

Sandia Corporation LAB NEWS

ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

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FEBRUARY 17, 1961

Sandians Help Plan National Engineers' Week Activities

A number of Sandia employees will be participating in activities of National Engineers' Week Feb. 19-25 helping focus public attention on the role of the engineer in society.

Theme of National Engineers' Week is "Engineering—A Career of Opportunity."

Member organizations of the New Mexico Council of Technical and Scientific Societies are co-operating with the University of New Mexico in arrangements for an engineering open house. G. C. McDonald (2530), president of the group, and Frank Clinard (1121), vice president, are coordinating transportation arrangements.

Member organizations of the Council are giving financial aid to out-of-town high school groups by helping arrange bus transportation to and from the University during the two-day UNM open house.

The Albuquerque Chapter of the National Society of Professional

Engineers has arranged an extensive program of talks to community civic organizations in connection with National Engineers' Week. M. G. Young (7523) is heading Engineers' Week activities in Albuquerque Speakers Bureau chairman is J. A. Barber (7323).

Among Sandians presenting talks will be the following: C. L. Carpenter (7185), Downtown Lions Club, March 7; J. W. McKiernan (7147), North Albuquerque Lions, Feb. 22; W. A. Gardner (7300), Heights Lions, Feb. 23; Al Goodman (7223), Rio Grande Kiwanis, March 3; M. A. McCutchan (3132), Northeast Optimist Club, Feb. 14; H. D. Sivinski (7311), Sunrise Optimist, Feb. 21; C. A. Olson (7243), American Business Club, Feb. 22; E. H. Wilson (3131), Civitan, Feb. 24; J. F. Calek (7524), Exchange Club, Feb. 22; and J. J. Miller (7231), Albuquerque Kiwanis, Feb. 22.

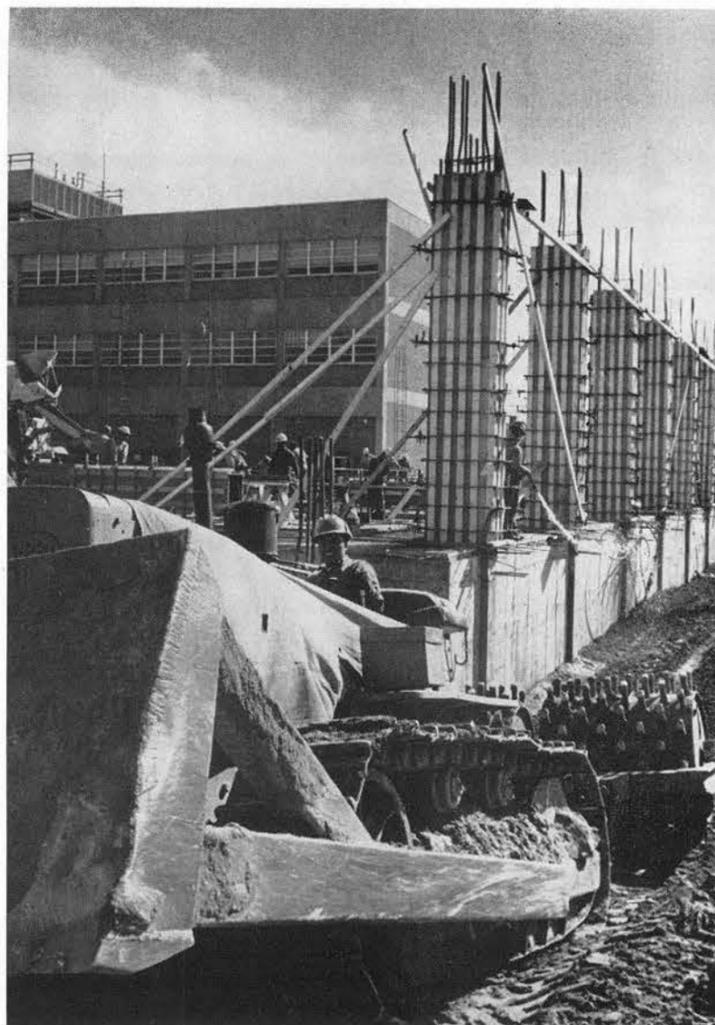
In addition to the Speakers Bureau, arrangements have been

Professional Engineers To Present Award to Sandia Corporation

Sandia Corporation will be honored for its contributions to the development and advancement of the engineering profession during the state convention of the New Mexico Society of Professional Engineers, to be held in Santa Fe next week.

The Industrial Professional Development Award will be presented for the first time with R. W. Henderson, Vice President, Weapon Programs, receiving the honor in behalf of the Corporation. The presentation will be during the banquet on Feb. 25.

made for a display in the Public Service Company downtown offices, at the new Bank of New Mexico building and in the Federal building. Community Relations Section 3431-2 is assisting in providing exhibits for the First National Bank building, East Central Branch of Albuquerque National Bank and the Albuquerque Library.



REACHING UP—Sandia's new Research Building (861-Phase II) is getting above the ground. Estimated completion date is August 1961. V. E. Kerr (4543-3) is Plant Engineering project engineer. In background is Materials and Standards Laboratory (Phase I).

Fifteen Science Students to Tour Livermore Laboratory on Feb. 25

Meeting to Form National Standards Ass'n Held Here

A national ad hoc committee meeting of the Association of Standards Laboratories was held at the Coronado Club on Feb. 13-14. Committee chairman is H. C. Biggs, manager of Physical and Electrical Standards Department 2410.

Purpose of the meeting was to discuss possibilities of expanding the committee into a nationwide Association of Standards Laboratories to encourage and foster a consistent system of physical measurement.

About 20 committee members attended representing the National Bureau of Standards, Department of Defense, the military, and a fairly large segment of industry. In addition, there were 10 observers at the meeting.

K. G. Overbury (2411) discussed the "AEC Special Weapons System of Standardization" during the meeting.

Wind Tunnel Survey Article by A. Y. Pope In Encyclopedia

The recently published McGraw-Hill Encyclopedia of Science and Technology contains a 1600-word survey on wind tunnels by A. Y. Pope, manager of Sandia's Aero- and Thermodynamics Department 7130.

The 15-volume work contains 7200 separate articles covering the entire field of science and technology. It was written by a team of more than 2000 specialist engineers and scientists during the past two years. It is the largest encyclopedia of this type ever produced.

The article on wind tunnels is based largely on Mr. Pope's experience and also summarizes the work of other experts in this field throughout the world.

A copy of the encyclopedia may be found on the reference shelf of Sandia's Technical Library in Bldg. 802.

Fifteen outstanding science students from Livermore and Amador high schools will tour technical facilities at Livermore Laboratory Feb. 25.

The Livermore program will be part of a nation-wide observance of Science Youth Day, sponsored by the Thomas Alva Edison Foundation. The tour will also coincide with the Laboratory's observance of National Engineers' Week. Many of the facilities to be shown will be open to an outside group for the first time.

Students and faculty members will be shown "The Sandia Story." Then, following a short introductory talk, they will visit the Test Building where they will see environmental testing facilities. They will also visit the Laboratory's data center where all environmental test information is recorded.

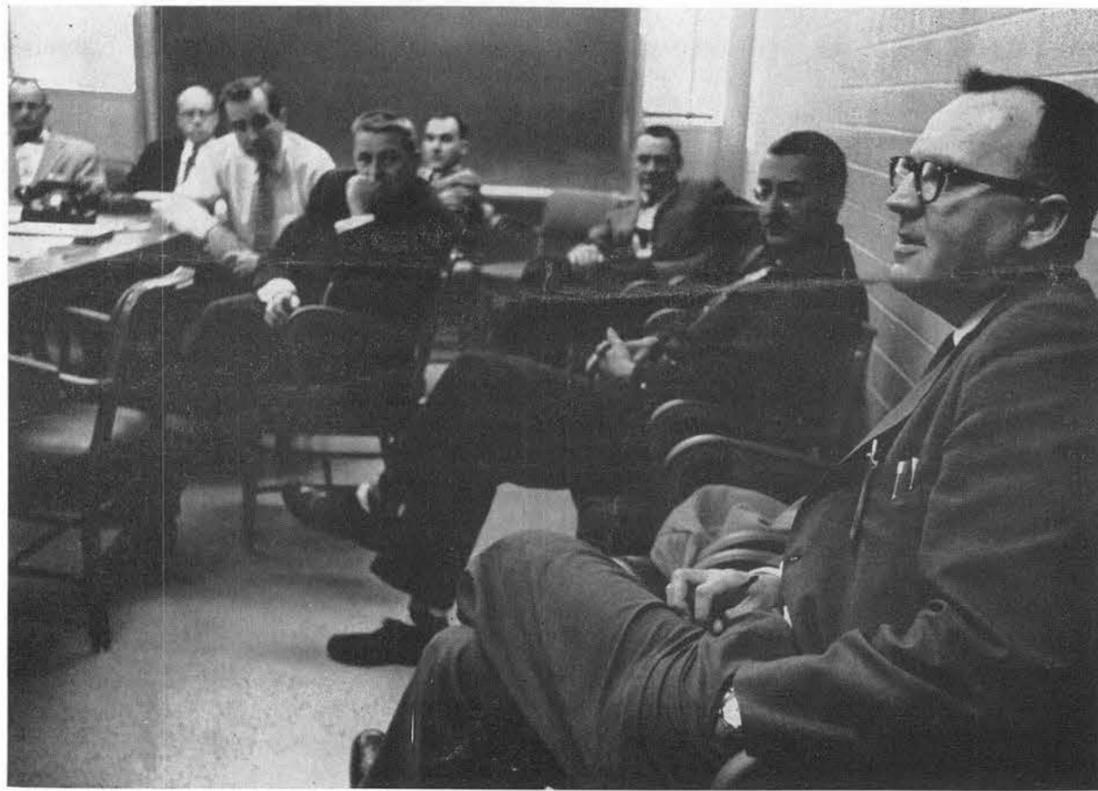
During the tour every effort will be made to relate textbook information to the work of professional engineers and scientists at Sandia. Clyde Walker, supervisor of Test Operations Division 8121, and Don Skinrod, supervisor of Test Services Division 8123, are arranging the technical aspects of the tour. R. A. Dickson (8233-1), public relations representative, is tour coordinator.

L. P. Gise New Deputy Manager Of AEC-ALO

Lawrence P. Gise has been appointed Deputy Manager of AEC-ALO, effective April 1, succeeding Frank C. DiLuzio, who resigned last month to enter private industry.

Mr. Gise will come to Albuquerque from Washington, D.C., where for the past year he has been Deputy Director of the Advanced Research Projects Agency, Department of Defense.

At one time he was Assistant Director of the Division of Military Application, the AEC organization in Washington to which Albuquerque Operations is responsible.



OBSERVING 50th meeting, members of the Sandia-LASL "TX" committee relax for a moment as R. W. Henderson, Vice President, Weapon Programs, a member of the original committee es-

ablished in 1956, reminisces about the 'achievements of the group. Committee functions to solve problems of joint concern that arise in design, development and production of weapon programs.

Group holds 50th session . . .

Sandia-Los Alamos 'TX' Committee Survives Friday 13th Origin Date

Friday, Feb. 10, Sandia Corporation's "TX" Committee celebrated its 50th meeting. The committee held its first meeting on Friday, Jan. 13, 1956. The ill-omened date was not significant for the Committee has proved to be unusually durable, healthy and effective.

The title "TX" is not a code name nor does it have any special meaning. It was chosen as a term to distinguish the group from other existing committees.

The TX Committee was established to draw together from Los Alamos Scientific Laboratory and Sandia Laboratory a management team to discuss and solve problems of joint concern. These problems arise in the course of design, development and production of AEC-approved atomic weapons

programs. Agreements reached by the Committee constitute joint-laboratory policy, subject only to the overriding action of the management of either LASL or Sandia.

