



**DIRECT CONTACT** between Corporation personnel in the Pacific and their families in Albuquerque is being made possible by a group of Sandia amateur radio operators. Here at the Tilley home (L to R) are shown Joe Tilley, John Halliday and Paul Vandenberg.

## Ham Operators Keep Sandia Wives In Touch With Husbands in Pacific

A group of Sandia amateur radio operators is providing direct contact between Corporation personnel in the Pacific and their families in Albuquerque.

Two years ago the operators laid the groundwork for such a service and this year official approval was received for contact between the local radio "hams" and stations of the military amateur radio system.

Providing the service here are: Joe Tilley (2411), K5BGS; John Halliday (1411), W5PIZ; Paul Vandenberg (1614), using the W5RLY call letters of Jack Garriott; Ed Thompson (Air Force) on K5EDY; Ralph Roane (1453), W5UCX; Ed Milleshosky (whose wife works in 5213), W5RMY; E. W. Kersten (7113), K5ECO; Dick Lambert (Navy), W5ZHI, and possibly others from time to time.

Cedric Senter (1523) and Jack Garriott (5233) are their main contacts in the Pacific.

Every Sunday and Tuesday from 7 p. m. to 9 or 10 p. m. the operators attempt to make contact on 10 or 15 meter bands with stations in the Pacific. At 7 p. m. Sunday it is already Monday noon in the Pacific. On other nights the band can be "broken into" for emergency messages.

When contact is established a telephone call is made to the local family. If there is an answer the telephone set is plugged into both the transmitter and receiver and the parties can converse as if by telephone—except that any one of the thousands of "hams" throughout the world may be eavesdropping.

If the family sought lives in another town or state a long distance telephone call is placed and then the same procedure is followed. In some areas of the Pacific no telephones are available for private usage and contact through amateur radio stations is the only way the men have to speak to members of their families in the States.

The Sandia amateur radio operators became interested in this service when a number of their group left for Pacific duty. To date John Halliday reports that radio reception has been "very good."

## Bids Received For Modifying Bldg. 626 For Technical Art

An Albuquerque firm was apparent low bidder for modification of Bldg. 626 for occupancy by the Technical Art Division (2463).

A bid of \$20,972 was submitted by Bradbury and Stamm for modification to about 6,000 square feet of floor space, including painting, carpentry work, rewiring for lighting and power, and modifying the heating system.

Temporary fencing around the construction area and connections to existing utilities were included in the bid.

The building is expected to be ready for 2463 occupancy by about June 1, and will provide temporary quarters for the division until suitable permanent quarters can be obtained.

## Dr. Teller To Head Livermore Section UCRL

Dr. Edward Teller has been appointed Director of the Livermore Section of the University of California Radiation Laboratory. He succeeds Dr. Herbert F. York, who has been appointed Chief of the



Dr. Edward Teller

Advanced Research Project Division of the Institute of Defense Analyses.

In his new post, Dr. York will be the Chief Scientist of the Department of Defense Advanced Research Projects Agency. He has been given a leave of absence from UCRL.

Announcement of Dr. Teller's appointment was made by Dr. Ernest O. Lawrence, Director of UCRL. The announcement also stated that Dr. Mark Mills will be the Deputy Director for UCRL Livermore and Dr. Kenneth Street will continue to aid in the day to day operation.

Dr. Teller, Associate Director of the Radiation Laboratory, was born in Budapest and educated in Germany. He was associated with the Manhattan Engineering District and later the Los Alamos Scientific Laboratory.

In 1953 he became professor of Physics at the University of California and Associate Director of the Radiation Laboratory. He was an early researcher in thermonuclear reaction studies and played an important part in the development of thermonuclear weapons.

Drs. Mills and Street were both educated in California. Dr. Mills received his PhD from California Institute of Technology in 1948. He joined the UCRL staff at Livermore in 1953 as Department Head of the Theoretical Physics and Mathematics Division, and was appointed an Associate Director in 1956.

Dr. Street studied Chemistry at the University of California at Berkeley, obtaining his PhD in 1949. He joined the UCRL Livermore staff in 1952 as leader of the Chemistry Department, and became an Associate Director in 1956.



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APRIL 4, 1958

# Rocket Engine Roar Duplicated By New Sandia Testing Facility

High intensity sound produced by jet engines and rocket motors has an adverse effect on sensitive electromechanical parts making up today's modern weapons systems.

To assist Sandia Corporation engineers in designing components to withstand these air induced vibrations, the Facilities Division (1613), Test Laboratory Department, has just put into operation an experimental sound testing facility, the first of its kind at Sandia.

Called by its designer, Charles W. Remaley (1613), "a real mid-range hi-fi system," the experimental plane wave sound testing facility will subject materials to vibrations in the frequency range from 300 to 7500 cycles per second.

The facility works like this:

Four "drivers" (like those attached to loud speaker cones) are hooked up to a plane wave tube, a metal pipe resembling those found in pipe organs. Placed in the pipe are components to be tested. When the facility is turned on, the drivers set up air fluctuations in the pipe similar to actual conditions encountered by weapons.

The noise level, measured in decibels (db's) can be varied by using pipes of different diameters. The experimental facility uses pipes 2¾, 3½, 4½ and 5½ inches in diameter.

Noise generated by the facility begins at 128 db, equivalent to the output of a good hi-fi set operating at full volume, and extends to 153 db, the sound intensity heard right at the throat of a J-57 jet engine or rocket motor. Power must be doubled for every three decibels the noise is increased.

Noise of this intensity would quickly impair the hearing of anyone in the vicinity, and might even cause permanent hearing loss. To prevent this from happening, a cone made of lamb's wool is inserted in the end of the tube to dampen the noise. The unique properties of lamb's wool makes the sound waves traveling through the tube "think" that the tube is open at the end, prevent-

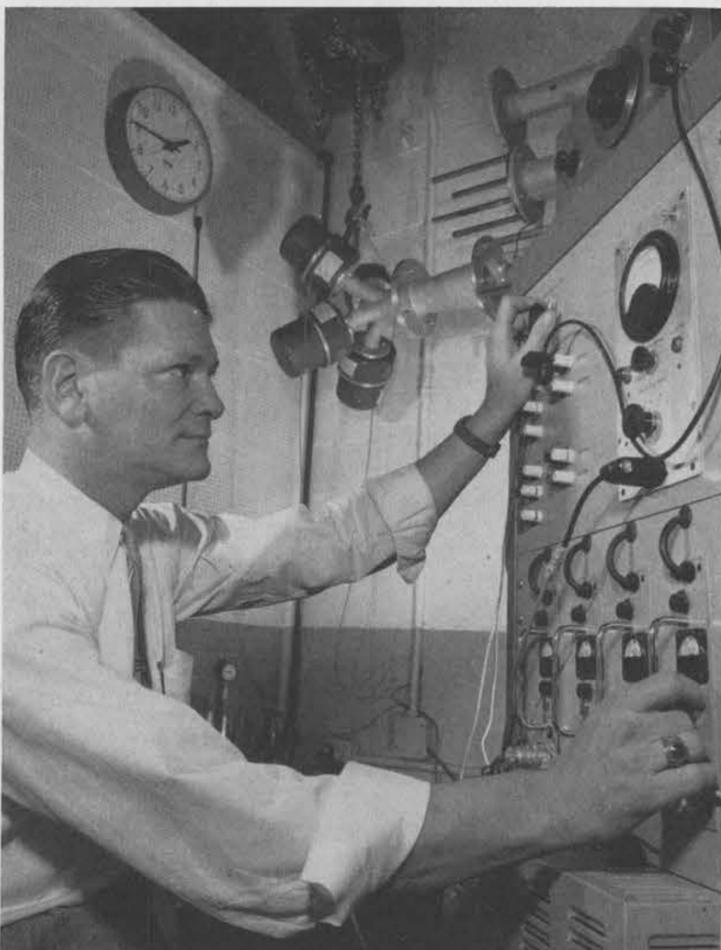
ing any change in the sound wave pattern.

Providing the electrical "push" to activate the air in the tube are 500 watts of audio energy, or five times enough to operate a public address system in a large football stadium.

