Bob Harks (8233-1), the public prosecutor, plans for her beheading.

The play's author, who has a wide theatrical background, will also direct the show. Caesar's Tower will be the first original play produced by the Livermore Cask and Mask Players.

Les Rowe began his interest in Cask and Mask activities several years ago. Since then he has had a major role in the group's production of Kauffman and Hart's comedy "You Can't Take It With You," and parts in several work-

shop productions. Bob Harks has been active in theater work since 1943 when he appeared in high school productions. This performance will mark his first with the Livermore organization.

The two-act play will be staged in the Livermore High School auditorium for four days ending Oct. 29. Tickets are \$1 and may be obtained at the door, from Books Universal in Livermore, or any Cask and Mask member.

## W. G. Jenkins Hurt in Utah Auto Accident

William G. Jenkins, former manager of the Packaging and Stores Department at Sandia Laboratory, now on leave from the Corporation, was severely injured in an automobile accident Oct. 2 near Tooele, Utah. He is being treated at Tooele hospital for injuries to his back and chest, complicated by pneumonia. His wife received minor injuries in the one-car accident.

Sandia Corporation  
**LAB NEWS**  
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# Albuquerque United Fund Drive Goal up to \$666,666

By contributing to the SLECP fund drive, Sandians will also assist the 24 agencies included in the Community Chest.

This year the Community Chest United Fund drive has set a goal of \$666,666, an increase of more than \$186,000 over the amount raised last year.

For several years the UF agencies have been shorted in operating funds because the drives have not produced the needed money. This year a strong effort is being made to "raise the sights" of the community and put the drive on a sound basis, with enough money to enable the agencies to function effectively.

The Albuquerque Community Chest, Inc., was organized in 1934 with seven agencies, which are still members.

The present participating agencies and the money to be raised in the current United Fund drive which they feel is needed to provide adequate service are:

## Albuquerque Boy's Club—\$24,115

Any Albuquerque boy between 8 and 16 is eligible for membership regardless of his race, creed, color, or economic station. Strives to build health, develop skills, tolerance and character in boys through individual guidance and counseling and a full program of sports.

## Albuquerque Child Guidance Center—\$25,000

Clinical services including consultation with parents in connection with guidance and counseling in behalf of children with emotional problems. Psychiatrists, pediatricians, psychologists, and psychiatric social workers comprise the psychiatric clinic, aided by neurologists, speech therapists, and reading therapists for special problems.

## Albuquerque Travelers Assistance—\$15,700

An organized social service for travelers requiring assistance: those stranded without money or friends, children traveling alone, and servicemen and their families.

## American Red Cross—\$133,210

As part of an international organization, the activities encompass a wide variety of activities: disaster relief including both emergency and rehabilitation services; home service including counseling in personal and family problems; health services including first aid and water safety training problems, and service as a civilian auxiliary of the armed forces.

## American Social Health—\$949

Protects American communities from disease and vice. Support in Albuquerque is pro-rated on basis of the population since there is no chapter representation here.

## Boy Scouts of America—\$50,835

Develops physical fitness and high moral stature of boys between eight and 18 years of age, regardless of race, color or creed.

Programs, administered by volunteer adults, strive to inspire a love of the outdoors, teach patriotism and loyalty, and built character and spiritual qualities.

## Camp Fire Girls—\$29,234

Program is designed to perpetuate the spiritual ideals of the home and to instill wholesome habits that make for good health and fine character. Outdoor heritage of the American Indian is woven into the program.

## Catholic Charities, Inc.—\$29,606

Services are given to the needy of all faiths and emergency financial help is available in special cases when the family is not eligible for public or private welfare assistance. Generally its work focuses mainly on emotional problems resulting from marital, family, and juvenile conflicts and the welfare of unmarried mothers.

## Chaparral Girl Scouts—\$35,280

Girls between seven and 18 years of age are eligible for one of this group's programs in agriculture, arts and crafts, community life, health and safety, homemaking, international friendship, etc. Emphasis is on developing wholesome womanhood, good citizenship, high moral attitudes and spiritual fibers.

## Christina Kent Day Nursery—\$8,000

Care for children of the working mother in a wholesome home environment, supervised by a registered nurse. Solace, also, for the child from a broken home or whose parents are in need.

## Council of Social Agencies—\$14,157

Formed of all social welfare agencies in Albuquerque and Bernalillo County, it promotes citizen teamwork in civic, benevolent, charitable, public and private social welfare organizations. It counsels on the undertaking of new work by existing agencies and the formation of new ones. It studies community conditions through research and compiles material vital to future social planning.

## Family Consultation Service—\$21,665

Studies all factors contributing to family dissension in assisting in solving marital problems. Promotes forces in the community that influence improvement of economic and social conditions within the family unit.

## Frances Lynn Home—\$8,000

Care for the unmarried mother and rehabilitation of each girl so she may resume her place in normal society. Assistance with adoption proceedings is given if desired.

## Legal Aid Society—\$16,973

Legal aid and advice to those unable to pay for it. Society director is an attorney who has occasional volunteer help.

## Martineztown House of Neighborly Service—\$13,056

Seeks to inspire better citizenship among the children of Martineztown and to build a better community spirit among the adults through recreation, health,



MORNING NURSERY SCHOOL is one of the many Neighborly Service. Recreation and activities are available for all ages in a planned program of events.

arts and crafts, and informal group meetings. Sponsored by the Presbyterian Church.

## National Social Welfare Assembly—\$333

No local chapter. Coordinates social welfare programs throughout the U.S. and gives guidance to formulating local welfare activities.

## New Mexico Hearing Society—\$8,993

Classes are offered in lip reading, audio training is given and expert advice is offered on hearing aids to assist the hard of hearing in getting along better in everyday life. Pre-school nursery is operated for hard of hearing children. An affiliate of the American Hearing Society.

## St. Anthony Boys' Home—\$30,000

Cares for homeless, neglected and abandoned boys through the eighth grade. The boys work in farms or gardens, care for livestock, learn trades and assist with light housekeeping chores. Recreation facilities are available.

## Salvation Army—\$30,000

Well-planned program serves all age groups: youth activities include music, crafts, and recreation; adult groups specialize in sewing and handicrafts. Religious services and an international network for locating lost and missing persons benefits all.

## Special Education Center—\$6,000

Physical or emotional problems in children or adults receive direct help. Children with speech handicaps, physical disabilities, maladjusted personalities, reading disadvantages and other exceptional problems are treated individually and in groups.

## U.S.O.—\$13,636

Provides a sociable setting for the serviceman to spend off-duty hours and engage in wholesome and healthful recreation. Helps with personal problems.

## Visiting Nursing Service, Inc.—\$18,500

Nursing service to those who cannot afford such professional help. Also provides professional service in emergencies.

## Y.M.C.A.—\$41,495

A voluntary organization of young people and adults who participate in or sponsor nearly 150 activities and services. Fellowship clubs thrive under the "Y" program and multiple social, educational and religious activities are carried out. No worthy boy or girl is ever refused membership privileges for lack of funds or considerations of race, color, or creed. A residence for men.

## Y.W.C.A.—\$29,507

Activities for girls and women, from 10 to 80, and sometimes men, toward better citizenship and a fuller life. An important function is providing housing for girls away from home. Girls with problems may find guidance and counsel.

## Sandia Scientists Speaking Before Chemistry Conference in Santa Fe

Authorities in the field of radiation protection are meeting in Santa Fe today and tomorrow for the Sixth Annual Bio-Assay and Analytical Chemistry Conference.

Program chairman for the meeting is R. G. Elsbrock, supervisor of Industrial Hygiene Chemistry Section 3311-1.

The conferees are coming from all parts of the U. S. to discuss the measurement of radioactive and toxic materials in man and his environment. Also discussed will be problems associated with the protection of workers in atomic energy industries from hazards of radiation.

In addition to several speakers from Sandia Corporation, there will be representatives from Los Alamos Scientific Laboratory, Oak Ridge National Laboratory, Lawrence Radiation Laboratory, U. S. AEC Idaho and New York Operations Offices, Argonne National Laboratory, Mallinckrodt Chemical Works, University of Rochester.

Dr. S. P. Bliss, Medical Director 3300, will give the welcoming address. "A Technique for Obtaining Particle Activity and Size Distributions" is the title of a technical paper to be presented by Maynard Cowan (5131) during one of the sessions.

Other technical papers to be presented by K. C. Humpherys (1132), J. D. Shreve (5111), J. L.

Colp (1131) and A. W. Snyder (1132), were previously reported in the Lab News.

## Sandia Lab ECP Drives' History One of Success

A steady increase in giving characterizes Sandia Laboratory's successful charity drives in past years—both in total amount contributed and in the average gift of each donor.

The largest increase was noted in 1957 when the Employees Contribution Plan was adopted making it easy for employees to spread their donation through year 'round payroll deduction and benefit the Albuquerque United Fund agencies as well as local chapters of several national health service agencies.

This is the record of employee giving in previous Sandia fundraising campaigns:

Year	Total Contributions	Average Gift per Contributor
1959	\$121,467*	\$20.75*
1958	111,668	19.16
1957	96,100	18.00
1956	64,000	11.03
1955	49,261	8.67
1954	40,746	6.80
1953	38,783	6.66
1952	33,163	6.58
1951	20,259	5.25
1950	10,000	4.90

\*Estimated



HELPING CHILDREN with their hearing problems is one of the functions of the New Mexico Hearing Society, a member of SLECP. The Society also offers classes in lip reading, gives advice on hearing aids, and helps with overcoming psychological problems created by hearing defects by using group therapy and other methods.



BY WORKING WITH paints and brushes, children at the Special Education Center learn better coordination. Personnel at the Center work individually with the physically or emotionally handicapped.

# Supervisory Appointments



FONZO COSSELL (4512-2) happily displays his hard-won trophy awarded for taking the Sandia Laboratory singles horseshoe championship. It took 17 games to down finalist John Hiller (2313) during two sets played. Win made Fonzo champ for two consecutive years.

## Patent Granted AEC in Names Of Three Sandia Corporation Men

A patent on an analog-to-digital converter has been assigned to the Atomic Energy Commission in the names of George W. Rodgers (1424), Davies P. Anderson (7222), Leslie H. Minnear (7222) and two former Sandians.

