

# SANDIA LAB NEWS

published every other Friday for the employees of sandia corporation, contractor to the atomic energy commission

Vol. 8, No. 15

ALBUQUERQUE, NEW MEXICO

August 10, 1956

## Operation Redwing In Pacific Ends for Sandians

### Sandia Officials Praise Test Site Personnel After Visit

More than 100 Sandia Corporation employees who have been participating in experiments at the Atomic Energy Commission's Eniwetok Proving Grounds since the first of the year have returned to the mainland and are getting acquainted with their families and friends again.

Personnel from the Field Testing Organization, 5200, comprised the major portion of the Sandia personnel in the Pacific. Also, personnel from 5100, 1000, 2000 and 7000 contributed an important part to the successful completion of the Redwing Program.

The nature of Sandia's role in Operation Redwing is still veiled in security, but it can be said that Sandia Corporation made vital and significant contributions to the success of the operation.

James W. McRae, President of Sandia Corporation, and Glenn A. Fowler, Vice-President Research, were among those who visited Sandia activities at the Eniwetok Proving Grounds during the tests.

#### Inspection Trips

During their stay on the islands, Mr. McRae and Mr. Fowler inspected all of the Sandia projects in the Pacific.

One of the more interesting trips was a flight to the island of Ujelang where Sandia Corporation had a microbarograph station.

The island of Ujelang is approximately 200 miles southeast of Eniwetok and the flight was made in an SA-16 amphibious plane. Other members of the party visiting the island included: Tom Takahashi, 5323, who served as interpreter; D. H. Nucker, High Commissioner of the U. S. Trust Territory; Everett F. Cox, who at the time was Manager of the Weapons Effects Department, 5110; and Richard A. Bice, Director of Field Testing.

While on the island they inspected the microbarograph station and the Holmes and Narver Inc. support facilities.

#### Visit All Projects

"We were in the Eniwetok Proving Grounds for seven days," Mr. McRae told the Sandia Lab News, "and during that time we visited all of the Sandia Corporation projects. We traveled by plane, helicopter, boat, amphibious vehicle, jeep and by foot to reach the many locations where our people were working."

Mr. McRae and Mr. Fowler have praise for Sandia employees at the test site, many of whom were away from home for many months.

"The contribution of the Sandia Corporation employees in the Pacific and the employees still at Sandia Base," Mr. McRae said, "was one of both sacrifice and ac-

complishment. I am proud of them."

Rear Admiral B. Hall Hanlon, Commander of Joint Task Force Seven, has returned from the Marshall Islands and has made preliminary reports on the tests.

Admiral Hanlon said that the programmed number of tests was made of nuclear devices ranging widely in yield. Some were in the kiloton and some were in the megaton range. The energy released by each of the devices fell within the range of estimates made prior to firing.

Admiral Hanlon reaffirmed that the energy yield of the largest was substantially less than that of the largest device detonated in the Castle test series of 1954.

Lewis L. Strauss, Chairman of the Atomic Energy Commission, has said in speaking of those who participated in the tests, "The nation owes much to these men of science and industry and the Armed Forces. Their combined efforts have substantially advanced the security of this nation and the Free World by developing new knowledge which will add to the power and the flexibility of our nuclear armament against aggression."

#### L. J. Paddison Participates In ASQC Panel Discussion

L. J. Paddison, Director of Quality Assurance, 5500, will participate in a panel discussion during the regional conference of the American Society for Quality Control in Los Angeles, Calif., Aug. 20-21.

The topic for the panel is "Testing for Reliability."



UJELANG VISIT—Transportation between islands is faster by air. L to R: D. H. Nucker, U. S. High Commissioner of the area; James W. McRae, Glen A. Fowler and Tom Takahashi, Full Scale Test Division II. The party is preparing to visit Sandia Corporation microbarograph station on Ujelang.

### Four Sandians On Conference Program In LA

Four Sandians from the Instrumentation Development Department, 5220, will be on the program of the National Telemetering Conference sponsored by the Institute of Radio Engineers in Los Angeles, Calif., Aug. 20-21. They will also attend the Western Electronics Show and Convention in Los Angeles Aug. 21-24.

Stan Reynolds will participate in a panel discussion on "Frequency Crowding in the Telemetering Band" and Dave Henry, C. B. McCampbell and George Reis will read scientific papers.

The title of Mr. Henry's paper is "A Wide Bandwidth Telemeter System." Mr. Campbell will read "Transistors Applied to an Operation FM-FM System" and Mr. Reis will read "Temperature Measurements on High Speed Missiles."

### Two Employees Earn Top Show Honors in Photography, Art

Two Sandians took first awards in the recent Albuquerque Commercial Artists' Show. Leo Ortiz, a technical illustrator in 2463, won top honors in color illustration with a book illustration of a southwestern scene.

Roy Dunlap, formerly a photographer in 2462, recently promoted to Section Supervisor 2462-4, took first prize in the industrial photography exhibit with his photo of Sandia Corporation's solar furnace.

Roy's picture was first published in the Sandia Lab News.



SOUTH SEA PARADISE? Not quite. This is the Sandia Corporation microbarograph station on Ujelang Island. Here Sandia scientists operate delicate instruments which record pressures resulting from detonations at Eniwetok Proving Grounds.

### Sandia Mathematicians to Present Papers Before Statistics Institute

Seattle-bound next week will be several Sandians who will present papers at annual mathematical society meetings in the Washington city.

At the Institute of Mathematical Statistics George P. Steck, 5125, will contribute a paper entitled "On a Uniqueness Property Not Enjoyed by the Normal Distribution."

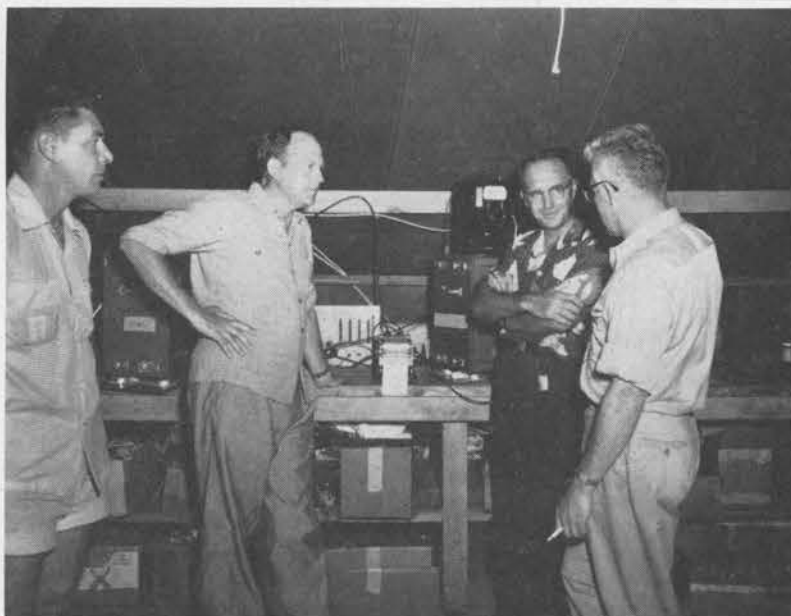
Jack Hale, 5122, will present two papers at the American Mathematical Society meeting. They are: "A Sufficient Condition for Periodic Solutions of Weakly Non-

linear Differential Systems" and "On a Class of Linear Differential Equations With Periodic Coefficients."

A paper by Elliott Chamberlin, 5122, on "Fixed-point Theorems for Certain Continua" will be read, although he will not attend.

Dick Hildner, 5122, will attend the meeting of the Mathematical Association of America. He is vice-president of the southwest section.

Meetings of all three groups will be held at the University of Washington during the period Aug. 20-24.



ISLAND COMMANDER—Richard J. Rudolph, left, was in command of United States personnel on Ujelang. Discussing the microbarograph equipment on the island are Glenn A. Fowler, D. H. Nucker, U. S. High Commissioner, and Everett F. Cox.



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## Read This Carefully—The License You Save May Be Your Own

### An Auto Accident—Your Responsibilities

The New Mexico laws place certain responsibilities upon persons involved in an auto accident, regardless of which driver was at fault.