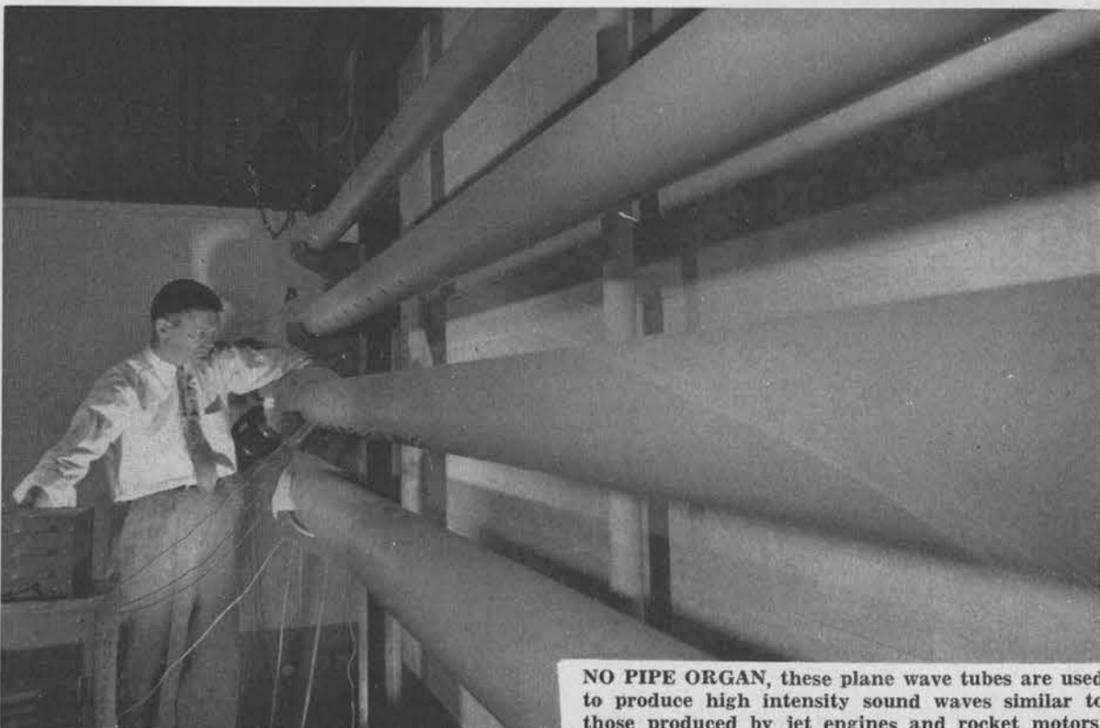
The experimental sound testing facility, designed to reduce the need for costly inflight testing of electromechanical components, is the forerunner of a larger facility planned for Area III. The larger

facility will use a tube about six feet in diameter.

Work on the exponential horns and four-throat manifold, connecting the tubes to the drivers, was done by Otis Peterson, a University of Illinois student employed in Division 1613 last summer. Racks supporting the plane wave tubes were designed by F. C. McGimsey (1613) and the racks, horns and manifold were fabricated in Sandia's Model Shops (2100).



**CONTROL BOARD** of Sandia's new experimental plane wave sound testing facility is checked out by C. W. Remaley (1613), designer of the facility. In the background are four "drivers" which can subject materials to vibrations from 300-7500 cycles per second.



**NO PIPE ORGAN**, these plane wave tubes are used to produce high intensity sound waves similar to those produced by jet engines and rocket motors.



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**Sandians Who Serve . . .**

**E. P. Hutson Elected President of Tijeras Canyon Community Ass'n**

The eastward movement of Albuquerque's population is emphasized by the recent election of a Sandian as president of the Tijeras Canyon Community Association.

The organization chose E. P. Hutson, Plant Security Department Manager, as president for the current year. The Hutsons have lived in Tijeras Canyon for seven years.

The association was organized in 1938 and is composed of residents of the Sandia and Manzano mountain areas in Bernalillo County, many of them Corporation employees. Meetings are not regularly scheduled but are called whenever major civic problems affecting the community are encountered.

Donald S. Dreesen (5522) is the new secretary, and Mrs. Marie Saunders, wife of C. B. Saunders (2552), is treasurer.

Any member is entitled to present any important project before the group but the main interest right now is the proposed city-county merger.

Mr. Hutson said, "The association plans to invite city and county representatives to explain the proposed consolidation."

Mrs. Hutson also has been active in helping organize the Tijeras consolidated school's Parent-Teacher Association.



E. P. Hutson

**Kindergarten Registration**

Registration will be held Apr. 14-25 from 10 a.m. to 1 p.m. at the Sandia Base kindergarten for children expecting to attend in the fall.

Mrs. David Lloyd, kindergarten supervisor, notes that preference will be given youngsters eligible to attend school the following year. The kindergarten is located close to the parade grounds next to the old Catholic chapel.

**Rio Grande Rapids Running Favorite Sport For Adventurous Raft Riders**

Sandia's "voyageurs" set off on a recent sunny week-end to pit their technique against rapids of the Rio Grande.

The boatmen were: Ben Benjamin (5216), his 10-year-old son, Cody; G. A. Fowler (5000); H. H. Patterson (5250) and W. T. Smith (5215).

They pushed their 10-foot rubber boat into the river at Otowi Bridge between Santa Fe and Los Alamos and 10 hours later emerged 24 miles downstream at Cochiti Pueblo.

In White Rock Canyon there was ample excitement as they ran a series of 10 rapids. There

were sufficient sights in the calm water stretches to keep them interested. The men saw numerous Indian pueblo ruins, cliff dwellings and strange birds.

A modern-day development was also discovered. One rancher built a stone pump house atop a 1000 ft. cliff to bring up river water for his grazing stock.

Next target for the rapid-runners will be a stretch of the Colorado River through Granite Gorge in Arizona.



WHAT LANDMARK? G. A. Fowler's map indicates there should be a prominent outcropping of rock right over there.



SCOUTING THE STRETCH AHEAD is H. H. Patterson. The adventurers saw many deer, ducks and wild geese when they weren't busy shooting rapids.

**Weddings and Engagements**

Ben Albert and his wife, the former Lucille Kennedy, are now living on Base following their marriage Mar. 22 at the Base Chapel.

Lucille has worked for the Corporation since June 1955 (in 2731-3) and Ben has been with Sandia eight months (in 2542-3).

The couple took a short honeymoon trip to Taos.

Fern Blair (7226) and David S. Howes of Albuquerque have set Apr. 11 for their wedding date. The ceremony will be held at the Kirtland AFB Chapel.

Fern returned to work at Sandia in February after a brief absence.

Our Lady of Guadalupe Church in Peralta will be the scene of the marriage Sunday, May 4, of Colfita Aragon (2221) and Mickey Sanchez (2232).

After a honeymoon at Grand Canyon, Ariz., and Las Vegas, Nev., the couple will live in Peralta.

**Congratulations**

**Born to:**

Mr. and Mrs. D. D. Wader (2231) a son, Donald Dale, Jr., on Mar. 16.

Mr. and Mrs. A. W. Mercier (2722) a daughter, Jeanne, on Mar. 25.

Mr. and Mrs. Marvin Glaze (8213) a daughter, Lori Ruth, on Mar. 17.

Mr. and Mrs. Leo Gutierrez (8124) a daughter, Delia, on Mar. 12.

Mr. and Mrs. Gene Moser (2741) a son, Patrick Joseph, on Mar. 16.

Mr. and Mrs. George Ingram (5132) a son, Bryan Allen, on Mar. 20.

**Sympathy**

To H. L. Webster (1651-2) for the death of his mother in Woonsocket, S. D., on Mar. 19.

To Robert A. Jeffrey (5232) for the death of his father-in-law in Albuquerque on Mar. 24.

To Dean B. List (5231) for the recent death of his mother in Jackson, Mich.

To T. F. Jones (8123-2) for the death of his father Mar. 12 in Omaha, Neb.

To C. Wolfenbarger (2131) for the recent death of his father in Miami, Okla.

**Impress Your Friends**

A class in spoken Russian will be offered by the Kirtland AFB Educational Guidance Section starting Apr. 7 for civilians and dependents as well as military personnel.

Instructor for the course will be Dr. Marcel I. Weinreich, Sandia Corporation translator (7223-3), who learned Russian during extensive study and travel in that country.

Classes will be held at Kirtland in Bldg. T-460 from 5:30 to 7:30 p.m. Monday through Thursday and will continue until about May 30.



OTOWI BRIDGE is start of 24-mile river trip. (L to R) W. T. Smith inflates rubber boat, encouraged by W. T. Moffat (5240), who furnished road transportation, B. C. Benjamin, G. A. Fowler, and young Cody Benjamin. The downstream jaunt took 10 hours.

**Sandianotes . . .**

**13-Year-Old Son of Sandia Employee Gets Coveted Boy Scout Eagle Badge**



MINIATURE EAGLE BADGE is pinned on Mrs. Mary Ray Houston (formerly 7411-3) by her son, Bill, during recent Boy Scout Awards ceremony

One of the youngest boys in the country to receive the Boy Scout eagle badge is Bill Houston, who was awarded the honor on Mar. 21. The 13-year-old youngster is the son of Mr. and Mrs. H. E. Houston (1463).

Bill has been a scout for two years four months and is a member of Troop 391. Presentation of the badge was made by R. A. Bice (5200). Leader of Troop 391 is another Sandian, Rudy Herrmann (5253).

