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ALBUQUERQUE, NEW MEXICO

MARCH 7, 1958

Livermore Branch Marks 2nd Birthday With Steady Growth

Two years ago banner headlines appeared in San Francisco and Oakland newspapers. The AEC had officially announced that Sandia Corporation was opening a branch at Livermore, Calif., to work with the University of California Radiation Laboratory.

Since that announcement, the Branch staff has grown rapidly, construction is partly completed on a new plant for the Sandia operation, and Sandians have started to play an important part in the community itself.

Starting as a department, the Livermore Branch has grown to a superintendency and then to a vice presidency. Personnel has jumped from the handful assigned to spearhead opening of the Branch to an enrollment now standing at 275 and increasing daily.

Growth Predicted

Recent estimates predict there will be 337 employees by the end of this June, growing to 585 by the end of June 1959.

Those first few "charter" members swelled so rapidly, however, that before the year was out their quarters were fast approaching the bursting point.

The pressure was taken off in October of last year, when the first building of Sandia's \$5,900,000 plant was completed. That was the personnel building. Work is now nearing completion on the warehouse, due to be finished by May 3. The model shop and physical test buildings and the central steam plants, are slated for completion by Aug. 31. The big office and laboratory building is expected to be ready for use by Nov. 30. At that time it is expected that the entire Branch staff will be in the new buildings.

City Has Grown

Since the Branch was set up, Livermore's population has swelled from about 10,000 to the present 12,852. For a while, this growth posed a housing problem. A lack of adequate sewage facilities stymied construction of subdivisions after Livermore voters turned down a bond issue early in 1956 to finance a new sewage disposal plant.

Last year, however, another election was held and the bond issue was passed 5 to 1. A campaign sparked by W. J. Howard (8100) played a major role in convincing voters in the second election that Livermore was bound to grow.

Confirmation that growth has become a characteristic of Liver-



BEFORE AND AFTER views of plant construction of the Livermore Branch show some of the progress made in the two years since the Branch was opened. At left is a portion of the area before construction started, showing an old barracks building later torn down and a parking lot now the scene of office building which stands approximately on the site of the old barracks location.

more came from a professional firm of planners, called in to survey the city area and to make recommendations for channeling future expansion. They came up with a plan, based on an estimated 1980 population of 60,000.

In the two years since the Branch was opened, Sandians have taken an increasingly active part in community affairs. They belong to local Parent-Teacher Associations, churches, civic clubs, sports groups and the Chamber of Commerce.

In short, the newcomers of two years ago have become a part of the community.

Atomic Energy Tech Advisory Panel Has Briefing at Sandia Corporation

The Technical Advisory Panel on Atomic Energy visited Sandia Corporation yesterday for a briefing on Sandia's activities in the nuclear weapons program.

Members of the panel who attended the briefing were Professor Dale R. Corson of the Cornell University Physics Department; Dr. Marshall G. Holloway, President of the Nuclear Products—Erco Division, ACF Industries, Inc.; John E. Jackson, Assistant Secretary of the panel and member of the Office of the Assistant Secretary of Defense, and Dr. Norman F. Ramsey of the Harvard University Lyman Laboratory.

Robert W. Henderson, Vice President, Development at Sandia

Corporation, is also a member of the panel and accompanied the group during their visit. The panel also toured Los Alamos Scientific Laboratory and the Sandia Corporation and University of California Radiation Laboratory at Livermore.

Accompanying the panel was Assistant Secretary of Defense for Research and Engineering Paul D. Foster and other high ranking military and civilian consultants.

The panel serves as advisor to the Office of the Assistant Secretary of Defense on research and development problems affecting Department of Defense programs in the field of Atomic Energy.

S. C. Hight Speaks At Bell Colloquium

S. C. Hight, Director of Research at Sandia Corporation, will discuss Sandia's place in the nuclear weapons program at a colloquium March 28 at the Bell Telephone's Holmdel Laboratory in Red Bank, New Jersey.

Prior to giving his talk Mr. Hight will attend the Institute of Radio Engineers (IRE) convention in New York City March 26 and 27.



GLENN O. BRIDGEMAN, 2152-3, (seated left), is the first of a group of Sandia Corporation employees to sign up under the new machinist apprenticeship program. Looking on are R. J. Hansen, 2100, (seated) and (standing, L to R) Ralph W. Griffin, 2152-1, program secretary, and W. F. Peay, 2152, chairman of committee.

Apprenticeship Program Officially Starts At Sandia Corp. March 3

C. W. Campbell To Be Sup't 8200, Livermore Branch

C. W. Campbell (7200) will assume a new post at Livermore Branch of Sandia Corporation in June. He will be head of the 8200 Organization and will have su-

Sandia Corporation's apprenticeship program got officially underway Monday, March 3.

Twenty-five apprentice machinists have started the program which provides for eight 6-month periods of training including bench work, shaping, grinding, turning and boring, milling, drilling, special machines, shop theory and related classroom instruction.

Craft training is to be provided by Mechanical Department, 2150.

Shop theory and related classroom instruction, totaling 900 hours, will be provided by General Training and Education Division, 3124.

Apprentices in the group are:

John M. Farmer and Kyle B. Williams (both 2151); Glenn O. Bridgeman, William J. Costales, William L. Gibson, James L. Hay, Richard W. Hill, Charles V. Ladig, Jr., Bobby E. Musgraves, Walter E. Myers, Antonio L. Saavedra, Emiliano Sanchez, and Thomas V. Tormey (all 2152).

Jerry Cole, Victor E. Dailey, John A. Garcia, and Robert L. Ledgerwood (all 2153).

Larry E. Bowen, Tony Garcia, Jake F. Gonzales, John I. Malpas, Jr., Walter C. Mooney, Jr., and Olen D. Potts (all 2154); and Robert G. Tant and Richard F. Turnbough (2234).

Setting up the program was a Joint Apprenticeship Committee containing three members designated by the Corporation and three members by the Atomic Projects and Production Workers, Metal Trades Council.

Successful operation of the program is the responsibility of the Joint Apprenticeship Committee.

Members of the committee are: A. J. Fisher (2234), A. J. Fuller (3124), R. W. Griffin (2152), W. F. Leverenz, Jr. (2153), W. F. Peay (2152), and A. C. Taylor (2153).

K. R. Dickerson (3124) is Administrator of Apprentices.

Mr. Dickerson worked with the Committee in developing the course of study. He assists in coordinating the training and will maintain the master record of each apprentice's progress.

through the years, Mr. Campbell is now serving on the Sandia Classification Board, Salary Committee and is chairman of the Staff Aides Committee.

Active in Coronado Club work he has been on the Club's Board of Directors, and has worked with Club leagues for a number of years. He was a member of the committee which planned the Sandia employee hospitalization and surgical plan and served a number of years on the Community Chest Committee.



C. W. Campbell

pervision over purchasing, personnel, medical, security, industrial relations, and plant services for that area.

It is expected that he will take up his new duties about June 2.

Mr. Campbell joined Sandia in July 1947 as Administrator of "Z" Division. In January 1948 he was named Manager of the Administrative Department and in July 1953 became Superintendent of the organization now known as Research and Development Staff Services.

A native of Paxton, Ill., he attended public school there and in 1931 graduated from Knox College.

Following college, Mr. Campbell was an auditor for Continental Casualty Company from 1931-1933 and then was auditor for the State of Illinois from 1933 to 1936. In 1936 he became Chief, Accounting and Production Control, Social Security Board, where he served until 1940 when he became Chief Project Administrator for the U. S. Engineers in Bermuda.

After service in the Navy he was Chief Auditor of the War Assets Administration in Chicago until he came to Sandia.

Mr. Campbell started to work for Sandia when it was a laboratory under the University of California. He helped organize and put into operation the first steps of Sandia Corporation's benefits plan and also helped start the Sandia employee recreation program.

A member of a number of Sandia Corporation committees

To Remodel Bldg. 626 For Tech Art Division

Bids were requested this week by the AEC for interior modification of about 6000 square feet in Bldg. 626. When completed in late spring, the area will be occupied by the Technical Art Division (2463), now located in Bldg. 802.

The job will include temporary fencing, connections to existing utilities, rewiring for light and power, heating system modifications, painting and carpentry work. Cost is estimated to range from \$20,000 to \$30,000.

The AEC will request bids next week for modifying the third floor of Bldg. 382 in the new ALO headquarters on Sandia Base.