The invention relates to an apparatus used with telemetering data and equipment for converting electrical analog signals into a series of representative electrical pulses and recording the pulses for storage. The converter, however, is not confined to this use.

Ordinarily the telemetering FM/FM signal is transmitted on a single carrier to a receiving station. There it is demodulated once, yielding a composite signal, commonly recorded on magnetic tape for storage until a more convenient time to further demodulate the signal and convert the resulting analog signals into a digital reading.

The conversion involves making photographic oscillographs of the analog signals, which a human editor analyzes for placement of the digital readouts. The editor takes only a few readings if the signal is varying linearly and increases the frequency of readouts with decreasing linearity of the signal. A computer, working from the digital data, recreates the analog signal quite accurately by assuming linear changes between the digital readings.

The invention will perform in five hours the work which formerly took an individual two weeks, and will do the job with an accuracy of one-tenth of one per cent of the band width of a telemetering sub-carrier frequency channel.

## Three Sandia Papers Presented at AEC Welding Conference

Three technical papers by Sandia authors in Metallurgy Section II, 1121-2, were presented at the AEC Welding Conference held in San Antonio, Tex., last week.

K. E. Mead submitted two papers entitled "Report to AEC Welding Committee on Sandia Corporation Welding Facilities, Programs and Problems" and "Test Program to Determine Mechanical Properties in Wrought Depleted Uranium."

"Fabrication of Welded Vessel of the Sandia Engineering Reactor" was the subject of the paper presented by V. G. Nelson.

EUGENE R. FRYE to supervisor of Structural Plastics and Explosives Division 1112, Materials and Process Department I.



"Gene" has been working with materials since he came to Sandia in May 1954. He has been a section supervisor in the organization for the past four years.

Before coming to Sandia he had been plant manager for two years for the Conneaut Rubber and Plastics Division of U. S. Stoneware Company in Conneaut, Ohio. For the previous six years he was a design engineer for the parent firm in Tallmadge, Ohio.

Gene received a Bachelor of Mechanical Engineering degree at the University of Akron where he was a member of Sigma Tau, engineering honorary. He belongs to the Society of Plastic Engineers.

During World War II he served three years in the Army.

MAYNARD COWAN, JR., to supervisor of Applied Sciences Division 5131, Physical Research Department.



"Bill" has been working in the field of weapons tests during his nine years at Sandia. He has been assigned to Nuclear Burst Studies Division for eight years and participated in Operations Hardtack, Red Wing, and Ivy.

Prior to employment here he was at the University of New Mexico where he received his MS degree in physics. While working toward this degree he was a graduate assistant for two years, instructing a sophomore physics laboratory.

His BA degree in physics is from William Jewell College in Missouri. Bill is a member of Sigma Pi Sigma, physics honorary, and Mu Sigma Alpha, math honorary.

He served a year and a half in the Army Air Force.

LOUIS M. BERRY to supervisor of Coatings and Ceramics Division 1124, Materials and Process Department II.



"Lou" has worked with ceramics, lubrication, protective coating, and contact resistance materials during his six years at Sandia and has headed a section for the past two and a half years.

Immediately prior to employment here he operated a Western Auto store in Nocona, Tex., for four and one-half years.

His previous experience as a chemist includes three years with the Texas Company in Port Arthur, Tex., three years at Los Alamos Scientific Laboratory in methods development, and two years with Gulf Oil in Port Arthur.

Lou received a BS degree in chemistry from North Texas State College.

CHARLES W. JENNINGS to supervisor of Coatings and Special Materials Section 1124-1, Coatings and Ceramics Division.



Charles came to Sandia three years ago from North Carolina State College in Raleigh, where he had taught for seven years in the Chemistry Department.

He also worked for two years in electro-deposition at the U. S. Bureau of Standards in Washington, D.C., and for a year in chemical research for Dow Chemical in California.

Charles has a PhD degree in chemistry from Duke University, a Master's from the University of California and a Bachelor's degree from the University of Toledo. He is a member of Sigma Xi, scientific honorary, and the American Chemical Society.

During World War II he served three years in the Navy.

RONALD L. JOHNSON to supervisor of Special Problems Section 7244-2, Technical Photography Division.



"Ron" has been assigned to the Photographic and Optical Section at Salton Sea Test Base, Calif., during his two years with Sandia Corporation. He previously worked one summer at Sandia Laboratory in the drafting organization while attending college.

In 1958 Ron received his BS degree in electrical engineering from the University of New Mexico. He is a member of Sigma Tau, engineering honorary, and the Institute of Radio Engineers.

He served in the Air Force from 1951-55.

BEN K. SEELY to supervisor of Chemistry and Spectroscopy Division.



Ben has been working in the materials laboratories during his four and a half years at Sandia.

Previously he was at the New Mexico Institute of Mining and Technology at Socorro as a research associate for nine years in the field of cloud physics.

Before that Ben was chief chemist for five years at the Crowell-Collier Publishing Co., in Springfield, Ohio.

Ben's prior experience also includes a year with the University of Sydney (Australia) doing atmospheric studies and a similar period in Hawaii working on a research program for the Pineapple Growers and Sugar Cane Research Institute.

He has an AB degree in chemistry from Wittenberg College in Springfield and has taken post graduate studies at Ohio State University and the University of New Mexico.

Ben is a member of the American Chemical Society and the American Society for Testing Materials.

ALFRED J. QUANT to supervisor of Casting Resins and Encapsulation Section 1111-1, Plastic Encapsulation and Printed Circuits Division.



"Al" has been working in the same field during his eight years with Sandia Corporation.

Previously he was with General Electric Company for four years. He was in a GE training program for a year, worked a similar period in various materials labs in Schenectady, N. Y., then transferred to the Hanford Works at Richland, Wash., where he was supervisor of a division concerned with separation of fission by-products from plutonium.

Al was also a staff associate at Massachusetts Institute of Technology for a year while with the Army Chemical Warfare Service.

He received his MS degree in organic chemistry from the University of Colorado and his Bachelor's degree in chemistry from Purdue University. He is a member of Sigma Xi, scientific honorary.

During World War II Al served two years in the Navy.



CHAMPION Sandia Lobbball League team for the 1960 season is (l to r, standing) team captain Ron League (8232-4), Bernie Goncher (8231-1), Howie Smyth (8232-1), Al Alford (8234-2), and Carl Wackerly (8232-2). Front row, (l to r), Hank

Przystas (8232-4), Frank Cupps (8233-1), George Yanes (8232-4), and Don Knaple (8232-4). Also on the 8230 team were Jack Renaud (8232), Darren Bainter (8232-3), Bill Lovato (8232-4), Jim Mount (8232-2), and Harold Baldwin (8232-4).

# Sandia Employees Serving As Part-Time Faculty Members

Teaching part-time at the University of New Mexico this fall are nine Sandia employees. Five have renewed contracts in the Mathematics Department, three are again teaching in the English Department, and one is in Business Administration.

Teaching mathematical courses are Sto Bell (5422), Applied Advanced Calculus, Part II; Julius R. Blum (5425), Mathematical Statistics, Part I; Floyd Forsythe (5422), College Algebra; Richard

C. Hildner (5422), Calculus and Analytic Geometry, and Tim C. Preston (1442), College Algebra.

In the English Department are William F. Carstens (3423), and Jim L. Fife (3431), who are both teaching Informative Writing, and D. E. Wylder (3423), who is instructing Public Speaking.

A. T. Steele (4111) taught a course at the University during the summer session in the Business Administration Department and is presently teaching Statistics 89B.

## E. A. Gorey Died Suddenly Oct. 3

Edward A. Gorey, 35, died suddenly while attending a class at the University of New Mexico Oct. 3. Mr. Gorey was buyer's assistant in Division 4344 and had been with Sandia Corporation nearly nine years.

Funeral services were held Oct. 6, followed by burial at Mt. Calvary Cemetery.

Survivors include his widow and two daughters.



## E. A. Templeton Died Sept. 30; Had Worked At Sandia 10 Years

Funeral services were held last week for Elmer A. Templeton, 46, who died Sept. 30.

Mr. Templeton was an auto mechanic (4573) and had been with Sandia Corporation for more than 10 years.

Survivors include his widow, two sons, two married daughters, four brothers, a sister and three grandchildren.



# Speakers Announced For Three Sandia Laboratory Seminars

"Precipitation Hardening of Stainless Steels" will be discussed by L. F. Looby of Armco Steel Corporation at a Development Seminar on materials Monday, Oct. 17, at 9:30 a.m.

The meeting will be held in Bldg. 813, Room 4, according to C. C. Hudson (5113), Colloquium chairman. Attendance to the Tech Area is required for attendance.

Cmdr. T. R. Reese, Bureau of Naval Weapons, will speak on "Polaris Missiles" at a special meeting Oct. 14 at 9:30 a.m. Tickets are required.

Dr. Arthur J. Hearne, Bell Telephone Laboratories, will speak at a Research Seminar on experimental physics Tuesday, Oct. 25, at 1:30 p.m. in Bldg. 815. His topic is "Mass Spectrographic Studies of Trace Impurities in Semiconductors and other Materials." Tickets are not required for this meeting.

## Rebel Riders Ride

The South Valley Rebel Riders will hold an open horse show on Sunday, Oct. 23, at 1 p.m. at their new arena on Pajarito Road SW, one mile west of the Isleta Highway (U.S. 85).

# Theater Arts Center to Offer Full 1960-61 Season of Varied Programs

The Albuquerque Theater Arts Center has completed plans for its 1960-61 season, with programs designed to please the varied tastes of theater-goers.

Four groups numbering approximately 225 make up the Center. They are the Civic Chorus, the Bel-Canto Singers, the Patio Players and the Municipal Opera Company.

Norman Russell Bell, artistic director, announces that a total of eight performances will be offered throughout the season. The first show will be Cole Porter's hit musical "Kiss Me, Kate" on Oct. 21. This will be followed by the Patio Players' presentation of Arthur Miller's "A Memory of Two Mondays" and J. M. Barrie's "The Twelve Pound Look" on Nov. 17.

Last year's popular Christmas program, Menotti's "Amahl and the Night Visitor" and "Christmas Oratorio" by Bach, will be featured Dec. 13 by the Civic Chorus.