(Accompanying picture of the event was taken by Vic Osterby, 7411-5.)

**On Target**

Sandia Base Archers Club will meet Wednesday, Apr. 9, with all civilian and military base personnel invited. The meeting will be held at 7:30 in Room 307, Bldg. 361 (behind the Bank of New Mexico).

The group has already set up a practice site near the rifle range and an archery course near the Manzano Base picnic grounds. During this meeting members hope to fully organize on a family basis.

For further information call Robert A. Potter, AM 8-1548.

**Marriage Plans**

Congratulations are extended to Thomas M. Bolz (7411-1) on his forthcoming wedding to Doris B. Kelly, daughter of Mrs. Walter Kaufman of St. Louis, Mo. The ceremony has been set for Apr. 12 in St. Francis Xavier Church in Clayton, N. M.

"Tom" has worked for Sandia Corporation since October 1956.



BEACH OF WAIKIKI was one of many attractions of Hawaiian vacation taken by Georgia M. Howard and her husband.

**Water Everywhere**

"The Pearl of the Pacific" was the destination of Georgia M. Howard (2461-3) and her husband, Dr. Spencer M. Howard, who recently returned from two weeks in Hawaii.

The couple flew to Honolulu and also visited Kauai, one of the other islands.

Georgia reports that one of the most interesting features of the trip was a tour of Pearl Harbor in a Navy boat with former Albuquerque friends now living in Honolulu.

**Welcome Arrivals**

John G. Wimpling's family has arrived from Baltimore, Md., and their new address is 3159 W. Sandia Drive, on Base. John was formerly in the New York area for Field Inspection Division but he is now supervisor of 2713-4.

**Wedding Anniversaries**

Among those celebrating their wedding anniversaries in March were Wheeler (7223) and Georgia (7225) Hahn, their 25th; Edward (2220) and Edith (5531) Jolly, their 23rd, and Mr. and Mrs. William Neitzel (5531) their 16th.

**Major Moves**

Three members of 7232 have moved into new homes during the past couple weeks. Getting settled at new addresses are Rod Lord and his family at 9636 Elvin NE, Larry Eden and his family at 9509 Apache NE, and Mr. and Mrs. William Padilla at 923 Arizona SE.

# Sandia Employees Candidates In City Commission Election



Richard Bice

Sandians voting in the Albuquerque city election on Apr. 8 may find the names of three co-workers on the ballots.

Richard Bice (5200), Paul Kollmeyer (2582) and Edward V. Kubiak (2533) are among the 10 persons filing for the three open places on the city commission. Term of the office is four years.

Mr. Bice, Sandia's Director of Field Testing since 1954, is running for re-election on the Albuquerque Citizens Committee ticket. He joined the Los Alamos Scientific Laboratory in 1945 and moved to the Sandia Branch in 1946. Previously he was a senior engineer for Westinghouse Research Laboratories for four years and an



Paul Kollmeyer

agricultural engineer for the University of California for one year. Mr. Bice received a BS degree in Mechanical Engineering from Colorado State University and took graduate work at the University of Pittsburgh.

Mr. Kollmeyer has been a structural analysis engineer at Sandia for two years. He is seeking office as an independent. Prior to coming to Albuquerque he worked in structural engineering for two years at Boeing Aircraft in Seattle and nearly a year for Theiblot Aircraft in Washington, D. C. He also was two years with the Maritime Administration in Washington as a naval architect in preliminary design. He holds a Bach-



Edward Kubiak

elor's degree in civil engineering from the University of Virginia.

Mr. Kubiak is on the ballot as a candidate of the Property Owners ticket. He has been with Sandia nearly nine years and is an engineer in manufacturing systems department. Before employment here he was studying engineering at the University of Rochester and the University of New Mexico. He worked briefly as a designer for Gleason Works, a manufacturer of gear cutting machinery, and S. A. Smith Co., fabricators of miniature motors, both in Rochester. During three years in the Army Air Corps Mr. Kubiak served as a radio mechanic and operator.

## L. E. Hollingsworth Candidate in Livermore School Board Election

Lee E. Hollingsworth (8120) became the first member of the Sandia staff at Livermore to run for public office when he filed recently for one of the two elementary school trustee seats open at the May 20 election.

Lee said the growing importance of education has given him a particular interest in the Livermore education system. The Hollingsworths have twin boys of kindergarten age and a younger daughter.

"My grandmother was a school

board member when my father was in school, and my father was a board member when I was in school. I think my children ought to have the same experience," he said.

At the time he filed, Lee was the only opposition to the two incumbents in the election. Filing deadline is April 18.

Lee and his family transferred to Livermore from Albuquerque in September 1956. A native Californian, he joined the Corporation in 1950.

## Service Awards 10 Year Pins



John P. Hertweck  
7325  
Apr. 12, 1948



José A. Suazo  
2163  
Apr. 7, 1948



Clarence M. Vick  
5252  
Apr. 15, 1948



Helen T. Lautner  
4151  
Apr. 13, 1948



Wynne K. Cox  
2461-3  
Apr. 6, 1948



José F. Montoya  
2473  
Apr. 9, 1948



Oleta M. Morris  
4333-3  
Apr. 16, 1948



Raymond L. Brin  
8111  
Apr. 5, 1948

## Five Year Awards

Apr. 4-10  
Donald A. Baumann 1415, Floyd A. Kunz 2552, Marian S. Flynn 7221, Robert G. Taffe 4153, Elizabeth C. Durand 2121, Dorothy C. Pratt 2231, Benjamin S. Gardiner 2723, and Gene W. Mead 2531.

Apr. 11-17  
James R. Perkowski 8211, Joseph P. Gaynor 2224, John R. Banister 5112, William S. Bedwell 2742, Mary V. Simpson 2163, Kittruff K. Holloway 2742, George Simpson 2417, and Richard E. Hodges 2462.

## Two Year Certificates

Apr. 4-10  
L. Faye Rose 7225, Thomas M. Tinkle 2551, Herbert D. Mallory 1463, Robert L. Voneshen 5223, Terry A. Halpin 4342, Wendell B. Gillette 2721.

Herman L. Miller 7232, Mary L. Lindberg 2461, Katherine A. Driggers 7326, Brian S. Ward 1262, and John W. Frizzell 4341.

Apr. 11-17  
Verle L. Swinney 7412, Marian C. Weiss 7225, Emmalyn L. Massey 2461, Gerald W. Long 7232, Phillip O. Rogers, Jr. 2721, George A. Parker, Jr. 2700.  
J. Peter Wakeland 7214, Gene L. Schuetz 1611, Lillian B. Sandin 2711, Jose C. Valdez 2474, and Clifford M. Stover 5224.



Edwin V. Gloss  
2232  
Mar. 23, 1948



Robert F. Thomas  
2722-5  
Apr. 12, 1948



James P. Mahoney  
2472  
Apr. 16, 1948



Frank A. Baczek  
2162  
Apr. 5, 1948

## W. O. Bramlett Heads International Guards Union of America

William O. Bramlett (2742) is currently on leave of absence from Sandia Corporation to serve as president of the International Guards Union of America, which has its headquarters in Chicago.



W. O. Bramlett

"Bill" was formerly president of Local 27 here in Albuquerque and was serving as the group's business agent. He was also previously an international vice president.

## Hams to Hear Melick

Lloyd Melick (1422) will discuss "Linear Amplifiers for Single Sideband," at the Apr. 8 meeting of the Sandia Base Radio Club.

The meeting will begin at 8 p.m. at the club room on Sandia Base, it was announced by John S. Cundy (7232), club secretary.

## Singing Is Her Greatest Joy, Says Livermore Secretary

Music has always been the love of Margarita B. Paredes (8212-3), who works during the day as a Livermore Branch secretary and at night makes an 85-mile round trip to study voice at San Francisco's Conservatory of Music.

In addition, each Saturday Margarita works with her opera coach, Guilio Silva, internationally famous former La Scala opera star. Every two months she joins other serious opera students at the San Francisco Opera Workshop to stage free programs for opera-loving San Franciscans.

She is learning operatic parts in Italian, French, German, Spanish and English and several weeks ago sang in San Francisco her favorite role, that of Azucena from Il Trovatore.

Margarita was born in Colonia Juarez, Chihuahua, Mexico. "As far back as I can remember I have been singing. It has been my greatest joy," she said. At Brigham Young University in Provo, Utah, she met the two people who changed the course of her life.

The first was her first voice teacher, "Miss Foster," Margarita said, "made me believe that I really could do something with my voice. She inspired me to work hard."

The second person was Felipe Paredes, a tenor whose lifetime



"CARMEN" will be a future role for Margarita B. Paredes, Livermore secretary-opera singer. Twice a week during her lunch hour Margarita studies with her French teacher, evenings it's singing lessons in San Francisco.

hobby has been singing. They worked together for months, fell in love, and in 1953 were married.