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Outside Employment

The age-old question of the ability and propriety of serving two masters at the same time is confronting a number of Sandia Corporation employees. The problem raises questions of policy and as a result it is best to express the position of the Corporation to employees presently employed on the "outside" or contemplating such employment.

Employees should realize that the Corporation receives bids and places business on a competitive basis with many companies throughout the country, including those in New Mexico. It is important to our relations with all suppliers that no situation exist which might be construed as placing any one supplier in a more favorable position than his competitors. Such a situation could appear to exist where the skills, know-how, and knowledge possessed by our employees are made available to a supplier through dual employment.

Regardless of how scrupulously a Sandia employee may conduct himself in the outside employment, the mere fact that he is working for an actual or potential supplier could provide a basis for a claim of unfair competition by other suppliers.

This situation must be avoided and therefore Sandia Corporation must request its employees not to engage in employment with any outside company, partnership or individual doing business with or bidding for business with Sandia Corporation, or doing business with or bidding for business with any other company involved in the nuclear weapons business.

This prohibition applies especially to employment with firms who are engaged in the following activities. These are intended only as examples and are not all inclusive.

1. Production, manufacture, or fabrication in accordance with Sandia Corporation specifications.
2. Engineering, development, drafting services, manual preparation or editing, or testing devices.
3. Building construction, construction engineering or architectural services.
4. Wholesale suppliers of materials or products.
5. Sales representatives of any of the foregoing types of activity.

In case any employee has doubts regarding the propriety of any outside employment he should consult the Superintendent of his organization.

Corporation employees must at all times conduct themselves in such a manner as to maintain relations free from any possible appearance of favoritism or unfair practices.

Congratulations

Born to:

Mr. and Mrs. Ted Krein (1247) a daughter, Jereann, on Feb. 8.
Mr. and Mrs. D. S. Finocchio (1463-3) a son, David Bruce, on Feb. 21.
Mr. and Mrs. Edward L. Harley (7111) a daughter, Megan Suzanne, on Feb. 24.
Mr. and Mrs. M. F. Stewart, Jr., (7210) a son, Mark Douglas, on Feb. 18. Gertrude is on leave from 3153-2.
Mr. and Mrs. F. M. Wood (5143) a son, Sam, on Feb. 25.
Mr. and Mrs. Audie Romero (2461-5) a daughter, Yvonne Georgia, on Feb. 22.
Mr. and Mrs. Rudy Johnson (8132-2) a son, James Mark, on Feb. 19.
Mr. and Mrs. Hudson Dennis (1441) a son, Hudson Earl, on Feb. 19.
Mr. and Mrs. David R. Gomez (2524) a son, Lawrence Henry, on Feb. 25.
Mr. and Mrs. Richard E. Womelsduff (3161) a son, Gary Eugene, on Mar. 2.
Mr. and Mrs. Charles T. Gebert (1411-2) a son, Mark T., on Feb. 19.

Sympathy

To J. M. Kelly (2224), R. P. Kelly (1200) and T. A. Kelly (2551-2) for the death of their mother in Albuquerque on Feb. 23.
To Henry Sellers (2151-1) for the death of his father in Indiana on Feb. 21.
To Lillian (2711) and Clarence Sandin (2514) for the death of Mr. Sandin's mother in Albuquerque on Feb. 13.

Weddings and Engagements

Now making their home at 2912 Santa Clara SE are Harlee Townsend, Jr. and his wife, the former Jean W. Braswell (7411-3).
The couple was married Feb. 1 in Juarez, Mexico, and then left on a rather unusual wedding trip. They drove through the mountains of southern Arizona on a javelina hunt.
Jean has been at Sandia since July 1952.



Mrs. Townsend Miss Johnson

Co-workers of Barbara L. Johnson (5512-1) celebrated with cake and coffee this week when she announced her engagement to Army Lt. Edwin F. Click, who is on temporary duty in Baltimore, Md.

Barbara, a graduate of the University of California, has been with Sandia since July 1957.
The wedding is scheduled in May.

Best Wishes

Best wishes are conveyed to K. D. Boultinghouse (7412-1) on his recent marriage in Indianapolis, Ind., to Jan Duff. The couple is living in Albuquerque.

Jaycee Vice President

The Albuquerque Junior Chamber of Commerce recently elected Thomas E. Zudick, of Sandia's Public Relations Division 3125, as first vice president.

In this capacity "Tom" will be responsible for establishment of the Jaycees leadership training program and for membership orientation.

He has been a member of the Jaycees since 1952 and has been a board member for several years.

New Homes

Mr. and Mrs. "Bob" Wehrle (1464) moved into their new home at 4244 Broadmoor NE in time to celebrate their 13th wedding anniversary.

Happily settled in their newly built home on Mesilla Ave. are Dave McCoy (4131) and his wife, Flossie (7422).

Also listing a new address are Mr. and Mrs. Bill Roherty (5121), who now live at 1921 Saint St. NE.

New home and new baby for the Richard Womelsduffs (3161). Their address is now 9632 Prospect Ave. NE.

Added to the list of new home owners at Livermore are Pat Mann (8212-4), whose address is 650 Kennedy St., and Bill Jenkins (8221-2), who moved in at 422 Kelly St.



TEXAS SEED is attributed by E. W. Wolf (2711) for the unusual size of this carrot grown in his garden at 2830 Graceland NE. The carrot tipped the scale at a whopping 3 lbs., 2 oz.

Archers Welcomed

An archery club is being formed for Sandia Base civilian and military personnel and their families with the first meeting set for Mar. 12 at 7:30 p.m. in the new Base Gymnasium.

The club plans to set up an archery range in an area to be determined later and to submit an application for membership to the National Field Archers Assn.

Further information may be obtained from Jack Voss, Ext. 43137, or Joe Platt (5521), Ext. 24136.

Toastmaster Contestant

James A. Williams (1444-1) will represent Sandia Toastmasters Club No. 765 at the area contest on Mar. 15, which will include winners from all clubs in Albuquerque and Gallup.

Alternate contestant from the Sandia Club will be Bill Puder (7223-1).

Juan D. Espinoza Dies in Accident

Funeral services were held Feb. 24 in Belen, N. M., for Juan D. Espinoza, 44, a Sandia employee for the past year.

Mr. Espinoza was a janitor in division 2474. He was killed in an auto accident near Socorro three days earlier.

Survivors include his widow and two daughters, age 16 and 18.



J. D. Espinoza



POURING TEA at the organization meeting of the new Sanado Woman's Club is Mrs. Charles Justice (AEC hostess). With her (standing, L to R) are: Mrs. G. C. McDonald (secretary), Mrs. Frank E. Burley (membership chairman), and Mrs. James W. McRae (president). More than 250 women attended the meeting.

Sandianotes . . .

'Sanado Club' Selected As Name Of New Coronado Club Woman's Group

Sanado Woman's Club was the name chosen for the newly-established Coronado Club woman's organization at its first meeting at the Coronado Club Mar. 3. The name, submitted by Mrs. Joseph Taylor is a combination of the words Sandia and Coronado.

Acting president Mrs. James W. McRae said the purpose of the new club is "to welcome newcomers and acquaint them with base and civic activities. The club will also promote and encourage any base or community project which may seem desirable."

More than 300 women attended the first meeting, of whom 250 submitted applications for membership.

The next meeting, planned for 2

p. m. Apr. 14, will be a dessert tea at which time members will vote on the club's constitution and nominate officers.

Speaker at the meeting will be Dr. Estella Ford Warner, who will discuss her recent trip to India as a representative of the U. S. Public Health Service. The club will also see color slides of her trip.

On the nominating committee for next month's election are: Mrs. Harry A. Weber, chairman, Mrs. Don Salmann, Mrs. B. J. Weston, Mrs. A. Burton Metzger, and Mrs. F. C. Rupp.

Eligibility requirements for membership in the club are that 90 per cent of the members must be members or wives of members of the Coronado Club.

Little Theatre

"Petticoat Fever," a three act comedy to be presented at Sandia Base's Little Theatre on Mar. 21-22, will have in its cast Jack Scheerer (7411) and Neil Botsford (1222).

Other Corporation employees or dependents actively engaged in the production are: Grace and Bob Neiman (5150) handling publicity; Olive Peterson, Florence Doherty and Lola Jamme, managing wardrobe, and Phyllis Schatz, assisting with stage direction.

Tickets may be purchased from any member of the "Sandia Players" or at the door of the old base chapel on the evenings of the performance.

Back at Work

Recently returned after five weeks' illness is Howard Lafond (7232-2).