"By normal industrial laboratory standards, the TX Committee might be considered a rather 'salty' crew," says S. A. Moore (7180), a Sandia committee member. "The discussions and dress (which might be described as 'casual western scientist') would no doubt raise eyebrows in some industrial committees in other parts of the country. But work here is conducted in a businesslike manner and a perusal of the minutes of the previous 49 meetings shows purposeful and discriminate accomplishment."

Present committee members

are: Jesse Aragon, E. H. Eyster, J. J. Wechsler, W. H. Chambers, F. J. Dunn, R. S. Gauler, B. L. Moore, R. L. Spaulding of LASL; and W. E. Boyes (1440), D. R. Cotter (7160), J. W. Jones (7120), R. S. Wilson (7140), H. H. Patterson (7110), S. A. Moore (7180) and G. C. McDonald (2530) of Sandia Corporation.

Members of the original committee were: E. H. Eyster, M. L. Brooks, W. H. Chambers, B. L. Moore, R. L. Spaulding and J. H. Russell, all of LASL; J. P. Cody (1320), C. H. DeSelm (8200), L. E. Hollingsworth (8120), W. J. Howard (8100) and W. C. Kraft (2450) of Sandia.

The committee has been meeting on the second Friday of each month, alternately at LASL and Sandia, since it began.

Editorial Comment

"Engineering . . .
A Career of Opportunity"

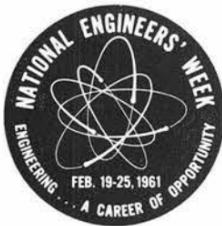
National Engineers' Week, which in 1961 has the above theme, is observed at a most appropriate time. More than ever, engineers now have the opportunity to answer the new demanding challenges provided by the explosive growth of our population.

In addition to helping satisfy the ever-increasing basic demands for more food, more water, more shelter, more clothing, and more technology, the engineer today must help meet greater demands being placed on him by a free world striving to remain free. Upon engineers, as well as all men of science, there is being placed an ever-increasing burden of responsibility to produce the weapons of freedom. This massive task is being undertaken by all free men and the portion being done by engineers is becoming even more significant.

As the theme of the week indicates, in these "soaring sixties" there is much opportunity for the engineer to serve and for him to enjoy the satisfactions of serving well.

Unlike many "weeks" that are widely recognized, National Engineers' Week tries to sell nothing unless it is an increased desire in young people to obtain the sound background that will enable them to participate fully in the years of this decade. Young people who become engineers or scientists will take an active part in the great adventures of the decade.

The theme of the week is well chosen. Opportunities for engineers in these adventurous days are boundless.



'Behaving As If You Were in Heaven'

David Sarnoff in talking about the world being too small for anything but brotherhood notes, "Underlying the fundamental problems of our time is the fateful fact that science and technology have narrowed the world to a neighborhood before man has broadened it to a brotherhood."

Talking on prejudice and intolerance, hate and fear, J. Edgar Hoover tabs them as diseases as infectious as a virus. He views the general increase in organized prejudice as most disturbing "as various forms of bigotry exist, either dormant or active, in every community — large or small."

Walt Whitman wrote "Whoever degrades another degrades me, and whatever is done or said returns at last to me . . ."

And Cornelia Otis Skinner said, "In a world crippled with doubts, fears and tyrannies, the only hope for the survival of mankind lies in the working practice of understanding, sympathy and brotherhood."

So we have the national observance of Brotherhood Week, sponsored by the National Conference of Christians and Jews Feb. 19-26 which is to promote justice, amity, understanding, and cooperation among Protestants, Catholics and Jews.

The week is dedicated to dramatizing the need for year-long practices of brotherhood which is defined by Ben Burroughs in his column known as "Sketches:"

"Brotherhood is a tender thing . . . a peaceful way of life . . . it calms the fears and dries the tears . . . of people torn by strife . . . brotherhood is a guiding light . . . aglow with understanding . . . filled with the precious things of life . . . all mankind is demanding."

The Broadway success "My Fair Lady" contained a bit of advice which Professor Higgins gave to Eliza: "The great secret, Eliza, is not having bad manners or good manners or any other particular sort of manner, but having the same manner for all human souls; in short, behaving as if you were in heaven, where there are no third class carriages, and one soul is as good as another."

This, then, is Brotherhood Week.

Sympathy

To Joe Silva (4574) for the death of his father on Feb. 1.

To B. G. Duncan (4152-2) for the death of his mother-in-law in Harriman, Tenn., Feb. 2.

To C. R. Romero (8234-2) for the death of his mother in Oakland, Calif., Jan. 19.

To Gil Rhodes (8241-3) for the death of his mother in Los Angeles, Feb. 7.

To Arthur Brown (4253-1) for the death of his father-in-law in Greenwood, Ky., Feb. 1.

To Warren C. Elder (4253-1) for the death of his father in Douglas, Kan., Feb. 8.

To Marcus Herrera (4252-5) for the death of his father-in-law in Belen, Jan. 31.

Reliability Talk Given

J. M. Wiesen (1442) spoke before members of the Kansas City (Mo.) Section of the American Society for Quality Control yesterday. Title of his talk was "Two Approaches to Reliability."

R. M. Whitson Heads New Credit Union Officers for '61-'62

R. M. Whitson (7521) was elected president of the Sandia Laboratory Federal Credit Union at the annual membership meeting recently. He heads a new slate of officers for 1961-62 that includes L. E. Lamkin (7500), vice president; R. L. Kollman (4111), treasurer; and E. R. Frye (1112), secretary.

Members of the Board of Directors include Miss Gertrude Byrne (3126), D. S. Tarbox (3200), J. J. Michnovicz (3465), J. S. Miller (4122) and M. E. Grothe (4150).

Elected to the Credit Committee were C. W. Shepperd (3425), chairman; R. P. Campbell (3241), secretary; and R. A. Quelle (3122).

Members of the Supervisory Committee include F. J. Tuffs (4542), chairman; R. J. Guerin (4113), secretary, and L. H. Best (4122).

J. S. Miller (4122) serves as chairman of the Educational Committee.

Sandian's Service in Pakistan Honored by Camp Fire Girls

During special ceremonies in Albuquerque marking the National Camp Fire Girls Golden Jubilee, Mary Geraldine Mayes, a Corporation employee (5432-1), was one of those honored.

"Jerry" is the only New Mexico recipient of the National Council of Camp Fire Girls' Silver Leadership Medallion. The honor was awarded her in 1958 for her part in organizing and leading a group of Camp Fire girls in Karachi, Pakistan. She had been active in Camp Fire work in Albuquerque for many years prior, helping organize groups in the Inez and Hawthorne school areas, serving as Guardian for Odako group and Leader for the Silver Wing Blue Birds (girls seven to 10 years old).

Jerry's husband was sent to Pakistan with the U.S. Corps of Engineers under a State Department Program. While Mr. Mayes was working at remote sites, Jerry and their two children—a son now 12 and a daughter now 13—remained in Karachi.

It was during this period that Jerry organized the Kar-Pack group, comprised of 14 girls from various countries. Their group activities included camping and cooking on the roof of the Mayes' home, a World Doll show in conjunction with celebration of United Nations Week; collection and publication of recipes of many countries, and trial preparation of local Pakistani dishes; and camping and camel-riding by the Arabian Sea, where they studied the habits of giant ocean turtles.

Highlighting the program was a visit to the home of the Prime Minister of Pakistan where a brown dancing bear entertained the girls.

Upon the family's return to the States Jerry decided to continue her college work, which was interrupted by marriage and motherhood. She had attended Brownville Junior College (now Texas Southmost College) for two years.

While attending the University of New Mexico she worked summers at Sandia as a secretary. During the school year, she worked part-time as secretary of the Radiation Biology Institute, a summer program co-sponsored by the National Science Foundation and the U.S. Atomic Energy Commission. Her grades were sufficiently high for Jerry to be elected to membership in Phi Kappa Phi, scholastic honorary, Phi Sigma,



NATIONAL DRESS of Pakistani women is modeled by Jerry Mayes (5432-1), who was honored by Camp Fire Girls for her service while residing in Pakistan. The musical instrument shown is an ivory inlaid sarar.

honorary biological research society, and Pi Lambda Theta, education honorary.

Jerry graduated from UNM with honors in June with a BS degree in biology and is now a staff assistant in Radiation Effects Studies and Measurements Section. She is currently carrying six hours in graduate study under Sandia's Educational Aids Program.

In addition to Camp Fire activities, Jerry is also a life member of the New Mexico Congress of Parent-Teachers Association, given her by the Hawthorne School unit of P-TA in Albuquerque in 1956 for service. She was president of the unit for two years during which time many community center activities for children were initiated.

Letha Hacker Will Retire from Sandia On February 28

When Letha Hacker (3153-2) retires Feb. 28 she plans to follow the philosophy of "don't plan ahead, live for the day."

Mrs. Hacker began working at Los Alamos in July 1946 and during her two years there one of her jobs

was handling job offers for employment at Sandia. In 1948 she transferred to Sandia Laboratory and has processed security clearances in the Personnel organization ever since. "My job is interesting, I've always liked it," she says.

While in Albuquerque her address will continue to be 124 Pennsylvania NE, Apt. 14. She plans to remain here awhile but perhaps travel later.

Mrs. Hacker has two married children in Denver and three grandchildren.



Arlene Ortega (6021)

Take a Memo, Please

CHANCE TAKERS are accident makers. Before performing even the simplest operation it is well to think of how an injury might be incurred and take all necessary precautions to avoid it.

A. M. Fellows to Retire Feb. 28 After 10 Sandia Years

A. M. (Milt) Fellows will retire at the end of February after 10 years in Sandia's Personnel organization. His present job is serving as personnel representative (3121-1) for organizations 4300 and 7500.

Before coming to Sandia Mr. Fellows had worked as a lumber dealer in Iowa, a sales manager for U. S. Gypsum Co. in Minneapolis and a dealer in custom-built kitchens in Chicago.

He is a graduate of Walder Business College, Decorah, Iowa, and Wisconsin School of Mines.

Mr. Fellows and his wife, "Winnie" (supervisor of Secretarial Section 3126-1), will remain in Albuquerque at 2720 Cardenas Dr. NE. Mr. Fellows says he has no immediate post-retirement plans.

Returned from Service

Ted Trybul has returned to Sandia after two years of mili-



tary service. He was stationed in Washington with the Army Corps of Engineers.

Ted came to Sandia in June 1957 and worked in Aero- and Thermodynamics Department 7130 before his leave of absence. He is now assigned to Weapon Compatibility and Applications Division 7183.

Hears from President Kennedy

A letter from John F. Kennedy, President of the United States, is a prized possession of Harold E. Burrell (4224).

Harold, who is former president of the Metal Trades Council, wrote President Kennedy a congratulatory letter on the occasion of his inauguration. The President's answer, which Harold now has encased in plastic, is an expression of thanks for the good wishes Harold and others have sent. They ". . . reflect a broad unity of purpose in our nation," he wrote.

Congratulations

Born to: Mr. and Mrs. Richard Hosley (4152) a daughter, Nancy Jean, on Jan. 31.

Mr. and Mrs. C. M. Gabriel (2542) a daughter, Terry Lynn, on Jan. 31.

Mr. and Mrs. Paul Spencer (4413-2) a son, Dennis Clay, on Jan. 16.

Mr. and Mrs. Mel Terry (8114-4) a daughter, Susan Mindy, on Feb. 7.

Mr. and Mrs. George Ison (2641) a daughter, Elizabeth Mae, on Feb. 8.

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1466 Engineers Are on Roll; Sandia Seeks to Add More

“Engineering—A Career of Opportunity” is the theme of National Engineers’ Week Feb. 19-25. Sandia Corporation’s 1466 engineers could modify this phrase to read “A Career of Opportunity at Sandia.”

Sandia utilizes many employee talents and skills, but engineering is the profession most in demand at its two laboratories. National Engineers’ Week is observed to give recognition to the engineering profession and the important work performed by engineers.