Felipe, who now works at UCRL-Livermore as a metallurgical engineer, accompanies his wife to San Francisco and has appeared in a number of Opera Workshop programs. Margarita added, "He has been a patient teacher, and without his help I would have given up many times."

## Welcome Newcomers

Mar. 17-28

New Hires	
<b>Albuquerque</b>	
A. Betty Allen	7411
Ruth E. Bontrager	3153
Marilyn L. Callahan	3153
Marlene S. Dunaway	5125
Donnabeth Everett	7411
John W. Flinn	4142
Thurman Foreman	2474
William A. Gardner	3152
Clemmie Gonzales	2731
Betty J. Ingram	2231
Ralph T. Laws	1613
Virginia Ortiz	2111
Peggy A. Roody	2722
Dorothy J. Russo	2543
Elma B. Sabin	2713
Samuel Salazar	2474
Christine G. Sullivan	7225
Gerald M. Whitlock	7231
<b>California</b>	
Donald C. Beard, Livermore	8132-1
Dorothy Clark, Livermore	8212-3
Jerry C. Jamison, Livermore	8221-1
<b>New Mexico</b>	
Richard G. Daniels, Roswell	7412
Vancie I. Santistevan, Santa Fe	4135
<b>New York</b>	
Eduard J. Mischler, New Hyde Park	7412
Sevmour Tamres, New York	7412
<b>Oklahoma</b>	
Charles H. Arning, Nowata	7412
<b>Wisconsin</b>	
Donald L. Chase, Madison	2742
<b>Rehired</b>	
Kathryn I. Bolen	2553
Ruth M. Burns	4135
George T. McClure, Roswell, N. M.	4113
Maxine N. Pierce	2532

## Supervisory Appointments

JOHN C. ECKHART to manager of Instrumentation Development Department 5220.



John has been employed at Sandia for nine and one-half years and has been supervisor of Telemetering Systems Division 5223 since June 1954.

Before coming to Albuquerque he was with the Radio Corporation of America's Victor Division at Camden, N. J., as a systems engineer in broadcasting equipment.

He received his degree in Electrical Engineering from Purdue University in 1946 and has been working toward a Master's degree at the University of New Mexico.

John is a member of Eta Kappa Nu, electrical engineering honorary.

He served two years in the Army.

BERNARD H. BUEFFEL, Jr., to supervisor of Section 1411-1, Engineering and Operations Division.

"Barney" has been at Sandia nearly six years, first in technical training and more recently in component engineering.

He came to Albuquerque from Bucknell University in Lewisburg, Pa., where he taught electronics for seven years.

Previously he was at New York University for two years obtaining his Master's degree in Electrical Engineering and for three years teaching electronics and doing research work.

For one year Barney worked for the Navy Department as an instrument engineer at the Brooklyn Navy Yard.

His Bachelor's degree in Electrical Engineering is from Clarksons College of Technology.

Barney is a senior member of IRE and a member of Eta Kappa Nu, electrical engineering honorary, and Pi Mu Epsilon, mathematics honorary.



FAREWELL PARTY was held for L. J. Paddison (left) on the occasion of his transfer from Director of Quality Assurance, 5500, to Director of Reliability Development, 1500. John H. Findlay (right) is his successor as Director of Quality Assurance, 5500.

## John R. Smith Retires Mar. 31

John R. Smith retired from Sandia Corporation this week after five and one-half years employment.



John R. Smith

He was in Electromechanical Division (2541).

A native of Canada, Mr. Smith came to Albuquerque after 30 years in Chicago in the field of design and production of instruments.

He and his wife plan to live in Chicago at 600 Diversey Parkway where he will continue in consulting work.

Mr. Smith is an avid bridge player and has placed third in three national tournament events. He intends to enter all events in the forthcoming State Tourney here and will be on hand later for the nationals.

## Santa Domingo Pueblo Indians Will Present Easter Dances Sunday

Newcomers to New Mexico and residents interested in Indian lore will have an opportunity to view the ceremonial Easter dances at the Santa Domingo Pueblo, halfway between Albuquerque and Santa Fe on N. M. State Highway 22.

The dances start Easter Sunday and continue through Wednesday and are widely known for their costuming and authenticity.

## Sandia Corporation Helps Scouts in Fire Prevention Exhibit

Sandia Corporation will have a fire prevention exhibit at the forthcoming Boy Scout Fire Safety Field Day, sponsored by the Kit Carson Council.

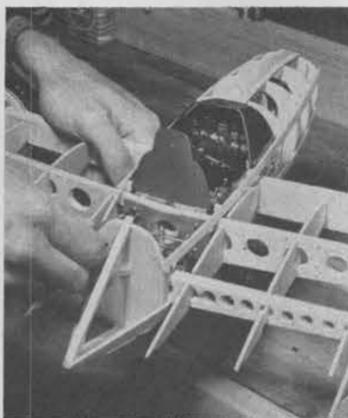
T. A. Rosenwald (2442) will be present at the Fairgrounds, Apr. 5 from 1 to 4 p.m. to demonstrate fire prevention practices.

# P-38 Flying Model Exact to Most Minute Detail Takes Two Years Tedious Labor

Donald Yearout (1263) is working on a shoestring!

The shoestring, in this case, is used as a miniature replica of a safety belt on the pilot's seat of a flying model P-38 he is building. A tiny metal clasp, copied from the regulation buckle, hooks the belt together.

Everything on the model of the twin-fuselage bomber is in



CONSTRUCTION DETAIL of the cockpit of the P-38 being built by Don Yearout (1263) is shown in this close-up view.

exact scale to the original, from the instrument panel in the cockpit (a photograph of the real thing) to the wheels on the landing gear.

Don has been working on the model at home for more than a year and hopes to have it completed in time to enter it in the National Model Airplane Meet at Los Alamos Naval Air Station, California, in July, 1959. Much of the time he has devoted to the model has been spent in research work, looking up old plans and photos of the World War II plane.

### Special Engines

Parts not available commercial-

## R. E. Schaefer to Retire After 42 Years WE Service

Russell E. Schaefer, Sr., will retire from Western Electric Co. this month after nearly 42 years service. He has been assigned to Sandia Corporation since 1951.



R. E. Schaefer

Works in all phases of accounting and in supervision. At Sandia Mr. Schaefer has been in auditing (4122).

Mr. and Mrs. Schaefer plan to remain in Albuquerque at 2612 Mesa Linda Dr. NE. They have a daughter in Chicago and two sons employed by Sandia Corporation: Russell E. Schaefer, Jr., (2236) and Warren C. Schaefer (7231).

Although on sick leave for the past year, Mr. Schaefer plans to spend some of his time working around the house.



SURROUNDED BY TROPHIES won by his other model aircraft Don Yearout (1263) adds finishing touches to P-38 landing gear.

ly Don had made to order or built himself from the plane's original specifications. The battery-powered retractable landing gear, which can raise or lower in flight, was engineered by Don. The plane's counter-rotating gasoline engine he had made to order.

Don started building model airplanes in high school in 1939 and since then has constructed more than 1000 models, of which 200 were powered by gasoline engines. The walls of his workshop are decorated with just a few of the 60 trophies he has won in national competition.

A flying scale model of the Hawker Typhoon brought him his most recent trophy, winning third place at a meet sanctioned by the Academy of Model Aeronautics at Phoenix in January. In 1952 Don won first place in the nationals with his model of a Navy Corsair. To win the meet, held at the Naval Air Station at Los Alamos, Calif., Don had to take off and land his plane on a scale model of an aircraft carrier.

### Featured in Life

Life Magazine ran a story in 1951 featuring Don as one of the pioneers in the field of jet-propelled model planes. The same

year he won the All-Western Open Meet for jets.

Besides flying models, Don has done some real flying. He holds a private pilot rating and served as crew chief in an Air Force fighter squadron in 1950 and 1951.

Don, who is a staff assistant in the Firing Set Development Division, joined Sandia two years ago. Prior to his employment here he worked for C. G. Electronics in Albuquerque. He attended the University of New Mexico for three years and while going to school worked as a plumber in his father's firm, Yearout Plumbing Co., in Albuquerque.

"Flying model airplanes can be a frustrating business," Don said. "My P-38 may be perfect in every detail, but if it cracks up during the contest it will be two years' work down the drain."

## L. E. Castle Heads New Training Group

Lynn E. Castle (3124) and W. H. "Bill" Bailey (3123) have been elected to posts in the newly-created New Mexico Chapter of the American Society of Training Directors.

## Handbook Published by Sandia to Assist in Classification Decisions

### J. W. Grear Presents Paper at Symposium

Jay W. Grear, Jr. (1463-2) will present a technical paper at the Sixth National Symposium on Electromagnetic Relays to be held at Oklahoma State University, School of Engineering, Apr. 8-10.