Mary Hume, secretary for Department 2520, returned to work last week after a recent illness.

Retirement Party

Co-workers in 2722 gave a royal send-off to John England, who retired last week after nine years at Sandia.

In addition to a huge cake with appropriate poetry, fellow employees presented John with an exposure meter, fishing tackle and a slide projector, all for his leisure-time enjoyment.

New Son

Mr. and Mrs. Robert Neiman (5150) have welcomed another son into the family. He is three-year-old Ricky. The Neimans have another three-year-old adopted son and also an older boy of their own.

Las Vegas Journey

Lee Heames (5132) was able to take advantage of a door prize won by his wife at the opening of a new firm in Albuquerque. The prize—an all-expense paid trip to Las Vegas, Nev.

Speaks at Texas U

W. W. Bledsoe (5120) recently spoke before a group of graduate students of the Department of Mathematics at the University of Texas, Austin.

His subject was "The Mathematician in Industry."

20-30 Prexy

Dick Cook (8113-2) will be installed as president of the Livermore 20-30 Club on Feb. 11, at an installation dinner-dance in near-by Dublin.

His election was unique in that Dick has only been a member of the organization for seven months and is the only Sandian in the club.

The organization is devoted to civic service and its 25 members represent a cross section of Livermore businessmen. The Livermore chapter has been active for several years and has assisted the local Chamber of Commerce in promotional projects, participated in charity drives, and is presently placing picnic tables in one of the city parks.

Teaches at UNM

Among the group of Sandia employees teaching courses at the University of New Mexico is Dick Hildner (5122).

Spring semester Dick is continuing a class in Calculus and Analytical Geometry which was started last fall. The class meets Tuesday and Thursdays at 8 p.m.

AWOL Doberman

"Soaring" Sam, the dancing Doberman, took a long leap one day recently over the six-foot fence of his owner, Livermore's Betty Vineyard, 8212-1, and landed in a strange new world.

Confused, Sam tried to jump back home, but found himself in the wrong yard. Off Sam went, fence hopping through the neighborhood, looking for his own yard. Neighbors frantically called for Betty to come collect her leaping pet.

When Betty got home a search began through the Livermore backyards. A hectic while later, an exhausted Sam was located in another neighbor's yard, having jumped the wrong fence again. He's back home now and Betty doubts he'll ever go fencehopping again.

Knowledge of Math Needed To Meet Tomorrow's Problem

Training in mathematics, "the universal language of science," is essential if today's students are to cope with the complex problems to be found in the business and technical world of the tomorrow.

This was the advice given by Glenn A. Fowler, Vice President, Research, of Sandia Corporation, who spoke before 256 mathematics teachers from New Mexico and West Texas public schools.

The conference, "Whither Mathematics," was the second sponsored by the mathematics section of the New Mexico Educational Association. It was held in Portales Feb. 22.

Mr. Fowler pointed out that large businesses and scientific laboratories are relying more and more on mathematical techniques to predict business trends and to synthesize experiments which could not otherwise be done in the laboratory.

As an example, the vice president said that new weapon designs are frequently worked out with

"mathematical models" prior to the more expensive and conventional method of full-scale tests.

He also described the use of computers in studying such intricate problems as the defense of cities against bombing attacks. A raid on a city can be carried out in mathematical model form by electronic computers and the results used to evaluate the general effectiveness of various systems to defense.

Mr. Fowler urged the teachers to make mathematics as interesting and dramatic to the student as experiments in the other sciences. He suggested that mathematics be linked with current events in the classroom by showing the need for mathematics in such things as the development of the earth satellites.

In conclusion, Mr. Fowler said, "The student who is well-trained and proficient in mathematics is the one most likely to succeed in the scientific world of today and the business world of tomorrow."

Bell System Quality Control Scientist Speaks

A prominent Bell System scientist will be principal speaker at the Mar. 10 meeting of the Albuquerque Section, American Society for Quality Control.



Dr. Olmstead

The speaker, Dr. Paul S. Olmstead, consulting analyst for the Bell Telephone Laboratories, will address the group at 8:15 p.m. in Room 100 of the UNM Biology Building. His topic will be "Statistical Control in Engineering Research and Development."

Prior to the regular meeting, Dr. Bernard Ostle (1292) will address the Educational Session on the subject, "Developing a Designed Experiment," at 7:30 p.m.

Dr. Olmstead will outline steps necessary in a good quality control program for purposes of production and research and development problems. Specific attention will be given to peculiarities inherent in research and development data, using as an illustration examples relating to inter-laboratory testing of coal samples.

Two Return to Sandia After Military Service

Back on their jobs at Sandia are Harold J. Price and Donald J. Roth after absence for military service. Harold served three years in the Navy along the



H. J. Price D. J. Roth

East Coast. He had been employed by the Corporation for three years before leaving and is now working on automatic data handling systems (division 1421).

Donald was only at Sandia for two months after his graduation from Missouri School of Mines before he left for six months Army duty. He served with the Corps of Engineers at Fort Belvoir, Va., and is now in organization 1284.

B. L. Basore to Tell Radio Club Members Of Satellite Signals

Bennett L. Basore (W5ZTN) of the Dikewood Corporation will address the Sandia Base Radio Club March 11 on the subject, "Measurements of Radio Signals from Artificial Satellites."

The meeting will start at 8 p.m. at the Radio Club Room on Sandia Base. John S. Cundy (7232) is secretary of the organization.

EDPM Card Punch Work Subject of AIIE Program Mar. 17

Monday, Mar. 17, George M. Wood will address the Albuquerque Area Chapter of the American Institute of Industrial Engineers on the topic, "Application of Punched Card Accounting to a Control Problem."

Time of the meeting is 7:30 p.m. and the place is Reddy's Rendezvous at Fifth and Silver.

Mr. Wood, IBM Data Processing Representative for Sandia Corporation, has been with IBM for two and one half years. He is here in Albuquerque to supervise the installation of the "705" Electronic Data Processing Machine at Sandia Corporation this summer.

The talk will be supplemented with slides and literature and a discussion period, it was announced by Dave Poli (2550), publicity chairman.

Welcome Newcomers

Feb. 17-28

New Hires	
Albuquerque	
Delbert R. Fritts	2473
Rodman D. Golding	7232
Consuelo L. Lopez	2163
Margaret M. Lorenzo	3152
Alton T. Purington	2231
Janice E. Robertson	7225
Betty R. Shaffer	3151
Dorothy R. Shaffer	7225
Arizona	
Mary E. Hall, Phoenix	7423
California	
Doris R. Davis, Livermore	8212-3
Dorothy M. Wiemken, Pleasanton	8213
Michigan	
Richard H. Smith, Niles	8213
Missouri	
Margaret L. Huelsewede, St. Louis	7225
Betty J. Lagermann, St. Louis	7225
Wilbur D. Walters, St. Louis	2461
Washington	
Harold K. Remington, Seattle	8222-1
Rehired	
Fern L. Blair	7226
Barbara E. Eaglin	7225
Dialthe J. McGee	4343
Alfred C. Schwartz	1464
Cuyahoga Falls, O.	1464
Donald C. Wunsch, Las Cruces, N. M.	1464
Returned from Military Leave	
Harold J. Price, Eatontown, N. J.	1421
Donald J. Roth	1284
Gary L. Sheldon	8132-2
Returned from Leave	
Joanne N. Reese	2162

Caravan Club Members To Visit Control Tower At Kirtland AFB

A tour of the Air Traffic Control Center of the Civil Aeronautics Administration at Kirtland Air Force Base is planned March 12 by the Amateur Radio Caravan Club of New Mexico.

The club will meet "on the air" at 7:30 p.m. on 29.6 megacycles and proceed to the rendezvous point by 8 p.m. Arrangements for the tour were made by Carl Franz (1471).

SERVICE AWARDS Ten Year Pins



Harold E. Keith 2543 March 11, 1948 S. Sylvan Harris 2461 March 8, 1948

Five Year Awards

March 7-13
Gene C. Newlin 8130, Richard E. Brian 5532, Gene A. Daniels 7412, Norman W. Berg 1444, Raymond P. Lewis, Jr. 2544, Arthur S. Kraft 2151, Verna A. Clark 2231, and Elmer G. Borbely 4151.
March 14-20
Pete C. Morris 1444, Harold F. Maciolek 2533, Vincent J. Newman 2462, John A. Price 1413, Louis K. Stam, Jr. 1245.
Sam Rodocovich 2742, James L. Talley 2421, Anthony N. Chaves 2721, Basil K. Laskar 7462, and Johnson B. Jordan 2114.