Since Sandia Corporation’s mission is nuclear ordnance, engineers carry a heavy workload. Working with scientists, mathematicians, technicians and skilled craftsmen, the engineer is an important man in Sandia’s undertakings.

Ever since the Middle Ages, the job of the engineer has been to build.

Modern technology makes his task much more complex. Engineering is a giant cooperative effort with many areas of specialization.

Largest of these specializations at Sandia is electrical engineering. Currently there are 695 electrical engineers employed by Sandia Corporation. Mechanical engineers of Sandia Corporation number 544. There are 54 civil engineers, 49 aerodynamic engineers and 43 chemical engineers. Industrial engineers, general engineers and others number 81.

Areas of activity at Sandia Corporation include research, component and systems development, testing, manufacturing development, quality control, standards, field engineering and training.

Plans are already underway to bring more engineers to Sandia. The Personnel organization now has recruiters visiting major

universities and colleges talking with engineering students who will graduate in June.

Current needs are for 59 more electrical engineers, 46 mechanical engineers, two metallurgical engineers, two chemical engineers and six industrial engineers.

(In addition to engineers, Sandia Corporation will recruit physicists, mathematicians, statisticians, metallurgists and technical institute graduates for both Sandia and Livermore Laboratories.)

Most of the new employees listed above are expected to hold Bachelor’s or Master’s degrees in their fields. In addition to these, Sandia Corporation needs 59 new employees with PhD degrees in the fields of nuclear engineering, aerodynamics, physics, ceramics, metallurgy, mathematics, chemistry, and engineering mechanics as well as PhD level electrical and mechanical engineers.



UNIVERSITY OF CALIFORNIA co-op students Bob Holmstrom (left) and Lou Hamilton have begun six months on-the-job training in the Drafting Division at Livermore Laboratory under a work-study program offered by the University of California. The two sophomores are the first co-op students to be hired at Livermore.

Supervisory Appointments

LEWIS A. FAW to supervisor of Packaging Section II, 2534-3, Design Division D.



Lew has worked in packaging since he was hired by the Corporation in November 1956.

Before coming here he worked for Dow Chemical for four years at Rocky Flats, Colo., as supervisor of a chemical processing section.

He graduated from Texas Technological College with a BS degree in chemical engineering. He is a member of Tau Beta Pi, engineering honorary.

For four years Lew served in the Air Force.

HAROLD L. BRINT to supervisor of Programming Section III, 3451-3, Electronic Data Processing Department.



During nearly 10 years at Sandia, Harold has worked in General Accounting, Cost Accounting, Production Methods, and for the past four years in Department 3450.

Previously he worked in Albuquerque for a public accounting firm and as an accountant for Reynolds Electric Co.

Harold graduated from the University of New Mexico with a Bachelor’s degree in business administration. Some of his undergraduate studies were at New York University.

He is a member of Phi Kappa Phi, scholastic honorary.

Medina Base to Undergo Limited Expansion Plan

Medina Base near San Antonio, Tex., a classified production facility of the Atomic Energy Commission, will undergo limited expansion in the next year. In the AEC announcement, Sandia Corporation was listed as providing technical services at the Base. Thirty-five Sandians work at Medina.

By agreement between the AEC and the Department of Defense, the Commission will take over a technical facility now operated by the military. The AEC and DOD are negotiating to arrange the transfer of other facilities and functions such as water and fire-fighting, motor pool, and security guard activities.

The AEC has negotiated a contract with the H. B. Zachary Co. of San Antonio for modification of some existing facilities and for construction of new facilities adjacent to them. Estimated cost of modification and construction approximates \$1,000,000 while equipment costs are estimated at \$100,000.

Two U of California Students Start Work-Study Program

Sandia Corporation has hired two sophomore engineering students from the University of California to work at Livermore Laboratory under a cooperative work-study program.

Bob Holstrom and Lou Hamilton, the first men to be hired under the plan, will be assigned to Drafting Division 8114 for six months and then return to school for the summer session and fall semester. Lou, a candidate for a mechanical engineering degree, will work in mechanical drafting, and Bob, an engineering physics student, will be assigned to electrical drafting.

Administering the program is the Livermore Laboratory Education Committee, headed by Lee Hollingsworth (8120).

Students enrolled in the co-op plan will combine periods of employment with the alternate pe-

riods of academic study. Phil Leiserson (8212-2) is coordinating the program with the university.

Students working in the drafting organization this semester would return next spring for assignment in the Environment Testing or Materials Application Divisions. After another six months of school, they would return to Sandia for assignment with a project group or in the telemetry or instrumentation development areas.

Bob and Lou will spend a total of five years in the work-study program, graduating in 1964.

The establishment of the work-study program at Livermore Laboratory will bridge the gap between theoretical and practical training of engineering students. It will also aid in recruiting young engineers and provide a closer relationship between faculty, Corporation, and students.

Promotions

- Stanley L. Owens (4231) to Technician
 - Mary E. Cunningham (8233) to Library Assistant
 - Alfred A. Amato (3231) to Staff Member
 - Harry B. Aikin (8232) to Staff Associate
 - James R. Perkowski (8211) to Staff Associate
 - Doris K. Edwards (3126) to Typist
 - M. Frances Roberts (3126) to Secretarial Steno.
 - Doris M. Orca (3126) to Typist
 - Norma L. Bright (3423) to Service Clerk
 - Dorinda J. Campbell (4135) to Calculating Machine Operator
 - Helen M. Conklin (7241) to Mathematics Analyst
 - James R. Rego (8223) to Molder and Assembler
 - Barbara J. Dolstra (8212) to Secretarial Steno.
 - N. E. Davenport (8212) to Typist
 - Barbara A. Reitz (8233) to Library Assistant
 - Emily E. Karfs (8233) to Library Assistant
 - E. L. Crocker (8123) to Mathematics Analyst
 - Marvin O. Aaron (3466) to Document Clerk
 - M. Jean Heidenreich (3153) to Employment Clerk
 - Mary A. Vanbrocklin (8231) to Investigator
 - Phillip R. Vouterin (4621) to Stockkeeper
 - G. E. Blanchette (4254) to Machinist
 - Richard W. Eifert (2751) to Lab. Assistant
 - Ann E. Culley (4320) to Secretary
 - J. Robert Wycoff (2563) to Data Reduction Clerk
 - Alice J. O’Meara (7241) to Data Reduction Clerk
 - William E. Putnam (7322) to Lab. Assistant
 - James A. Enlow (7322) to Lab. Assistant
 - Robbie D. Chapman (7322) to Lab. Assistant
 - William Wolff (7322) to Lab. Assistant
- Supervisory Lateral Transfers**
- R. D. Freyermuth from 4332-1 to 4361-1
 - L. L. Lavanier from 4361-1 to 4344-2
 - J. G. King from 2532-3 to 2564-2
 - R. J. Neibel from 4411-1 to 4413-5
 - W. V. McGuire from 4412-5 to 4411-1
 - J. Suknot, Jr., from 4411-5 to 4411-6
 - K. H. Lloyd from 4411-6 to 4411-5
 - J. E. Marquis from 4412-2 to 4412-5
 - G. E. Farwell from 4413-1 to 4412-2
 - J. L. Fife from 3431-3 to 3431-1

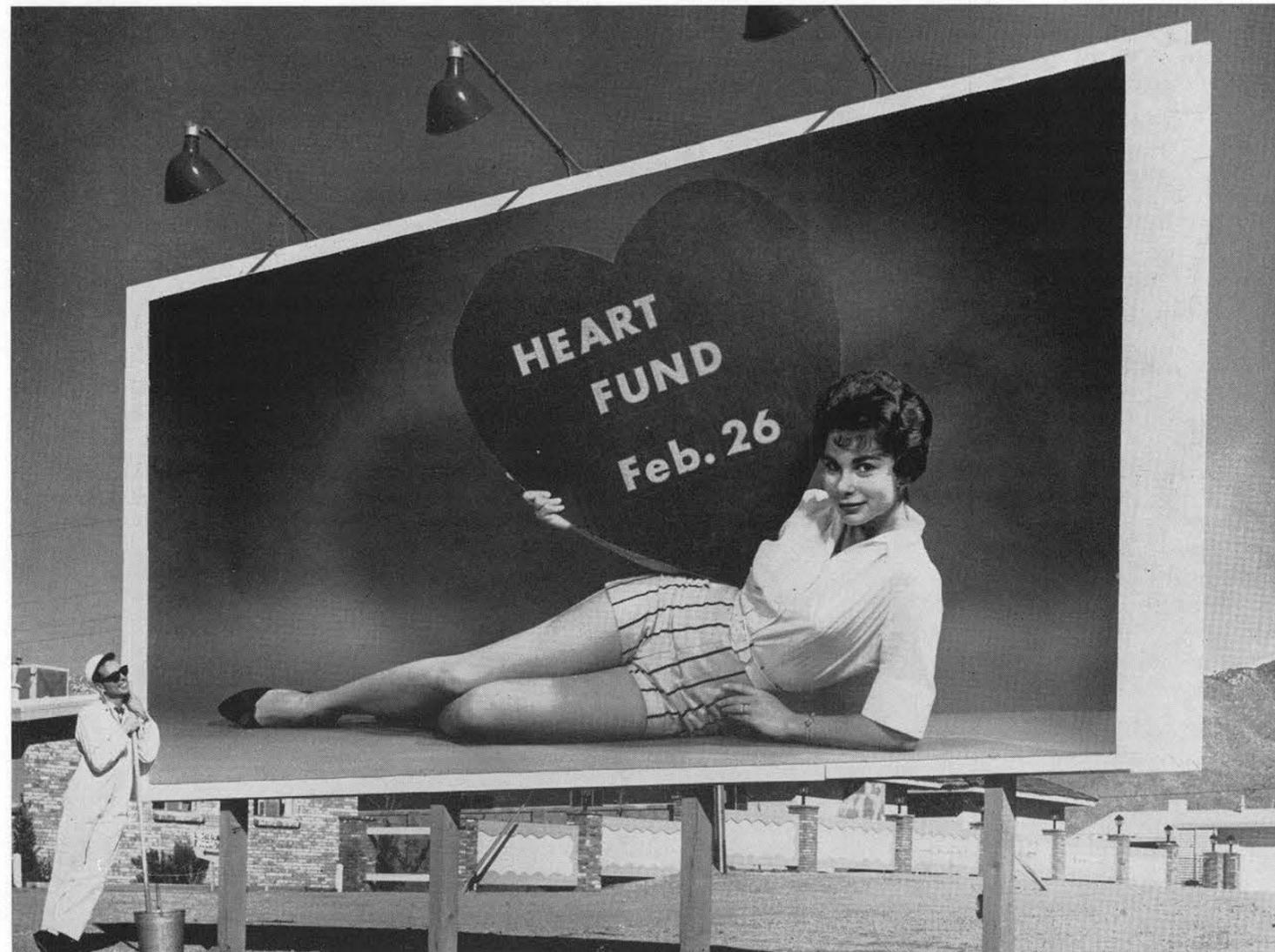
Jose F. Montoya To Retire from Sandia Feb. 28

Jose F. Montoya (4573) will retire Feb. 28 after working at Sandia for nearly 13 years.



His retirement plans include going hunting when he feels like it and watching lots of sport events with his youngest son, Robert 19. Later Mr. and

Mrs. Montoya may visit their older son, who is stationed in Long Beach, Calif., with the Navy. The couple also has two daughters at home. The Montoyas live at 814 Pacific SW.



HEART MONTH HERALDED—Judy Glass (3153), a pretty valentine for sure, calls attention to the drive which will be conducted by the

Heart Fund in Albuquerque Feb. 26. Sandia employees thru the Employees Contribution Plan have pledged \$6400 to the Heart Fund.