Back in the spotlight on Jan. 27 will be the Patio Players with "Duet for Two Hands," an English suspense play by Mary Hayley Bell. The Municipal Opera Company will offer their interpretation of "The Telephone" and "The

Medium," both by Menotti, on Feb. 24.

A music festival Mar. 19, given by the Civic Chorus, will honor Johannes Brahms. The Patio Players will open Apr. 28 with two one-act plays, "The Valiant" and "Another Way Out." Climaxing the season on May 23 will be a presentation of Gilbert & Sullivan's "The Mikado" by the entire Theater Arts Center.

The complete schedule may be obtained on a season ticket costing \$5. All performances will be given at the Civic Auditorium. Tickets are available at Reidding Music Co. and Music Mart, or at Sandia Corporation from Peggy Howe, Minnesota Mutual Life Insurance Co. Sandia office in Bldg. 829.

Anyone interested in participating or wanting additional information may contact Norman Russell Bell, P. O. Box 3125.

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

# 1960 Sandia Employee Contribution Plan Solicitors

- |   |   |  |   |  |
|---|---|--|---|--|
| <p>1100<br/>Captain: K. E. Mead<br/>1110<br/>Squad Leader: R. U. Acton<br/>C. A. Sandoval, R. P. Noble, E. A. Salazar, A. W. Perkins, R. M. Lacey, F. F. Francis<br/>1120<br/>Squad Leader: W. B. Estill<br/>Herman Romero, R. G. Bland, S. L. Erickson, R. P. Pardee, Basil Ohnysty<br/>1300<br/>Captain: R. J. Martin<br/>1310<br/>Squad Leader: B. G. West<br/>C. A. Sullivan, Jr., D. M. Shuford, J. B. James<br/>1320<br/>Squad Leader: R. E. Quinlan<br/>R. J. Dineen, J. H. Barnum, Lucy Cochran<br/>1330<br/>Squad Leader: J. H. Von Dreele<br/>T. C. Corpe, R. E. Stewart, J. W. Lewis, R. A. Randall<br/>1400<br/>Captains: J. R. Ames &amp; Neith Pollard<br/>1410<br/>Squad Leader: L. C. Beavis<br/>W. M. Bray, J. R. Halliday, G. D. Cosgrove, L. A. Shope, E. L. Lane, J. C. Belote, E. L. Jacobs, T. L. Wallace, C. T. Gebert<br/>1420-1421-1422<br/>Squad Leader: J. W. Allen<br/>G. L. Anderson, C. O. Dowd, G. A. Arnot<br/>1423<br/>Squad Leader: Coy L. Moss<br/>W. E. Kappus, J. W. Kinney<br/>1424<br/>Squad Leader: D. H. Denton, Jr.<br/>R. C. Buehler, H. J. Cilke, E. W. Kieffer<br/>1430<br/>Squad Leader: Charles Votow<br/>E. D. Machin, Gordon Boettcher, J. A. Hood, T. W. Moody, J. M. Callier, R. O. Murdock, F. X. Daut<br/>1440<br/>Squad Leader: C. H. Goddard<br/>Helen M. Tolmie, P. A. Stokes, W. A. Zimmer<br/>2300<br/>Captain: W. Kersten<br/>2311<br/>Squad Leader: J. K. Green<br/>2323-2<br/>Squad Leader: D. L. Hayes<br/>Leslie, Louise Winner, John Cowan<br/>2400<br/>Captain: J. A. Southwick<br/>2420<br/>Squad Leader: J. A. Arnold<br/>F. B. Corey, S. S. Markowitz, R. D. Moyer, R. E. Taylor<br/>2440<br/>Squad Leader: Thomas Starr<br/>R. G. Mosteller, Willard Koone, L. B. Whidden, T. A. Kelly, J. H. Lindell, D. T. Reed, J. L. Reimholz<br/>2450<br/>Squad Leader: E. M. Showalter<br/>J. W. Kane, W. B. Caldwell, F. S. Williams, J. H. Smelser, L. A. Meador, S. D. Teisher<br/>2500<br/>Captain: J. W. McDowell<br/>2530<br/>Squad Leader: R. C. Thomas<br/>G. P. Haas, J. B. McCullar, R. S. Fox, F. E. Diebold, R. A. Kavet<br/>2541 &amp; 2542<br/>Squad Leader: R. A. Wilson<br/>C. K. Hoffman, D. K. Franklin, G. E. Kreidler, J. A. Beaudet<br/>2543 &amp; 2544<br/>Squad Leader: W. L. Clement<br/>Joseph Crompton, R. A. Keen, R. A. Govig, D. W. Bushmire<br/>2560<br/>Squad Leader: P. C. Jones<br/>H. W. Schmitt, D. M. Garst, C. J. Daniel, W. R. Dameron, J. F. McDowell, Jr., T. D. Harrison<br/>2600<br/>Captain: P. H. Dailey<br/>2620 — 2630<br/>Squad Leader: W. F. Huebner<br/>J. W. Courtin, J. E. Fitch, Irene Leyba, Elsie Sandy, V. C. Garratt<br/>2641<br/>Squad Leader: W. J. Granfield<br/>H. E. Long, C. S. Pickens, Phyllis Finlayson<br/>2642<br/>Squad Leader: W. E. McDonald<br/>H. V. Lewis, Ramon Lamberson, L. N. Strosnider<br/>2643<br/>Squad Leader: J. A. Deakin<br/>F. C. Rivera, H. J. Meyers<br/>2644<br/>Squad Leader: W. J. Norris<br/>Kay Luckett, Anita DiSanti, W. F. Cihak, R. A. Rael, R. M. Lujan<br/>2700<br/>Captains: R. Masak &amp; J. M. Gustafson<br/>2710<br/>Squad Leader: J. A. Mauldin<br/>R. S. Natoli, R. W. Poetzel, T. F. Elliot, E. E. Buss, J. A. Lipham</p> | <p>2720<br/>Squad Leader: E. J. Krapf<br/>T. Chavez, J. A. Ozmina, R. M. Schwartz, H. B. Thomas<br/>2750<br/>Squad Leader: L. W. Peacock<br/>J. L. Hartley, P. E. Livingston<br/>3100<br/>Captains: B. H. Finley, Lila Ness, C. C. Fornero &amp; G. C. Wayland<br/>3110<br/>E. J. Corwin, W. A. Mozley<br/>3121-3122-3154<br/>Squad Leader: J. R. Garcia<br/>Evelyn Quigley, Edith Jolly, George Bous<br/>3126<br/>Squad Leader: Shirley Dean<br/>Donna Scebold, Phyllis Swartz, Suzanne Shelden, Marian Sliwinski, Josephine Sena, Patricia Smith, Mary Heckler<br/>3126<br/>Squad Leader: Clara Taylor<br/>Dianne Cleveland, Mary Mayginnnes, Nancy Peters, Dorothy Hoeke, Barbara Hahn<br/>3126<br/>Squad Leader: Joyce Hensing<br/>Ethel Lonner, Ruth Wood, Dorothy Stanton, Joan Gillon<br/>3126<br/>Squad Leader: Mavis Bowland<br/>Olinda Chavez, Flora Perea, Shirley Blake, Edith Moya, Gregorita Esquivel, Cynthia Davis<br/>3126<br/>Squad Leader: Norma Schaad<br/>Marjorie Michaud, Alice Aden, Barbara Ruthford, Gloria Novak, Eva Jaramillo, Ann Williams, Faye Schultheis<br/>3126<br/>Squad Leader: Mary Mayes<br/>Evelyn McCoy, Jean Raper, Joyce Scroggin, Helen Wolfe, Dorothy Shaffer, Billie Shelton<br/>3131<br/>Squad Leader: A. L. Wyr<br/>3132<br/>Squad Leader: F. H. Dausses<br/>3151-3153<br/>Squad Leader: H. E. Christenson<br/>Calla Ann Crepin, Ruth Stranger, Elinor Coberly<br/>3200<br/>Captain: S. S. DeVault<br/>3211-3221<br/>Squad Leader: D. S. Cone<br/>O. W. Graham<br/>3231<br/>Squad Leader: A. A. Amato<br/>3241<br/>Squad Leader: W. F. Hodges<br/>3242<br/>Squad Leader: L. W. Hodges<br/>V. C. Honeyfield, L. G. Bauman, Lucian Archuleta, J. P. Harlow, L. C. Pearl<br/>3300<br/>Captain: S. S. DeVault<br/>3311<br/>Squad Leader: D. S. Cone<br/>R. P. Hall, Mina Carnicom<br/>3321 &amp; 3331<br/>Squad Leader: D. S. Cone<br/>Dorothy Postlewaite<br/>3341<br/>Squad Leader: D. S. Cone<br/>Alburia Stevens<br/>3400<br/>Captains: H. A. Walters, Lee Parman &amp; R. L. Dunlap<br/>3421<br/>Squad Leader: C. W. Sargent<br/>Joan Swing, Alice Warder, Ruth Farley, Kay Beard<br/>3421-3, 3464-4<br/>Squad Leader: H. L. Holmberg<br/>C. Trujillo, J. B. May<br/>3423<br/>Squad Leader: K. Lumpkin<br/>Lee Brown, W. L. Garner, John Shunny, Dorothy Mann, Bernadine Cervantes<br/>3424-8<br/>Squad Leader: R. W. Higgins<br/>P. L. Kirby, J. W. Wakeland<br/>3430<br/>Squad Leader: June Leonard<br/>3451-3453<br/>Squad Leader: J. P. Logan<br/>D. L. Brown, Ellouise Pearl, P. H. Arnold, J. R. Kidd, C. J. Fisk<br/>3452<br/>Squad Leader: C. R. Balistrere<br/>Alma Van De Velde, Emily Gilmore, Elaine Fuller, Frank Lucero, Maxine Karns<br/>3461<br/>Squad Leader: Evelyn Gillespie<br/>Rita Dauzat, Marcella Noble, Onadell Dillard, June Bass<br/>3462<br/>Squad Leader: R. L. Reed<br/>O. F. Goodwin, R. W. Carter, G. L. Williams, Margaret Harper<br/>3462<br/>Squad Leader: Jane Robertson<br/>Shawkeet Hindi, Dorothy Dempsey, Arlene McCarty, L. E. Erne</p> | <p>3463<br/>Squad Leader: J. B. Walston<br/>R. H. McHarney, T. I. Baggett, Jr., Ruth Cushman<br/>3464-1, -3 &amp; 3465<br/>Squad Leader: J. B. Flanagan<br/>W. F. Scott, G. A. Cobb, J. R. Wycoff<br/>3464-2<br/>Squad Leader: W. H. Jones, Jr.<br/>N. V. Tarnawsky, R. Wallace<br/>3466<br/>Squad Leaders: L. R. Parsons &amp; Naomi Wynant<br/>J. A. Gilbert, Nita Bower, Shirley Hake, M. L. Davis, Billie Beckman, William Wolff, Dorothy Lee, Cleo Westmark<br/>4100<br/>Captains: R. J. Guerin &amp; H. C. Redding<br/>4111 and 4112<br/>Squad Leader: T. L. Beckley<br/>J. J. Heineman, J. F. Gallagher<br/>4112 &amp; 4113<br/>Squad Leader: R. M. Hawk<br/>F. H. Johnson, S. N. Gaeto<br/>4120<br/>Squad Leader: J. R. Lawrence<br/>4131<br/>Squad Leader: J. R. Coleman<br/>Helen Balistrere, Alice Vancil, Clara Blasyk<br/>4132<br/>Squad Leader: J. N. Colquitt<br/>Lois Payne, Hester Sizer<br/>4135<br/>Squad Leader: M. L. Barrett<br/>Lucretia Blum, Shelby Jester, Marilee Domoleny, Anna S. Henry, Shirley S. Hull<br/>4151-4153<br/>Squad Leader: Federico Martinez<br/>Lois Quinn, Orlando Vigil, M. W. Barnes, R. H. Banks<br/>4152<br/>Squad Leader: G. W. Stohner<br/>Rose Hainlen, Joyce Johnson, J. R. Sinerros<br/>4170<br/>Squad Leader: J. D. Orsdol<br/>B. M. Lucas, M. O. Van Jordan, R. P. Demmel<br/>4200<br/>Captains: B. D. Neil, A. E. Hall &amp; L. L. Lowe<br/>4211<br/>Squad Leader: C. E. Horner<br/>Nita Clark, H. J. Montoya, H. W. Lindquist<br/>4212<br/>Squad Leader: A. S. Ortiz<br/>Virgie Haverty, R. C. Gonzales, P. L. Lopez, Bernardo Gallegos, D. L. Chavez, J. F. Salazar, Jr.