#### Law Involved

Two laws are involved — The Motor Vehicle Traffic Law and the Motor Vehicle Financial Responsibility Law, both long names, but your failure to observe them may seriously affect your right to drive a car, or subject you to fines or imprisonment.

#### Stop, Return and Aid

The Motor Vehicle law states that, upon the occurrence of an automobile accident in which you are involved, your first duty is to stop immediately (but without obstructing traffic) and return to the scene of the accident. You are required to give your name, address and vehicle registration number to the person injured or the driver of the other vehicle and, upon request, exhibit your driver's license. You are also required to give reasonable assistance in arranging to have any injured persons put in the care of a hospital or doctor. You must also by the quickest means, advise the local police, County Sheriff or State Police (unless, of course, they are on the scene). Failure to comply will subject you to possible fines or imprisonment as well as license suspension.

#### Report to Motor Vehicle Bureau

If the accident involved injury or death to a person or property damage to either car of more than \$25, you must file a written report with the Division of Motor Vehicles at Santa Fe within five days. Such report must contain information as to the amount of your insurance coverage. Forms can be secured at any police station. Failure to file this report will result in suspension of your license. These reports are confidential, however.

#### Proof of Financial Responsibility

The other provisions of the law which may affect your license are in the Motor Vehicle Financial Responsibility Law. If the accident involved death or injury or damage in excess of \$100, (note the difference in amount) you may be subject to the suspension of your license and the loss of your registration certificate unless you furnish the Division of Motor Vehicles with adequate proof of financial responsibility. You may comply with these requirements in one of the following ways:

1. File with the Division of Motor Vehicles evidence that there is in effect a liability policy for your benefit in an insurance company licensed to do business in New Mexico. The policy must be at least in the amount of \$5000 for bodily injury or death of one person and \$10,000 for bodily injury or death of two or more persons in any one accident, plus the amount of \$1000 property damage. Your statement of the existence of this policy in your accident report will usually suffice — and eliminate any of the following requirements:

2. Deposit with the Division a bank draft, money order, certified check or corporate surety bond in the amount directed by the Division as security to cover any judgment arising from the accident. The security will be returned or the bond cancelled on request at the end of a year if you submit evidence that there is no court action pending against you.

3. File with the Division satisfactory evidence of release from liability with respect to all claims for injuries or damages resulting from the accident.

4. File with the Division a certified copy of a final judgment of non-liability.

5. File with the Division a signed copy of a written agreement with all claimants providing for payment of an agreed amount (in installments, if desired) with respect to all claims for injuries or damages resulting from the accident.

If you are unfortunate enough to be unable to comply with one of these requirements and your license is suspended, you may nevertheless get it back after one year from the date of the accident if you submit satisfactory evidence to the Division that no court action has then been filed against you for damages arising out of the accident.



#### Shouldn't Happen to a Dog

"Pluto," a Beagle owned by Dick Ashmore, 1441-2, is back home after a bout with a rattlesnake.

Dick, his children aged 9, 7 and 2, and Pluto were walking about a half-mile from the Montgomery grade school on Louisiana NE when the snake gave its warning rattle and struck out. Pluto was bitten on the side of his head.

Dick grabbed a rock and killed the three-foot long snake.

Pluto is in pretty good shape now after six days at the dog hospital.



#### Farm Vacation

Farmer Wayne Davis, 5123, has little trouble deciding where to go on his vacation from the Corporation. Wayne heads for the farm he has owned since 1947 near Medicine Lodge, Kans.

His partner takes care of the 160 acres of wheat year-'round but Wayne shows up during harvest time to operate a combine.

#### Photographic Engineers

Recently returned from Los Angeles is Irvin Lenz, 5221, who attended the organizational meeting of the Society of Photographic Instrumentation Engineers.

The new group hopes to act as a liaison between the aircraft industry and test ranges and their suppliers of cameras and other equipment.

Irvin asks persons interested in such an exchange of information to contact him, as he will soon have a copy of the charter and by-laws adopted by the society.

#### Naval Promotion

Charles R. Cundiff, 7132, was recently promoted to a Captain in the U. S. Naval Reserve. He is with Special Weapons Co. 8-11.

A member of the Navy Reserve for 22 years, he also spent 14 years as chief engineer on three aircraft carriers: "Copahee," "Bennington" and "Wasp."

He has been in military liaison work at the Corporation for two years.



UNUSUAL ARRANGEMENTS of rocks, sand, plants and flowers is the hobby of Mrs. Charles Ferbert, wife of the San Felipe Lodge manager, at Salton Sea Base. This Nativity scene is one of her most unique. She also makes lovely flower arrangements, creates realistic decorative formations from small ever-living flowers, and makes sea shell decorations for ladies' straw purses.



ONLY 24 MORE DAYS until the Coronado Club swimming pool shuts down for the season. Enjoying the pool and the sunshine is Cynthia Gaunt, 2221, who is an attractive pool decoration.



#### Vacation at North Pole

The North Pole may seem like a desirable although distant place to vacation, but Max Weber, 5120, and his family found a good substitute on the way up Pikes Peak in Colorado — complete with ice-covered pole.

Ten-year-old Lewis and Paula, 3, had a great time wandering around the child-size chalets and playing with the lambs, goats and monkeys.

#### Daughter Recovering

Jimmy "Smokey" Culver, 2482-2, reports that his daughter Laura is recovering well from severe injuries received in an auto accident recently near San Jose, Calif.

#### Reserve Promotions

Two Sandians were recently promoted to lieutenant colonel in the Air Force Reserve.

C. Lee Gomel, 5523, and Sidney A. Merriam, 7241, are both members of the 9865th Air Reserve Squadron. Sidney is executive officer for the outfit.

Lee has been in the Reserve since 1937 and was a communications officer with the Air Corps during World War II. He was stationed four years in Puerto Rico.

Sidney has been in the Reserve since the end of World War II. He was a technical supply officer for three years in the Pacific area during the war.

#### Mr. Lutz III

R. P. Lutz, Vice-President, Operations, is recovering from a recent illness. He expects to be released from Bataan hospital in the near future but will have to spend some time at home for complete recuperation.



BILL DUDGEON, 1225, raises his club in victory after he and his date, Emilia Castillo, won first place at the Coronado Club Beachcombers Party for their cavemen (and women) outfits.

#### Soldiers' Return

This is the time of year when many Sandians are completing their annual two weeks of training with the U. S. Army Reserve.

Just returned from assignment with the 321st Civil Affairs Military Government Group are Major Jack Westbrook 2731-2, Cpl. Bob Craven 7412-3, Sgt. Marvin Ozmun 7411-2, SFC John Campbell 7411-1 and SP-3 Edward Paboucek 7411-1.

"Operation Kangaroo" at North Fort Hood, Tex., involved solving theoretical problems in government of a country after liberation! Training also included an overnight bivouac with short hike and compass problem and qualification on the pistol and rifle ranges.

### A. L. Hudson Retires After 8 Years Service With Sandia Corporation

Nearly eight years of employment at Sandia will end today when Arthur L. Hudson officially retires.



He has been a service clerk or receiving clerk during his employment period, most recently with Receiving Division 2353.

By this time next week Art and his wife will be in Missouri to attend the big yearly Hudson family reunion. "I come from a large family in Missouri," he explained, "with lots of first cousins, second cousins and other relatives and this get-together attracts members from all over the country."

Art is a native of Missouri but he was in grocery business in Idaho before moving to New Mexico.

After a bit of travel the Hudsons will be at home at 108 California SE to celebrate Art's 67th birthday Sept. 13. A visit to their children could involve more than a "bit" of travel—they live in Idaho, California, Pennsylvania and Germany. Art and his wife have five grandchildren and one great grandchild.

### 2 Programs Scheduled For Sandia Colloquium

Sandia Research Colloquium will meet twice in the next two weeks, Craig Hudson, 5111, Colloquium committee, announces.

Dr. William Allis, MIT professor of mathematics and physics, will discuss the properties of an electrical discharge Aug. 15, at 9:30 a.m. in the basement conference room of Bldg. 802.