The paper is entitled "Some Causes and Remedies for Undesirable Variability of Relay Performance Characteristics." It discusses one of the problems experienced in matching characteristics of a specific relay to the requirements of a system application at Sandia Corporation.

Mr. Grear has been in power and switching components development work during his seven years with Sandia. He holds a Bachelor's degree in Electrical Engineering from Purdue University and an MS in EE from California Institute of Technology.

## Sandians Assist in New Mexico Science Fair at Socorro

Several Sandians are taking an active part in the forthcoming New Mexico State Science Fair in Socorro Apr. 12.

Stuart C. Hight, Director of Research (5100), is chairman of the Scholarship Awards Committee which will present a \$200 scholarship to the winner of the IRE sponsored event at the Science Fair.

Serving on the scholarship committee are Max Weber (5121), Gene Newlin (6010) and W. T. Moffat (5240).

Local judges include L. L. Lodge (1462), Ralph McGehee (1413), R. P. Noble (1462), Howard Sander (5150) and Dick West (1454).

Should it be secret?

Chances are the answer is in Volume II of the Sandia Classification Handbook, known also as SC 4147 (M), prepared by the Classification Board.

The new volume, published Mar. 17, is a classified publication being distributed to all Corporation personnel who have been delegated the authority to classify documents and material. It is an expansion of the AEC-DOD Classification Guide (OC Dos-38).

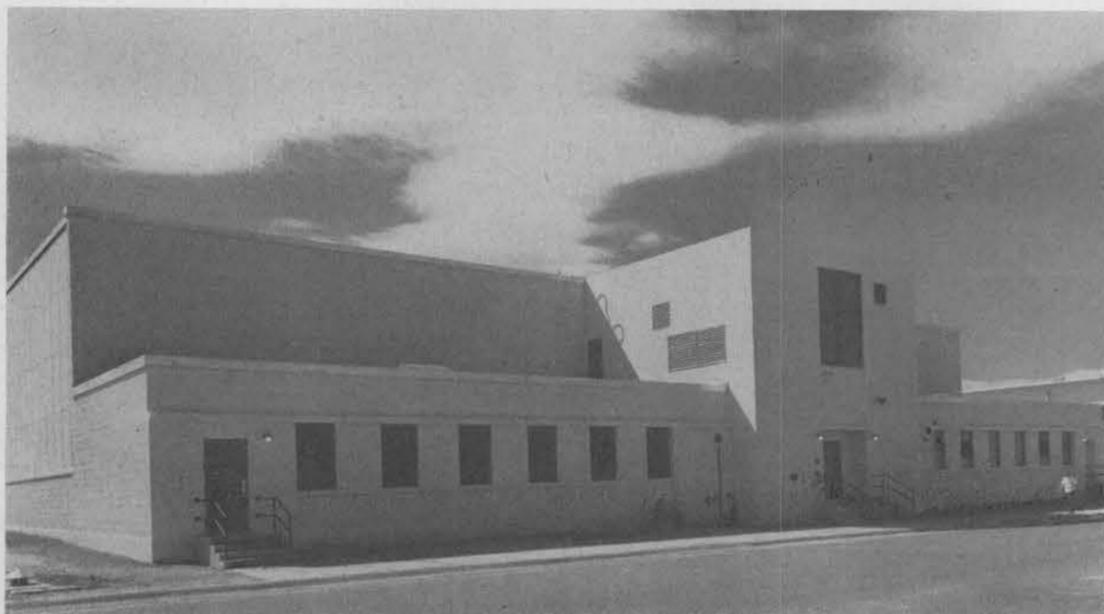
Serving two purposes, the volume quotes those sections of the AEC-DOD guide which are most applicable for use by Sandia Corporation, its consultants and suppliers, and provides interpretations of the basic guide made by the Albuquerque Operations Office Division of Classification, the ALO Classification Committee, and the Secretary, Sandia Classification Board.

The book has been prepared so that it can be revised periodically when changes in classification occur.

Volume I of the Classification Guide, entitled "General Guidance and Criteria," is an unclassified publication now being printed for distribution the first week in April. Volume I, made for ease in revision also, contains such information as historical background, reasons for classifying, examples of how classification criteria are determined, and definitions of classification levels and categories.

### Helps Edit Book

Gil Rhodes (8222) helped edit and prepare for print a new U. S. Department of Health, Education and Welfare booklet entitled "Uniform Definition of Home Accidents."



MOCK-UP BUILDING for the Systems Development organization is one of the newest structures of Tech Area I. The building, numbered 809, contains more than 13,500 square feet, cost \$308,000.

## Modification of Two Buildings In Tech Area To Be Started Soon

Bids will be opened next week by the AEC for modification of two temporary buildings in the main technical area and installation of water lines and electrical conduit in other laboratory areas.

The buildings, 838 and 839, are being modified for temporary occupancy until permanent structures can be obtained in the next few years.

Work on the buildings, to cost between \$36,000 and \$43,000, will include removing and installing new partitions, ducts, evaporative cooling, lighting circuits, power outlets and panel boards.

### Modify Bldg. 838

When completed, Bldg. 838 will house the commercial catalogue and specification files, and provide quarters for Drafting Section AIII (7411-3), the Specifications Division (7422), laboratory space for the Fuzing Systems, Firing Set Development and Warhead Electrical Systems Divisions (1262, 1263, and 1264), and Product Evaluation Division (1624).

Bldg. 839 will provide temporary quarters for the Radiation Effects Test Section (1626-1) and the Radiation Special Studies Section (1626-3) until work is completed on Sandia's new reactor facility.

The building will also provide temporary housing for the Nuclear Magnetic Resonance Machine of the Radiation Special Studies Section (1621-3), the Pre-

cision Branch Shop of the Radio Frequency Standards Section (1652-2), and the Printed Circuit Shop (2133-3).

### Materials, Standards Bldg.

With the exception of the Printed Circuit Shop, these sections and Org. 1624 will be housed eventually in the new Materials and Standards Building to be started about July 1.

Bids will be opened Apr. 10 for stringing new power lines to the Field Test site near the East Gate. The job, to cost between \$10,000 and \$18,000, will consist of removing 1600 feet of three-wire line, construction of 3000 feet of new line, terminal installation, transformer substation, underground distribution and other work.

Work is also expected to begin this month for the laying of 2650 feet of eight-inch water line and 900 feet of three-inch line in Area III. Bids for the job will be opened Apr. 9. When completed the water lines will extend the present water system in Area III, providing increased fire protection and a water brake facility for the sled track. Cost of this project is estimated at between \$10,000 and \$15,000.

Preliminary plans and specifications for these construction programs were drawn up by the Plant Engineering Organization (2440).

The final plans and specifications are prepared by the architect-engineer under contract to the AEC.

## ASM Members Meet With AWS Apr. 17

The American Society for Metals and the American Welding Society, in a joint meeting Apr. 17, will hear an International Harvester Company engineer discuss, "Field Failures as Influenced by Heat Treatment and Machining."

The speaker, J. D. Graham, is Chief Materials Engineer for International Harvester in Chicago. His talk is based on studies of field failure records of heavy duty equipment manufactured by the company. Information in these records helped in the modification of heat treatment, welding and fabrication processes.

Place of the meeting is the Chinese Village restaurant, 3403 Central NE, with dinner beginning at 6:30 p.m. and the meeting beginning at 8 p.m.

Reservations may be made by contacting Vince Nelson (1624-4) at Ext. 42250 or Byron Wickett (1624-2) at Ext. 25163.

## ASME to Hear Inside Information on How to Get New Engineers

Dr. E. R. Harrington, Director of Secondary Education for the Albuquerque Public Schools, will address the Apr. 16 meeting of the New Mexico Section, American Society of Mechanical Engineers. His topic will be "How to Interest Young People in Engineering and Who Should Be Educated."

The meeting will begin at 7:30 p.m. in Room 100 of the UNM Biology Building.

Dr. Harrington has long been active in encouraging young people to enter technical fields. In 1932 he established the "dawn patrol," a 5:30 a.m. class in science covering subjects not normally taught in high school.

From these early morning get-togethers, attended by more than 400 students, 100 subsequently attained engineering degrees and 70 have earned doctor's degrees in various sciences. All told, Dr. Harrington estimates he has led about 300 students to engineering careers.

## ASTE Meeting

The Albuquerque Chapter, American Society of Tool Engineers, will hear a talk on Optical Tooling at its meeting Apr. 9.

Details of the meeting will be announced by mail.



Genuine or phony?  
—Inscription proves baffling to archaeologists—

## Hoax or Genuine . . .

# Rock Carvings in Phoenician Puzzle New Mexico Explorers

One of the deepest mysteries in New Mexico was explored recently by the New Mexico Mountain Club when the group visited some strange rock carvings near Los Lunas.