Two Year Certificates

March 7-13
Robert J. Luikens 1215, Ernest D. Niper 5243, Edward R. Barber 5214, Boney Vigil 4135, Donald L. Hayes 7122, Charles F. Drummond 7411.
Betty S. Nagel 7322, A. Darlene Kraft 7225, Cid H. Dalin, Jr. 2462, June O. Brooks 2112, and Priscilla R. Benelli 2462.
March 14-20
Georgie E. Pettit 7225, M. Eileen Taylor 7225, Vivian M. Goodwin 2471, Jane Stanton 4333, Bruce M. Langford 1464.
Stuart A. Ravenbyrne 1626, Alan C. Skinrood 5224, Patricia A. Scott 4112, Dennis J. Adkins 1611, B. Doreen Buck 4353, and Elizabeth R. Matlock 3164.



Oreste Ganzerla, Jr. —special black, white technique—



Wallace Ives —landscapes, seascapes—

Two Sandia Artists Display Works At Exhibit In Albuquerque Theatre

The Lobo Arts Theatre is currently featuring in its lobby an art exhibit by Wally Ives and Oreste Ganzerla, Jr. (both of Technical Art Division 2463).

The canvasses by Wally include a seascape, several landscapes and a painting of a pair of ringnecked pheasants. All are in oil.

Wally received a scholarship to the Kirkland Art School in Denver and later attended the Denver Art Institute. In 1938 he was among a group of students from the institute who left for Europe to study in Munich, Germany, under Prof. Theodor Scharf. He has

been at Sandia for the past 10 years.

"Rusty" uses a medium of enamel on board, a process he developed when working for a lead company mixing paints. The subjects are in white and grey variations against a black background. His exhibit at the Lobo includes a New Mexico landscape, a bull-fighter, and a night scene of the Arc de Triumpe.

A native of Albuquerque, Rusty is a self-taught artist and did some defense work in illustrating before coming to Sandia two and one half years ago as a technical illustrator.

Professional Engineers Honor A. B. Metzger At State Convention

A. Burton Metzger, Corporation Safety Director, was recently honored with the New Mexico Society of Professional Engineers Award in recognition of his "... untiring efforts in behalf of the engineering profession and unselfish service to the Society and his fellow engineers."

The award was presented Feb. 23 at the banquet of the annual state-wide convention of the Society at Santa Fe, which terminated the observance of National Engineers Week.

This is the second time that Mr. Metzger has been honored since coming to Sandia Corporation. In 1952, at the international convention of Sigma Phi Delta, professional engineering fraternity, he was elected first honorary member in the history of that organization and was initiated into the fraternity on Sept. 20 of that year at Los Angeles, California.

He served two terms of office as National Director of the professional engineering society and is currently National Chairman of the Committee on Resolutions. He has been active in the Society since 1942.

ASME Members To Meet Mar. 19

Two representatives of the New Departure Bearing Company will address the Mar. 19 meeting of the New Mexico Section, American Society of Mechanical Engineers.

Instrument bearing engineering will be discussed by F. D. Allman, supervisor of regional engineering for New Departure's western region, and M. D. Hecht, Resident Field Engineer, and will cover ball bearing problems in nuclear applications.

Included on the program, which will begin at 7:30 p.m. in Room 100, UNM Biology Building, will be color movies on the manufacture, care and handling of instrument ball bearings.

Missile Welding Talk on Program Of AWS Meeting

Welding for Missile Production is the title of a speech to be presented by a California industrialist at the March 13 meeting of the Albuquerque chapter, American Welding Society.

The meeting will be held at 7 p.m. in Room 103 of the UNM Civil Engineering Building. The speaker, Harlan L. Meredith, is a representative of the Airline Welding and Engineering Co., Hawthorne, Calif.

Boy! Is This Income Tax Time?

(Observations of Andy Charles, deduction of B. N. Charles, 5121, as of Nov. 6, 1957)



What deadline?



Retirement Credit! Who, me?



Instruction Book? Who reads?



Wow, I'm a deduction!



You should see my refund!

Plane Lulls Children to Sleep; Makes For Peaceful Traveling



Ever take your children on a long automobile trip and have them ask, "Where are we going? How much farther is it? When will we get there?" and other interminable questions?

Well Sherrill "Woody" Woodall (7412) has the answer for it. When he takes his three children (ages 7, 5, 2) on a trip he flies them in an airplane. "The steady drone of the engine puts them to sleep quickly," he says, "and the trip is completed in peace."

Woody has been a flying bug since he was in high school before World War II. After school hours he worked at odd jobs to raise money for flying lessons on weekends and during the summer. "My first plane was a Piper J-3," Woody remembered, "with no brakes and a tail skid for a rear wheel. For a runway we used cotton fields outside of Dallas."

Since those days Woody has had his own planes and has been flying steadily for more than 18 years.

Studied Drafting

During World War II Woody served in the Army but couldn't fly because of his eyes. Stationed at the time in Colorado, he used his off-hours to study drafting at the University of Colorado. He is now employed at Sandia as a drafting checker.

After the war Woody attended flying school under the GI Bill at the Allegheny County Airport in Pennsylvania where he lived in a room at the end of the runway. At the school he earned his commercial pilot's license, ground instructor, flight and instrument ratings.

Upon graduation, Woody stayed on at the school as an instructor. It was at the school that he met his wife, who was taking flying lessons. His wife is now a rated pilot.



FLIGHT INSTRUCTOR for the Crossroads Flying Club is Sherrill "Woody" Woodall (7412) who prepares to take off in one of the club's three Piper Tri-Pacers, the popular small sports plane.

Since joining Sandia in 1954 Woody has continued his interest in flying through membership in the Crossroads Flying Club, an association of private pilots. The club has purchased three Tri-Pacer Piper airplanes and one Taylorcraft trainer. The planes are hangared at Cutter-Carr Airport on the West Mesa and at the new Paradise Valley Airport south of Albuquerque.

Woody serves as Flight Instructor for the club and also for the Crossroads Flyers, an association of student pilots working for their licenses. The "Flyers" have at their disposal a Taylorcraft train-

ing plane in which to earn their ratings. When members of the "Flyers" receive their licenses they become eligible for membership in the flying club.

To Purchase Plane

The club's present plans include the purchase of an airplane in the 160 to 180 mile an hour class for use by the members, Woody said.

Sandians among the club's 28 members include Phil Leiserson (3152), Hank Tendall (1215) and James May (1218).

Safety is the watchword of the club, which was responsible for its winning second place for safety and efficiency in the 1957 National Flying Club Contest.

Safety is also quite important to Woody who experienced a brush with the reaper once because his flying partner didn't fill up the gas tank. On a flight from Washington, D. C. to Pittsburgh, the plane landed at the Pittsburgh airport with only enough gas left for five minutes of flying.

Speaker Tells of Materials Engineer In Atomic Energy

The role of the materials engineer in the atomic energy program will be discussed at the



R. C. Sutton

Mar. 20 meeting of the Albuquerque section, American Society for Metals.

Featured speaker will be Roger C. Sutton, metallurgist with the International Nickel Co., Inc., of New York City.

The evening activity, dubbed Student Members Night, will begin with a dinner at 6:30 p.m. at La Hacienda Dining Rooms in Old Town. The meeting will follow at 8 p.m. Reservations may be made by calling Byron Wickett (1624) at Ext. 25163 or Charlie Arthur (1624) at Ext. 42250.

Patent Issued AEC In Name of Sandia's Robert Creveling

Patent number 2,817,019 has been awarded the AEC in the name of Robert Creveling (1413) for his invention of a shock-excited oscillator.

The oscillator, used in precision timing devices, was developed in connection with Mr. Creveling's work in the Special Problems Division. It is his first patent at Sandia, although he has four more to be submitted.

Lab News Photog Wins Top Honors

Bill Laskar, Sandia Lab News photographer, was one of nine photographers to earn a distinguished print award at the recent conference of the Photographers Association of New Mexico.

Bill's prize-winning photograph was taken for the Sandia Lab News and showed a craftsman spinning aluminum. The picture appeared in the Jan. 10, 1958, issue.

Judges, making the awards on the basis of total points scored, praised the photograph for its technical quality, lighting and story telling qualities.

Feature Length Movie On Noon Hour Program

"Oriental City" and "An Island Nation" will be featured during the Mar. 11-14 noon hour movie program.