On Aug. 20 at 1:15 p.m. personnel of the Cornell Aeronautical Laboratory, Buffalo, N.Y. will give a briefing on Project Plato. Attendance at this Colloquium will be by ticket only.

### 6 More Employees Earn 10-Year Pins For Service With Sandia Corporation

#### TWO-YEAR CERTIFICATES

Aug. 10-16

Robert W. Kuller 5133, Wentzel W. Wagoner 1242, A. R. Iacoletti 5242, Dorothy P. Alderman 3164, E. F. Wienckowski 2152, Harry Mason 1451, Horace Moore 2553, Carmel Pugliese 2151.

Rexford A. Rozelle 2151, Betty Lou Shaum 7231, Lucille M. Sullivan 2122, William K. Dolen 1612, Faurest A. DuBois 2482, Hobson E. Houston 1463, Marion D. Wickham 1421, and J. Vess Hopper 2124.

Aug. 17-23

Robert C. Bass 7315, James D. Appel 1231, Herman P. Nieto 2419, Amadeo Aragon, Jr. 2419, Joseph H. Valdez, Jr. 2711, Carlos Chavez 2419, Marian H. Jacot 7225, M. Evelyn Hunter 2520, Robert W. Dosien 7132.

S. Elinor Coberly 3153, T. Vincent White 7411, Barbara R. Hammond 7225, Robert W. Durkin 1242, Donald C. McFall 1611, Wilson A. Plegier 2124, C. V. Rathbun 7231, Jeanne G. Barter 3154, Clarence J. Dornme 2414, Gloria A. Geibel 4121, David C. Werme 2481, Melba B. Humphrey 4135, Erma P. Hunt 4152, Richard A. Law 2411.

#### FIVE-YEAR PINS

Aug. 10-16

Floyd C. McGinnis 2412, Thomas R. Bates 1234, William F. Nielsen 1433, James E. Taylor 5232, Sumner Excell Lane 5215, Lyndall Lee Carter 7413, Raymond M. Caster 2721, James M. Meager 2414, James Wesley Shinn 2483, Esther E. Morgan 2255.

Willard Joel Fred 7241, Jose C. DeBaca 2419, John Chavez 2214, Ira Honeycutt 2113, Andres Landavazo 2112, Susie Annie Maffit 2461, K. E. Sutton, Jr. 3152, George W. Rolloson 5230, Lorenzo B. Holcomb 2112, Jimmie Otero, Jr. 2442.

Aug. 17-23

Adin Sponseller, Jr. 2713, Adrienne M. Goff 2533, James Oscar Reed 1423, Carmelo P. Rindone 7411, K. E. Scanton 7224, Otis Virgil Short 2112, Frank Bachicha 2472, Nazario J. Gonzales 2351, Chester J. Smith 1411, Richard J. Rudolph 5215, Abe Britholomey 2151, Kenneth E. Finders 2443, Vernon M. Field 1211, Farrell B. Brumley 5223, Jesus Maria Lopez 2234, Abel S. Lucero 2418, William E. Melegan 7412, Les Baxter Neelasy 1443, Wilbur Leroy Drake 2151.

#### 10-YEAR PINS



Joseph O. Muench  
1225  
Aug. 12



Leo P. Ortiz  
2463  
Aug. 12



Don B. Shuster  
5230  
Aug. 14



William J. Howard  
1250  
Aug. 15



Tom L. Wallace  
1413  
Aug. 16



John H. Fuqua  
5212  
Aug. 22



WEAPON DEVELOPMENT activities at Sandia Corporation were reviewed this week by military and civilian officials of the Air Force. Several orientation sessions were scheduled with Sandia representatives and the above picture was taken following a meeting in Bldg. 880. L to R: Col. R. A. Ballweg, Jr., executive officer to the Assistant Secretary of the Air Force (R&D); Glenn A. Fowler, vice-president, research, Sandia Corporation; Robert E. Poole, vice-president, development, Sandia Corporation; M. H. Howarth, vice-president and general manager, Sandia Corporation; Maj. Gen. USAF (ret.) James McCormack, Jr., special assistant to the President; Maj. Gen. R. P.

Swofford, Jr., director, R&D, USAF; Brig. Gen. William M. Canterbury, commanding officer, Air Forces Special Weapons Command, KAFB; Richard E. Horner, acting Assistant Secretary of the Air Force (R&D); J. H. Doolittle, chairman, Scientific Advisory Board, USAF; Lt. Gen. D. L. Putt, deputy chief of staff for development, USAF; C. D. Perkins, chief scientist, USAF; Brig. Gen. M. C. Demler, deputy commander, ARDC (R&D); Brig. Gen. H. F. Gregory, commander, Air Force Office for Scientific Research; R. W. Henderson, director of systems development, Sandia Corporation; K. F. Hertford, manager, Albuquerque Operations of the Atomic Energy Commission.

### 2 Meetings Planned By Caravan Club

Two meetings in the next two weeks are scheduled for the Amateur Radio Caravan Club of New Mexico, Jim Steuber, 5223, secretary, reports.

A standing wave ratio measuring test of all mobile installations of members will be conducted Aug. 15 at 8 p.m. Tests will be conducted by Stueber and Brooks Braffet, 1413, president, at Knudson's Market on Menaul NE.

Plans for the incorporation of the club will be discussed at the regular monthly meeting Aug. 22 in the Lovelace Radiation Therapy Lab at 8 p.m. An election is scheduled to fill two vacant offices in the club, Jim said.

### C. M. Justice Named Industrial Relations Analyst for ALO

Charles M. Justice has been appointed Industrial Relations Analyst in the Industrial Relations Office of the AEC's Albuquerque Operations Office.



C. M. Justice

He will assist ALO contract administrators in matters related to personnel management, labor relations, wage and salary administration, Selective Service, manpower mobilization and insurance.

A graduate of the University of Nebraska in 1940, he was commissioned in the Navy in 1944. In 1946 he became Personnel and Industrial Relations Director of the Burlington Trailways. Since 1954 he has been on the staff of Mountain States Employers Council.

### Club Entertainment Program Announced

Bill Privetti, local radio and television personality, will MC a show and dance at the Coronado Club tomorrow night from 9 to 1. On hand will be Vic Izay, George Morrison, and other entertainers, including Jim Wilson's combo.

Admission to the show and dance is 50 cents per member and \$1 for guests.

The Coronado Club's monthly buffet and dance will be held Sunday, Aug. 19, from 5 to 10:30 p.m. Bathers may dance under the stars to the tuneful arrangements of the MBC Trio. The tab for members is 50 cents, \$1 for guests.

Tuesday, Aug. 21, the Club has scheduled its annual Swim and Patio Party from 7:30 to 10 p.m. Bathers may dance under the stars to the tuneful arrangements of the MBC Trio. The tab for members is 50 cents, \$1 for guests.

### Speaks in Tonopah

R. A. Bice, Director of Field Testing, 5200, will address a combined meeting of the Tonopah, Nev., Lions Club, Rotary Club and Chamber of Commerce tonight in the Tonopah Lions Community Center at 7:30.

He will describe Sandia Corporation's activities at the new Tonopah ballistics test range which will be in operation late in the fall.

### Increased Activity Results In Changes for Purchasing 2300

Increased Sandia Corporation procurement activity has resulted in several changes in the organization of the Purchasing Agent, K. S. Spoon.

One new department has been formed. Headed by C. J. McGarr, who previously was Manager of Purchase Service Department, 2330, the new department, 2340, has responsibility for purchase of mechanical, electrical and commercial items of special apparatus as well as integrated contractor's products.

Reporting to Mr. McGarr are C. M. Abernathy 2341, H. W. Moeding 2342, and W. T. Ryan 2343.

The Purchase Service Department now has F. R. Moon as Manager. He formerly was supervisor of the Program Administration Division of the Production Control Department, 2210.

Reporting to Mr. Moon are W. B. Russell 2331, G. V. Shaffer 2333, and J. R. Spence 2335.

W. R. Raiman is Manager of the Electrical Sub-Contract Purchasing Department 2310. Reporting to him are E. C. Pace 2312, A. M. Granum 2313, and C. Davison 2314.