Carved on the rock in three ancient languages — Phoenician, Moabite and Greek—is a version of the Ten Commandments. How the inscriptions got there, when they were made, and when they were first discovered is unknown. It may be one of the wonders of the world or it may be a practical joke.

The first translation of the carvings, made by Harvard professor Robert A. Pfeiffer in 1947, establishes the text as part of Exodus 20:2-17.

### From Bible

His translation reads as follows: "I am Yahweh thy God, who brought thee out of the land (added—there shall not be unto them other gods before me) of Egypt, out of the house of bondage. Thou shalt not make unto thee a graven image. Thou shalt not take the name of Yahweh in vain. Remember the day of the Sabbath to sanctify it.

"Honor thy father and thy mother that thy days may be long

on the soil which Yahweh thy God (giv)eth thee. Thou shalt not kill. Thou shalt not commit adultery. Thou shalt not steal. Thou shalt not testify falsely against thy neighbor. Thou shalt not covet thy neighbor's wife."

The professor's translation served only to compound the mystery, however, for he did not comment on the authenticity of the carvings.

Theories advanced by believers in their authenticity claim that the inscriptions are similar to others found in old Mexico. They add that a race of people with a knowledge of the Phoenician language lived on the American continent years before Columbus discovered the New World.

Others maintain that the words were chiseled into the rock by religious missionaries passing through the area within the last century.

Skeptics claim that the apparent newness of the lettering indicates the whole business to be a hoax. Other rock hounds associate the inscription with ruins of what matches are expected to begin appears to be a stone block temple on top of the mountain on which the rock was discovered.

## All-Star Game Scheduled Apr. 7

The Sandia Corporation All-Stars Basketball team will face the Sandia Base All-Stars Monday, Apr. 7 at 8 p.m. at the Sandia Base Gym.

Coaches Howie Smyth, Jr. (2461), George Porter (3123), and Hal Cushman (2551) have been working the squad diligently and predict a fine showing by the Corporation team.

Sandians chosen for the All-Stars on the basis of their season performance in the Corporation Employees Basketball League include:

- Ken Flynn, 5521
- Ben Marquez, 5522
- Leo Chaves, 2461
- Julian Montoya, 2472
- Carrington Woodyard, 2461
- Bob Hedges, 1624
- Joe Costales, 4153
- Gil Baca, 6021
- Adolfo Maes, 2461
- Charlie Salazar, 2461
- Ron Zottnick, 2511
- Ray Rychnovsky, 2533
- John Vick, 1262
- Tom Oatman, 1245
- Julian Lovato, 7412
- Verle Swinney, 7412
- Jim Tichenor, 5132
- Bruce Wiskeburg, 5150
- Paul Hersey, 3123
- Jerry Olguin, 2711
- Juan Tafaya, 2351
- David Chavez, 2351
- Carl Duimstra, 1472
- Hudson Dennis, 1441
- Wayne Galer, 5243
- Fred Millsap, 5241
- Don Ritter, 1612
- Don Bauder, 1613
- Flavio Gonzales, 2112
- Leonard Morrison, 2131
- Frank Comiskey, 7242

A trophy will be presented to the winning team immediately after the game. Admission to the All-Star event is free and many seats are available in the new gym.

## Meeting Planned For Golf League

An organizational and planning meeting for the Sandia Golf League will be held at noon Apr. 14 in Room 100, Bldg. 880.

Individual and three-man team entries for the league are now being accepted by Dick Kidd, Jr. (1245), Ext. 48158; Fred Silva (5521), Ext. 22134; and Chet Fornero (7329), Ext. 31235.

Deadline for league entry will be Apr. 21.

The league is conducted on a handicap basis and is usually divided into two flights. The "A" flight is for low handicap players and "B" flight is for the higher handicap shooters.

League tournament is planned for the latter part of May and about May 10.

## IGY Aurora Problem To Be Discussed For SNT Members Apr. 17

"Aurora and Air Glow Problem in IGY" will be discussed by a National Bureau of Standards scientist Apr. 17 at a meeting of the Society for Non-Destructive Testing.

The speaker, L. R. Megill, is a member of the Radio Propagation Physics Division, National Bureau of Standards, Boulder, Colorado.

A dinner at 6:30 p.m. at the Los Alamos Country Club will precede the meeting, to begin at 8 p.m. at the Los Alamos Health Physics Laboratory. Reservations may be made by calling J. C. O'Neal, Ext. 52263.

## Livermore Team Closes Season

Sandia Corporation's basketball team at Livermore lost its final game of the season to the league champions, the Radiation Laboratory "Swishers," by a score of 27 to 36.

Season standing for the Sandia cagers was 6 wins and 5 losses.

## Patent Granted to Harold J. Price

United States Patent No. 2827569 has been issued to the AEC in the name of Harold J. Price (1521) and Phillip Jessen (former Sandian) for their invention of an amplitude stabilizer oscillator.

The device was invented in connection with Mr. Price's work in the Electronic Development Department, now the Automated Data Development Department (1520).

Mr. Price joined Sandia Corporation in 1952, coming here from Massachusetts Institute of Technology where he received his Bachelor's degree in Electrical Engineering. He went on military leave in 1955 and recently returned to work.

### BASKETBALL STANDINGS AS OF 3-28-58

Team	Won	Lost
5500	13	0
2400-I	12	1
7400-I	11	3
2500	11	3
5100	10	4
4100	9	5
1200	7	7
2400-II	6	8
7100	4	9
5200	4	10
1400	4	10
1600-II	4	10
1600-I	3	10
2100-II	1	13

### SHOPPING CENTER

#### CLASSIFIED ADVERTISING

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

#### RULES

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization.

#### FOR SALE

- 35mm NICCA, 1/500 sec; 50mm f.2 Nikkor, 100mm f4 Serenar telephoto, accessories, \$110 or trade for 8mm movie camera. Corney, AL 5-1490.
- ELECTRIC RANGE, Kenmore, automatic timer, griddle in center, deep well, converts into 4th burner, broiler, large oven, \$150, terms. Qualle, AL 6-6159.
- RADIAL SAW, 9" DeWalt, \$190. Toya, DI 4-2775, 105 El Pueblo Road.
- 2 BRM. HOME, SE; 3 brm home, NE; both with sprinklers, air conditioning, patio, HW floors, garage. Wiesch, AL 6-7236.
- THE RIFLE in America by Phil Sharpe, \$7.50; miniature auto racer w/engine, track wire, \$15. Zowmir, AL 6-3717 after 5:30 p.m.
- CHILD'S PLAYHOUSE, plywood construction, size 4' x 8' x 4 1/2' high; moving, will sell for \$40. Wilson, AL 6-7694.
- DAVENPORT, 2 cushion, red nylon blend cover. Anderson, AX 9-4518.
- SHOPSMITH with bench, crosscut, hollow-ground blades and other extras, \$125. Neiman, Ext. 39286.
- MALE BEAGLE, registered, 10-months old, \$20; ARC-5 transmitter and receiver, 40 meter, \$20. Cole, 645 San Pablo SE after 5:30.
- '54 PONTIAC, Star Chief Catalina Hardtop, R&H, PB, WW tires, valve job 5000 miles ago, clean. Westmark, Ext. 47146.
- '50 BUICK Special, 4-door sedan, R&H, standard transmission, \$245. Bytheway, AL 6-4843.