INSIDE BLDG. 882 the long air gun barrel is slung as a multiple pendulum to absorb a slight amount of the energy when fired. At right is C. W. Ray (7322-2) who is checking operation of the air compressor prior to a test shot. Compressed air under 5000 lbs. pressure per sq. in. powers the air gun. At the breech end of the gun stand H. D. Sivinski (7311) and H. R. Bowers (7322).

Mr. 'Q' Becomes Official Sandia Security Symbol; Will Work Hard

Mr. "Q", Sandia Corporation's security symbol, assumed official duties this week of keeping employees in Albuquerque more aware of security.

Mr. "Q", what will your job consist of?

"My main job will be to implant in Sandia employees' minds the need for security consciousness. I'll appear on all security literature, like a trademark you might say. When someone sets a coffee cup on a security-reminder coaster, he'll probably get my face dirty. And I'll be peeping around desks on memo pads, blotters and other desk 'decorations.' They've even designed a security flag with me on it."

Where were you before you came to Sandia Corporation?

"Actually, I was in the mind of Vince diLorenzo, who now works at Livermore Laboratory in Technical Library Section 8233-2. He submitted me in a contest conducted by the Security Education people in 1959 to find a security symbol for Sandia."

And why do you think you were chosen, Mr. "Q"?

"I was the obvious choice. I represent the Q-cleared person who must continually think security. Even the employee badge



should be a reminder of me since it denotes Q-clearance."

Do you think that you'll be a success?

"I've been at Livermore Laboratory since January 1960, and I must say that I soon became a familiar figure around there."

Finally, do you have any advice for Sandia employees concerning security?

"Well, in all our daily actions and attitudes, security requires constant and serious attention. Remember that the enemy is attacking our security, our nation, and our way of life 24 hours a day!"

Rocket Sled Paper To Be Presented

Two Sandians will present a technical paper at the Sixth Supersonic Track Symposium to be held at the Naval Ordnance Test Station, China Lake, Calif., March 1.

D. W. Bauder and D. L. Krenz (both 7323) are authors of the paper entitled "Water Entry Testing Using Rocket Sleds."

Controlled Acceleration Achieved by New Sandia Laboratory Air Gun

Prior to the completion of Sandia Laboratory's 5.5-in. air gun, all environmental testing air guns were similar in action to a child's "pump-up" B-B gun. Suddenly released compressed air propelled a "bullet" down the barrel of the gun.

Sandia's new air gun is controlled to get different kinds of acceleration.

Environmental test engineers talk in terms of "shock pulses." This is visualized with graphs showing the shock to which the piston is subjected. Formerly air guns produced only the sharp rise and long deceleration type of shock.

Sandia's new air gun can be controlled to produce sharp peaked triangular shock pulses and even square wave shock pulses, a revolutionary accomplishment for air guns. In these kinds of shock, the relationship of acceleration to time is much different from the old air gun shock pattern. Sandia's air gun can produce longer acceleration rise-times and shorter deceleration times.

"The whole point in the development of this facility," says H. D. Sivinski (7311), designer of the 5.5-in. air gun, "is to duplicate the environment which components will undergo."

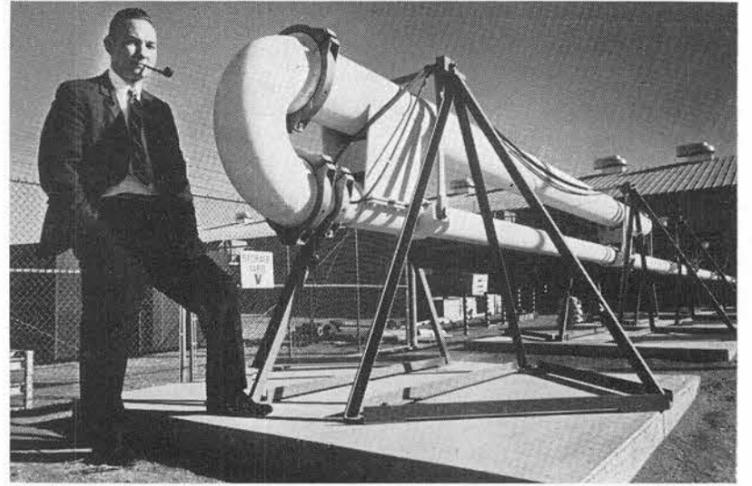
Components inside the piston of the air gun will have the shock of going from 0 to 520 miles per hour while traveling 71.5 in.

Heart of Sandia's unique air gun is the "metering sleeve" which controls the way in which the compressed air expands and exerts force on the piston. The piston fits tightly into the breech of the gun. Two hundred cubic inches of compressed air under 5000 lbs. per square inch pressure surrounds part of the piston. The end of the piston is butted tightly against the back side of the breech.

Air pressure from the barrel and muzzle tank of the air gun holds the piston in place.

A slight blast of air from a separate source is applied to the butt end of the piston. This is the trigger. As the piston moves slightly forward in the breech, the compressed air expands into the area opened behind the piston.

The compressed air can enter behind the piston only through holes in the metering sleeve. Arrangement of these holes, which is carefully computed, "programs" the kind of shock received by the piston and components riding inside the piston. As the piston moves forward it opens the holes in the metering sleeve.



DESIGNER H. D. SIVINSKI stands beside the one-way valve of the 5.5-in. air gun. As the piston speeds along the barrel of the gun, it compresses air ahead of it into the muzzle tank. When the tank is full and the energy of deceleration spent, the valve closes and the piston is effectively braked. Forty ft. of the barrel is inside the building while 80 ft. is viewed here. Muzzle tank is 23 ft. long.

Now the piston undergoes tremendous acceleration. As it rushes down the 120-ft. length of the air gun barrel, it pushes the air in the barrel into the muzzle tank. When the tank fills, absorbing the energy of deceleration, a one-way valve closes. The piston is thus effectively "braked" and comes to rest in the end section of the barrel.

The barrel section is slung as a multiple pendulum so that the gun will raise itself as it recoils and absorbs a slight amount of the energy. The barrel was fabricated in 19-ft. lengths and is highly polished inside. Critical tolerances in the construction of the air gun were held as close as .0001 in.

Instrumentation data are brought out from the components in the piston via nine hardwire penetrations in the air gun barrel to a magnetic tape recorder. The barrel penetrations are located six feet from the breech end of the gun. After the piston is fired and travels six feet, it shears the wires as it passes. The test is completed at this point.

Some 14 channels record data on magnetic tape at 60 in. per second. The tape is played back at 1 1/4 in. per second which permits examining the shock pulse of component function within an expanded time base.

Schedules for the test program for which the air gun facility was designed were so tight that only six weeks were allowed for designing the facility. "There was no time for feasibility or model studies," designer Sivinski says. "Our theory and mathematics had to be

correct. When we fired the gun for the first time and it worked, we felt tremendous relief."

The gun has since been fired some 400 times and the test program is on schedule.

Seismological Society Hears Sandia Papers In San Francisco

Presenting papers before the Seismological Society of America on March 28-29 in San Francisco, Calif., will be two Sandians.

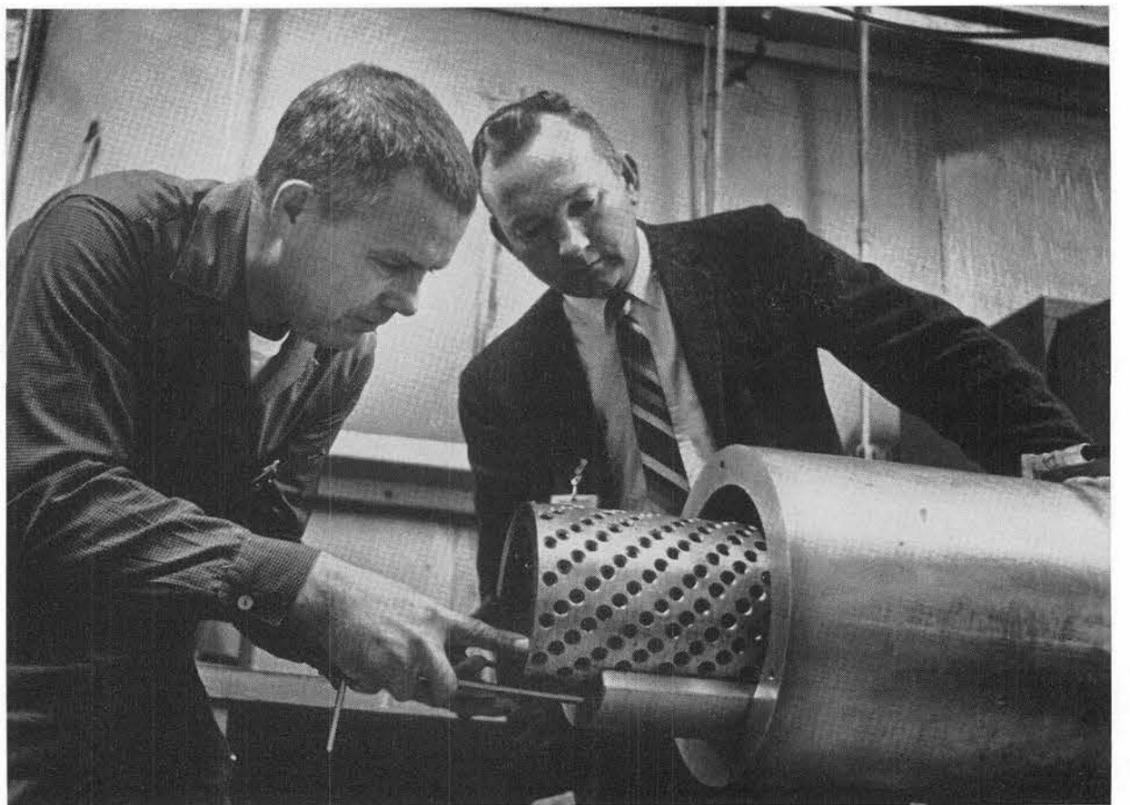
W. R. Perrett (5112) will read a paper entitled "Transverse Surface Motion in the Immediate Vicinity of Explosions."

"Seismic Data from Cratering Chemical Explosions in Nevada" will be presented by Dorris M. Hankins (5112).

Wave Propagation Paper To Be Presented at Physical Society Meet

A technical paper written by W. J. Byatt (5111) and G. P. DeVault will be presented at an American Physical Society meeting in Monterey, Calif., March 20-23.

Entitled "An Iteration-Variation Method for Wave Propagation Problems," the paper is also being considered for publication in the *Journal of Geophysical Research*.



UNIQUE "metering sleeve," shown here being inserted into the breech of Sandia's 5.5-in. air gun facility, makes possible new kinds of shock testing with an air gun. Holes in the sleeve "program" the

way the compressed air expands and exerts pressure on the piston. At the left is H. R. Bowers (7322-2) with H. D. Sivinski (7311), designer of the air gun facility. Facility was designed in six weeks to meet schedule

Mouth-to-Mouth Rescue Breathing Saves Life of Art Roth's Infant Son

Thanks to the rescue breathing method of artificial respiration, Michael Roth, age two months, is alive today.

Art Roth (2452) had seen a safety film on the method at Sandia Laboratory and read the rescue breathing article published in the *Lab News* Sept. 4, 1959. This he had also shown to his wife, Gloria, who used the method Feb. 5 to save the life of her son.

Michael had been suffering from a cold for several days. On the advice of a physician, a vaporizer had been installed over the baby's crib. As the Roths were sitting down to Sunday dinner, Gloria decided to look-in on the baby before eating.

All sign of breathing had stopped and he had turned blue.

Gloria immediately began the mouth-to-mouth rescue breathing while Art called the Albuquerque Fire Department's rescue squad. They arrived within five minutes.

In the meantime, the baby had shown signs of intermittent breathing and his color was improving. Oxygen from the firemen's resuscitator quickly restored normal color and the baby's breathing improved.

After several days in the hospital, Michael is doing fine.

"We are grateful," Art says, "for the knowledge of rescue breathing that made this possible and to the quick response of the firemen."