The Corporation's offering for Mar. 18-21 will be the first half of "The Second Greatest Sex," a technicolor musical comedy of Kansas in the horse and buggy days. The feature-length movie stars Jeanne Crain, George Nader, Kitty Kallen and Bert Lahr.

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

Long Service Record With Sandia Plus Job Awareness Discovered As Features Of Average Woman Supervisor

Blond or brunette, single or a grandmother, high school graduate or holder of a college degree, the women pictured here have one thing in common—they're among Sandia Corporation's 20 women supervisors.

Together they represent 153 years of employment at Sandia, more than half of the time as a section supervisor. Average time on roll is seven and one half years.

The percentage of women in the nation's work force rose from 15 per cent in 1870 to an all-time high of 35 per cent during the war year 1945. The figure has dwindled only slightly.

More women are employed in clerical and sales jobs than in any other occupation but there is a growing acceptance of women in engineering, science, other pro-

fessional fields and managerial positions, formerly the exclusive domain of man.

Women Active

With the increased awareness of opportunities has come more responsibility. Training representatives report that women supervisors participate actively in management courses and are interested in personal progression and development.

The average age of Sandia's women supervisors is 45 years, but the age range actually spans 26 years. Only two are single and the remainder have a total of 25 children. Several are grandmothers.

College degrees are held by five and five other women have attended colleges or universities. Two have taken graduate courses toward a higher degree. Nearly half have attended business col-

leges or received other specialized training.

In addition to being section supervisors, two of the women are also classed as Staff Member, Technical. The remainder are in "General" or "Administrative" categories.

How They Started

And how did these women begin their careers at Sandia? Six were secretaries, three were math analysts, two were clerk-typists. Two began as personnel employee interviewers, two were key punch operators, and others started as a requisition control clerk, industrial nurse, document clerk or in stock records. Only one was hired as a supervisor.

Supervisors in the secretarial or typing service sections are: Oleta M. Morris (2333-3), Winifred M. Fellows (7225-1), Kathleen M.

Sadler (7225-2), Gertrude M. Byrne (7225-3), Lila Mae Ness (7225-4), Ilva R. Baldwin (7225-5), and Martha J. Tuffs (7225-6). Data reduction section heads include Beulah E. Sutherland (5241-1), Mabel L. Hendricks (5125-2) and Bertha M. Merrill (5241-2). Key punch section supervisors are Evelyn L. Garman (4135-4) and Joan F. Adkins (4142-3).

Women supervisors in other types of work are: Wynne K. Cox, Groups I & III Distribution Section; Claudine H. Sproul, Tracing Files Section; Patricia E. Farley, Employee Records; Irene E. Palmer, Nursing; Mavis G. Randle, Central Development Files; Frances C. Hale, Drafting Service; Cecile B. McIntosh, Administrative (Livermore Branch), and Bertha R. Allen, Library.



WOMEN as leaders fill need in industry—some of Sandia's 20 women in supervisory positions.

Sandia Employees Taking Part In Current Nevada Experiments

Several Sandia Corporation employees are currently participating in AEC experiments at the Nevada Test Site which are being conducted to assure the nuclear safety of weapons during shipment and storage.

The first test this year in the continuing program was conducted Feb. 22 with a device placed in a specially-designed tunnel chamber dug horizontally under a mesa at Yucca Flat. One or two more tests are planned in the next two months.

Nuclear Reaction

Dr. Alvin C. Graves of Los Alamos announced recently that the tests do not involve stockpile weapons "but are experiments intended to determine which among several designs afford maximum assurance of safety in handling and storage of operational weapons." He said it is possible that experiments with extreme designs "may involve some nuclear reaction as part of our effort to learn how to avoid them."

Experience has shown that if a nuclear reaction does result during

these experiments, it is of a low order of power. As some measure of air contamination may result, the experiments are generally fired underground. There is then no effect observable off-site, as was borne out by the Feb. 22 experiment.

Livermore Involved

Ten Sandia Corporation employees from Albuquerque and six

Sandia Corporation Hockey Players Make Plans for Next Year

Although the ice hockey season is virtually ended in Albuquerque, Sandia enthusiasts of the fast sport are mapping plans for summer practice sessions.

This has been the first year that Sandia Corporation players were eligible for positions on the Sandia Base team. Eight men made the team. Although all of the players had previous skating experience, actual hockey play varied from none to considerable.

Corporation forwards include: Bob Desjardins (1473) of Albuquerque; Rol Hewitt (5215) of St. Thomas, Ontario; Werner Kuhn (1624) of Springfield, Mass., and Bud Stearns (1282) of Orleans, Vt. Sandians in defense positions were: Staughton Bell (5122) of Waltham, Mass.; Joe Chouinard (1413) of Beaumont, Quebec; Bud LaMoria (2353) of Marquette, Mich., and Don Rigali (5142) of St. Paul, Minn.

Ages of the players range from 22 to 38.

During a February meeting of Corporation players three other Sandians showed interest in playing next year. They were John Kuruzovich (5213), Don Argyle (5215) and Ron Garin (7411).

Another meeting will be held before June at which time practice sessions will be set up. Details of the meeting will be announced in advance in the Lab News.

from Livermore are taking part in the tests.

From Livermore (Org. 8120) are: H. Clyde Walker, Ira B. Ward, Merle Bowman, Robert J. Tockey, Walter A. Maupin, and John H. Fuqua.

From the Full Scale Test Division I (5231) are: G. P. Stobie, Robert J. Burton, George Duffield, William A. Crosby, William E. Holder, Edwin L. Jenkins, Jr., John P. Johnson, and Fred Shoemaker.

From the Material and Field Services Division (7232) are Adam Trujillo and Arthur R. Verardo.

Livermore Basketball Team Wins 5th Game

Livermore Branch cagers chalked up their fifth win of the season with a last minute 46-44 victory over the Rad Lab Loaders.

With the score tied, Karl Tucker (8212-3) tossed in two free throws to give the Sandia team the win. Arnold Schuknecht (8212-5) was high scorer with 17 points to his credit.

Earlier Sandia beat the Cowboys, a local Livermore team, 54 to 38. Don Gregson (8124-1) was the star of that game, scoring 17 points.

C. H. Hoefs Assigned To Test Operations Office of ALO Here

Carl H. Hoefs, who has been a project engineer with the AEC's Las Vegas (Nev.) Branch Office, has reported to ALO where he is now a planning specialist in the Office of Test Operations.

Mr. Hoefs has been with the AEC since 1952 and has served as office engineer and project engineer in all nuclear tests since 1952.

Prior to his employment with the AEC he was with the U. S. Army Corps of Engineers. From 1943 to 1946 he was on active duty with the Army.



HORSESHOE CHAMPS of the Sandia Employees Doubles tournament show their winning styles to C. J. McGarr (2200). The champs are (L to R) E. P. "Ted" Monahan (2234) and Sam DeHaan (2223).

Livermore Golfers Enter Tourney of UCRL Golf Club

Livermore Branch golfers are slated to play in a summer-long "traveling" tournament sponsored by the UCRL Golf Club.

According to Barney Iverson (8114-2), vice president of the Rad Lab Recreation Association Golf Club, the tournament will be played on a different course each month at Berkeley, San Mateo, San Jose and Alameda.

The season will end in October at Pasatiempa, a championship course near Santa Cruz Bay, the site of the annual UCRL play-off tournament. Sandia golfers are planning a family week-end there at that time.

Last year Sandians won five trophies in competition with UCRL and Berkeley players.

Basketball Standings

Team	(2-27-58)	
	Won	Lost
5500	8	0
2400-1	6	0
2500	6	1
7400-1	6	2
7200	4	2
4100	4	3
5100	4	3
1600-1	3	3
1200	3	5
1600-11	3	5
2100-1	2	4
7100	2	4
2400-11	2	5
5200	2	6
1400	1	6
2100-11	0	7

Secretaries Ass'n Workshop Seminar Saturday, Mar. 15

A secretarial seminar will be held by the Albuquerque Chapter of the National Secretaries Association on Saturday, March 15, at the Hilton Hotel.

The day-long program is open to all secretaries and office personnel who wish to attend.

The workshop-seminar will include discussions on new secretarial practices and procedures, telephone manners and a panel on "What a Boss Expects of a Secretary" and vice versa.

Speakers will include Judson Ford (AEC-ALO) on "Human Relations," Mrs. Lucille Sampson of Highlands University on "Can We Be Better Than We Are?" and Prof. Peri Mori of the University of New Mexico on "What a Secretary Should Know About Accounting."