### SHOPPING CENTER

- REFRIGERATOR, Frigidaire, \$50; want child care in my home near Constitution and Eubank. Dyer, AX 9-5324, 1412 Glorieta NE.
- JUNIOR DINING room set, table and 4 chairs, upholstered, \$22.50; also other items. Wank, AX 9-3450.
- SPECIAL HOBBY woods for cabinet work and turning, sold by the piece, no minimum. Sheppard, AL 5-5375, 609 Adams NE.
- DROP-LEAF TABLE, 32x54 inches, \$10; 33 1/3 rpm record changer, \$10. Sasser, Ext. 23184.
- 24" BICYCLE, girl's, \$20. Scranton, AX 9-5720, 8210 Cutler NE.
- '58 FORD, Fairlane 500 Club Victoria, barely broken in, fully equipped, all power, \$900 less than new car list. Atkinson, Ext. 43162.
- '56 LAMBRETTA Scooter w/buddy seat, windshield, and spare tire, completely overhauled. Rauch, 1525 Dartmouth Dr. NE.
- '53 CHRYSLER, 4-door, power steering, R&H, clean, \$600. Grant, AL 6-5730.
- PORTABLE TYPEWRITER, Underwood, (Leader), \$35. Simmons, Ext. 36295.
- REFLEX CAMERA, F 3.5 twin lens, cost \$60 new, sell for \$30, used very little. Hoff, AL 5-5915.
- TRUMPET, cost \$150, new, sacrifice at bargain or trade for good typewriter. McClure, AM 8-0720 after 5:30.
- ALUMINUM TRAILER, one bedroom, furnished, \$3000. LeClair, AL 6-4797.
- SWING SET, swing, trapeze, ladder and glider-swing, \$15; baby bassinet w/mattress, \$7.50. Martin, AL 6-6785, 4631 Hannett NE.
- 3 BRM HOUSE, landscaped, carpeted, air conditioned; '57 Hummer motorcycle. Hummel, CH 3-7997, 2106 Renard SE.
- STUDIO COUCH, platform rocker, bath-inette, stroller, car seat, Teeter-babe, training chair, chrome highchair. Meyers, AL 6-2372, 1016 Dakota SE.
- UPRIGHT FREEZER, 17" National. Neuberger, Ext. 42267.
- VACUUM CLEANER, Hoover upright, \$25. Bauer, AM 8-0171.
- WHITE RABBIT and hutch, young, both for \$2.50. Flowers, 1833 Kentucky NE.
- WORK BENCH, \$15. Laskowski, AL 6-2053, 425 Truman NE.
- TWO LOTS in city limits, 2nd NW, utilities in, \$2150 w/\$850 down, \$65 month at 5% interest. Chavez, CH 2-1791.
- '52 Willys 2-door, sell or trade for pick up. Gallagher, AL 6-3981.

### SHOPPING CENTER

- STENOTYPE MACHINE, can be seen at 223 Southern Ave. SE after 6 p.m. Mora, CH 2-4806 after 5:30.
- CHIHUAHUA, male, 10 weeks old, rare all-white, AKC registered; Equipment for developing roll film, printing snapshots, \$7. Howe, AL 6-5559.
- MG TD, red, R&H, \$1195. Goris, AX 9-2924.
- WINCHESTER Model 94 cal. 30-30 carbine, \$50. Bluett, AX 9-6516.
- '55 BUICK Special, 2-door Riviera, all power, air conditioned, R&H, \$1450. Fischer, Ext. 23136 nights, 2110 Lead SE, days.
- DADO BLADES, 1 6" set w/1/2" hole, \$7; Storkline baby crib w/mattress, nearly new, \$30. Johns, AL 5-0960, El Rancho Trailer Village.
- HAND TOoled double leather holster, took first prize at State Fair; hot plate. Donaghy, CH 2-3061.
- 3 BRM HOUSE and den on 3/4 acres in North Valley. Johnstone, DI 4-6388.
- 22 CALIBER Hi-Standard, 6 3/4 inch barrel, adjustable sights, custom holster, extra clip, \$35. Martin, Ext. 34181 after work.
- FIRESTONE FREEZER, 8 ft. excellent for small family, \$100. Shively, AL 5-3203.
- WORKBENCH, heavy duty, 60x36 inches, angle iron legs, 2 inch top; also small drill press, will consider trade. Pritchard, AL 6-5667.
- '53 BUICK hardtop, new hydramatic, real sharp, \$625. Butler, AX 9-5626.
- '52 OLDS 88, 2-door, hydramatic, R&H, 40,000 miles, \$525. O'Neill, AL 5-6355.
- 21" TV, Super V Crosley Mahogany console. Whiteman, AX 9-0563, 1828 Blume NE.
- BEDROOM SUITE: Bookcase bed, chest, dresser w/mirror; light grey, modern, good starter group, \$75 cash, terms available. Downs, AX 9-5022.
- THREE QUARTER bed w/two large storage drawers and clean innerspring mattress, suitable for child's room or den, \$25. Smith, AX 9-1264.
- NEW ATLAS 8" table saw, \$50; 10" hand saw, \$47; 13" jig saw, \$22.50; lathe, \$85; belt and disc sander, \$80. Pliner, AL 6-1907.
- CAMPER TRAILER, 14 foot air float, \$550. McMullen, CH 3-9825.
- '57 KARMANN GHIA, R&H, light tan w/matching upholstery; want Head '51, 7 foot or longer. Johnson, AL 6-5997.
- '51 FORD station wagon, R&H, 1958 license plates, \$200 or best offer. Hopkins, AL 5-1935.

## NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, April 11

### SHOPPING CENTER

- 3 BRM HOME, Mankin, close to bases, schools, woodburning fireplace, HW floors, air conditioning, patio, walls, landscaping, \$14,500. Hutton, 716 Indiana SE.
- ALL METAL TRAILER, American Bantam, 2-wheel, w/side boards, canvas cover, \$70. McHarney, 4105 Hannett NE.
- MOTORCYCLE, Harley-Davidson "45," recent TOH, runs fair, \$75 or will trade for 165cc two-stroke. Netz, AX 9-7036 after 5.
- POWER MOWER, rotary type, \$35. Nielsen, AL 5-6497.
- GARAGE DOOR, overhead w/hardware, \$25. Goncher, AM 8-1360.
- TALKING PARROT w/special perch cage, \$75; special Mynah bird cage, \$15; baby car bed, \$6. Robinson, AX 9-0971.
- BUFFET, \$12; oak dinette, \$6; table model cream separator, \$30; Carlton stainless salad master. Williams, DI 4-1000.
- DOUBLE BED, Birch, w/vanity, large mirror, chest, 2 end tables, \$125. Gallagher, AX 9-6632.
- '56 CORVETTE, standard transmission, WW tires, heater, never raced, \$2700. Girard, CH 2-9551, 600 University.
- '56 MOTOR SCOOTER, 1958 license, \$150. Ouellette, Ext. 33248, 116 Penn, Apt. 1, after 5.
- HERCULES BICYCLE, 3-speed, new tires, new thorn-proof tubes, \$30. Kohut, Ext. 20296.
- SCREEN DOOR, 36x80 w/aluminum screen guard; bird cage and stand. Preston, AX 9-1948.
- '50 MOTORCYCLE, Harley Davidson, Model 45, \$750. Finders, AX 9-3628, 8606, Candelaria NE.
- '57 CHEVROLET, Bel Air Sports sedan, 4-door, Turboglide, WW, R&H, 3600 miles, \$2400, must sell, leaving country. Klink, AL 5-5353 after 6.
- HI-FI SPEAKER, SP15B Electro Voice, \$35; Grommes LJ5 10 watt amplifier, \$25. Richardson, AX 9-3673.
- MARTIN GUITAR w/case, 6 months old, cost \$210, sell for \$150. McGrew, CH 3-1344 by day, AL 5-3881 evenings.

### LOST AND FOUND

- LOST—Beige overcoat, tie chain w/initials CFS, polaroid bone frame glasses, Schaeffer pen and pencil set, safety glasses, ladies white gloves, Alb. Nat. check book, black cotton gloves, blue Parker pen, keys in brown case, black shoes in paper bag, triangle design turquoise color bracelet w/copper, deputy sheriff badge No. 565, alabra book, wallet w/ID of Lillian Balfour. LOST AND FOUND, Ext. 26149.
- FOUND—White plastic earring, leather case, men's grey leather gloves, lady's wedding band, man's wedding band, black pocket knife, 3 keys on string, safety glasses. LOST AND FOUND, Ext. 26149.
- BICYCLE FOUND in Tech area in 1955, owner identify and receive same. Ext. 49152.

### WANTED

- ONE PLACE setting or one cup and one cereal bowl with The Old Curiosity Shop pattern, Safeway store premium dishes. Berry, AX 9-4765.
- CHILD CARE in my home near Sandia Base, reasonable rates. Bice, AM 8-8671.
- 18" JIGSAW and portable sander. Lucero, CH 3-7517.
- HOME FOR KITTENS, 5 weeks old. Reinertsen, AL 5-1954.
- SOMEONE to help drive to and from Denver. Leaving on or about May 10 and returning on or about May 23. Long, AX 9-1416.
- PAINT SPRAYER compressor w/gun. Miller, AX 9-2736.
- WILL TRADE Remington 30.06 for stock pigs. Butler, 1509 Mora Place SW after 5 p.m.
- POWER SAW, 8" Tilting Arbor complete w/motor at reasonable price. Summers, AL 5-1016.
- 3 BRM HOUSE, unfurnished or furnished, to rent starting April 6. Lindsay, AL 5-6615.

### FOR RENT

- 3 BRM HOUSE in NE Heights. Gomez, CH 3-8166.
- TWO ROOMS in private home close to Base, bath and kitchen privileges. Aycock, AX 9-0385 after 5 p.m.
- 2 BRM HOME to lease for approximately 1 year. Cordova, 1717 Wilmore NE.

## National President of IRE To Address Local Section

Donald G. Fink, National President of the Institute of Radio Engineers and Director of Research for Philco Corporation, and Jean Felker, Director of Special Systems Engineering for Bell Laboratories, will speak to the Albuquerque-Los Alamos Section of the IRE at a dinner meeting at the Coronado Club Apr. 18.