Edsel Gunn

Members Re-elect Edsel Gunn As President of OEIU

Edsel Gunn (4612) was re-elected to his second full term as president of the Office Employees International Union, Local 251, AFL-CIO, during a meeting Feb. 9.

The other new officers, who will serve one year, include: Janice Sharp (2642), vice president; Harvey Large (2641), secretary-treasurer; Jim Talley (2643), sergeant-at-arms, and Trustees Art Pino (2643), Anita Poteet (4362), and Howard Lafond (4614).

Third of TV Series On 'Great Decisions' Set for This Week

This weekend's TV discussion for "Great Decisions — 1961" will be on the topic of "France and Western Unity." Guests will be Father Paul Gopaul, Newman Center, UNM; James Maloney, police court judge; Mrs. Fred McCarthy, American Association of University Women; and Jim L. Fife, Public Information Section (3431-1).

Next weekend the topic will be "Japan — Future of an Asian Ally." Guests will be Dr. John Torrens, psychiatrist; Dr. Ted Sadock, physician; Dr. Paul Calhoun, Presbyterian minister; and Dr. Harold Enarson, UNM.

The programs are telecast on Fridays at 8 p.m. over KNME-TV (Ch. 5), Saturdays at 11:30 a.m. over KGGM-TV (Ch. 13), and Sundays at noon over KOB-TV (Ch. 4).

The series is moderated by R. C. Colgan, 3431-1.

Bids Invited for Modifications to Building 863

Bids were invited last week for modifications to Bldg. 863, according to an announcement by the Atomic Energy Commission. Bids are scheduled to be opened Feb. 28.

The project includes modifications to an existing refrigerative air conditioning system, installing air cooled condensers, filter and exhaust systems plus modifications to film processing and cooling tower facilities.

The building houses Sandia's Motion Picture Division 3465, Records Depository Section and Micro Reproduction Section of Division 3464.

Work is to be completed within 75 days after the contractor receives notice to proceed from the AEC.

Plant Engineering Department project engineer is M. O. Hunsucker (4543-2).

Sandians Will Present Technical Papers at IRE Convention

Two Sandians will participate in the Institute of Radio Engineers International Convention to be held in New York City March 20-23.

"A Limit Theorem on Passive Reactance Two-Ports with Constraints" will be presented by H. G. Baerwald (5132).

C. E. Land (7223-1) will present a paper entitled "A Ferrite Piezomagnetic Stress Transducer."

Both papers will also be published in the *Convention Record* following the conference.

Livermore Ski Club Exercises at Olympic Site in Squaw Valley

Rosy cheeks and sore muscles identified 14 Sandians at Livermore who recently returned from a weekend skiing trip at Squaw Valley.

The group, headed by Tom Brumleve (8151-2), club president, chose the scene of the recent winter olympics for its first outing of the year.

A second trip is planned for the weekend of March 4 when the group will make a cross-country jaunt from Badger Pass to Glacier Point in Yosemite Park.



GIVING CREDIT to his "understanding family," Woody said he could never have earned his degree without their cooperation. Above are Woody, his wife Dusty, Terry, age 8, Gary, 5, and Wendy, 10.

'Roll of Distinction' Graduate

S. O. Woodall Earns Degree In Sandia's Educational Aids Plan

"Sure, it was a grind for six and one half years," S. O. "Woody" Woodall says, "but it was worth it."

Woody had just been informed that he was on the "Roll of Distinction" of January graduates of the School of Business Administration, University of New Mexico. This means that he was in the top five per cent of his class as he completed requirements for a Bachelor's degree in Business Administration last month. His overall academic grade point average was 2.22 out of 3.0.

Unique part of this achievement is that Woody earned the degree under Sandia Corporation's Educational Aids Program while holding a full time job as specifications writer in Apparatus and Parts Specifications Section 4422-1.

Work At UNM

Woody completed 77 hours at the University of New Mexico, 65 under the Educational Aids Program. He started his first class at UNM in September 1954, shortly after beginning employment with Sandia Corporation.

At that time Woody was classified about a second semester junior in engineering. He had first attended North Texas State College for one year plus two years at the University of Colorado as part of the Marine III-D program during World War II.

After the war, Woody became a charter pilot and flight instructor in Pittsburgh, Pa., and it was eight years before he decided to work toward a degree again. He was in Dallas, Tex., employed as a design draftsman with Texas Instruments Corporation. He took two night classes in the fall of '53.

At UNM Woody took one three-hour course each semester, including summer sessions, on non-degree status for the first two years.

"After completing 12 hours, I had to declare a degree field," Woody says. "It was apparent that I would not be able to finish the mechanical engineering degree since required classes at this time were not available in the evenings. In the meantime, I had taken a couple of business administration

courses and found this field extremely interesting.

"Although it cost me 40 hours of engineering credits, I changed my major to business administration. As it looked then, I could obtain the necessary classes in the evenings."

Enters EAP

In the fall of 1956 the situation abruptly changed. Sandia Corporation's Educational Aids Program went into effect with provisions for up to seven and one half hours per week of time off the job for upper class students to take University courses if not available out of hours.

"This made possible taking nine hours a semester," Woody says, "with one daytime class, one evening class and one class sort of in the middle. Without EAP, it would have taken at least an additional four semesters to complete the degree requirements."

"During this time," Woody continues, "my Sandia supervision was wonderful. Their understanding, cooperation and encouragement meant a great deal."

Looking back at the "long grind" Woody recalls that there was time for little but work and school. There were few social occasions, few movies.

"During exam weeks or when a term paper was due, my three youngsters were practically strangers," Woody says.

Started in 1956

Sandia Corporation's Educational Aids Program gives employees an opportunity to earn as they learn. From its beginning in September 1956, an average of 475 employees have taken advantage of the program's provisions each semester. In addition to allowing a limited amount of time off the job when necessary to attend University classes for junior, senior and graduate students, the program provides for 50 per cent tuition refund to those who successfully complete courses.

This provision applies to all EAP students, although freshmen and sophomores are not allowed time off the job. Time off work provisions apply only when evening classes are not available.

All courses must be job related or related to a job to which the student in the opinion of his supervisor might reasonably aspire.

Sandia Corporation also helps UNM provide for extra instructors and facilities needed to accommodate the large number of Sandia graduate students. Staff Training and Education Division 3131 administers EAP. Educational counsel is available to all interested employees, by calling ext. 45157.

As for Woody, he plans to take it easy for a semester, enjoy a summer of family outings until next September. "Then I'll start work on a Master's degree," he says.



ROLL OF DISTINCTION—S. O. "Woody" Woodall, a January graduate of the University of New Mexico's School of Business Administration, is an honors man. During the past six years he has earned 77 credit-hours and maintained a grade-point average of 2.22.

New Bldg. 865 Addition to House Sandia Lab Plasma Jet

The AEC will call for contractors' bids on March 14 for construction of an addition to Bldg. 865 at Sandia Laboratory which is estimated to cost \$85,000 to \$95,000.

The bids are scheduled to be opened April 11 with the contractor given 150 days to complete the work. Murl B. Moore (4543-3) is the Plant Engineering Department project engineer.

The structure is a one-story, fire-resistant, masonry building of about 2800 sq. ft. Included are mechanical and electrical facilities, a two-ton overhead crane, overhead steel door, and an addition to the existing power substation.

The area, at the northeast corner of the existing building, will house a new plasma jet which would utilize the same air supply and vacuum system as the wind tunnels.

The plasma jet is one of the highest temperature devices of its type known to man. The flame reaches 30,000 degrees F. and may be maintained continuously. Sandia Laboratory already has a 160 kw plasma jet, but the new 1000 kw plasma jet will produce a larger flame for testing purposes.

The facility will be used by Electrical and Thermal Properties Section 1113-2 for testing materials and by Aero- and Thermodynamics Department 7130 for advanced aerodynamics research.

Henry Durlfänger To Retire Feb. 28

Henry Durlfänger (2451-4) will retire Feb. 28 after seven and a half years with Sandia Corporation.



His first look at Sandia, however, was in April 1948 when he worked for a Detroit engineering firm which was one of the first companies to be permitted inside

the Laboratory to design gauges and equipment for Sandia.

Mr. and Mrs. Durlfänger are undecided about their future plans. They have been living in their trailer at 9000 Zuni SE for the past year and a half and will remain there at the present time. Eventually there will be a trip to Tucson.

While living in Albuquerque the Durlfängers have pursued their joint hobby of photographing wild flowers. Mrs. Durlfänger frequently gives colored slide talks before garden groups. All told, the couple has taken about 500-600 slides of flowers throughout the Southwest.

Arlington Perkins to Retire Feb. 28; Has Full Travel Schedule

Arlington Perkins, an order analyst (2642) at Sandia Laboratory for nearly 12 years, will retire Feb. 28.



He and his wife intend to continue to claim 504 Montclair SE as "home" but they already have several

extensive trips planned.

Their first jaunt will be to Arizona, Los Angeles, San Francisco, Portland, Seattle and Yakimo and back to New Mexico in time for the opening of trout season in the high streams and lakes.

In mid-June they hope to set out again to visit Texas, Florida, Tennessee, Georgia, Washington, New York, Maine and return westward through Canada. Their return will coincide with the start of hunting season.

His love for travel was acquired in pre-World War II days when he spent seven years working for the oil industry in Borneo, Java and Sumatra. The couple has lived in Albuquerque for 19 years.



SANDIA'S LARGE STAFF toured the 4200 Development Shops last week during a three-day meeting. Scene above shows Sandia's "clean room" in Bldg.

834 with W. J. Howard (8100) inspecting the facility where components are maintained in a dust-free environment. Others viewed from outside room.

AEC's Salton Sea Test Base Going On Standby Basis Effective July 1

On July 1, 1961, Sandia Corporation will terminate test activities at its Salton Sea Test Base in California. Because of the limitations of the Salton Sea range in meeting the present day requirements for test operations, it is necessary for Sandia Corporation to move to a larger range which has been established at Tonopah, Nev.

Sandia Corporation will retain only 18 employees at Salton Sea to maintain the Base on a temporary standby basis until the facility is transferred by the Atomic Energy Commission to the U.S. Government General Services Administration.

Originally established in 1941 as a Navy facility for torpedo and skip bombing practice, Salton Sea Test Base was taken over by the Atomic Energy Commission in 1947. The AEC provided house-keeping service and Sandia Laboratory operated the technical facility. Sandia Corporation assumed full operation in March 1950.

Located in the Imperial Valley of Southern California, the Salton Sea Test Base has had a 14-year history as the principal AEC test range for high altitude subsonic "drop tests" of ballistic shapes.

Salton Sea is slowly becoming

a resort area. Fishermen and lovers of the winter sun have discovered the area's hot dry climate. The Sea was stocked several years ago with a kind of sea bass and fishing has been good. Several thousand visitors flock to the area each year.

The Calendar

- Feb. 24**
American Society for Metals
Sandia Base Officers Club
Ladies Night
Social Hour: 6 p.m.
Dinner: 7 p.m.
Meeting: 8 p.m.
Speaker: Dean Wise (4233)
Topic: "Rocks in Your Lives"
For further information contact
Ray Hallderson, AM 8-7808
- Feb. 24-25**
New Mexico Society of Professional Engineers
Santa Fe, New Mexico
State Convention
For further information contact
Walter Scott (7184), ext. 28253
- Feb. 25**
Society of Technical Writers and Publishers
La Placita Restaurant
Dinner: 6:30 (\$2.75)
Speaker: Vernon M. Root, Applied Physics Lab.,
Johns Hopkins University,
Mrs. Lucille D. Connolly, LASL,
National treasurer STWP,
will also be present
Send reservations to Jim Murray, P. O. Box
8472, City, before Feb. 18. (Checks payable to
Albuquerque chapter.)
For further information contact
Don Emrick (2322), ext. 26137

This information compiled by the Council of Technical and Scientific Societies.