<br/>4221<br/>Squad Leader: T. S. Mickey<br/>James Dickie, Candelario Torres, Robert Lodgerwood, Richard Hicks, Mark Forster, Manuel Moya, Edmund Zachewicz<br/>4224<br/>Squad Leader: J. A. Blythe<br/>Carl Kochmann, Melvyn Montano, Arthur Renfro, James Melton, Felix Hondren<br/>4231<br/>Squad Leader: Jess Harness<br/>Bernie Gauthier, Les Looney, Len Morrison, Everett Click<br/>4232<br/>Squad Leader: R. K. Crawford<br/>Alex Padilla, Aaron Kint<br/>4233<br/>Squad Leader: Nolan Blank<br/>Martha Newby, Donald Butts, John Hagar, Dick Chavez<br/>4234<br/>Squad Leader: Juan Perea<br/>Don Bower, Charles Judd, Al Lujan, Pat Garrett, Liz Davis<br/>4251<br/>Squad Leader: H. L. Sellers<br/>Bruno Paoletti, Charles Ladig, Lewis Fisher, Walter Myers, William Seaburn<br/>4252<br/>Squad Leader: J. W. Mitchell<br/>T. E. Few, P. S. Hamilton, D. W. Duffy, K. B. Williams, S. B. Shannon, C. L. Shaw, Jerry Cole<br/>4253<br/>Squad Leader: E. A. Kraft<br/>Ernest Mares, Donald Euten<br/>4254<br/>Squad Leader: T. E. Neubauer<br/>W. C. Mooney, Jr., L. E. Leierer, J. M. Haines, J. C. Mick<br/>4300<br/>Captain: F. H. Schneider<br/>4310 &amp; 4320<br/>Squad Leader: C. R. Burbank<br/>J. M. Hart, L. L. Carson, P. M. Alarid, F. G. Higgins<br/>4330<br/>Squad Leader: C. J. Uribarri<br/>Lola Logenbaugh, Vadare Cornelison, Dorothy Case, J. R. Shepard, F. L. Cason<br/>4340<br/>Squad Leader: W. A. Warren<br/>Sue Evans, Eva Monson<br/>4360<br/>Squad Leader: W. C. Purchase<br/>J. L. Miller, H. J. Wild, Pauline Lamberson, Viola Gomez</p> | <p>4400<br/>Captains: K. H. Lloyd &amp; D. B. Kennedy<br/>4411 &amp; 4413<br/>Squad Leaders: E. S. Moore, E. E. Hipsher, T. M. Bolz &amp; J. F. Campbell<br/>Harold Schulte, E. A. Sherwood, C. N. Visbeck, E. W. Hall<br/>T. A. Shelden, L. L. Strawderman, Ruth Barth, Faye C. Schouman, A. D. McGillivray, F. L. Casey, Jean Leonard, C. H. Meyer, J. F. Bewley, L. L. Tyahla, T. V. White, W. B. Nelson, A. B. Thomas<br/>4412<br/>Squad Leaders: W. W. Hunt &amp; R. W. Ewing<br/>V. D. Melillo, W. R. Des Roches, J. P. Pupelis, R. G. Kishbaugh, G. A. Wank, M. L. Quisenberry, G. C. Bearrice, H. G. Fifer, C. B. Olson, J. M. Stott<br/>4421, 4422 &amp; 4424<br/>Squad Leader: J. J. Simpson<br/>P. E. Eyer, R. E. Thorne, C. A. Fawver, A. L. Winkeljohn, R. S. Nelson<br/>4423<br/>Squad Leader: LeRoy Hassebrook<br/>Thelma Carpenter, Margaret Armijo, Mary O'Trimble, Norma Goodwin, Anne McCullough, Charlotte Morter<br/>4500<br/>Captains: R. D. Flaxbart, F. X. Vogel &amp; R. E. George<br/>4511<br/>Squad Leader: J. L. Gunby<br/>John Ayala, M. R. Chavez, E. E. Pierce, Claude Baca, E. G. Stewart, F. T. Crocker, Frederick Palkovic<br/>4512<br/>Squad Leader: W. J. Moulds, Sr.<br/>A. D. Alire, L. Glover, H. R. Welch, H. Chavez, B. Tension<br/>4513<br/>Squad Leader: Rosendo Lesperance<br/>J. F. Wolf, E. V. Breenen, Reynel Garcia, L. A. Robinson, D. A. Easton<br/>4514<br/>Squad Leaders: J. A. Woellhart and W. G. Mabery<br/>G. H. Lester, H. R. Johnson, H. A. Newhouse, J. A. Keller, N. R. Scalzitti, J. Otero, J. W. Hatcher<br/>4518<br/>Squad Leader: Malcolm Ward<br/>C. E. Edwards, Pedro Ortiz, C. E. Alderman<br/>4540<br/>Squad Leaders: B. Shaw, C. V. Rathbun, and F. J. Tufts<br/>W. F. Stamm, M. E. Range, F. F. Norris, B. Coleman, Sicyl Nixon, M. Moore, T. Eglinton, R. Whitlow, G. Dixon<br/>4573<br/>Squad Leader: F. G. Gabaldon<br/>L. W. Eden, R. Hartenberger, B. M. Cordova, J. F. Sanchez, B. T. Alsop, C. E. Garcia, E. E. Landavazo<br/>4574<br/>Squad Leaders: Herman Kirby &amp; H. O. Armijo<br/>Rafael Armijo, E. Jaramillo, A. B. Baca, Emelia Vigilio, E. Sanchez, Samuel Salazar, Lawrence Metoyer, Paul DuBois, J. S. Dominguez<br/>4575<br/>Squad Leader: R. E. Lovato<br/>B. Sedillo, E. J. Hartenberger, A. C. Salazar, W. H. Thompson, P. C. Kind, Martha Belmonte, Sadie Sedillo<br/>4600<br/>Captains: N. W. Ollman &amp; H. W. Gentry<br/>4611<br/>J. R. Duran, B. M. Garcia, Arturo Jimenez, Antonio Skender<br/>4612<br/>Squad Leader: G. T. Gatlin<br/>Teddy Martinez, Dorothy Washburn<br/>4613<br/>Squad Leader: W. A. Hunt<br/>S. S. Baca, A. S. Lucero, Gilbert Ramirez, J. B. Sanchez<br/>4614<br/>Squad Leader: H. R. Lafond<br/>Dorthalea Hinchey, R. W. Sheppard<br/>4621<br/>Squad Leader: A. O. Trujillo<br/>C. W. Dunn, G. W. Marney, J. J. Tafaya<br/>4622<br/>Squad Leader: Gil Cordova<br/>Mary Lee Martin<br/>4623<br/>Squad Leader: E. J. Ramirez<br/>Edith Irwin, Alice Smith, R. O. Pena, Melquiades Sanchez<br/>4624<br/>Squad Leader: Adolfo Sanchez<br/>E. P. Monahan, Frank Speakman<br/>5100<br/>Captain: B. F. Murphy<br/>5110<br/>Squad Leader: C. R. Mehl<br/>H. W. Church, G. P. DeVault, C. C. Hudson<br/>5130<br/>Squad Leader: S. E. Whitcomb<br/>R. A. Graham, J. O. Dudley, L. E. Heamas, H. P. Kelsey</p> | <p>5150<br/>Squad Leader: J. R. Banister<br/>H. S. Levine, H. L. Davis, Agnes Crosthwait, Irving Auerbach<br/>5400<br/>Captain: N. B. Botsford<br/>5431-5432-5433<br/>Squad Leader: F. A. Hasenkamp<br/>W. K. Dolan, E. C. Gooden, J. A. Sisler, D. N. Munro<br/>6000<br/>Captain: S. S. DeVault<br/>6010-6011<br/>Squad Leader: D. S. Cone<br/>Eleanor Slutts<br/>6020-6021<br/>Squad Leader: D. S. Cone<br/>R. L. Chapman<br/>7100<br/>Captains: R. A. Hayenga, J. W. McKiernan<br/>7110<br/>Squad Leader: H. F. Linker<br/>B. C. Caskey, A. E. Sensel, P. C. Montoya<br/>7120<br/>Squad Leader: R. M. Rayner<br/>J. E. Simpson, James Jacobs<br/>7130<br/>Squad Leader: A. D. Foster<br/>V. T. Strascina, D. R. Mackenzie, D. A. Byrne, R. B. Allison, H. W. Pumphrey, G. W. Stone<br/>7140<br/>Squad Leader: T. W. Hoover<br/>A. A. Rakoczy, K. E. Gels, C. J. Benning, S. V. Asselin, L. A. Hanchey, G. L. Morter, D. E. Hightower<br/>7160<br/>Squad Leader: A. M. Fine<br/>H. E. Morris, J. H. Lloyd, R. E. Knutson, L. D. Olson, C. D. Lundergan<br/>7180<br/>Squad Leader: J. T. Black<br/>R. B. Hedberg, R. E. Davis, R. M. Halsey, H. E. Kinney, E. Bader, Starcynski, R. J. Kindley, A. R. Nord<br/>7200<br/>Captains: J. H. Scott &amp; B. C. Benjamin<br/>Squad Leader: R. I. Levesque<br/>B. M. Gragg, R. F. Gentsler, E. P. Elkins, J. S. Tamer, E. W. Cook<br/>7210<br/>Squad Leader: W. D. Woloben<br/>C. W. Young, Jr., E. J. Newman, G. Gleichner, E. C. Wittwer, G. A. Abeysa<br/>7220<br/>Squad Leader: R. P. McCanna<br/>T. A. Sellers, D. A. Greenwell, T. F. Marshall, B. J. Weston, Albert Goodman<br/>7220 &amp; 7230<br/>Squad Leader: J. A. Beyeler<br/>T. C. Looney, J. F. Donovan, R. L. Hughes<br/>7230<br/>Squad Leader: H. M. Dumas<br/>O. A. Phelps, A. A. Young, L. M. Bossart, J. C. Rehberg, R. P. Syler<br/>7242-2<br/>Squad Leader: F. E. Rysythe<br/>Margaret Bernhard, Evelyn Ricard, Jean Van Fleet, Esther Donaldson, J. R. Hoffman<br/>7251-2<br/>Squad Leader: S. S. Roberts<br/>H. G. Laursen, W. A. Crosby, T. J. Flanagan<br/>7253-1<br/>Squad Leader: R. H. Lanes<br/>J. C. Mitchell, Jr., T. R. Zeller, P. C. Hernandez, M. A. Mantefel, A. J. Peterson, W. R. Drake<br/>7300<br/>Captain: R. S. Hooper<br/>7310<br/>Squad Leader: J. P. LaPoint<br/>F. C. McGimsey, D. F. Palmer, D. G. Dykes, H. D. Arlow<br/>7321<br/>Squad Leader: Ralph Kelly<br/>G. H. Johnson, D. T. Judd, E. M. Bauer, R. L. Kurtz, D. C. Westfall<br/>7322<br/>Squad Leader: C. T. Schafer<br/>C. E. Justice, Jr., A. J. Tucker, B. T. Bauer, T. J. Wittmann, C. M. Grassham<br/>7323<br/>Squad Leader: J. E. Bear<br/>D. L. Krenz, J. L. Martinez, L. P. Navona, R. H. Rector, A. R. Elwell<br/>7500<br/>Captain: J. A. Teresi<br/>7513<br/>Squad Leader: W. D. Wing<br/>Dorothy Miller, C. K. Diem, G. E. Andersen, D. J. White, L. K. Hungate, J. R. Costello<br/>7521<br/>Squad Leader: C. M. Frantz<br/>W. O. Meahl, B. F. Blythe, R. K. O'Neil, S. O. Lewis, B. Marquez<br/>7523<br/>Squad Leader: M. G. Young<br/>D. L. Vayer, G. M. Goralczyk, L. L. Flores, R. C. Mott, A. C. Strasburg, C. L. Braune<br/>7532<br/>Squad Leader: K. L. Wiley<br/>F. J. Gallagher, F. S. Tomlinson, D. S. Carlick, J. W. Windsor, R. L. Hannigan</p> |
|---|---|--|---|--|