Honor Employee's Father

University of New Mexico Coach Roy Johnson, father of Edwin F. Johnson (1624), will be honored by Sports Illustrated magazine in the Mar. 10 issue.

The magazine will devote its "Pat on the Back" page to the coach and his long service with the University.

SHOPPING CENTER

CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication unless changed by holiday.

RULES

1. Limit: 200 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

POWER MOWER, gasoline, 18", Briggs & Stratton, grass catcher, gasoline can. Used three seasons, cost \$110, sell for \$49.95. Dusek, AL 6-9388.

SPRINKLER SET, plastic hose, will cover 1600 sq. ft., never used, \$30. Smith, DI 4-0126.

'58 FAIRLANE 500 Club Victoria, full power, loaded with accessories. List \$3,540, \$165 for my equity. Atkinson, ext. 28291.

PICTURE FRAMES, wide variety. Perea, 5516 Granite NE.

LAWN MOWER, \$10. Gunn, AX 9-0151.

AUDIO GENERATOR, Heathkit Model AG-9A completely assembled. 10 cps to 100 KC, switch selected, 10 volts maximum output, \$19.50. Weydert, AL 6-0974.

PIANO, WURLITZER, cost \$800, will sacrifice for \$500 cash. Sanchez, AL 5-2906.

'56 CHEVROLET station wagon 210, 4 door, 9 pass., blue and white. Best offer. Laskowski, AL 6-2053.

ELECTRIC MOWER, Moto-Mower, Delco motor 1/2 HP, 100 feet of cord, 2 years old, \$35. Swing, AL 6-6403.

WASHER, Bendix-Economat, \$35. Monday, AX 9-1632 after 5:30 p.m.

BEAGLE, 17 months old, registered, trained and friendly. Luna, 2805 Vermont NE, AX 9-2488.

RADIO-PHONOGRAPH combination console, 78 rpm, walnut veneer, excellent for hi-fi installation, \$35. Mack, ext. 28281.

ANTIQUA CUT GLASS decanter and glasses; two small diamond rings. Want to trade bumper jack for axle jack. Boag, AX 9-5939.

GARAGE DOOR, 8 ft. with hardware, \$25. Cherb, AL 5-1891.

'48 INDIAN CHIEF motorcycle, recently completely overhauled. 22 cal. Hi-Standard auto. pistol with holster and extra magazine. Reynolds, AX 9-0709.

CAMERA-Solida I, uses 620 or 120 film, stops to f3.5, shutter speeds to 1/200 second, \$25 or reasonable offer. Church, AM 8-2345.

'49 KAISER Traveler, running condition, 6 cyl., rear seat folds down, back end opens up, \$75. Anselmo, AX 9-4668.

CUSHMAN motor scooter, recently overhauled, new parts, windshield, '58 plates, \$150. Boy's Schwinn deluxe bicycle, \$35. Chandler, 4416 Palo Duro NE.

WALNUT ARMCHAIRS for dining room, two for \$45, new. Drake, 1209 Grand NE, CH 3-1562.

BOXER PUPPIES, AKC registered-championship stock, Dam, daughter of CH. Bang Away of Sirrah Crest. Young, AX 9-1627 after 5:30 p.m.

MOTORCYCLES, '52 Harley Davidson "74", \$525; '56 Maico, gets 80 miles per gallon, \$375. Krzykowski, 333 Espanola St. NE, AL 5-1991.

CONTAX IIIA with 50 mm F2 Sonnar (c) and 35mm f2.5 Nikkor (c) wide angle lens, filters and accessories, best offer. Wincek, AL 6-5395.

CHIQUAHUA PUPPIES, registered, 10 weeks old, \$35 up. Cowan, CH 2-1052.

AUTOMATIC WASHER, '50 Thor, \$25. Howe, 332 Gen. Somervell, AL 6-5559.

UPRIGHT PIANO, Mahogany, best offer. Houghton, 2732 Aliso Dr. NE, AL 6-5810.

MOTOR SCOOTER, '56 Vespa, windshield, buddy seat, spare tire, speedometer, driven 1,686 miles, \$275. Kinoshita, AX 9-6491 after 5:30 p.m.

GOLF CLUBS, matched set of 3 Wilson woods with new golfprie arips, \$20. Goodwin, AL 6-2216 after 5:30 p.m.

TRAILER, 2 wheel, flat bed, \$25. Grtevaia, 2636 Alvarado NE, AM 8-0973.

'57 KARMAN GHIA Volkswagen, loaded with extras, 7,000 miles, red and black. Sell or trade for '55 or newer Ford or Chev. station wagon. Batsel, AL 6-4990.

UPRIGHT FREEZER, Admiral, 14 cu. ft., 6 months old. Cost \$489, sell for \$300. Cooper, AX 9-1542 after 5 p.m. weekdays.

BAND SAW, Atlas, circular saw, jig saw, wood lathe, sander, jointer, 1/4" drill motor, elect. motors, shaper, etc. Pliner, AL 6-1907.

HIGH CHAIR, stroller, playpen, bassinets, car seat and jumper seat, all for \$22.50 or will sell separately. Thomas, AL 6-2371.

WHIRLPOOL WASHER and complete set of tubs, \$18. McReynolds, 509 Florida SE, AL 5-2615.

NEW MUFFLER for Plymouth 6 cyl., \$5. Storkline baby carriage, reversible top and handles, \$15. Hogue, 1435 Espejo NE, AX 9-1807.

ANSCO 35mm camera, f3.5 coated lens, self timer, never used. Cost \$40, sell for \$25. Davis, ext. 25194.

CAMP TRAILER, teardrop, sleeps two; umbrella tent and other camp equipment. Waldorf, 6903 Fourth St. NW, DI 4-1017.

CAR RADIO for '50 Plymouth, \$12.50. Fay, 3400 Cypress Dr. SW, CH 3-6244.

VIOLIN, used two seasons, full size, \$50; Maytag washer, wringer type, heavy duty, \$40. Grey, AX 9-7349.

NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Mar. 14

FENDER SKIRTS, for 1954 Ford. Pickens, AX 9-3897.

HOLLYWOOD TWIN BED, one, mattress and box springs, mahogany legs, \$25. Two sleeping bags \$5 each. Buchanan, AX 9-7306.

'53 FORD Custom, 4 dr., Fordomatic, 39,800 miles, \$625. Gillenwater, AL 6-4841.

MUSKRAT COAT, Northern-dyed, letout, \$100; 17" Admiral TV with rollaway stand, \$35. Jampol, AM 8-1677.

MODERN SECTIONAL, 2 piece, turquoise and black, foam rubber cushions, cost \$300, sell for \$100. Yearout, AX 9-6810.

DACHSHUND, red male, 1 1/2 years old with papers, loves children, \$35. Piper, AL 6-0161 after 5:30 p.m.

'57 VOLKSWAGEN, radio and leatherette, less than 10,000 miles. King, ext. 20137 after 5 p.m.

BABY BUGGY, Thayer deluxe, \$15. Newman, AL 5-8090.

'57 DODGE Coronet w/extras, take up payments. Hummel, 2106 Renard Pl. SE, CH 3-7997.

ICE SKATES, women's white leather, size 8, \$10. Garcia, AL 6-7606.

L. C. SMITH, ideal grade 12 gauge, 26" Imp. cyl., mod., \$75. Millwright, ext. 21137.

'20 BOY'S bicycle, \$12.50; Venetian blind 6' x 38", \$7; 2 gal. aquarium w/guppies, \$3; Wisconsin Willow, 4" dia., \$10. Prowitz, AL 6-6497.

FURNITURE, 4 rooms, less than 1 year old, will sell separately or all together. Dodson, AX 9-3633.

CAMOUFLAGE SUIT for crow hunters, brand new, nylon, water resistant, zipper front, \$5. Albert, ext. 37298.

LINED DRAPES, two pair, rose colored w/floral pattern, 84" long, \$25; outside kitchen door w/glass; wardrobe trunk. Brake, AM 8-8320.

BABY BUGGY, Welsh Deluxe, collapsible, makes into a car bed, \$18.50. Boyd, AL 5-6451.

EXACTA VX w/50 and 135mm lens, \$215; Rollicord V, \$70; Bolex 16mm movie camera w/3 lens, \$365, all with cases. Merrill, AX 9-0348.

DINING TABLE, drop leaf w/four matching chairs, limed oak, \$60. Springer, 1300 Bryn Mawr NE.

'47 FORD, 1 1/2 ton truck, 2 speed rear axle, runs good, \$125. Price, Ext. 36155.