Livermore Technical Calendar

- Feb. 21**
American Institute of Electrical Engineers
Instrument and Controls Division
Beckman Instruments
2200 Wright Ave.
Richmond, Calif.
Meeting: 7:30 p.m.
Speaker: J. L. Hussey,
Manager of Engineering
Topic: "Field Trip to Berkeley Division
of Beckman Instruments, Inc."
- Feb. 23**
American Society of Mechanical Engineers
Engineers' Week Banquet
Garden Court
Sheraton Palace Hotel
San Francisco
Meeting: Banquet 7 p.m.
Speaker: Dr. D. H. McLaughlin,
Chairman Board of Regents,
University of California
Topic: "Trained Engineers—
A Vital National Necessity"
- Feb. 23**
American Institute of Electrical Engineers
Santa Clara Valley Subsection
Joint with Santa Clara Valley
Engineers Council
Santa Clara County Fair Grounds
on Tully Road — San Jose, California
Meeting: 7 p.m.
Speaker: Dr. Wernher von Braun, NASA,
Geo. C. Marshall Space Flight Center
Huntsville, Ala.
Dr. Earl Herald of TW's "Science in Action"
as Master of Ceremonies
Topic: To Be Announced
- Feb. 24**
Society of Plastic Engineers, Inc.
Golden Gate Session
Sabella's
Fishermans Wharf
San Francisco
Happy Hour: 6:30 p.m.
Dinner: 7 p.m.
Meeting: 8 p.m.
Speaker: Jack Fuller, U. S. Sales Manager
for Ankerwerke International
Topic: "Screw Plastersizing vs. Ram Injection
Molding Machines"
- Feb. 28**
Institute of Radio Engineers
Professional Group on Instrumentation
Cuberley Auditorium
Stanford University
Meeting: 8 p.m.
Speaker: Robert L. Sink, Associate Director,
DataLab Division, Electroynamics Corp.
Topic: "Large Scale Data Handling Concepts"

Welcome Newcomers

Jan. 30-Feb. 10

Albuquerque		
*Antoniette M. Devarenne	4424	
L. Noriene Felter	3421	
Margaret L. Houston	1421	
*Carl O. Kemp	3462	
Natalie E. Lariviere	4623	
George Martinez	3461	
Kathleen C. Mooney	3126	
Enid A. Morton	3126	
Josephine B. Sandoval	3126	
Leo Savitt	3462	
Jack R. Simpson	1321	
*Karl K. Stevens	2713	
Joan L. Swanson	3126	
Norma J. Swanson	3126	
Edna A. Utton	3126	
*Margaret G. Weitzel	3126	
Geneva E. Wiseman	3452	
Percy Wyly II	3232	
California	Duane C. Wallace, Los Angeles	5150
Florida	Larry H. Canter, Gainesville	7251
Arthur R. Hassig, St. Petersburg	4411	
Indiana	James E. Randall, West Lafayette	7323
Kansas	Marvin E. Daniel, Manhattan	2440
Kentucky	Carl N. Kelly, Lexington	7223
New Mexico	Chester G. Claghorn, Las Cruces	2532
Oklahoma	Don L. Mathews, Stillwater	2561
William L. Van Horn, Norman	4314	
Pennsylvania	Daniel W. Miko, State College	7221
Texas	Nathana B. Koen, Midland	3126
Nona A. Smith, San Antonio	3126	
* Denotes rehired		
Returned from Leave		
Velma D. Davies, Akron, O.	3423	
Helen M. Johnson	3126	
William C. Womack, Ruston, La.	7184	
Livermore New Hires—Jan. 16-27		
Hans G. Birnbaum, Cleveland, O.	8116-3	
Theodora Watty, Livermore	8232-4	
Emile C. Wittebort,		
Mission San Jose, Calif.	8222-2	



ARRIVAL OF FIRST PLANE making daily round trips from Las Vegas, Nev., was cause for excitement at Tonopah, Nev. Discussing aspects of new

service were airline officials, townspeople, and Sandians E. L. Barnicle, Jr. (6030), Jack Spence (4335) and Robert Statler (7212) of Tonopah Test Range.

Air Service Now Available from Las Vegas to Tonopah Test Range

Direct air service from Las Vegas, Nev., to Tonopah Test Range is now available to Corporation employees under an arrangement made with Alamo Airways.

Until now transportation between the two points was only possible by a 200-mile drive in a rented car or a bus which left Las Vegas at 4:30 a.m. and arrived at Tonopah at 9 a.m., still 40 miles from the Test Range.

The flights will operate Monday through Friday leaving Las Vegas at 7:30 a.m. and arriving at Tonopah at 9:15 a.m. Stops are made en route at Mercury and Tonopah Test Range. The return flight leaves Tonopah at 3:30 p.m., arriving at Las Vegas at 5:20 p.m.

Advance reservations for both passengers and cargo must be made through Traffic Division 4335 at Sandia Laboratory or Travel and Clerical Section 8211-4 at Livermore Laboratory.

The airline will make available one of three types of planes as determined by Corporation needs: a single engine Cessna, a twin engine Cessna or a DC-3 with 24-passenger capacity.

The flight will also be available to AEC and AEC-related contractor personnel and "private" passengers if there is sufficient space.

At Mercury the airstrip is located adjacent to other facilities. At Tonopah Test Range the landing field is 12 miles from the control point. Auto transportation is provided.

The regularly-scheduled flights have resulted in the Tonopah airport being placed under full-time management with facilities for servicing private planes. Alamo Airways has an application pending before the Nevada Public Service Commission for permission to fly regular commercial flights between other points in Clark and Nye counties.

Sandia Service Awards

15 Years



Ira D. Hamilton
7214
Feb. 19, 1946



William C. Kraft
2450
Feb. 22, 1946



William A. Jamieson
8212
Feb. 26, 1946

10 Years

Feb. 18-Mar. 3

H. R. Bowers 7322, Eufemiano Garza 4623, Aubrey E. Hanks 4573, Frank A. Sanchez 2721, Paul A. Stickler 1411, Gilbert H. Weaver 4573, Wayne T. Welkenback 2723, Fred C. Brockhausen 4232, T. J. Dawkins, Jr. 1284, Joseph F. Gordon 2713, Ambrose Watson 3242, James R. Holliday 4212.

Thomas A. Kelly 2442, Robert G. Scharrer 7243, Harry A. Schultz, Jr. 4424, Joe Leon Armijo 4624, Gilbert Atencio 4612, Kyle E. Benton 4512, Ruth J. Lilley 3462, Donald L. Tyson 4621, Eloy Barela 4231, Glenn I. Hastie 4573, G. J. Hildebrandt 1330, Harold Payne 4221, James M. Phillips 2451.

C. B. Saunders 2534, Vicente Garcia 4573, Andrew R. Lunsford 4511, James R. Sawtelle 4631, Leonard H. Best 4122, A. C. Carabajal 7254, Elizabeth R. Rainey 4220, George A. Wright 7323, Ormand J. Birdsong 7251, Fidel G. Chavez 4221, Harold E. Kindschi 4521, Paul L. Kirby 3425, Howard Nicholson 4172, Raymond W. Poetzl 2714, Robert W. Hewes 2644, Edna Louise Miller 2721.



Raymond H. Schultz
7320
March 1, 1946



VICTORY HUDDLE shows 8114 Flag Football Team members who won Livermore Laboratory championship after winning 10 out of 11 games. Clockwise from top, they are James Kimberling, Bill Dawson,

Hanloy Quock, Mike Ferrario, Ray Gillette, Eugene Kenderdine, Ray Leri (8232-5), Ron Puckett, Charles Drummond, Warren Zechmeister, Jim Dremelas, Don Baumann, and Jim Trantham.

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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

IRONRITE IRONER; 95" drapes, used six months; push type lawnmower. Will trade ironer for 4500 cfm 2-speed horizontal mount cooler. Carter, DI 4-6563.

COMPLETE LEECE Neville 12 volt alternator set-up, ideal for mobile ham use. Cost \$255 new, make offer. Bathin, AM 8-8151.

SCIENTIFIC AMERICAN magazine, issues for 1957 thru 1960, 4. Deeter, AL 5-5789.

ROBERSON RESALE, 3 bdr., 1 1/2 baths, family room, carpeting, drapes, landscaped, reasonable. Rainey, AX 9-8540.

BUNK BED set with mattresses, \$60; 1958 model Food-o-Rama refrigerator and deep freeze, \$275. Windsor, DI 4-6557.

GENTLE HORSES, quarter-type; ponies for kids. Lavato, CH 3-0242.

GYM SET: slide, glider, two swings, \$10. Scott, AX 9-7893.

3 BDR. HOME, 1 1/4 baths, w/w carpets, drapes, built-in range, disposal, CH, AC, 2-way fireplace, walled, landscaped, 5 1/4 FHA, \$17,300. Allen, AX 8-2278.

'56 FORD ranch wagon, R&H, \$700. Lundergan, AL 6-4229 after 6 p.m.

COCKER SPANIEL puppies, blond, \$20 each; 2 modern chairs, foam rubber, \$15 each; buffet, \$15; floor pole-type lamp, 3 shades, \$6. Foster, AX 9-6240.

'59 MERCEDES Benz 190, \$2550 or trade for late model Volkswagen sedan. Akin, AX 9-4242.

CAMPING TRAILER, 16 ft. Shasta 1959 model, roomy, comfortable, tows perfectly, \$990. Wyler, AL 5-8190.

'56 CADILLAC 4-dr. sedan, full power including factory air, \$1490. Welker, 8510 Flower Pl. NE, AX 9-1179.

BRICK 3 BDR., h/w floors, attached garage, air conditioning, walled, 3 bks to base, many extras, reasonable offers considered. Kinman, ext. 41289 after 5 p.m.

20" BICYCLE, 2-wheels w/training wheel, \$15. Fligner, AL 6-6721.

'53 FORD convertible V-8, Fordomatic, R&H, w/w tires, Arnold, AL 6-4664.

BOY'S BICYCLE, 20", sturdy, new tires, new heavy duty tubes, \$15. Vandi, AL 5-0685.

BRICK 3 BDR., 1 1/4 baths, large dining-living area, carpeted hw floors, double garage, walled covered patio, by owner. Farrar, AL 6-9090.

SKI BOOTS, ladies size 6, Swiss made Henke, slightly used. Stump, AM 8-7754.

CHEST, five drawers, natural pine finish, \$15. Cox, AX 9-4288 after 6 p.m.

.22 PISTOL, double action revolver, \$9; circular saw attachment for 1/4" hand drill, \$4. Sayers, AX 9-1833.

TUBELESS TIRES, four new nylon 8.00x14 low profile w/ Kelly Springfield Celebrity No. 1, \$100 cash. Mahoney, 2708 Louisiana NE, AX 9-6241 after 6 p.m.

DOUBLE BED, limed oak paneled, \$5. Myers, 1420 Richmond NE, AL 6-2777.

HI-FI SPEAKER enclosures, two, Karlson, matched, with 8" foreign speakers, \$25 each; 1953 Allstate motorscooter. DeZeeuw, 4015 Ponderosa NE, DI 4-7392.

SECTIONAL, 3 piece, \$90; Encyclopedia Americana and bookcase, \$100; 7 drawer kneehole desk, \$35; misc. furniture. Libby, AX 9-5948.

'56 BUICK 4-dr. sedan, all power, factory air, \$800. Moore, AL 6-2748.

21" TV, Emerson table model, \$25; Zenith 3-band walnut console radio, \$20; Duncan Phyfe lamp table, \$10, sell or trade for portable automatic record player. Woodall, ext. 35279 evenings.

UPRIGHT FREEZER, Amana, 12 cu. ft., \$65. Gustafson, 1920 Saint St. NE, AX 9-3270.

'58 DODGE Coronet Lancer, 2-dr. hardtop, power steering, push button torque flite drive, brand new whitewall tires, sacrifice for \$900. Kostka, AM 8-8793 or AL 5-6704.