Reporting to J. E. McGovern, Manager of the Mechanical Sub-

Contract Purchasing Department, 2320, are J. W. Hughes 2321, J. P. Seay 2323, and E. B. Bergquist 2324.

It is planned that by Sept. 1 part of the Commercial Department, 2340, will be located in Bldg. 611, which was formerly occupied by Sandia Corporation Personnel organization. Divisions headed by W. T. Ryan (2343) and C. M. Abernathy (2341) will move to 611.

Promotions resulting from the reorganization are F. R. Moon to Manager of Department 2330, J. W. Hughes to Division Supervisor (Buyer) 2321, W. B. Russell to Division Supervisor (Buyer) 2331, and E. G. Dyllo to Section Supervisor (Assistant Buyer) 2343-2.

All changes and promotions were effective Aug. 1.

### Sandia Sons Among Officers of Base Teen-Age Group

Teen-age sons of two Sandians are presently taking an active part in leadership of the Sandia Base Teen-Age Club.

The club is made up of youngsters between 13 and 19 whose parents are employed on the base or stationed here.

Bert Eich, son of Norbert Eich 1462, is vice-president and Bruce Craven, son of Earl Craven 2443, is treasurer. President Larry Edwards and Secretary Louanne Walker are from military families.

Last year Deanne Wise, daughter of Dean Wise 2132-1, started as vice-president and later became president.

The club, which now has an active membership of 50, holds nightly juke box dances at building 1852 and special events, such as pot luck suppers, weiner roasts, horseback rides and swimming parties, are frequently scheduled.

Mrs. Eich is publicity chairman and Mrs. Evelyn Paxton, wife of Walter Paxton 2711-5, is on the parent's council and in charge of chaperone duties, which are shared by the parents.

### Topical Display Earns Silver Plaque Award For Franklin Barnett

An engraved silver plaque was presented to Franklin Barnett, 7123, for his display in the "Historical Section" of the American Topical Association Exhibition, held in Detroit recently.

Frank's display was a collection of stamps, coins and souvenir material from the World Columbian Exhibition in Chicago 1893.

The American Philatelist Magazine also printed in July a lengthy illustrated article by Frank titled "Valuable Mail to Philadelphia 1845-1855." He has the most complete collection known of "covers" specially marked which were the beginning of the postal "registry" system.

### Inter-Tribal Dances In Gallup Start State Indian Festivities

With the gala inter-tribal ceremonial Indian dances in progress this week end in Gallup, pueblos throughout the state are announcing the schedule of their individual celebrations.

The Gallup ceremony will last through Sunday and is the largest

of all the Indian celebrations.

Tonight the Picuris Pueblo at San Lorenzo, near Taos, has ceremonial dances scheduled.

Sunday, the Santa Clara Pueblo at Espanola, 25 miles north of Santa Fe, will hold dances.

# Promotions

**JOHN P. LOGAN** to supervisor of Electronic Services and Records Section 2111-1, Shop Services Division, Control Department.

He started to work for the Corporation six years ago. John has been in accounting, business methods and for the past year in Ordering & Local Service Division 7231.

Previously he did accounting for a retail furniture store in Albuquerque and a truck body manufacturing company in Hastings, Neb.

He has a BS degree in Civil Engineering and a bachelor's degree in Business Administration, both from the University of New Mexico.

During his service in the Navy he spent 16 months in the Pacific as a small craft gunnery officer.

**GEORGE WALKER** to supervisor of Components and Electrical Assembly Section 2231-1, Assembly Department.

George started in 2231 in January, 1949, when he went to work at Sandia, but recently George has been staff assistant in Project Division 1246, Engineering Department.

He previously worked a year and a half in electronics for RCA Victor in Wilmington, Ind.

During four years in the Navy, George was an aviation chief electronics technician and attended schools in Chicago and Corpus Christi. He also holds diplomas from the DeForest Training School in Chicago and the Central Radio and TV School in Kansas City. In addition George has a first class radio-telephone license.

**MELVIN L. MERRITT** to manager of Weapons Effects Department 5110. During his six years with the Corporation Melvin has been supervisor of both Model Studies Division 5112 and Burst Studies Division 5111.

Immediately prior he received his PhD in Physics from California Institute of Technology where he also received his BS degree.

During the war years he was employed for three years as a test engineer for General Electric at their Syracuse, New York, plant. His work was in radar and other phases of electronics.

He is a member of Tau Beta Pi, honorary engineering fraternity and Sigma Xi, honorary research society.

**ARTHUR P. LITES** to supervisor of Composition Section 7121-1, Military Publications Department.

Art has been with the Corporation since May of this year. He previously was employed four and one-half years as production manager for Ward Hicks Advertising Agency in Albuquerque.

For 16 years he was a typographic designer for the Stanford University Press in California.

Art also has worked as a printing salesman for Mercury Press in San Francisco and at one time operated his own publishing organization in Palo Alto, Calif.

He was awarded a bachelor's degree in Social Sciences from Stanford University.

**FRANCIS R. MOON** to supervisor of Purchase Service Department, 2330.

"Frank" came to Sandia Corporation in February, 1952, from Teletype Corporation, a subsidiary of Western Electric Company. He started work in expediting, moved on to receiving, purchasing and program administration, and now is returning to his original organization.

In 1929 Frank received a Bachelor of Science degree in Business Administration from the University of Illinois and immediately began working for WE. The first five years he visited the various WE plants as a sales inspector, then he became affiliated with the Teletype Corporation in Chicago. Frank worked for two years in operating engineering, one year in business methods and the remainder of the time in personnel administration before coming to Sandia.

He is a member of the American Institute of Management, an organization for supervisory people.

**DONALD D. WADER** to supervisor of Electrical Assembly Division 2231, Production Organization, 2200.

Don has been at Sandia since August, 1948, when the University of California operated the Laboratory. He was first in the engineering department but a year later changed over to production and shipping.

Don attended high school in Albuquerque and a Navy electronic school in Washington, D. C.

He served six years in the Navy as an electronic fire controlman. During his five years in the Pacific Don was twice on the "Helena" when it was torpedoed, first by plane at Pearl Harbor on Dec. 7 and later in 1943 when it was sunk in the Solomons.

**JAY W. HUGHES** to supervisor of Handling Equipment Subcontracting Division 2321, Mechanical Purchasing Dept.

In November Jay will have been with the Corporation five years. During that time he has worked in expediting, program administration and purchasing.

He previously was employed by Standard Oil Co. in Albuquerque and U. S. Gypsum Co. in El Centro, Calif.

Jay has a bachelor's degree in Business Administration from the University of New Mexico.

During World War II he served for three years in the Navy as a hydraulics aircraft instructor.

**EDWARD G. DYLO** to supervisor of Supplies Purchasing Section 2343-2, Purchase Service Dept.

He has been working in purchasing and expediting while with Sandia Corporation the past four and one-half years.

The previous five years Ed did payroll and accounting for Bethlehem Steel in Lackawanna, N.Y.

He was in the Army 40 months.

Ed has a BS degree from the University of Missouri and also attended the University of Buffalo and the University of Kansas.

**WILLIAM B. RUSSELL** to supervisor of Purchase Service Division, 2331, Service Purchasing Dept.

Bill has been in purchasing, procurement or expediting since May, 1948 when the Sandia Laboratory was operated by the University of California.

Prior to that he did sales work for Sewall Paint and Varnish Co. and Bernalillo Lumber Co., both in Albuquerque.

Bill served two hitches in the Army—in World War II in England and again in 1951-53, when he was stationed in Germany. He was an artillery officer with the rank of Captain.

He has attended Fresno State College in California and UNM.

**THOMAS B. COOK** to supervisor of Burst Studies Division, 5111, Weapons Effects Department.

Tom joined the Corporation exactly five years ago and has been in 5111 all along. Until his recent promotion he was supervisor of Vulnerability Studies Section 5111-2.

Prior to coming to New Mexico he held several fellowships at Vanderbilt University in Nashville, Tenn. It was there he received his Ph.D. in Physics in 1951 and Masters degree in 1949. He was awarded his BS at Western Kentucky State College.

Tom is a member of Sigma Xi, honorary physics research society.