**SIGNING AN AGREEMENT** at Livermore between the International Union of Operating Engineers, Local 39, AFL-CIO, and Sandia Corporation are (left) H. H. Simms, Business Representative, Local 39, IOUE, and J. L. Rowe, Manager, Plant Services Department 8220. Watching the signing is Marlin Pound (8212-1). The new Agreement, effective Oct. 1, is for one year and covers the steam plant employees at the Livermore Laboratory, Livermore, California.

### 'Sandia Story' Earns Top Technical Film Festival Honors in San Diego

"The Sandia Story," a half-hour film describing Sandia Corporation's work in the nuclear weapons field, received a Gold Medal Award at the First Annual Technical Film Festival in San Diego. The Film Festival was sponsored by the National Society of Professional Engineers as part of their observance of National Engineers' Week.

The movie was entered in the category of "technical films pro-

duced for a non-technical audience," and the Gold Award is synonymous with first place.

Public Relations Division 3431 coordinated production of "The Sandia Story" which was filmed by personnel from Lookout Mountain Laboratory, an Air Force installation in Hollywood. The 16mm film is available from Division 3431 for showing to local organizations or employee groups.

### Accountants Ass'n To Have Meeting At Los Alamos

Members of the Albuquerque Chapter, National Association of Accountants, will journey to Los Alamos Scientific Laboratory Thursday, Oct. 20, for an all-day meeting.

"The History and Mission of the Los Alamos Scientific Laboratory" will be discussed by A. F. Porton of the Laboratory's Public Relations Office, during lunch. Following will be a guided tour of several of the Laboratory sites including the Health Research Laboratory, and Project Sherwood facilities, which is LASL's program on research in the control of thermonuclear reactions.

Highlight of the meeting will be a talk on "Problems of Space Travel," by Dr. Wright H. Langham, who is group leader in charge of biological and medical research at LASL. His activities include studying the effects of nuclear radiation, toxicology, and physiology of radioactive materials, and the problem of worldwide fallout from nuclear weapon tests.

Also in attendance will be W. Douglas Little, vice president of the National Association of Accountants.

Buses for the trip will leave Albuquerque around 10 a.m., at a round-trip cost of \$6 per person. Those wishing to attend only the evening program are invited to come to the social period starting at 6, followed by dinner at \$2.50 per person. Anyone interested in attending is welcome, according to John Shurter (4151), ext. 36252, reservations chairman.

### Sandia College Recruiters Getting Special Training This Month

Sandia Corporation college recruiters are undergoing training sessions this month at the University of New Mexico prior to visiting 60 schools across the nation.

The annual college recruiter

meeting was held Sept. 29 at the Coronado Club prior to start of the two and a half-day training sessions for the 51 recruiters.

At the dinner meeting, attended by the recruiters and members of the Large Staff, Sandia's requirements for the year and a review of the past years' results and trends were presented by C. H. DeSelm, Personnel Director.

Particular needs in the different work areas were discussed by members of the Small Staff. New methods introduced in the college recruiting program this year were outlined to the recruiters.

In an after-dinner talk, S. P. Schwartz, President, spoke of the importance of highly qualified college recruits maintaining the vitality of Sandia's future.

A similar briefing session was held Oct. 10 for 60 members of Sandia's technical staff who will visit 39 schools to interview prospective employees about to be awarded or already holding PhD degrees. A dinner meeting will also be held Oct. 26 for this group.

### Army Contract to WE for More Nike Zeus Work

The Army last week authorized an additional \$199,125,000 for further development of its Nike Zeus anti-missile missile system and a contract for that amount has been let to Western Electric Company. WE will continue its research and development program on the missile for 12 months under terms of the contract.

Included in the contract are funds for continued engineering, installation and operating equipment required in the development and test program. The Nike Zeus system is now in the advanced development stage. Various equipments are being tested at White Sands Missile Range and Whippany, N. J. It is not in production.

A major portion of the work will be performed at the Western Electric plant in Burlington, N. C., and Bell Telephone Laboratories, Whippany. Bell Laboratories is responsible for system research and development. The Douglas Aircraft Company, subcontractor for the missile and ground support equipment, will share in the award with many other subcontractors.

### Lee Deeter Renamed To ISA Committee

At the recent National Instrument Society of America convention exhibit in New York, Lee Deeter (2440) was re-named to the National Nominating Committee post he has held in previous years.

Mr. Deeter is a past vice president of the National Executive Committee, and is presently national delegate from the Albuquerque section of NIS.