BOXER PUPS, fawn with white chests, paws and blaze, black masks, eight weeks old, both males and females, \$25. Archuleta, AL 6-6536.

ELECTRIC RANGE, \$30; 1956 Kenmore automatic washer, noisy, \$45. McDowell, AX 9-6222.

VIKING "75" deck, Viking preamp, amplifier and speaker all in mahogany cabinet, \$150. Reinman, AL 6-9737.

SHETLAND GELDING, black, five years old; red and white five year old Shetland mare; youth saddle, \$45; custom made pony saddle, \$75. Will trade. Schooley, AX 9-4750.

\$84.50 Tilting arbor saw, four months left on guarantee, \$60 cash; power hand saw; sabre saw. Shock, TR 7-3728.

SHOTGUN, 12 ga. Stevens, model 311, double 28" barrels, modified and full choke, double triggers, recoil pad, \$40. Owens, AL 6-3789.

3 BDR. HOME, 1 1/4 bath, Roberson, screened porch, double garage, corner lot, two patios, cooler, \$1000 down, \$19,500. Weir, 2117 Martha NE, AX 9-1160.

NC-300 RECEIVER, Viking Valiant transmitter, 32 ft. tower, CDR rotator, \$500 for all. Johnson, AL 6-0967.

'60 AUSTIN Healey, 3000 series, 4 place, wire wheels, electric overdrive, R&H, low mileage, \$2575. Cook, AM 8-0092.

CUSTOM BUILT 3 bdr., 1 1/4 baths, double garage, large utility room, fireplace, between Highland high and Whittier schools. Randle, AL 6-1747.

BEDSTEADS, two, \$5 each. Dingman, DI 4-1052.

'49 MERCURY, R&H, overdrive. Gilbert, AM 8-2699 after 5:30 p.m.

16" WHEELS for Dodge-International truck, five hole, two; Craftsman 4 x 7 orbital sander, hardly used, extra paper, \$18. Pliner, 6210 Bellamah NE, AL 6-1907.

ENCYCLOPEDIA AMERICANA, 38 vol. including annuals w/bookcase and 10 vol. Popular Science, \$125. Taylor, AX 9-2281.

20" BOY'S bicycle, mechanically sound, good tires, \$20. Baxter, 1610 Bayita Lane NW, DI 4-7601.

'55 DESOTO, 4-dr., power brakes, power steering, automatic transmission, air conditioning, R&H, \$600. Bahr, AL 6-7452.

KENMORE WASHER, automatic, \$30; cabinet top 4-burner Hot Point cooking unit, \$40. Wilson, BU 2-3225.

HEATHKIT HI-FI equipment, ready to play, AM and FM tuners, monophonic preamplifier and 25 watt amplifier, \$100. Smith, 10109 Maya Court NE, AX 9-6873.

LARGE 3 BDR, 1 1/4 baths, brick fireplace, w/w rugs, drapes, air conditioning, double garage, extras. Asking \$18,900 with \$1100 down. Brown, DI 4-6831.

MALLORY HAT, two Stetsons, size 7; men's brown wool slacks; brown wool suit w/2 pr. pants (1 never worn), 36" waist, 39" length; pr. black work shoes, size 8E. Besser, AM 8-5194 after 6 p.m. or Saturdays.

CRIB \$10; high chair, \$5; stroller, \$3; stroller, \$2; playpen w/pad, \$7; bathinette, \$4; spring horse, \$4; rollaway bed, \$7. Harden, AM 8-3108.

DEN FURNITURE, 3 piece, maple, \$30. Proulx, 9410 Arvada NE, AX 9-6066 after 5:30 p.m.

MANGLE, Westinghouse deluxe. Fisher, 8019 Prospect NE, AX 9-5241.

GOLF CLUBS, Spalding registered; 4 woods, 5 irons, leather bag, cart, all \$85. Davis, AX 9-2605.

GERMAN SHEPHERD, registered, 10 months old, good with children, \$75. Sandoval, AX 9-9407.

NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Feb. 24

2 BDR HOUSE, Southeast heights, fully landscaped front/back, hard wood floors, carpet, drapes, sprinklers, utility building. 1100 Jefferson SE. Nelson, AL 5-2364.

INEZ ADDITION, 3 bdr., 1 1/4 baths, den, fireplace, hardwood floors, air conditioned, central heating, walled backyard, sprinklers, landscaped. Schneider, AX 9-3769.

DEEP FREEZE, upright 17", cost \$400 will sell for \$250. Dining room set, oak, \$50. Chavez, AX 9-5955.

'53 STUDEBAKER Landcruiser, 50,000 miles, overdrive, 5 near new whitewall tires, runs good but needs seat covers. Risse, AX 9-5002.

DINING TABLE, four chairs, polished knotty pine top, two leaves with pad, \$60. Bruner, AX 9-3735 after 5:30 p.m.

JOINTER, 6" with 1/2 hp motor and metal stand, \$100. Wilson, AX 9-1872.

TAPE RECORDER, Bell & Howell stereo, brand new, original list price, \$259.95, sell for \$195. Hodges, AM 8-5097.

'46 CHEVROLET coupe, runs good, radio, \$75. Cericola, AX 8-2426.

WEDDING GOWN with short veil, half price \$100 or best offer. Adams, AX 8-2492 after 6 p.m. or week ends.

FRIGIDAIRE cold w/all refrigerator, \$75. Campbell, AX 9-4830.

SEWING MACHINE, Sears Zig Zag, in limed oak cabinet, \$250; Dormeyer mixer, \$15; five 15" wheel chrome rings, \$3. Scranton, AX 9-4902.

SWIMMING POOL. Buster Crabbe, 16 ft. by 32 ft., 7 ft. deep, complete kit, brand new Will sell for \$850 or trade for camper for pickup truck, Milligan, CH 2-2959.

CLOTHES DRYER, 220 volt, Frigidaire, fast and quiet, \$65. Sherwin, AL 5-8866.

OR TRADE 1950 Plymouth for camping gear of equal value or \$110 cash. McAlexander, AX 9-2864.

3 BDR. HOME, 1 1/4 baths, 2-car garage, w/w carpeting, elementary, junior high, high school and shopping center, one mile. Halsey, AX 9-5775.

WASHING MACHINE and gas range, cheap. Abergo, 6706 Cochiti Rd. SE, AL 5-0937.

LIONEL TRAIN, 027 gauge, will sell parts separately; boy's 26" Rawleigh English racer, completely overhauled, \$20; No. 85 Ironrite mangle, \$125. Costello, 6601 Kiowa Ave. NE.

UNIT HEATER, 10,000 BTU. Geilenfeldt, AL 6-7357.

ROBERSON 3 BDR., 1 1/2 years old, 2-car garage, dishwasher, playhouse, children's pool, air conditioned, 1 1/4 baths, built-ins. Sedgwick, 3421 Parsifal NE, AX 9-9071.

TYPEWRITER, Olivetti office portable, \$119 new, used two hours, sell for \$70. Volkman, AX 9-1973.

'57 LAMBRETTA scooter, 150 L.D., buddy seat, new tires. Hines, AL 6-7872 after 5:30 p.m., all day Sat. & Sun.

GE TRANSISTOR w/earphone, Argus C3 camera, tools, briefcase, \$100 or trade for guns; two complete Lionel trains w/accessories on 5' x 9' board, \$100 or trade. Harrison, AL 6-0216.

'57 PLYMOUTH convertible Belvedere, white top & body, PS, PB, R&H, w/w tires, \$1095 or trade for older car. Wetherholt, AX 9-9108.

GOOD OLD 1947 DeSoto fordor, runs fine, \$65. Stam, AX 9-3724.

21" TV, RCA console, like new, four years old, used only 13 months, \$99.50. Benson, AX 9-3315.

DRAPERY MATERIAL, 21 yards, modern print, aqua, grey and black on white, cost \$2.50 a yard, sell entire length for \$20. Fergesen, AX 9-9139.

DACHSHUND, black and tan female, six months old, housebroken, papers included, must sell, \$50. Kamboureilis, AX 8-2148.

AUTOMATIC WASHER, 1956 Bendix, needs new timer, \$22. Taylor, AL 6-3774.

THREE HUBCAPS for 1953 Chevrolet, \$2.50 each. Wiesch, AL 6-7236.

COFFEE TABLE, French provincial, \$15. Hook, AM 8-0291.

3 BDR., den, fireplace, airconditioned, screened patio, double carport, 1400 sq. ft., below appraisal, \$14,740, \$550 down. Thunborg, 1837 Britt NE.

'53 PLYMOUTH 2-dr., good tires, rebuilt motor, new radiator, \$275. Long, AX 9-1416.

KENMORE IRONER, \$30. Jackson, AL 5-4125.

'59 ALLSTATE motorcycle, 5 hp., \$175. Schultz, AL 5-3849.

3 BDR. ROBERSON, 1 1/4 baths, utility, dining room, patio, carpeted, F/A heat, \$500 down. Peterson, 1904 Moon NE, AX 9-6473.

'58 CADILLAC Eldorado, 2-dr. green/white hardtop, all possible extra power accessories, factory air, 25,300 actual miles, \$2795. Corwin, AL 6-0779.

TAPE RECORDER, Masco, \$60 or trade for pump or lever action deer rifle. Stephenson, AX 9-3914.

12" TV, Admiral w/table, \$25; rural mail box, \$1; English bicycle, \$25. Summers, AX 9-4674.

WOOL SKIRTS, six, size 14-16, \$5; Lewyt vacuum cleaner, 3 years old, \$35; Salterini wrought iron breakfast set, 4 chairs, \$90. Schwartz, AX 8-2766.

'52 CHRYSLER, excellent second car, 4-dr. sedan, PS, PB, R&H, licensed 1961, will sacrifice. Magee, AL 6-1358.

TAPE RECORDER, Webcor Regent, plus internal recording attachments, practically new. Zimmer, AM 8-8262, 3212 Burton SE.

WINCHESTER RIFLE, 30-30, model 94; .22 Remington Sportsmaster, model 512 contractor's wheelbarrow, like new; two new homemade comforters. Schuette, AL 6-4071.

ENCYCLOPEDIAS, 54 vol w/c, Great Books of Western World, Britannica's Books of Great Ideas, \$150; Speed Queen ironer, \$40. McMurray, AM 8-0259.

LIVING ROOM set, two pieces Kroehler, 1 lamp, \$38. Williams, 8011 Princess Jeanne NE, AX 9-2747 after 5:30 p.m.

DINETTE SET, five piece bronze-tone; sofa-bed and matching chair; reasonable; 1954 Chevrolet. Burton, CH 7-9630 after 6 p.m.

'53 BUICK Estate Wagon, ww, R&H, PS, reliable transportation, new transmission but engine needs work, a bargain at \$215. Shreve, DI 4-7146.

TR-3 red roadster, 1958, less than 15,000 miles. Mulienburg, AL 6-4739 after 5 p.m.

STERLING SILVER: Westmorland's "John and Priscilla," five 6-piece place settings, \$125. Janney, AM 8-8074.

'60 CORVAIR 4-dr. deluxe, stick shift, many extras, 25 mpg, 700 series. Wood, 4316 Hiltor NE, DI 4-3730.

'41 MERCURY coupe, clean dependable work car, \$70. May, AX 9-5548.

BOAT, Runabout, 12 ft., 30 hp Mercury motor, homemade trailer, \$675; 1/2 hp electric motor, trailer hitch, portable radio, portable phonograph. Cox, AL 6-1977.

HOME FOR puppies, when full grown should be about 12-15 lbs. Stuart, AX 9-9190.

CHILD CARE for working mother in my home Cardenas SE. Cericola, AX 8-2426.

GARAGE DOOR, wood, one piece w/hardware, 7' x 8'. Also want white or semi-clear fibreglas. Collins, AM 8-3612 evenings.