He served two years in the Navy, including 13 months as an instructor at the Naval Electronic Technical Training Center at Corpus Christi, Tex.

**DAVID C. WILLIAMS** to supervisor of Experimental Weapons Division 5131, Experimental Weapons Research Department.

He first came to Sandia Base in 1946 during a year's service in the Army. Shortly thereafter

after David was employed by the University of California at Sandia Laboratory.

At Sandia Corporation he has worked on general weapons systems analysis and last year he was responsible for experimental instrument recovery studies in Area Three. Lately Dave has been in charge of construction of the 300 ft. drop tower which will be used by his department.

**RICHARD A. MILLER** to supervisor of Mechanical Inspection Section 2722-1, Inspection Department II.

He has been in the same section for the entire four and one-half years at Sandia.

Immediately prior to coming to Albuquerque Dick did inspection work for an automobile frame manufacturer in Milwaukee.

He attended the Milwaukee School of Engineering, Chicago Business College and received electronics and TV equipment training at the United Electronics Laboratory in Louisville, Ky.

Dick served nine years in the Quartermaster and Signal Corps, including two years in Germany. He is presently a captain in the Army Reserves and is in charge of operations and training for the 713th Tank Battalion.



**TWENTY YEAR MAN** Percy E. Stephens, Chief of the Physical Security Section of the Security Branch of the Sandia Area Office, AEC, is congratulated by Adm. A. E. Uehlinger, Director of the Sandia Contracts Division, AEC. Mr. Uehlinger has just presented him with a gold lapel pin honoring 20 years spent in Federal service. The award was one of many presented as part of a new AEC program to recognize significant periods of service.

## Government Service Awards Earned By Albuquerque Area AEC Employees

A new AEC program to recognize long government service of career employees was launched locally with the presentation of Length of Service awards to a number of AEC employees in Albuquerque.

The awards, gold lapel pins bearing an atomic energy symbol enclosing the numerals indicating years of service, were presented to 10 and 20-year veterans last week. The 30 and 40-year pins will be presented later this year at a special ceremony in Washington, D. C.

None of the recipients of the initial awards performed all of his Federal service with AEC, since the Commission was not legally established until Jan. 1, 1947. In computing eligibility, prior military and civilian service with other Federal Government agencies is credited after the employee has worked for the Commission at least one year.

In the Albuquerque area 10-year awards were presented to 292 employees and 20-year awards to 44. Six 30-year awards and one 40-year will be presented later.

The 40-year award is to **George P. Kraker**, Deputy Man-

ager of Albuquerque Operations, who joined the atomic energy program after retiring from the Navy in 1948.

Thirty-year veterans include A. E. Uehlinger, Rudolph Hoglund, John W. Nelson, Margery M. Braden and William W. Juvenal.

In the Sandia Area Office of the AEC 10-year awards were made to the following: Herman Brunka, Kenneth W. Craig, James V. Deluca, Anthony Dresnek, Helen E. Gelwicks, Floyd M. Keeperts, Roy E. Meyer.

Terrence B. Miller, Sybil A. Milligan, Charles E. Morrison, Vaughn E. Myers, Melvin E. Neef, Bernard M. Peterson, John P. Shea, June Stafford, Beverly B. Tallman, Andrew A. Walker, Claude N. Weimer and Patrick W. White.



## Typist Tips Erasures Unfortunate But If You Must Erase Do It the Right Way

Faith Vincent has been in the 7225-5 typing pool since February when she started working for the Corporation. Since the girls in this organization pride themselves on clean and accurate copy of both classified and unclassified papers even the occasional slip of the finger must appear undetected to the casual reader.

Faith's tip to typists: before erasing an error blot the top copy as well as carbon copies with a kneaded eraser (such as those used to clean the type). This will prevent any smearing.

## Buffet Dinner to Honor Sandia Summer Employees

A buffet dinner to honor 41 summer college employees and ten faculty summer consultants and their wives is scheduled Tuesday, Aug. 16, at 7:30 p.m. in the Coronado Club.

## Congratulations

Born to: Mr. and Mrs. Sheldon Dike, 5123, a son, Martin Spencer, July 29.

Mr. and Mrs. Bernard Rolsma, 5254, a son, Peter Bernard, July 24.

Mr. and Mrs. Arne C. Koskela, 5254, a son, Rex Arne, July 25.

Mr. and Mrs. Louis J. Frenkel, 5522-1, a daughter, Iris Nadine, July 25.

Mr. and Mrs. Don Bush, 1461-1, a son, Donald Michael, July 31.

# Sandianotes

## New Home Owners

Mr. and Mrs. James W. McRae and their four children are returning this week from a vacation camping trip which took them to Yosemite and Yellowstone National Parks. They will move into their new home at 1815 Sigma Chi Road soon.

Other new home owners are Mr. and Mrs. R. E. Poole who will move into their new home at 4540 Trumbull SE next month, and Mr. and Mrs. F. J. Given who are living at 5009 Constitution SE.

## 25th Anniversary

Even the severe rain and hail-storm the night of July 25 didn't stop Mr. and Mrs. Frank E. Burley from celebrating their 25th wedding anniversary with friends.

Mr. Burley is Superintendent of Programming and Manufacturing Engineering, 2500. The couple was married a quarter century ago in Massachusetts. Their former home. They have two children, both living at home.

## Steady Winner

There's no denying some people have "lucky" streaks.

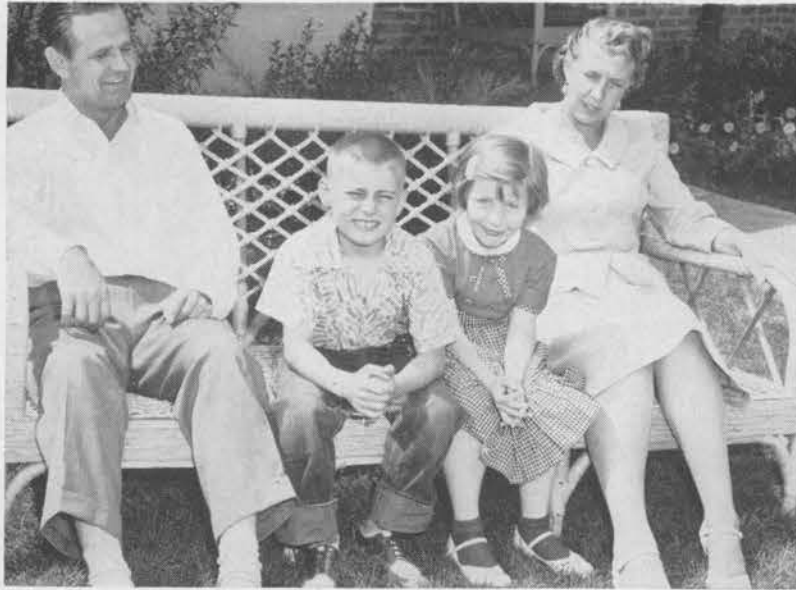
E. "Tim" Butler, supervisor of Nuclear Division, 5524, was recently awarded first prize in a nationwide limerick contest. Here's his prize-winning jingle which appeared in the recent issue of "Industrial Supervisor."

**Down-to-earth was our Foreman Depew.**

**His production was equalled by few.**

**Reason why? The clear fact is It was done thru safe practice For accidents send schedules askew.**

His prize was \$10, which he applied toward the cost of new golf clubs. Then, he went out on the fairways and won the Corporation golf tournament and some new golf balls.



**LANGUAGE BARRIERS** are being rapidly overcome among members of the Stone household. Thomas Stone, 2553, and his wife, June, 2551, recently adopted two German children. Christine, 6, and her brother, Alvin, 9, arrived from Munich speaking only their native language. The Stone's speak no German, but sign language and voice inflection apparently goes a long way toward straightening out difficulties. The children will start English lessons soon and hope to be able to enter school in September.

## Salton Sea Alert

All Salton Sea personnel participated in "Operation Alert 1956." A simulated attack operation was enforced with the control point activated at San Felipe Lodge under the direction of T. A. Sprink, Manager, Salton Sea Department, 2480.