# Sandia Corporation Service Awards

 Henry M. Austin 4514 Oct. 10, 1950	 Raymond Moery 4514 Oct. 10, 1950	 Salomon Jaramillo 4574 Oct. 13, 1950	 Gerald A. Cobb 3465 Oct. 16, 1950	<b>10 Year Pins</b>		 Carl R. King 3242 Oct. 16, 1950	 Ramon Metzgar 4575 Oct. 16, 1950	 Eulalio P. Trujillo 4234 Oct. 16, 1950	 Glenn D. Wright 2724 Oct. 16, 1950	 Luciano Archuleta 3242 Oct. 17, 1950
 Carl W. Eden 4253 Oct. 17, 1950	 LeRoy Henderson 4511 Oct. 17, 1950	 Robin A. Kelley 3242 Oct. 17, 1950	 Eugenio C. Montano 4614 Oct. 17, 1950	 John H. Morrison 5432 Oct. 17, 1950	 Manuel Aguilar, Jr. 4631 Oct. 18, 1950	 Guy A. Coburn 3427 Oct. 18, 1950	 Granville L. Dourte 4231 Oct. 18, 1950	 John M. Foster 2322 Oct. 18, 1950	 Julian Jaramillo 4512 Oct. 18, 1950	
 Fermin Vallejos 4573 Oct. 18, 1950	 James E. Birchfield 6021 Oct. 19, 1950	 James B. Jordan 2622 Oct. 19, 1950	 Ramon G. Lucero 4518 Oct. 19, 1950	 Willis C. McKinley 3452 Oct. 19, 1950	 Billie Rogers 4514 Oct. 19, 1950	 Lester O. Wicke 2714 Oct. 19, 1950	 Leroy Baker 2441 Oct. 20, 1950	 Arvin L. Brown 7522 Oct. 20, 1950	 Clifford F. Hiner 3242 Oct. 20, 1950	
 G. R. McGuinness 7117 Oct. 20, 1950	 Charles Allen 3242 Oct. 23, 1950	 I. Neal Humble 4541 Oct. 23, 1950	 David R. McGiboney 3311 Oct. 23, 1950	 Miguel Montoya, Jr. 4542 Oct. 23, 1950	 John K. Nakayama, Jr. 7115 Oct. 23, 1950	 Arthur L. Pearson 8232 Oct. 23, 1950	 Eugene S. Smith 3242 Oct. 23, 1950	 Richard M. Cash 3242 Oct. 24, 1950	 Carl Cianciabella 7212 Oct. 24, 1950	
 James M. Fisher 4423 Oct. 24, 1950	 Ernest Lovato 4234 Oct. 24, 1950	 Joe A. Sanchez 4514 Oct. 24, 1950	 Arthur Castillo 4151 Oct. 25, 1950	 William B. Davis 4153 Oct. 25, 1950	 Fred A. Bentz 4514 Oct. 26, 1950	 Tony V. Gallegos 4514 Oct. 26, 1950	 Ralph W. Whitson 7521 Oct. 27, 1950	<b>Five Year Pins</b> Oct. 15-28		
Thomas V. Tormey 4254, Betty M. Brake 7183, Hellen M. Grotberg 7512, John T. Stanfill 3462, Charles B. Randall 4212, Henry B. Williams 4212, James J. Ryan 3466, Thomas M. Sedgwick 7133, Lorraine W. Torres 3466.										

## Harvest Moon Ball to Be Held At Coronado Club Tomorrow Night

Local balladeer Cliff Chadwick will entertain at the Coronado Club's Harvest Moon Ball tomorrow night, Oct. 15. His repertoire includes folk and some popular songs, and comedy monologues.

Buffet lines will be open from 6 to 8, entertainment will start at 8:30, followed by dancing to the music of the MBC Trio from 9 to 1. Price is \$2.60 for members, \$3.60 for guests.

Prizes will be awarded for the best costumes at the Club's Halloween Party on Saturday, Oct.

29, from 9 to 1. Lloyd Pond will provide music for dancing. Cost is 50 cents for members, \$1 for guests.

A teenage dance party will be held Saturday night, Oct. 22, from 8 to 11. Parents should pick up free tickets for their children at the Club office.

"Francis and the Haunted House" is the movie featured for Family Night, Sunday, Oct. 30. Free cokes and popcorn are served during the movie which starts at 6 p.m.

## Welcome Newcomers

Sept. 26-Oct. 7

Albuquerque		
William H. Countryman	1312	
*Doris K. Edwards	3126	
Laurie D. Krebs	3126	
Margaret E. Lloyd	4411	
*Bobby Jo Olsen	3126	
*Emilie Perea	4121	
Helen M. Saviteer	3126	
*E. Jean Shaffer	3126	
Barbara J. Walstrom	3126	
Helen M. Watkins	4413	
Indiana		
William H. Perry, Indianapolis	4412	
Ohio		
William B. Law, Columbus	5133	
* Denotes rehired		
Returned from Leave		
Linda B. Hale	3126	
New Hires at Livermore		
Ruth Bauman, Livermore	8212-3	
Josephine A. Beatty, Omaha, Neb.	8161-3	
Lanier B. Bedinger, Walnut Creek	8221-2	
Joseph E. Buchler, Livermore	8225-3	
Roberta M. Cody, Castro Valley	8161-3	
Miriam D. Hall, Livermore	8212-5	
James G. Harter, Morrisville, Pa.	8221-1	
Robert C. Kelly, Los Alamos, N. M.	8115-2	
Carol M. Johnson, Livermore	8225-1	
Freda S. Limoli, Tracy	8212-3	
Geraldine S. Nerton, Pleasanton	8213-3	
James L. Nickelson, Livermore	8232-3	
Stanley J. Serpa, Livermore	8225-1	
Patricia A. Tarp, Pleasanton	8212-3	
Leslie R. Tomkinson, San Leandro	8223-5	
Ella D. Ward, Livermore	8161-3	
Returned from Leave		
Janet L. Rego, Livermore	8212-5	
Valla R. Cowan, Livermore	8212-5	

## AEC Announces Formation of New Las Vegas Office

K. F. Hertford, Manager of the U.S. Atomic Energy Commission's Albuquerque Operations, has announced that the Las Vegas (Nevada) Branch has been elevated to the status of an AEC Area Office. Fred W. Hohner, Las Vegas Branch Chief, has been promoted to Manager of the new Area Office.

As an Area Manager, Mr. Hohner has greater operational responsibility and wider authority for decisions. He reports to James E. Reeves, Assistant Manager for Test Operations in Albuquerque Operations.

The new Area Office will have three Branches within it, for Administration, Operations, and Engineering and Construction. The selection of Branch Chiefs will be made through usual Commission procedures.

## Mountain Club to Forsake Climbing for Colorful Maple Trees

One of the largest stands of maple trees in the state will be visited by New Mexico Mountain Club members and guests during their hike Saturday.

Destination will be the Fourth of July spring, located on the east side of the Manzano Mountains. Participants will hike five or six miles through wooded country.

On Sunday, Oct. 23, Reed Cundiff (5332) will conduct a technical climb for beginning and advanced climbers. Tests will be given to those working on club qualification requirements.

to which words for the square dance patterns are fitted) and 65 patter calls (a sequence of dance instructions fitted to "hoe down" music).

"I prefer calling to recorded music since live music too frequently drowns out the calls," Dick said.

During the past three years he also has been instructing square dance classes and round dance classes. When not calling, instructing or dancing Dick serves as Central District Chairman for the New Mexico Square Dance Association.



65 WESTERN SHIRTS, stacks of square dance equipment for Dick Siebenforcher (4152-2) in records and a public address system are necessary his interesting avocation of calling square dances.

## It Takes A Special Talent, Energy To Call Three Square Dances Weekly

Calling at three square dances, teaching a class of beginners and dancing for pleasure at still another square dance could represent a chore for Dick Siebenforcher.

Dick, a cost accountant in Cost Analysis Section 4152-2, first learned how to square dance in Montana. Since it was sometimes difficult for a single fellow to always have a partner he decided to learn the many calls from records. Later he attended a Callers School in Washington.

Dick now has a repertoire of 125 singing calls (standard tunes

### 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

- PICKET FENCE, approx. 40 ft. long, 8 ft. long redwood gate, both for \$14; six light garage window w/frame 54" x 27", \$7.50. Chaves, AL 5-6155 after 5 p.m.
- RIFLE SLING, military type, half price, \$2. Baxter, DI 4-7601.
- RAILROADERS: Lionel-O and Super-O trains, many extras, board and transformer that operates four trains, reasonable. Gary, 1915 Dakota NE, AL 6-7325.
- DEEP FREEZE, upright, 21 cu. ft. Syme, AX 9-4100.
- BABY BED with mattress, \$15; 17" TV, mahogany, closed front console, \$35. Brown, 520 Tyler NW, DI 4-4484.
- LAMBRETTA MOTOR scooter, rebuilt engine, transmission, \$110. Willicker, Hawkins, 515 Wisconsin NE, Apt. 104.
- CADILLAC WHEELS, five, 15", four with 820 x 15 tires and tubes, \$20 cash or trade. Cunningham, 1909 Dakota NE, AL 6-2724.
- '59 ALL STATE 5 hp motorcycle. Colvery, AM 5-0351.
- BUILDING MATERIALS, used; French doors, screen doors, steel casement window, plate glass, outside door, etc., at half replacement cost. Browning, 2616 Virginia St. NE.
- FLOOR FURNACE, Pacific, 37,000 BTU, 30 x 15 opening, \$40. Everitt, 410 Richmond Pl. NE, AL 6-3703.
- '59 VW, 13,000 miles, leatherette upholstery, \$1350. Quigley, AX 9-3178.
- RIFLE, H and H "300" Magnum, never fired. LaPoint, AM 8-2290.
- END TABLES, two, natural oak, \$5 each; two occasional chairs, \$10 each; 9 x 10 ft. rug, \$4; man's solid leather handmade suitcase, \$28. Browning, AX 9-6384 after 5 p.m.
- 3 BDR BRICK Hoffman, w/w carpet, AC, garage, nice landscaping, large trees, \$800 down, \$15,850 total. Below FHA appraisal. Vicks, 2717 Los Arboles Pl. NE, AX 9-2949.
- DINETTE SET, five pieces, chrome and red formica, \$24. Breslin, AX 9-6625 after 5 p.m.
- '50 WILLYS Jeepster, \$525. Kane, AL 5-2240.
- '57 DODGE Sierra, deluxe 9-pass. station wagon, automatic transmission, power steering, power brakes, R&H, ww tires, one owner, \$1650. Katzenstein, DI 4-1931.
- TWO CLARINETTS with cases, make offer. Archibeque, DI 4-4580 after 5 p.m.
- '55 CADILLAC 62, all power, \$1495; Kenmore automatic Suds Saver washer, \$35. Schafer, AL 6-2662 after 4:30 p.m.
- ACCORDIAN, 120 bass Scandelli, \$175. Wall, 1505 Espanola NE, AL 6-3448.