'51 CADILLAC, model 62, black, R&H, w/w tires, 4-door, new brakes, '58 license, \$750. Russell, AX 9-0159, 2820 Vermont NE.

'49 DODGE, 4-door, \$150; '56 Ford 1/2 ton pickup, R&H, \$895. Matlock, AL 5-0109.

'57 CHEVROLET 210, 4-door, R&H, power-glide, tinted glass, reasonably priced. Wenrick, AL 5-7116, 3117 California NE.

'50 FORD, terms if desired. Cappuccilli, DI 4-3137.

'50 HENRY J, just overhauled, good second car. Wiesch, AL 5-8563.

MOBILE RADIO transmitter-receiver BC-654A, variable frequency oscillator sonar model CFC. Hight, AL 6-4269 evenings.

'53 CHEVROLET, 4-door, Bel Air, power-glide, power steering, clean, \$650. Whitmer, DI 4-1859 6 to 9 p.m.

EASY SPINDRYER washer with spin rinse, \$40. Laskar, AX 9-1024.

3 BDRM. HOME, Inez brick, 1 1/4 bath, sprinklers, stove, refrigerator included, \$16,500, \$3,250 down to FHA mortgage. Bloom, AX 9-5886, appointment only.

21" TV, DuMont Console, '53 model, limed oak, Chinese-modern cabinet w/full length doors, \$75. Petrone, Ext. 45194 after 5 p.m.

MOTOR SCOOTER, Cushman, \$60; 36" Magic Chef gas range; bathinette; electronic tubes & parts, cheap. Skinner, Ext. 49282.

BABY BED, birch, w/mattress and springs, \$20; chrome high chair, \$10; Sturges, AL 6-9406.

GARDEN TRACTOR, Bear Cat, w/pow. drag harrow and ditcher; will trade for good chain saw. Gregory, Ext. 44136, Star Rt. Box 90, Algodones, N. M.

MARIMBA, Leedy, full size, w/mallets and music, cost \$750, will sell for \$275. Krosche, AL 6-4574 after 5:30.

'48 DESOTO Club Coupe, one owner, \$250. McMillan, AX 9-0305.

BOY'S SPORT COAT, blue wool-gabardine, light grey slacks, size 12, \$8 total. Goens, Ext. 26241, Box 224, Cedar Crest, N. M.

SEWING MACHINE, Rebuilt National portable, \$20. Anderson, AL 6-0134 after 4 p.m.

CAPTAIN'S CHAIRS, solid maple, two for \$25; Hollywood double bed frame, metal, \$5. Cooper, AX 9-4260.

YORK BOW, \$5. Lathrop, CH 7-9125 after 6 p.m.

'54 BUICK Special, 4 door sedan, R&H, PS & PB, \$1,050. Gillette, CH 3-8868 after 6 p.m.

PARADE DRUM, almost new, fully equipped, lessons included, \$25 (cost \$50). Flannagan, AX 9-4268 after 6 p.m., 9014 Matthew NE.

TWO ACRES in Albuquerque Ranch Estates in school districts 3 & 4 Bernalillo Co. Soarner, Ext. 35288 after 5.

MAPLE CRIB, wet proof mattress, boy's suit, all wool, size 12. Williams, AL 6-4214.

BEDROOM SUITE, Maple, poster bed, chest, vanity, bench, mirror, night stand, \$40; baby stroller, \$4. Schneider, AX 9-3769, 2309 Hendola Dr. NE.

'56 CUSHMAN Eagle, \$200. Shead, AL 5-1584, 5600 Mountain Rd. NE.

ELECTRIC STOVE; table w/5 chairs; picnic basket; steam iron; refrigerator; golf club; car cooler; dressing table lamp. Alexander, Ext. 49181 after 5.

DOG HOUSE, \$10. Will give away short-haired dog, 10 months old, rabies shot. Eagan, AL 5-6820.

WANTED

CHILDREN to care for in my home by the week. Stahley, 1201 Betts NE, Princess Jeanne Park.

MIDDLE-AGED LADY to share my beautiful apartment, \$45 per month. Sara Anaya, AL 5-2120.

STUDENTS for piano lessons in my home. Wynn, 1119 Betts St. NE, AX 9-6697.

ANYONE interested in forming a skin-divers club or interested in skin-diving. Contact LeRoy Ramsey, ext. 41147.

BABY SITTING in your home evenings and week-ends, 65c per hour, experienced mother, excellent references. Shirley, AX 9-1216.

TRAILER for 16 ft. boat. Pfeiffer, AL 6-3200.

HOME FOR COLLIE dog, fully grown, gentle, prefer family outside of city. Salas, AL 6-5989.

3 BR. HOUSE, unfurnished or furnished, to rent starting April 6. B. W. Lindsay, 4520 Highland Terrace, Austin, Tex. (Albuquerque references furnished.)

ROCKING CHAIR, small, maple preferred, cheap. Wilson, AL 6-2630 after 5:30 p.m.

CHILDREN to care for in my home week-days, Hoffmann location. Wade, AX 9-2050.

CIRCULAR SAW, 8" or 10". Sinnott, AX 9-1300.

BACHELOR to share two bedroom apartment in SE Heights near Bases. Erne, AL 6-6584.

FOR RENT

2 BDRM. HOUSE, furnished, includes kitchen appliances, air conditioner, automatic washer convenient to East gate. Gallinger, AL 5-3804.

2 BDRM. HOUSE, Hoffmann town. Newman, AX 9-6660.

LOST AND FOUND

LOST—Copper and turquoise bracelet, dark prescription glasses in blue case, gold Minion lady's watch, hand made turquoise drop earring, house key, blue Parker Snorkel pen w/initials MBS, 2 Ford keys on beaded chain, turquoise drop earrings, grey lunch bucket, keys on chain w/St. Christopher statue. LOST AND FOUND, Ext. 26149.

FOUND—Black diamond shape cuff link, safety glasses in case, GM key on chain w/good luck penny, lady's white wool stretch glove, golden anniversary Packard key, yale key. LOST AND FOUND, Ext. 26149.

Sandia Scientific Writings Are Made Available to Public

Reprints of selected articles by Sandia Corporation authors in various national technical magazines are now being made available in response to numerous requests for copies.

The first of the reprints came off the press last month with six others slated to appear in the next few months. The reprints are being handled by Technical Information Section 7223-1, which also frequently assists research people in preparation of their material for publication.

The first reprint is "Basic Magnetic Switching Circuits" by R. W. Durkee (1262), which appeared in *Electrical Manufacturing* in October 1956.

The AEC's Civilian Application Program in 1955 encouraged scien-



R. W. DURKEE proudly shows Sandia Corporation Reprint No. 1 which is his article that appeared in "Electrical Manufacturing." Technical illustrator Rupert McHarney (2463) designed the reprint cover.

tists and engineers in AEC laboratories to seek publication of their research and development reports in scientific or professional society journals.

It also made AEC technical unclassified reports available to American industry, research and educational organizations. Occasionally classified reports are included provided they are of a non-weapon category.

Distributed World-wide

Unclassified technical papers and memoranda by Sandia Corporation authors are regularly distributed to the AEC Technical Information Service Extension at Oak Ridge, Tenn., for release throughout the world, and to the Department of Commerce Office of Technical Service in Washington, D. C., for sale to the public.

Requests for reprints of technical papers, magazine and journal articles have been received from schools, industrial firms and government agencies.

Requests also have come from unusual or distant points such as the U. S. Military Academy at West Point, University of London, University of Brussels, British Joint Services Mission, the French General Electric subsidiary, and the South African Council for Scientific and Industrial Research.

There was even a request from the Heat Engineering Research Institute in Prague, Czechoslovakia, for a copy of Donald Owen's paper "A Comparison of the Power Curves of Some Double-Sample Tests." Upon receipt the Institute sent several reprints of articles and a list of publications by members of the Theoretical Department.

(Reports can be transmitted to satellite countries provided the contents are unclassified and certain formalities are met. It is customary to ask for reciprocal reports.)