CEMENT MIXER, small size, for back yard projects. Gilmer, AX 9-2533.

TO TRADE 21" TV, Hoffman Easyvision, walnut cabinet console model, for good late model portable set. Johnson, AX 8-1011.

RIDE from vicinity of Menaul & Quincy NE to Bldg. 880 Parking lot, starting Mar. 6. Morterud, AL 5-9263.

RIDE from vicinity of San Mateo and Manzano NE to Bldg. 880 parking lot, starting Mar. 6. James, AL 6-7891.

FOR RENT

FURNISHED APT., redecorated, 3 room, 5 min. from Sandia Base, \$70 monthly, utilities paid; 1 bedroom furnished, 2 blocks from University, \$80 monthly. Chavez, AL 5-1585 after 5 p.m.

2 BDR. HOUSE, furnished, fruit trees, huge front, back yard, cheerful atmosphere, \$70 month. Cummings, CH 7-8437.

2 BDR. HOUSE, enclosed garage, 1717 Wilmore SE, \$85 per month. Cordova, AX 9-3460.

LEASE 3 BDR., two baths, den, built-in stove, refrigerator, air conditioned, central heat, hardwood floors, washing machine, furniture. Chavez, AX 9-5955.

FURNISHED APT., all utilities paid, 4 blocks from Base, close to schools. Powers, AX 9-9433 evenings.

2 BDR. APT. in brick triplex w/stove & refrigerator, parking, storage space, air conditioned, water & garbage paid, 527 Cardenas. Tillman, AL 5-6292 after 5:30 p.m.

JUST COMPLETED, 2 bedroom apt., stove, refrigerator, air conditioning and washer rough-in, near bases, unfurnished, water paid. Milligan, CH 2-2959

15 MINS. to Sandia from 526 Dartmouth Pl. SE, 2 bdr. and bath, large living room, refrigerator, stove, kitchen table/chairs furnished. Reasonable rent. Jones, ext. 47151.

LOST AND FOUND

LOST: Lady's ivory leather gloves; tan stretch glove; knife and nail clip on chain; man's tan knit gloves with leather palms; man's brown leather wool lined gloves; rhinestone dangle earring; brown wallet with ID of T. W. McKinney; Elgin watch left in ladies' rest room in Bldg. 880; brown wallet with ID of Fred Brown. Lost and Found, ext. 26149.

FOUND: Lady's gold Wyler watch; gold tie clip; Dodge key; tan knit gloves with leather palms; K-J auto discount card; safety glasses. Lost and Found, ext. 26149.

FOR SALE AT LIVERMORE

ENGLANDER box springs and mattress, double bed size, Hollywood frame and legs, \$35. Mendenhall, HI 7-6216.

3 BDR. HOUSE, 2 baths, electric built-in kitchen, double garage, patio, 4 1/2% loan, FHA appraisal \$13,500, sell for \$14,500. Wells, HI 7-3446 after 5 p.m.

'51 CHEVROLET Deluxe 2-dr. sedan, new seat covers, paint job. Walker, HI 7-5040.

'55 OLDSMOBILE Super 88 2-dr. hardtop, R&H, hydromatic, WW tires, 53,800 miles, '61 license, \$950 or make offer. Von Steeg, HI 7-1678.

LUGGAGE TRAILER, 2-wheel, 3' x 6' box, \$50. Stewart, HI 7-3697.

'57 PLYMOUTH, 2-dr., 6 cyl., R&H, automatic transmission, 38,000 miles, turquoise and white, \$950. Petriani, HI 7-6290.

3 BDR. HOUSE, 1 bath, hardwood floors, central heat, insulated, 220 volts, double garage, covered patio, trees, fenced, tool shed, \$14,000. Myers, HI 7-3973.

WANTED AT LIVERMORE

USED PIANO. Slice, Ext. 2494.

WANTED

ONE bar bell set or separate bar bell plates, minimum 5 lbs. Lew, AL 5-6956. 5-6956.

4x5 CONDENSER enlarger with or without lens. Drake, DI 4-0407.

RIDE FROM vicinity of Harvard and Highland SE to Bldg. 887. McMahan, CH 3-3129.

RIDE FROM vicinity of 8th and Coal SW. Sandoval, ext. 53164.

RIDE OR join car pool to Bldg. 802 from 3707 Comanche Rd. NE. Feldman, ext. 20155.

CHILD CARE in my home near Sandia Base, qualified, experienced. Nevada, AL 6-1064.

RIDER FROM vicinity of Morris St., Princess Jeanne Park, to Gate 6 or 8. Wilcox, AX 9-5543.

RIDERS TO join car pool from vicinity Carlisle and Gibson SE to Gates 1 through 4. Petrone, AL 5-3633 after 5:30 p.m.

Students View Science As Nation Observes Edison Day



MATERIALS LABORATORIES in Bldg. 861 were visited by chemistry students during the Edison Day Tour. This group is being guided by B. K. Seely (1122) (left). Math students toured the IBM 705, biology students saw Industrial Hygiene facilities, and physics students visited the Van de Graaff accelerator in Bldg. 803.



AN X-RAY DIFFRACTOMETER, used to analyze elements in materials, is explained to several chemistry students by B. K. Seely (1122) during the Edison Day Tour last Friday at Sandia Lab.

'Fiesta Mexicana' Tomorrow Highlight of Club Calendar

Tickets are still available for the Coronado Club's "Fiesta Mexicana" which will be held tomorrow night from 9 to 1. Admission price is \$2.60 for members, \$3.60 for guests, and tickets may be obtained at the club office.

"Fiesta Mexicana" will feature a Spanish-style buffet, Mexican entertainer Mario Leyda, and dancing to the music of Eddie Chavez. Emcee for the entertainment will be Valentino DeLao, assisted by a trio of musicians.

From 5 to 7 p.m. Monday through Thursday and Saturday, the club's lounge provides free chips and dips and an assortment of hors d'oeuvres. These include chicken liver paste, onion dip, assorted cheese dips, Ham du Jour, Swedish meatballs, seafood croquettes, barbecued cocktail wieners, assorted enchiladas, cocktail veal cutlets, julienne of beef with cocktail sauce, and tamales.

"The Mellowtones" will play for the Saturday Night Dance, Feb. 25, from 9 to 1. Tickets are \$1 for members, \$1.50 for guests.

For Friday evening activities, George Davies will provide live music from 5:30 to 8:30 on Feb.

17, and Al Hamilton will be spotlighted the following week, Feb. 24. Social hour lasts from 5:15 to 6:45, and the \$1.75 buffet is served from 6 to 7:30 p.m.

"Family Night" this month features the movie, "Kelly and Me." Free cokes and popcorn are served during the movie which starts at 6 p.m. on Sunday, Feb. 26.

Although Sandia Corporation will observe Washington's birthday, Feb. 22, as a holiday, the club's hours will remain the same as any other weekday, with the lounge opening at 5 p.m.

T. F. Marker Presents Reliability Paper at Boston IRE Meeting

T. F. Marker (2420) presented a paper before the American Society for Quality Control and the Institute of Radio Engineers in Boston, Mass., last week.

Title of his talk was "Some Significant Aspects of Reliability Development in Nuclear Weapons." Theme of the meeting was "Human Factors Engineering."



THE FIFTH ANNUAL EDISON DAY TOUR at Sandia began with a talk on "Plowshare" by B. F. Murphy (5112) to 120 top science and math students from Albuquerque and Belen (N. Mex.) high schools.

Visiting Scientist Program

Twenty Sandians Participating in Education Project; Speaking at New Mexico Schools

Students in senior and junior high schools throughout New Mexico are learning more about the fields of science and mathematics through a "Visiting Scientist Program" sponsored by the National Science Foundation.

The New Mexico Academy of Science is coordinating arrangements for speakers in New Mexico, and has selected a group of 84 recognized professional scientists and educators to participate in the program.

Twenty Sandia employees were among those chosen. Their names, subject specialties, and professional activities were included in the brochure sent to all New Mexico senior and junior high school administrators.

Select Speakers

Using this list, school officials designate the speakers in which they are interested, and then the visiting lecturers are contacted for available dates. This is all done without cost to the schools.

The professional scientists, through their lectures and demonstrations, help students become aware of current developments and technological advances.

As one of Sandia's visiting scientists says, "If we can each interest only one student in becoming a scientist, then the program has accomplished its purpose."

Since the first of this year when the program started, nine Sandians have been contacted by New Mexico schools.

Schedule of Talks

D. H. Anderson (5132) will speak to students in Capitan March 6 on "Spectroscopy of Ra-

Lab News Staff Member A Judge for National Publications Contest

Donald E. Graham (3432), associate editor of the *Lab News*, was in Boston, Mass., this week as a judge for an industrial publications contest. Sponsored by the International Council of Industrial Editors, the evaluation and awards contest had 700 entries from throughout the world.

Don has been at Sandia since March 1956. Formerly he was an advertising salesman for the Albuquerque Publishing Company. He has edited an army newspaper and the New Mexico Junior Chamber of Commerce newspaper.

He is a past president of the Border Council of Industrial Editors.

dio Waves." Sacred Heart School in Clovis has requested a talk on "Radiation Effects," which will be given by Irving Auerbach (5150) in the near future.

"Adhesives and Synthetic Resins Applications" will be discussed by N. J. DeLollis (1112) at Springer High School on May 1. Al Goodman (7223) spoke at Lincoln Junior High School on Feb. 13 on the subject, "Physics is Easy."

"Atmosphere Below 100,000 Feet" was presented to San Felipe Junior High School students last month by R. L. Levesque (7243). He also spoke to students at Shiprock Junior High School two weeks ago on the same subject.

C. A. Sandoval will speak to four school groups during the month of April on the subject "Use of Plastics in Industry." On April 6 he will be at Espanola High School, and April 18 he will travel to Farmington for talks at two junior high schools and one high school.

In Capitan on March 17, B. K. Seely (1122) will speak on "Elec-

Deadline Nearing for Tax Refund Applications Under Fed. Law 86-780

Sandia employees who are eligible for tax refunds under the new federal law 86-780, authorizing refunds of federal income tax (paid on reimbursement by Sandia Corporation for new hires' moving expenses), are reminded that March 13, 1961, is the deadline for filing Claim Form 843, because of the statute of limitations.

Questions concerning status of claims should be directed to G. C. Newlin (6011), ext. 44145.

tron Microscopy." "Structure of the Atom" was discussed by J. D. Shreve (5111) at St. Pius High School in Albuquerque last week. H. D. Sivinski (7311) will present "Some Unsolved Challenges of the Space Environment for the Scientist of Tomorrow" before high school students in Zuni on April 12.

First Bridge Tourney At Club Feb. 20

First annual duplicate bridge for all Sandia employees will be held at the Coronado Club, Monday, Feb. 20, at 7 p.m.

Mike Levesque (7243), director of play, will hold a short indoctrination period for those who have never played duplicate bridge before.

Coffee will be served and trophies will be awarded to the winners. The tournament is sponsored by the Sandia Employees Bridge League.

Sandia Golf League Elects '61 Officers

Jim Arnold (7322) has been elected president of the Sandia Employees 1961 Golf League. Serving as vice president and treasurer is Dick Kidd (2533).

Members of the board of directors are Jim Cocke (7125), Fred Silva (7521) and Jim Leonard (7147), immediate past president.

Livermore Golf Starts

The Livermore Laboratory golf season will open Feb. 25 with a tournament to be held at the Hayward Municipal Golf Course. Interested employees may sign up for the tournament by contacting Jack Bonetti, Employee Services Section 8212-2.

Sandia's Safety Record

Sandia
Laboratory

HAS WORKED

2,045,000 MAN HOURS

OR 60 DAYS

WITHOUT A

DISABLING INJURY

Livermore
Laboratory

HAS WORKED

4,450,000 MAN HOURS

OR 1825 DAYS

WITHOUT A

DISABLING INJURY