- HEATHKIT PREAMP wired and working fine, \$15 with book. Shaum, AX 9-5333.
- 17" TV, Stromberg-Carlson, table model, \$30. Wyant, AX 8-0371.
- ROLLAWAY BED, 3/4 size. Iverson, AX 9-5317.
- '41 CHEVROLET, good second car; Necchi sewing machine. Papineau, AM 8-0174.
- BEDROOM SUITE, chest, vanity, stool, double bed w/mattress, springs, \$50; dining room suite, 6 chairs, baked enamel finish. Thomas, AL 6-2371.
- DIRT TRAILER, no springs, \$15. Bradshaw, AX 8-2753.
- 17" TV, blond, \$40; Zenith world-wide portable radio, \$25; '55 Ford fender skirts, green, \$20. Burrell, AL 9-6054.
- '50 PLYMOUTH Suburban, good rubber, reasonable. Davis, AX 9-0770.
- '60 VALIANT or trade for 1956 model automobile. Take over \$64 monthly payments, your car as equity. Paschal, 419 San Pablo NE, AL 6-4118.
- CLOTHESLINE, umbrella type, 30 strand; 3 army camp cots, \$6 each; large type swing set, \$10. Roane, 3525 Mary Ellen NE, AX 9-6554.
- '46 FORD coupe with '57 Chevy V-8 engine and 4-speed Chevru truck transmission, real sharp. Campbell AX 9-4830.
- HO RAILROAD equipment, Pacific loco and diesel "A" unit ready for paint, track, cars, accessories and scintilla power supply. Reese, AL 5-4288.
- PIANO, UPRIGHT with bench, \$115; baby bed w/mattress, \$6; wire fence, seven rods, \$20; old type gas range, \$5. Valerio, CH 3-5101 after 5:30 p.m.
- WEIMARANERS, champion sired. Oehmke, DI 4-7278.
- HAND LAWNMOWER, 16", recently sharpened, in fair condition, \$5. Smith, 10109 Mayo Court NE, AX 9-6873 after 5:30 p.m.
- 10' AWNING, Zephyr, \$35. Reinertsen, AL 5-1954.
- FREEZER, 16 cu. ft. deluxe Coldspot upright, cost \$370 net, sell for \$200. Reynolds, AX 9-0709.
- TWIN 30" beds, innerspring mattresses, box springs, castered metal frames \$100. Engquist, 3608 Glorieta St. NE, AX 9-8312.
- CHAIN SAW, Skil saw, sabre saw, drill press, misc. power tools, new and used. Pliner, 6210 Bellamah NE.
- 18" POWER mower, \$35. Merrell, 2712 General Chenuit NE, AX 9-0348.
- DINING ROOM suite, mahogany, buffet table, 6 chairs, \$75 or best offer. Gomez, CH 7-8602 after 5 p.m. or AL 6-1584.
- ENCYCLOPEDIA Americana, 35 vol. annuals, 10 vol. Popular Science, 7 vol. lands and people, blond bookcase. Radman, ext. 35273.
- REFRIGERATOR, Norge, \$65; portable sewing machine, \$30; innerspring mattress, box springs, \$25; hand sewing machine, \$3. Anez, AX 9-6301.
- ARTIFICIAL FIREPLACE w/screen and CH 7-2812.
- DINETTE SET, chrome with four chairs; 1960 Encyclopedia Britannica, 24 vol. set, assume payments. Fisher, AX 8-2546.
- MOD. 70 Winchester 270, \$85; new .308 custom, \$70; 22 Revolver, \$25; bor-gains in deer rifles, 12 ga. shotgun. Butler, AX 9-5626.

## NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Oct. 21

- '59 MOTORCYCLE, Indian Woodsman, 500 cc, Cunningham, AX 9-2402, 1728 Maxine NE.
- PORTABLE BAR, bamboo and wrought iron w/formica top, two swivel stools w/high backs, reasonable. VanFleet, AM 8-0730.
- '58 LITTLE Indian single Motorcycle, low mileage, \$150 or best offer. Grose, 1330 Marron Circle NE, AX 9-0163.
- MODERN ADOBE country home, two bedrooms, fireplace, six acres, fenced, good roads and schools, \$2000 down. Treon, AX 8-1066.
- LARGE HOME, 1680 sq. ft. on 100'x106' corner lot, landscaped, custom drapes, carpeting throughout, \$18,950, flexible terms. Kollmeyer, AL 6-1261.
- 8 FT. PLYWOOD pram and 1 h.p. Evinrude outboard, \$70. Joyce, AL 6-1605.
- '60 CHEVROLET Impala, 4-dr. hardtop sport sedan, Turboglide, power steering and brakes, 13,000 miles, \$2450. Grubbs, AL 5-0172.
- 3 BRM HOME, Mossman, \$2000 down, FHA, or assume 4 1/2% G.I., 1 1/4 bath, fireplace, carpeting, air conditioned, walled, sprinklers. Lane, AM 8-0040.
- WRINGER-TYPE WASHER, Universal, \$25. Roof, DI 4-0687 after 5.
- 16mm BELL AND HOWELL magazine camera, f 1.5; wheel tire tube for 3/4 ton Chevy truck. Hueter, CH 2-1620.
- VTVM and BAR Pattern Generator, less power supply, \$15; amplifier, hi-fi, 20 watts w/pre-amp and power supply, \$19. Garcia, CH 2-1182.
- KENMORE DRYER, natural gas, will trade for portable sewing machine; 7-gun rack cabinet, knotty pine, accessory drawer, \$13. Bredow, BU 2-3338.
- 3 BRM HOME, large lot, lawn front and rear, alley, good neighborhood, 9100 Woodland Ave. NE. Edwards, AX 9-5496.
- EVAPORATIVE COOLER, squirrel-cage, window type, 2500 cfm, w/recirculating pump, clean and quiet, season-end bargain, \$25. Sherwin, AL 5-8866.
- 2 BRM HOME, walled back yard, landscaped, 4 1/2% loan, sacrifice price, and low as \$300 down to right party, NE location. Chapin, AM 8-0718.
- SOLOVOX ATTACHMENT for any piano, blond leatherette, \$100. Carter, AL 5-7745.
- '55 Jeep Pickup, 4-wheel drive, pick up payments; 21" 3-speed Pedestal fan; plastic laminating machine. Turnbough, AX 9-6667.
- '55 BUICK convertible, Continental kit, red and white, \$545. Keller, AL 5-9805.
- HOUSEHOLD furnishings, complete. Buchanan, 1812 Field Dr. NE, AX 9-7306 after 5 p.m. weekdays.
- GAS STOVE, Maytag, deep well, clean. Kelly, 904 Wilmoore Dr. SE.
- 4 SCREENS for steel casement windows 17"x36", \$2 each; medicine cabinet with 22"x16" mirror, \$3; 6 Venetian blinds, assorted sizes, \$3 each. Roberts, AL 5-9527.

- ROCKING HORSE, spring mounted, \$15; stroller, does not fold, \$5. Beatty, AX 9-3429.
- '47 DE SOTO Suburban, reconditioned engine, \$125. Martin, CH 3-9484.
- '51 BUICK, super, \$300. Magruder, AL 5-2078.
- 21" GE TV console, on casters, mahogany finish, \$150. Murray, DI 4-5289.
- '58 FAIRLAIN 500, power steering, brakes, R&H, large motor, \$1200. Pritchard, AM 8-6430.
- '55 CHEVROLET, V-8, R&H, new tires, \$695. Drake, AX 9-0743.
- 3-PIECE SECTIONAL; GE automatic washer; 7-drawer kneehole desk; gas stove; wrought iron day bed. Libby, AM 8-2025.
- 2 BOY'S BICYCLES, 26", one w/new tires; 1 w/TP tires and tubes; 24" w/bikes w/TP tires and tubes; all reconditioned. Christy, 2932 Hermosa Dr. NE.
- WHIRLPOOL DRYER, make reasonable offer. Hoagland, AX 9-7097.
- 303 CARBINE, \$20, w/case and shells, \$25; vacuum cleaner, Filter Queen, \$15. Everett, AX 9-6057.
- DESK, maple finish, three side drawers, one center drawer, \$15. Matlack, AL 6-7371.
- ALUMINUM CAMPER for standard pickup, \$25. Keck, AX 9-8898.
- 303 BRITISH Enfield Sporterized, w/sling, \$25. Ouellette, AX 9-9266.
- UPRIGHT PIANO, "Stodacher & Sons Mfg." dark finish, \$200. Sanchez, AL 6-0430 after 5, 505 Cagua Dr. SE.
- CORNET, Cleveland King, complete w/case, half price. Miller, AM 8-1939, 2904 Dakota NE.

#### WANTED

- RIDER in vicinity of Girard and Constitution NE to share driving to Gates 7 or 8. Marmon, AL 5-4515, or DuBois, AL 5-9564, after 5 p.m.
- HOMES for free kittens, just right age for adoption, also female long hair cat eligible for adoption. Minnear, 932 Solar Rd., DI 4-5419.
- BOYS BICYCLE, 22" or 24". Revels, DI 4-3033.
- SLIDE RULE for use in engineering course. Buck, AL 6-3989 after 5 p.m.
- JOIN a car pool near the University. Camping trailer to sleep six with toilet facility. Brathovde, 3515 Monte Vista NE, AM 5-0783.
- LAPIDARY SET, small size, for small size rock found. Todd, 1312 Indiana NE, AM 8-4486.
- CAR PARTS, antique and classic, hubcaps, horns, radiator emblems, especially for 1921 to 1950 Lincoln, will trade. Cunningham, 1909 Dakota NE, AL 6-2724.
- COMPUTER, Dalton E6b dead reckoning computer. Kelly, AX 9-3700 after 5 p.m. weekdays or anytime weekends.
- GIRL, 4 or 5 years old, to care for in my home week days. Beatty, AX 9-3429.
- SMALL CHILD to keep in my home, close to base. Riggins, AX 9-7778.
- HOMES FOR three orphaned kittens, weaned—but just barely. Tatum, CH 2-9021.
- CAR POOL or ride to Sandia. Laursen, 2920 Rhode Island NE, AX 9-1656.
- RIDE from 206 Adams NE to Bldg. 880 or 894 parking lot. Mary Waggoner, AL 5-7249 after 5:30 p.m.
- HOMES FOR part collie puppies, free. See Saturday or Sunday. Beattie, 2923 Adams NE.
- CHILD to care for in my home, near base, lunch, nap, walled yard. Blagg, AX 9-8624.