## Observer Post Activated at Sea

A Ground Observer Post was recently activated at Salton Sea by personnel of the Plant Protection Organizations, 2481-1 and 2481-2. It is the only post in the Imperial and Coachella valleys with 24-hour coverage. Post supervisor is H. E. Schnarr with George A. Uszuko as Chief Observer. Earl T. Robbins, Milton J. Lesicka, and H. V. "Verne" McNabney are assistant Chief Observers.

## Sick Report

At home recuperating from a recent operation is Bill Roherty, 5123.

Get well wishes are extended to Robert Taffe, 4131-4, who recently underwent surgery. He is convalescing at home.

Lawrence Stone, 2121-2, has been confined to St. Joseph's Hospital.

Mark Forster, 2121-3, was called to Phoenix recently because of the serious illness of his mother.

## Vacation Smashup

A vacation trip by Woody Bledsoe, 5124, and his family had an unpleasant ending. In an automobile accident near Salt Lake City, Mrs. Bledsoe suffered a broken leg and their car was totally wrecked. Woody and their two children were shaken up.

# 2500 Wins Top Softball League Spot With Record of 13 Wins 2 Defeats

Members of the 2500 team are celebrating this week after emerging as champs of the Sandia Employees Softball League. Team 2500 defeated 1400 last week in the final game of the season to rack up a record of 13 won, 2 lost that topped the league.

Team 2200 dropped 2400 the same night to ruin 2400's bid for the top. Both teams were strong contenders for first place during the season. They go into a three-way tie for second place with 1200-I, all three teams with a 12 won, 3 lost record.

A Double Elimination Tournament for all teams of the league started last Wednesday. Games will be played on Monday, Wednesday and Thursday evenings on

Base Softball diamonds. The final games will be played Aug. 27.

In games played recently, prior to the deciding games this week, 2400 defeated 1200-I, 5-0. Cliff Rudy pitched a no hit-no run game to drop 1200-I out of contention for league honors.

Bouncing back from defeat, 1200-I pulled league leading 2200 from first place by tromping them 6-2. This defeat threw the league into a three-way tie for first place between 2200, 2400 and 2500—each with an 11 won, 2 lost record at that time.

Team 2200 dropped again after 2500 knocked them down 11-3. This cleared the field and left 2400 and 2500 tied for first place with a 12 won, 2 lost record.

## Frank E. Bell Takes New Sandia Area AEC Position

Frank E. Bell, former supervisor of the Staff Employment Section, 3151-1, recently transferred to the AEC. His new position is Chief of the Administrative Branch of the Sandia Area Office under Adm. A. E. Uehlinger.

## Sympathy

To Jo Collins, 2331-1, for the recent death of her brother in Youngstown, Ohio.

To Robert I. Butler, 1612-2, for the death of his daughter in Albuquerque July 30.

To James C. O'Neal, 5511-3, for the death of his father-in-law near Carrizozo, July 28.

## Wedding

The marriage of Marjorie Moser, 7225, to Alfred H. Galbraith of Topeka, Kans., took place last Sunday afternoon in the chapel of the First Baptist Church.

After a week-long honeymoon in Texas, the couple will be at home at 613 Palomas SE.

# Bowling Leagues Opening Season Play Next Month

Sandia Base Handicap Bowling League will open the '56-'57 season Sept. 6. Several vacancies exist for teams and individual members on teams, according to W. H. Allen, 2542-2, secretary.

The league welcomes beginning bowlers with an average of 155 or less. The limit for the five-man teams is 775 pins. Bowling is scheduled Thursday evenings at the Bowl-O-Drome alleys.

Anyone interested in joining the league is urged to contact Allen, Ext. 3-5150, or J. J. Platt, 5521, Ext. 4-4232.

The Sandia Base Major Bowling League is filled, according to C. B. O'Keefe, 7232, president. Bowling will start Sept. 5 and is scheduled every Wednesday night at the San Mateo Bowling lanes. Twelve teams have signed for league play.

The Coronado Club bowling leagues will begin play about the middle of September, Frank Abbott, AEC, secretary, reports. Announcement of vacancies and starting date will be made later.

## SHOPPING CENTER • SHOPPING CENTER • SHOPPING CENTER • SHOPPING CENTER • SHOPPING CENTER

**CLASSIFIED ADVERTISING**

**Deadline: Friday noon prior to week of publication.**

**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 Employees only and AEC organizations
6. No commercial ads, please

Next Deadline: Noon, Aug. 17

## FOR SALE

- AKC registered female sable & white four month old collie puppy, \$25. Low, Alb. 5-3420.
- EASY WASHER, spin rinse, spin dry, \$65. Todd, 5-8248.
- KROLL CRIB w/Kantwet mattress, \$10; car bed, \$3; chrome & plastic Wonda-Chair, \$20; lined-oak vanity loss mirror, \$5. Weber, Alb. 9-1389.
- 3 BR. HOUSE, 1 1/2 baths, lawn front & back, wall, patio, carpet & drapes, Hoffmanton, \$10,150, 2609 Garcia NE, Saturdays & Sundays. Weber.
- POWERPLANT, 110v, 3000w, automatic remote starting. Muench, Ext. 2-6164.
- 2 BR. HOUSE near Buses, den, landscaped, walled, lawns, sprinklers, brick patio, 732 Cardenas SE. Hart, Alb. 5-4004.
- BRASS BED, no springs; Stanley miter box & saw, will trade for gun. Pritchard, Alb. 6-5667.
- LOT 137x50x60 ft., natural gas line, ditch easement, electric line, 7500 Block North Second, Daniel Road, Rt. 1, Box 736, Alb. Bernal.
- REFRIGERATOR, Westinghouse, \$100; clothes line poles & line, steel, \$10. Gunderson, 6-6186 after 5 p.m.
- '53 FORD CONVERTIBLE, will take older Studebaker Champion on trade. Elliott, Alb. 6-7909.
- SCINTILLOMETER, Detecron Model 222, Radium Standard batteries; Jeep cans & water. Hahn, Alb. 9-1708.

- 2 CRIBS with mattresses, \$10 and \$13. Reherty, Alb. 9-5780 after 5.
- YOUTH BEDS, \$20, two bunk type, maple, with ladder, box springs, innerspring mattresses. McCord, Ext. 3-4273.
- '51 AUSTIN SEDAN, 30 MPG, \$400. Folkins, Ext. 2-2162 or Placitas, N. Mex., evenings and weekend.
- '55 CHEV., 4-dr. sedan, 210 Series, radio, heater, two-tone, \$1425. Kraft, Alb. 9-2157.
- 4-RM. HOUSE, 2 br., w/4,750, FHA \$1400 down payment, \$40 month, 1608 Gerald SE. Chavez, Alb. 2-1791.
- HUNTER GREEN TWO CUSHION SOFA, \$125. Beck, Alb. 6-3350.
- SNOW HOPES, 4 br., w/w carpeting, hall, lr, dr, drapes, ventian blinds, wall patio, convenient to base, Dickson, Alb. 9-1477.
- PORTABLE AIR CONDITIONER, suitable for 1 room, \$35. Senn, Alb. 5-3109.
- WELSH TERRIER, male, 8 mos. Patterson, Sandia Park P.O.
- '48 FORD, tudor, black, seat covers, \$125. Officer, Alb. 6-0337.
- '51 STUDEBAKER PICKUP, factory made rain-proof steel frame back cover. Washington, Alb. 4-5029 after 6 p.m.
- BOY'S RACING BICYCLE, 26", \$20. Howard, Alb. 5-9489.
- MILK GOAT giving 1/2 gallon milk per day, \$25. Lopez, Alb. 3-8550.
- TRAILER, enclosed for camping, mounted water/gasoline cans, ice box, lights, \$90, 1205 Garcia St., Appel, Alb. 9-3776.
- SOFA, 2 sections, \$45. Creveling, Alb. 2-790.
- BOXER, brindle, male, 1 yr. old, ears clipped, registered, show stock, good pet, \$50. Price, Alb. 5-0216.
- HOUSE, 3 br., den, hardwood floors, \$10,500 or less for substantial down payment, quick possession. Bacca, Alb. 6-2339, 2845 Truman NE.
- LARGE WINDOW FAN, 2 speed, \$25. Elbert, Alb. 9-1755.
- COLDSPOT REFRIGERATOR, 9.4 cu. ft., \$84. Berger, Alb. 5-0265.
- '49 DODGE, 4-dr. sedan, radio, heater, sun-visor, seat covers, \$295. Meyer, Alb. 6-3926.
- WOOL RUG, pad, \$35; mahogany bedstead, \$25; green lounge chair, \$25; upright Eureka cleaner w/attachments, \$25. Weber, Ext. 4-1275.