Mr. Fink will talk briefly, during dinner, about Institute matters of a general nature which should be of interest to all members.

Following the dinner Mr. Felker will discuss "Digital Computer Techniques." He will also talk a little about systems engineering and techniques associated with character recognition and the use of transistors in logic circuits. Mr. Felker has the reputation of being able to touch lightly on heavy subjects in a very interesting way.

Everyone who has ever had more to do with radio and electronics than turn a radio dial, has heard and read a great deal about Mr. Fink. Without question, he is one of the profession's most notable scientists.

All members of the IRE and the public too, are welcome to attend this meeting.

The dinner will start at 7:30 p.m. and will cost \$1.50 per person. Choice of menu will be roast beef or halibut steak. Reservations are needed by Apr. 16 and may be made by calling Frank Goss, Ext. 28165 or Al Church, Ext. 32167.

### "Science and Survival" Is J. W. McRae's Topic At Mathematics Meet

"Science, Society and Survival" has been chosen by James W. McRae, Sandia Corporation President, for the title of his talk before the Southwest Section, Mathematical Association of America, on Apr. 11.

Mr. McRae will be featured speaker at the banquet, set for 7 p.m. at Leonard's Restaurant. Attendance at the banquet is not limited to members but reservations are necessary and can be made by contacting Howard Wicke (5126) at Ext. 22149.

The banquet is part of a two-day technical session of the section, beginning at 2 p.m. Apr. 11 in Room 101 of Mitchell Hall, University of New Mexico. The Apr. 12 session begins at 9 a.m.

W. W. Bledsoe, manager of the Systems Analysis Department (5120), will present a technical paper at the meeting entitled, "A Set Theoretic Counter-example."

### Comedy Classic on Movie Schedule

An old-time comedy will be offered during the coming two weeks of the Corporation's noon movie hour.

W. C. Fields, Leon Errol and Gloria Jean are featured in "Never Give a Sucker an Even Break." Part I will be shown Apr. 8-11 and Part II Apr. 15-18.

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

### Harrison, Bachand on ASQC Program Apr. 14

T. D. Harrison (2541) and G. R. Bachand (1421) have been invited to address the Apr. 14 meeting of the Albuquerque Section, American Society for Quality Control.

In his subject, "The Practical Application of Quality Control," Mr. Harrison will discuss cases where quality control techniques have been applied and the outcome of these programs.

Mr. Bachand, supervisor of the Automated Data Systems Division, has as his topic, "The Use of Automated Data Systems," a subject of increasing importance in modern industry.

The meeting will begin at 7:30 p.m. at Reddy's Rendezvous, 222 Fifth NW.

## W. E. Caldes Able To Look Back On 15 Years Work in Weapons Program

Fifteen years may sound like a small or large number of years to work at the same place depending upon an individual's point of view. However, in the case of William E. Caldes that length of time marks him as Sandia's oldest employee in terms of service.

When "Bill" chalked up 10 years at Sandia the present thunderbird service pin had not yet been designed. His supervisor hung an aluminum plate around his neck, scratched with appropriate sentiments. Bill's friends and co-workers honored him last Tuesday with a 15th anniversary pot luck luncheon.

### First At Los Alamos

Bill, who is supervisor of Quality Assurance Procedures Division (5511), came to New Mexico from Palmer Laboratory at Princeton University where he was working on a uranium isotopes program. He was a member of a technical group assigned to Los Alamos in the early days when workers lived at dude ranches because there was no housing on "the hill." The group was split and Bill was among those sent to Sandia Base.

"When the Laboratory was set up I realized that there were permanent aspects to the operation, but I didn't dream those

### Automatic Control Film to Be Shown Production Engineers

A film entitled "Training in Principles of Automatic Control" will be shown at the Apr. 9 meeting of the Production Engineering Professional Division, New Mexico Section, American Society of Mechanical Engineers.

Published by the Instrument Society of America, the film presents the basic elements of automatic control that are necessary for a full understanding of automation.

The meeting will be held at 7:30 p.m. in Room 2 of the UNM Mechanical Engineering Building, it was announced by A. J. Clark, Jr. (1472).



Ken Kerns  
—Org. 1240 TDSR—



L. M. "Jerry" Jercinovic  
—TSSR and TDSR Chief—



Dan McKnight  
—Org. 5200 TSSR—

## Man Behind Man of Science Proves His Worth At Sandia

Whether it's preparing for an atomic test or arranging for an important meeting chances are there's a TDSR or TSSR in the background helping to make the activity run like clockwork.

Thoroughly grounded in administrative procedures, Technical Staff Administrative Assistants help get Sandia's job done by providing administrative "know-how" to scientists and engineers involved in technical programs.

Operating on two levels, the TDSR (Technical Department Staff Representative) and the TSSR (Technical Superintendent Staff Representative) are in on the beginning of any research, development or engineering project.

They handle details of budget preparation, help find personnel and space for the project, arrange for purchase of materials and equipment, prepare work schedules, coordinate reports, and generally tackle any job which will help make the project run smoothly and efficiently.

### Found Elsewhere

The technical staff administrative representative is not unique to Sandia Corporation. Other industries have found men in that position invaluable in relieving scientific supervisory personnel of administrative details to leave them free to concentrate on the technical problems.

L. M. "Jerry" Jercinovic was the first staff assistant (now known as TSSR) appointed at Sandia. This was done as an experiment in the summer of 1949. His job was handling administrative details for R. W. Henderson who was the technical associate director of Sandia Laboratory.

The experiment proved successful and as Sandia expanded, technical staff representatives were assigned to Directors of the Research, Development and Engineering organizations. The use of

TDSR's has continued to grow until today some 30 are employed by the Corporation.

### Supervisory Level

Mr. Jercinovic is now manager of the Technical Administrative Service Department 7210 with the job of providing TDSR services. Technical administrative staff representatives for directors are division supervisors and have assigned to them additional TDSR's to provide administrative services to the department managers reporting to the directors.

In general, TDSR's have broad administrative backgrounds with some training in basic sciences. Many have degrees in business administration or accounting. One TDSR has a degree in biology, another is an electrical engineer, and still another has a degree in anthropology.

Recently a company working under a classified development contract for Sandia Corporation was experiencing difficulty in establishing certain reporting and administrative techniques due to lack of qualified cleared personnel. A Sandia TDSR was assigned to the company temporarily to assist in fulfilling the contract and provide regular TDSR services while training a replacement.

### TDSR on Shipboard

During a recent full scale test series a TDSR found himself performing his duties on the deck of a transport in the Pacific while another was assigned to the staff of the test director on a South Pacific atoll.

"Needed to carry out a TDSR's duties," Jerry Jercinovic says, "is a good knowledge of Corporation organization and regulations, policies and procedures and a broad understanding of overall technical missions and programs. In addition to all this he needs a good understanding of people and the ability to work with them."

## Technical Papers to Be Presented at Engineer Institute in New York

Technical papers will be presented by T. B. Morse (1661) and C. W. Remaley (1613) during the forthcoming spring meeting of the Institute of Environmental Engineers.

The meeting will be held in New York City Apr. 17 and 18.

Mr. Morse will deliver his paper "Factors in the Design of an Environmental Chamber Inside of a Reactor Irradiation Cell." It is based on the preliminary design of environmental equipment to be installed in the Sandia Engineering Reactor Facility in Tech Area 3.

Before coming to Sandia nearly 10 years ago, Mr. Morse was two years with the radiation laboratory at Massachusetts Institute of Technology and with Commonwealth-Edison in Chicago. He holds a BS in Electrical Engineering from Washington University in St. Louis.

The technical paper by Mr. Remaley is entitled "Component Acoustic Testing Plane Wave Tube

and Reverberant Chamber Methods." These studies of air-induced vibration on materials are based on a small scale model of an acoustic facility to be erected also in Area 3.

Mr. Remaley has been with Sandia Corporation a year and a half. He was previously communications officer for 14 years in the armed forces. He received a BS in Physics from Trinity University in San Antonio, Tex.

### Project Sherwood To Be Explained

The Council of Technical and Scientific Societies will hear Los Alamos scientist Louis C. Burkhardt discuss the laboratory's work on Project Sherwood, the AEC's research program into thermonuclear power.

The meeting, in Room 122 of the UNM Geology Building, will begin at 7:45 p.m. Apr. 7.



CORONADO CLUB junior bowling team No. 6 won top honors in a boy's city-wide tournament Mar. 30. They are (L to R): Jerry, son of Dale G. Pipher

(5521); Frank, son of Frank R. Emig (7412); Bob, son of J. F. Donovan (1263); Bob, son of H. E. Vaiden (1452), and Brian, son of Erwin J. Smith (2111).