- GIRL'S BICYCLE, 20", not necessarily in good condition; also boys or girls side-walk bicycle with trainer wheels. Randall, DI 4-8976.
- ENCYCLOPEDIA, recent edition, preferably set of World Book at reasonable price. Adams, AL 6-7265.
- CARPOOL for 1 p.m. UNM class on Tuesday and Thursday. Northrup, Ext. 47146.
- TO TRADE youth bed for Hollywood bed; to trade baby car bed for baby walker. Burnside, AL 6-4324.
- .22 PISTOL, cheap, any condition. Pritchard, AM 8-6430.
- INFORMATION about Houston, Tex., from native of city. Parisi, 3112 Florida NE, AL 6-4264.
- RIDE TO BLDG. 892 from Menaul and Eubank NE. Mrs. Gentry, AX 9-8917.

#### FOR RENT

- BUILDERS, 16 ft. trailer, live in this while you build your dream home, \$30 month. Cunningham, 1909 Dakota NE, AL 6-2724.
- 2 BDR house, furnished, 226 Pennsylvania NE; 2 bdr. duplex, furnished, across from Roosevelt Park, 1225 Coal SE. Sanchez, CH 3-8632.
- YOUNG MAN to share my Sandia mountain home. Boyes, General Delivery, Sandia Park, BU 2-3137.
- 2 ROOM APARTMENT, bath, furnished, private entrance, private garage, private patio, \$65 month. McCormick, AM 8-2633.

#### LOST AND FOUND

- LOST—Ladies white gold Bulova watch, white rim glasses, billfold w/ID of Harold Roberts, tan sunglasses in green leather case, mahogany framed sunglasses in mahogany case. LOST AND FOUND, Ext. 26149.
- FOUND—Keys, earrings. LOST AND FOUND, Ext 26149.

#### FOR SALE AT LIVERMORE

- STAUFFER reducing couch, make reasonable offer. Hunt, HI 7-0191.
- 21" TV, table model, Silvertone, blond, one year old, \$100. House, Ext. 2591.
- WALNUTS, 30c per pound. Reiss, Ext. 2544.
- '57 KENMORE electric range, 30", automatic timer, \$60. Gross, HI 7-6281.
- '54 CHEVROLET, 4-dr., 210 sedan, 6 cyl., stick shift, new tires \$400. Aven, HI 7-3834.
- '60 VOLKSWAGEN, deluxe, German radio, WW tires, chrome rock guards, fuel filter, interior blue, \$1,675. Rogers, HI 7-0201.
- '56 FORD pickup, V-8, straight stick, 6' bed, \$850 or will trade for Renault, Fiat, etc. Nepple, HI 7-0641.
- SPOTLIGHT for '59 Chevrolet only, chrome, factory made, installation instructions, hardware, cost \$34.95, asking \$20. Truitt, HI 7-5207.
- CONN TRUMPET and case, \$90; roller skates, girls, size 4, semi-precision wheels, \$25; '56 Kenmore dryer electric, \$90. Thomas, HI 7-5107.
- WEDGEWOOD gas stove, incinerator and grill, new, still in crate, \$190; marimba, 4-octave, \$75. Fones, HI 7-1643.

#### WANTED AT LIVERMORE

- BICYCLE, boys, 20" or 24", in reasonably good condition. Wheelock, HI 7-6281.

## Six Ton Harvest

## Livermore's Dick Cook in Grape Business by Chance; Does Well

From engineering to raising grapes covers a lot of ground, but it was easy for Dick Cook (8116-4). He simply bought a site for a country home in the Livermore Valley and found himself operating a six-acre vineyard.

Dick bought the land, located about five miles south of Livermore Laboratory, about a year ago with plans to eventually build on the property. With the vineyard already established, Dick decided to try his luck at maintaining the grapes.

The result was a harvest of about six tons of Semillon grapes.

"The crop would be greater if I irrigated," said Dick, "but I have no well or other source of water."

Nevertheless, the Wente Brothers

Winery in Livermore contracted for all the grapes Dick could supply. Wente Brothers make a light dry wine and a sauterne, or semi-sweet, wine from the grapes.

"The proceeds from the sale should cover taxes, operating costs, and leave a little profit," Dick said.

"A problem I haven't been able to lick yet," said Dick, "is how to keep birds and deer from helping themselves to the grapes. The vines on the outer edges of the vineyards are always well nibbled."

Now that he finds the land is self-sustaining, Dick is in no hurry to build. "Even when I do," he said, "I'll probably clear a small patch of grapes for the house and leave the rest for posterity."



SEMILLION GRAPES are harvested by Dick Cook (8116-4) at his six-acre vineyard in the fertile Livermore Valley. The vineyard produces nearly six tons of the grapes annually. The grapes are used to make the white wines for which Livermore Valley is famous.

## Articles by Two Sandia Authors To Be Presented

Two Sandians are authors of papers which have been prepared for presentation at technical society meetings later this year.

"Piezoelectric Behavior of Impacted Quartz," written by R. A. Graham (5132), has been submitted for consideration for oral presentation to the Christmas meeting of the American Physical Society to be held in Berkeley, Calif., and for prior publication in the Bulletin of the American Physical Society, which serves as the program for the meeting.

J. G. Magistad (1442-1) has prepared "Some Discrete Distributions Associated With Life Testing" for presentation at the Seventh National Symposium on Reliability and Quality Control. The meeting will be held at the Bellevue Stratford Hotel, Philadelphia, Pa., in January 1961.

## Sandians Help Plan, Will Speak at Photo Conference Next Week

Several Sandians will participate in the Second Annual New Mexico Industrial Photographers Conference which will be held at Kirtland Air Force Base Saturday, Oct. 22.

Dick Hodges (3462-1), a councilman of the NMIP, coordinated arrangements for the program, and served on the steering committee.

Speakers from Sandia include Dan Fenstermacher (7224), who will discuss "Photo Micrography"; Bill Laskar (3462-1), "Applications of Photo Journalism in Industry," and Irv Lenz (7224), "Rocket Vehicle Photo Instrumentation."

Banquet speaker will be E. S. Purrington, who is vice president of the Meteor Photo Co., Detroit, Mich. His subject will be a report on his visit to the Conference of Industrial and Cine Photographers in London, England.



WHEELING ADOBES is old stuff to Marcial Valdez who has mixed, dried and used 8000 35-lb. adobes in the building of his almost completed five

room house in Corrales. With the exception of foundation, roof, wiring and plumbing, Marcial has done all construction in his 1300 sq. ft. home.

## Bill Mack Heads Singing Group at Livermore Laboratory

Bill Mack (8122-1) was elected new president of the Classified Chords during the Livermore Laboratory choral group's first fall meeting.

Plans were discussed for presenting various programs throughout the coming year, with a Christmas program first in the future. The group is currently meeting for rehearsals during Monday noon-hours in Bldg. 912, Rm. 249. Interested employees are invited to attend the rehearsals and join the group.

Other officers elected at the meeting were John Tanner (8225-3) vice president, Sharon Watson (8212-3) secretary, Maxine Watkins (8212-3) treasurer, Alyce Loveless (8114-3) publicity, Noel Eberz (8143-2) membership, and Dave Kirk (8114-3), property.

Ellen Cunningham (8233-2) will act as choral director and Hal Norris (8121-2) will be accompanist.

## M. B. Urbanski Died Sept. 28 After Being Ill for Short Period

Maxmilian B. Urbanski, 58, died Sept. 28 after a brief illness.



A jig bore operator, Mr. Urbanski had been employed by Sandia Corporation (organization 4251) since December 1956.

Survivors include his widow and a daughter in Albuquerque, a married daughter in Texas, and six brothers and sisters and his mother, all living in New Jersey.

Interment was at Mt. Calvary Cemetery in Elizabeth, N. J.

## Willard Libby Will Speak to Members of Meteorological Group

Willard Libby, former AEC Commissioner and now professor of chemistry at U.C.L.A., will speak before the Albuquerque seminar of the American Meteorological Society Oct. 19.

His subject will be "Meteorological Conclusions from Radioactive Fallout." The meeting will be at 7:30 p.m. in room 253 of the UNM Administration Building.

## Marcial Valdez's Do-It-Yourself Homebuilding Project Was Just That

One hundred and forty tons! This is the weight "hefted" by Marcial Valdez (5152) while building his new home in Corrales. He laid 8000 adobe bricks and they weigh 35 lbs. each.

On top of this, Marcial also placed 50 vigas, some weighing as much as 1000 lbs., in the house. For this chore and in pouring the concrete foundation as well as installing the plumbing and wiring, Marcial required a little help. Everything else he did himself.

This includes designing the five room house, constructing the adobe walls, laying the brick floors, window and doorway framing, roofing, and the million other little chores associated with construction of a house.

It has taken a year and a half. Marcial and his family will be moving in this week.

## Add on Later

The house contains a large living room, foyer, family room, kitchen, den and utility room. For the moment he will use the family room and den as bedrooms until next summer when he adds another wing. This will contain three bedrooms and a studio for his painting avocation. This will make the house into a "U" shape

with an enclosed patio between the legs of the "U."

The house now contains 1300 sq. ft.; when completed it will have 1900.

It sits on an acre and one-third a little northwest of Corrales. The view of the Sandia Mountains though the large picture window in the family room is excellent.

## Close to Perfectionist

As a homebuilder, Marcial is close to a perfectionist. Commenting on making the adobe bricks, he said, "The consistency has to be just right—too much sand and the adobe will crumble, too much clay and the brick will crack. You have to add just the right amount of straw to hold it together while mixing."

The perfectionist attitude also is evident in the precision-laid brick floors, the smooth plaster on the inside walls, the framing of doorways and windows and the careful roofing job.

"I still have a lot to do," he says, "but the first milestone is past. After we move in, there will be many finishing details to take care of, and of course, next summer will mean making more adobes and starting again."



INTERIOR VIEW in Marcial Valdez's almost completed adobe home in Corrales is shown above. He is standing where a large Indian fireplace will be located in the family room. Marcial has been working on the house when he could for a year and a half.

## Sandia's Safety Record

Sandia  
Laboratory

HAS WORKED  
1,215,000 MAN HOURS  
OR 35 DAYS  
WITHOUT A  
DISABLING INJURY

Livermore  
Laboratory

HAS WORKED  
3,840,000 MAN HOURS  
OR 1,698 DAYS  
WITHOUT A  
DISABLING INJURY