- '50 OLDSMOBILE, \$350. Weaver, Alb. 3-8944.
- CHROME DINETTE SET with leaf, 4 chairs, \$65. Fisher, Alb. 90457.
- SPRINGFIELD CAP & BULL RIFLE, early 1800 model, \$15; Winchester 1876 rifle, long barrel, \$30; will trade. Smitha, Alb. 9-1096.
- UMBRELLA TENT, 9 1/2'x9 1/2', floored; add a room curtains; nylon screen windows & door, \$40. McCadden, Alb. 4-3291.
- BOX SPRINGS, \$5; bassinet & pad, \$6.50, 417 Gen. Patch NE. Fackelman, Alb. 6-7446.
- WEIMARANER PUPS. Ewing, 1303 Quincy NE.
- PROPANE GAS CAMP LANTERN, \$6. Devaney, Ext. 2-4279.
- BC-348 RECEIVER, gain & built-in AC-Power supply, \$54. Bauer, Alb. 4-2223.
- 2 MALE SIAMESE KITTENS, ten weeks old, house broken & weaned, not registered, \$15 each. Tolman, Alb. 7-8013.
- AKC BEAGLES, 12 weeks old. Chown, Alb. 4-2423.
- SIMMONS DOUBLE BED MATTRESS & box springs. McCaffery, Alb. 2-9562.
- RCA ESTATE ELECTRIC RANGE, 30" visual oven, \$160; Norge refrigerator, 10 c.f., \$90. Hodyke, Alb. 6-5210.
- SERVEL REFRIGERATOR w/freezer across top, installation fixtures, \$75. Silva, Alb. 2-1419.
- HOTPOINT MANGLE, 5 years old. Bond, Alb. 9-5576.
- 12 CU. FT. CROSLY SHELVADOR, \$75, 3224 Columbia NE, Ext. 23146. Sedgwick.
- CRIB & MATTRESS, adjustable springs, \$20; Thor automatic ironer, \$40. Lowery, Alb. 9-5177.
- DOUBLE BED w/sliding doors in headboard, extended shelves; double dresser; large mirror, blond hardwood, \$150. Stamm, Alb. 6-8116.
- '56 CUSHMAN EAGLE MOTOR SCOOTER, \$300. Klein, Alb. 5-1220.
- EASY SPIN DRY WASHER, \$35. Heimer, Alb. 5-6663 after five.
- '53 FORD TUDOR CUSTOMLINE FORD-O-MATIC, R&H, \$825. Hosterman, Alb. 3-7581.
- BED, twin width, extra long, built in drawers & bookcase, headboard, springs & mattress. Bankston, Alb. 9-0307.

- INCOME PROPERTY, \$3000 down buys \$1000 year income. Pope, Alb. 5-6702.
- TV, 17" table model w/console base, \$70; station wagon, '41 Ford, \$150. Wood, Alb. 4-0342.
- '47 CHEV. PICKUP. Miller, Alb. 5-6906.
- OUTDOOR LOUNGE, \$15. Geilenfeldt, Alb. 6-8666.
- WRINGER TYPE DUCHESS WASHER, \$50. Katsuleas, Alb. 6-0553 after 5:30 p.m.
- SIAMESE KITTENS, housebroken, \$10 each. Freyermuth, Alb. 9-2053.
- CAP MOBILE RADIO, \$45; 4x5 enlarger & 2 lens, \$175; radio-phonograph combination; bassinet, furniture, antiques, Laskar, Alb. 3-1554.
- 3 BR. HOUSE, 1 1/2 baths, pitched roof, hardwood floors, carpet, wall, landscaped. Stoddard, 3116 Cuervo Dr. NE, Alb. 6-2379.
- 35,000 BTU WALL HEATER, new, make offer. Goad, Alb. 6-8088.
- '50 FORD STATION WAGON, R&H, overdrive, tires, \$395. Pinkham, Alb. 6-2166.
- ONE BEDROOM HOUSE, hardwood floors, carpet, storeroom, walled back, near Base, furnished or unfurnished, 308 Gen. Bradley NE. Vinson, Alb. 5-6962.
- BICYCLE, 16" sidewalk type w/guide wheels, \$12. Stueber, Alb. 9-2414.
- 2 BR. HOFFMAN HOME, \$500 down. Springer, Alb. 9-4590.
- 3 BR. HOME w/den or 4th bedroom, 1 3/4 baths, two car garage, air-conditioning, paved driveway, landscaping, wall, \$11,800. Goodman, Alb. 9-4719.

## WANTED

- TWO DRIVERS to join car pool from 4th & Santa Fe Ave. Bacca, Ext. 2-5235.
- RIDE from 1020 Girard NE to vicinity of Personnel Bldg. Scharpen, Alb. 6-7701.
- 3 GOOD CONDITION TIRES, size 7.10x15. Lipe, Alb. 3-8550.
- RIDE WANTED from 3700 block Headingly NE (Carlisle Plaza Addn.) to Bldg. 800 or vicinity. Pacheco, Ext. 3-3152.
- RIDE from 1500 Espejo NE (San Addition) to Bldg. 887 or close. Cutsinger, Alb. 9-2424 after 5 p.m.
- 410 GAUGE SHOTGUN, single shot. Ray, Alb. 9-1330.

- RIDE from vicinity of Hannett Ave. & Hoffman Dr. NE to Bldg. 802. Przystas, Alb. 9-1831.
- RIDE from corner of lot. Alarid, Ext. 2-6157.
- WOMAN to care for 2 children after school on Base. Grover, Ext. 4-6178 after 5:30.
- DRIVER to join car pool from Princess Jeanne Park to Bldg. 800 or 802. Sargent, Ext. 31137.
- RIDE, vicinity of 2500 block Kathryn to 880 or 892 parking lot. Harrison, Ext. 2-7139.
- RIDE or join car pool from Rio Grande, west Central vicinity 880/892. Silva, Alb. 2-1419.
- RIDE or join car pool, vicinity 10256 Girard SE to 802. Holdridge, Alb. 5-0216.
- RIDERS from vicinity Sierra Dr. SE to Bldg. 880. McGuire, Alb. 5-7796.
- MEMBERS to join car pool from BelAir vicinity to Bldg. 892. Asturias, Alb. 2-9165.
- JOIN CAR POOL vicinity New Roberson Homes to Bldg. 800, 9723 Euclid NE. Mortensen.
- TO GIVE AWAY small short-haired, 3-year-old spayed female dog. Barker, Alb. 9-2365.
- USED LARGE CEDAR CHEST. Honest, Alb. 5-3631.

## FOR RENT

- 2 BR. HOME, carpeting, air-conditioned, garage, sprinklers, SE Heights, \$85 or lease. Wiesch, Alb. 6-7236.
- 3-RM. APARTMENT, stove, refrigerator, garage, patio, 4150 Mesa Verde NE, \$67.50, adults, no pets. Carter, Alb. 6-1763 or 5-4403.
- ROOM with or without kitchen privileges to employed lady. Carroll, Alb. 5-5829.

## MISCELLANEOUS

- LOST—Pins, scatter; keys, auto; watch, man's Arco; pen, Parker, black & silver; rings, man's turquoise Masonic. Lost & Found, Ext. 2-6149.
- FOUND—Pen, Parker '51; pin, Toastmaster; bracelets; earrings; keys. Lost & Found, Ext. 2-6149.
- LOST—Platinum ring with ruby set. Hamilton, Ext. 3-5236.