Forthcoming Reprints

Forthcoming reprints include: "Tables for Computing Bivariate Normal Probabilities" by Donald B. Owen (5125), from the December 1956 issue of *The Annals of Mathematical Statistics*;

"A Thermocouple Unit for Measuring Transient Temperatures at

Specific Locations in Metal Bodies" by George E. Reis (5223) from a 1957 National Telemetering Conference report;

A paper by Norman F. Sinnott (5213) from the same conference, entitled "Gyroscope Instruments for Attitude Measurement in Free Fall Test Vehicles;"

Papers by R. O. Frantik (1291) and R. L. Calvert (1292) on reliability in research, presented at the Joint Military-Industry Guided Missile Reliability Symposium, at Redstone Arsenal, October 1956;

A paper by Douglas W. Ballard (1624) on evaluation of tool made samples presented at the same symposium;

"Resolution of Vertical Incidence Radar Return into Random and Specular Components" by R. K. Moore (Sandia consultant) from a University of New Mexico technical report.

Building Addition to House Two Groups of Document Organization

Bids will be opened March 18 for the construction of an addition to Bldg. 863 in the Sandia Corporation Tech Area I.

When completed late this year, the addition will house the Motion Picture Division (2465) and microfilm facilities of Document Control Division II (2464).

The Motion Picture Division is now located at the West Lab and the microfilm facilities are in Bldg. 863.

Included in the plans and specifications for the addition are adding 5600 square feet of floor space to the building, installing heating, lighting, power outlets, air conditioning, a new transformer station and extension of existing facilities.

Cost estimates for the job range from \$105,000 to \$115,000.

Plans and specifications for the construction work were drawn up by the Plant Engineering Department (2440).

Engineer Story Being Told to State's Students

Students in high schools throughout New Mexico will hear talks this spring by Sandia Corporation employees on engineering fundamentals.

The lectures have been arranged by the Science Education Committee of the Council of Technical and Scientific Societies. Only one of the dozen schools to be visited is located in Albuquerque.

Sandians participating in the program include: Louis Bothell (1613), chairman of the committee, John McKiernan (1283), W. A. Gardner (1610), John C. Cunningham (1442), Paul W. Rowe (5141) and Lee McKittrick (1611). Numerous requests from schools have been received by R. W. Henderson, Vice President, Development, who is state representative of the Engineering Council for Professional Development.

In general, the Sandians will explain what fundamental engineering is and then use examples from their individual field of training. The men try to correlate scientific thinking to everyday experiences which are familiar to the students.

Discussions with the students are also emphasized. As Mr. Bothell explains: "We don't try to sell them engineering. We pass along information and help the students make up their own minds."

Patent Granted Sandia For Dispensing Device

A United States patent has been awarded Iben Browning (5131) for his invention of a liquid dispensing device. Iben invented the dispenser while employed as a professor and head of the biology department at N. D. Anderson Hospital for cancer research at the University of Texas.

Before joining Sandia in January 1957, Iben was employed by the Bell Aircraft Corporation in Buffalo, New York.

Supervisory Appointments

JOHN P. FORD, JR., to supervisor of Project Division 1247, Engineering Department.



A Corporation employee for nearly seven years, John has been a section supervisor for five and one-half years.

Prior to coming to Albuquerque he was employed in the guided missile division of General Electric for four and one-half years, first in Huntsville, Ala., and later at Fort Bliss, Tex.

John served three years in the Navy as an aircraft engineering officer, part of the time in New Guinea and the Philippines.

He received a Bachelor's degree in Aeronautical Engineering from the University of Notre Dame.

KELLY S. DAVIS to supervisor of Production Tester Design Section 2551-3, Manufacturing Design Division A.

Kelly has been in engineering design work during his four years with Sandia.

He came here direct from the University of Utah, where he received a Bachelor's degree in Electrical Engineering.

Kelly joined the Army Air Corps in 1939 and served in the Philippines as communications chief until the Japanese invasion. He was a prisoner of war until 1945.

After his discharge the following year Kelly worked at the Naval Supply Depot in Clearfield, Utah, in the radio and radar final test section.

EDWARD G. CONNELLY to supervisor of Integrated Contractor Relations Section 7241-3, Scheduling and Ordering Division.



"Ed" has been with Sandia since August 1952 and has worked in cost accounting, business methods, and the nuclear division of quality engineering.

Previous employment includes two years with Wright Aeronautical Corporation in Patterson, N. J., as a core maker and two years in the sales department of Chase Brass and Copper Co., Newark, N. J.

Ed received a Bachelor's degree in Business Administration from the University of New Mexico.

He served five years in the Army Air Corps during World War II, part of the time in England with the Eighth Air Force.

WAYLON B. FERGUSON to Buyer, Handling Equipment Subcontracting, 4321.

Waylon came to Sandia in September 1950 and worked first in cost accounting and later reclamation. He has been an assistant buyer in electrical subcontracting for five years.

At Baylor University Waylon received a Bachelor's degree in Business Administration.

From 1944-46 he served with the Army in the Philippines and Japan.



Millard Taylor
—Lincoln, early telephones—

Telephone Business From Ground Up Easily Recalled by Millard Taylor

Telephone operations back in 1896 as well as other historical events can easily be reviewed by Millard Taylor, a Sandia technical illustrator, in a scrapbook left by his father.

Significantly the cover of the book is a sketch by Millard's father, M. E. Taylor, showing a woman of the Gibson girl era placing a call to a businessman seated in front of a roll top desk.

M. E. Taylor was at one time a district inspector for the U. S. Telephone Company in Dayton, Ohio, and one of that firm's early advertisements pictured 13-month-old Millard reaching for a bulky phone set on a desk. The photograph was captioned "I Want to Talk to Papa."

Few Answers

As manager of the Galion, Ohio, exchange, the elder Taylor wrote an article for the November 1903 issue of "Sound Waves" which listed rules for telephone operators: the lady must be of good moral character; she must be courteous and obliging to all patrons, but must not converse with any; the only acceptable answers

to calls are: "Wait a moment," "Number," "Party Answer?" and "I will ring them again;" operators must not use "Hello."

Other regulations forbid eating, or chewing gum, visiting with friends in the exchange, laughing or talking at the board. All operators must sit straight and erect while at the board, the article noted.

Pole Hole Troubles

However, the Galion exchange had its difficulties, namely from the Thomas Flanery family which objected to erection of a pole in the alley next to their residence. When the telephone men began digging the pole hole, Flanery threatened them first with a revolver, then with a heavy club.

The workmen left to obtain a warrant for his arrest. Upon resuming the job Mrs. Flanery jumped into the hole and refused to budge, a daughter followed in similar fashion when a second hole was started. Then Flanery's son appeared with a gun and attempted to halt the advancement of communications. When the entire family was arrested the pole was finally put up.

Other items in Millard's scrapbook include clippings from the April 15, 1865, issue of *The New York Herald* telling of the assassination of President Lincoln, a compilation of Civil War reports, a 1907 picture of the vanguard of the Atlantic fleet en route to the Pacific, and clippings and pictures of the disastrous flood and fire which struck Dayton in 1912.

Ping Pong Tournery

A meeting of superintendency representatives will be held Mar. 12 at 1:30 p.m. in Room B-6, Bldg. 802 to set up ping pong tournaments.

Plans call for tournaments to begin about Mar. 15 to choose singles and doubles representatives for the Corporation tournaments of April 15.

Winners of the doubles and singles Corporation events will be awarded trophies.

Gary Sheldon Back From Tour in Army

Gary Sheldon (8132-1) recently became the first member of Sandia's Livermore Branch to make the complete tour from the Branch into the Army and back again.



Gary Sheldon

A mechanical engineer who was hired at Livermore in June 1956 after graduation from Oregon State University, Gary spent three months at Fort Ord, Calif., taking basic training. Following enlistment in the standby reserve he returned to the same job he left last November.

Employee Enrollment in Two Night Schools Climbs to New High of 893

During the year that the Sandia Corporation evening school has been in existence, enrollment in the technical courses, offered free of charge, has more than tripled to a total of 708.

Enrollment summary for the spring term shows 30 employees in the Mechanical Measurements and Blueprint Reading classes, 572 in Electronics lectures or laboratory courses, and 40 in the new Manufacturing Processes course.

An additional 185 Sandians are enrolled in various mathematics classes offered at Albuquerque Vocational Evening School.

The newest course to be offered by General Training and Education Division (3124) is the class in

Manufacturing Processes, started this week.

The pilot course will meet once a week for 12 weeks and is being instructed by Stephen H. Neff (2533).

Mr. Neff has been with Sandia Corporation for a year and a half in manufacturing engineering systems work. Previously he was 15 years with the Monarch Machine Tool Co. of Sidney, Ohio, and was production control manager at the time he left.

Mr. Neff has a Bachelor's degree in Mechanical Engineering from the University of Cincinnati and was an instructor in instrument repair during his Army service.