## Wind Tunnel Experimentation

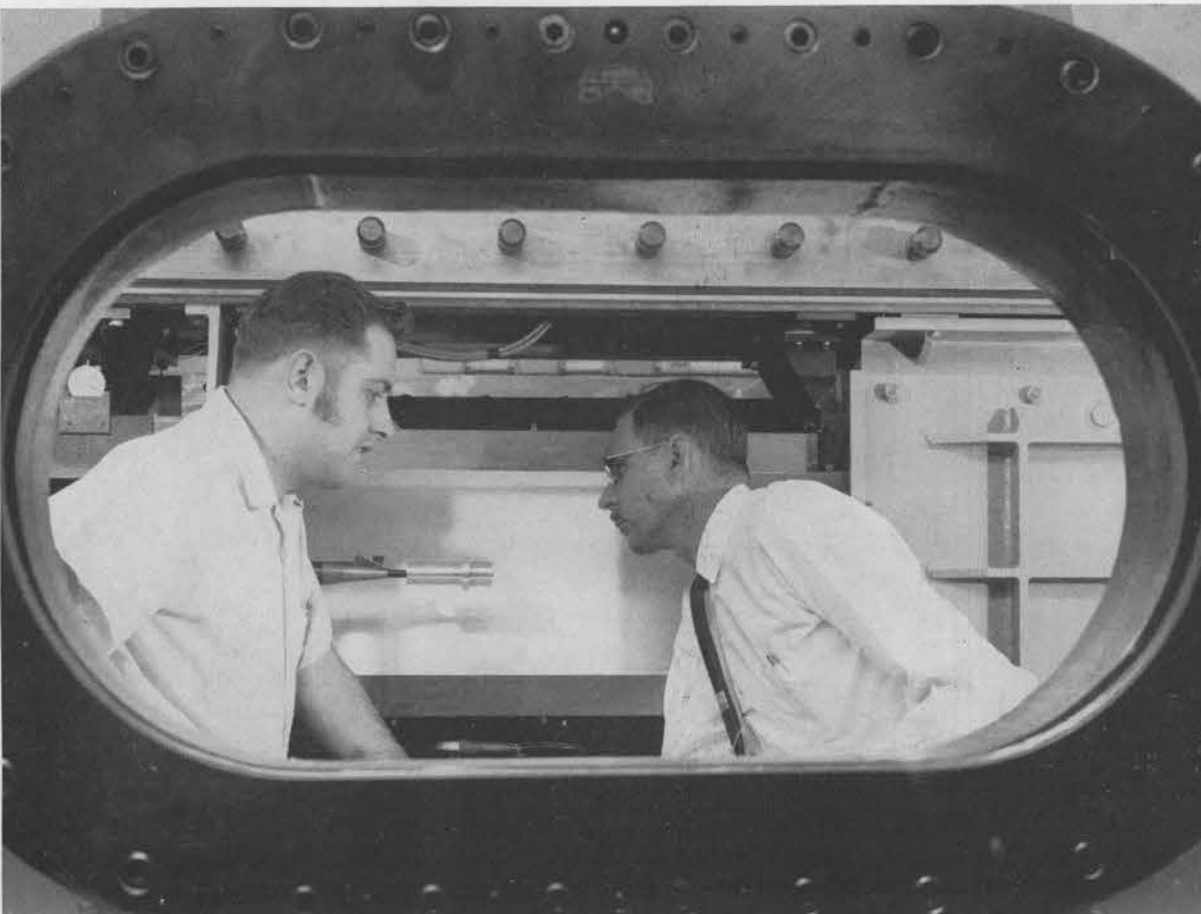
# Howling Man-Made Winds Aid Research Programs



CONTROL PANEL is manned here by Alan Y. Pope, supervisor of the Experimental Aerodynamics Division of Department 5140.



SILENCER to the roar which accompanies tests is this diffuser which extends beyond the building housing the wind tunnel. Cecil Tolbert stands at the far end of the tube which carries the air.



WIND TUNNEL opened shows Milton O. Davis, left, and Alan Pope, examining a typical model mounted on a dynamic rig. During a "blow-down" the window in the foreground provides an opportunity for watching performance of the model. Wind velocities of nearly 1000 mph are obtained.

Hurricanes, made to order, are commonplace for the men of the Aerodynamics Department, 5140. Today, the winds can blow as fast as 1000 miles per hour — faster than the speed of sound. Not too far in the future the gales will be stepped up to about 2000 miles per hour, or about three times the speed of sound.

These carefully controlled supersonic winds are all in the interest of science. They occur, almost daily, in the Sandia Corporation wind tunnel housed in Bldg. 865, a facility used by the Research Organization, 5100.

#### Modern Research

Wind tunnels are necessary in modern-day research to check the aerodynamic phenomena of a "body" which must travel through the air.

Or as S. C. Hight, Director of Research, states it: "We want to know what happens when an object passes rapidly through the air or when air rapidly passes a stationary object."

G. E. Hansche, Manager of the Aerodynamic Department, reports that pressure effects on

weapons, houses, bridges, parts of airplanes and other items have been tested in the Sandia wind tunnel.

"We have acted as a service group for many other Sandia organizations who are looking for some answers, too," he says.

A. Y. Pope, supervisor of the Experimental Aerodynamics Division, 5142, heads the group that performs the tests. A veteran of more than 15 years work with wind tunnels, and a recognized authority in that field, Alan has worked with such test devices in many parts of the country.

"Sandia's present wind tunnel was put into operation in early 1956," he recalls, "and has been a great help in increasing the scope of work that can be done at Sandia."

The tunnel in use here is a 12-inch throat "blow-down" type of device. It employs a large storage or pressure tank crammed with air at high pressure. This is released through a tube or nozzle into the test section where the device under experiment is mounted.

After tearing through the test section the air is slowed down by a diffuser, and is exhausted through a port in the far side of the building.

#### Preliminary Tests

Sandia Corporation uses the wind tunnel in preliminary tests with miniature models to save expense and time required in full-scale tests. Models used are fractional scale.

Milton W. Davis has been the project engineer responsible for the design and operation of the facility. Assisting him have been Cecil Tolbert, 5142, and George Baker, 5213.

They place the model of the design in the throat of the exit tube and the automatic equipment is set to record graphically just what happens when this model is smacked by the wind blast.

Air is released from the tank where it is under 300 pounds pressure and with the roar of a banshee rips through the test section — in a few seconds it's all over.

"A test at the speed of sound lasts about six seconds," Mr. Pope reports. During this time the test device can be canted at various angles and attitudes. Reactions are automatically recorded on paper during this time while dials register pressures, lights indicate normal operation.

Another wind tunnel is also used at Sandia. This one is a six-inch "free jet" device in which dust may be added to the air for test purposes. The tunnel is also used for various other types of tests.

#### Economical Research

Sandia's wind tunnel testing program offers a rapid and economical means for aerodynamic research. Aeronautical forces of drag, lift and pitch can be accurately measured.

Sandia's wind tunnel research expert, Alan Pope, is a graduate of Georgia Tech. He taught there for 10 years and served with the National Advisory Committee on Aeronautics in 1939 and 1940.

A member of the Institute of Aeronautical Sciences, he has written several books: Wind Tunnel Testing, now in its second edition, and Aerodynamics of Supersonic Flight. He is listed in the ninth edition of American Men of Science.

Actual construction of the wind tunnel was handled by the Electrical and Mechanical Design Division of Plant Engineering Department, with Earl Craven as electrical and mechanical design supervisor. Clif Rudy executed the electrical design for the project and Ken Finders did the mechanical engineering work.

Ward Hunnicutt, 2441, designed the structural and architectural phases of the program under the supervision of R. M. Officer. Inspection was conducted by Division 2442 under Harry Pastorious.



TEST SECTION of Sandia Corporation wind tunnel may be seen through a glass covered opening. Present for a recent series of tests were, L to R: A. E. Uehlinger, Manager, and Charles W. Morrison, Acting Chief, Administrative Branch, Sandia Area Office; Eugene R. Butler, Non-Nuclear Coordination Division, ALO; Stuart C. Hight, Director Research, Sandia Corporation; and Harry A. Weber, Director, Non-Nuclear Coordination Division, Albuquerque Operations.