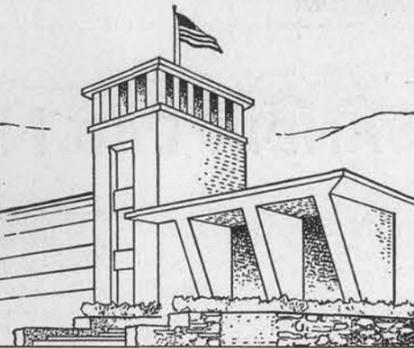


SANDIA LAB NEWS

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



Vol. 7, No. 9

ALBUQUERQUE, NEW MEXICO

MAY 6, 1955



F-101 VOODOO—The first test flight of this long-range fighter was made last fall at Edwards Air Force Base, Muroc, Calif. Telemetering instrumentation by

Sandia Corporation enabled on-the-spot determination of the flutter stability characteristics of the airplane during the first and subsequent flights in California.

Sandia Telemetry of Jet Test Helps Improve Voodoo's Safety

Some months ago, Test Pilot Robert C. Little took McDonnell Aircraft Corporation's new strategic fighter, the F-101A Voodoo, into the air for the first time. His flight was made considerably safer by telemetering equipment developed and installed in the plane by Sandia Corporation engineers and technicians.

Sandia and McDonnell engineers had previously worked together on telemetering problems. This working relationship prompted McDonnell officials to request the Air Force and Atomic Energy Commission for more of Sandia's help.

The significance of Sandia's part in testing the new aircraft became apparent when some of the capabilities of the new plane were revealed recently.

Strategic Fighter

The Voodoo, one of the latest developments of the St. Louis aircraft company, is a supersonic long-range strategic fighter now in full production. It has a 39.7 foot wing span, is 67.4 feet long and is 18 feet high. Wings and horizontal stabilizer are swept back 35 degrees.

Two Pratt and Whitney J-57 turbojet engines which power the Voodoo develop approximately 20,000 pounds thrust.

Before the first test flight McDonnell engineers were confronted with this problem: how to test safely the stresses, strains, flutters, the "aeroelastic stability" of the plane to high mach numbers (generally, Mach 1 is the speed of sound) with the least amount of lost time and do it with flight safety.

Three Sandians Present

The McDonnell people turned to Sandia Corporation whose engineers have established a fine reputation in telemetry. It was not too difficult

for Sandia engineers to modify existing equipment in use here to meet the specialized needs of the aircraft company.

Sandia engineers present at the first flight were Howard B. Austin and Harold D. Finch, 5253, and Richard J. Rudolph, 5213.

Accelerometers, pressure sensitive devices which respond to motion in a certain plane or direction, were placed at 10 selected stress points within the Voodoo.

Connected with these accelerometers were telemetering packages made by Sandia Corporation. The instruments picked up the accelerometers' signals, amplified them and transmitted them to the ground as radio impulses. On the ground these signals, picked up by a special radio receiver, were transmitted to a recorder device with a needle which printed the signals on a sort of graph paper.

Performance Observed

Thus the flutter or any evidence of mechanical weakness from several points within the plane's structure could be immediately observed and interpreted by engineers on the ground.

McDonnell engineers report that the successful operation of the telemetering equipment helped materially in testing the airplane. Assured of the plane's structural soundness, they were able to talk to the pilot by radio and authorize him to accelerate to more than the speed of sound on the first test flight.

Project Engineer for the F-101A Voodoo points out that the use of telemetering equipment for flight flutter testing has great possibilities, but due to some limitations does not do away completely with the method of using an oscillograph recording system within the airplane, which is

considered more accurate and reliable.

Equipment Still Used

When the oscillograph is used, more time is consumed as the plane has to return to the ground, the recordings must be taken from the instruments and data reduced before study of flight effects may be made.

Engineers Austin, Finch and Rudolph helped install the telemetering equipment in the Voodoo, and they were on hand to interpret the signals as recorded on the ground. The equipment is still being used by McDonnell engineers in later tests of the fighter jet plane.

Tech Council Holds Dance at Fez Club May 7

The fifth annual dance sponsored by the Council of Technical and Scientific Societies will be held tomorrow evening at the Fez Club, 809 Copper Ave. NW.

Non-members who are engaged in technical activities are welcome to attend the event. Kenneth G. Overbury, 1213, a member of the American Society of Mechanical Engineers, is handling ticket sales. Tickets are priced at \$1 and will be available at the door.

The dance committee includes Charles R. Barncord, 1632 (American Society of Mechanical Engineers), entertainment chairman, and Curt Biggs, 1650 (American Institute of Electrical Engineers), publicity.

Door prizes will be awarded and formal dress is optional. Music will be furnished by the MBC Trio.

Patents Granted on Inventions of Three Sandia Corporation Engineers

Thomas F. Marker, manager of the Electronic Development Department, 5420, has invented a voltage stabilized oscillator on which a patent was granted March 15. It is a voltage regulating device that draws very little current and can be used in amplifiers, telephones and servo-systems.

Tom submitted his inventive proposal to the Sandia Patent Department, 6010, by whom, after preliminary investigation, an application for patent was prepared early in 1954.

The Sandian, who studied electrical engineering at the University of Colorado, has patents pending for projects undertaken at International Telephone Company, a previous employer, and from the U. S. Army for work completed during World War II. He has been with Sandia Corporation for almost seven years.

Among other Sandians whose inventions were patented last year are Carrol V. Osborne, 1333, who designed a pressure ascertaining means, and D. Maxwell Ellet, 5143, who devised a resonant type shake table. Co-inventor of the latter device is William E. Baker, formerly associated with the Corporation.

Carrol came to the Laboratory in 1950 after serving with the National Aeronautics Advisory Committee as an aeronautics scientist. He received his M.S. degree in aeronautical engineering from the University of Colorado and later was an instructor at that school. During the war he served as a flight commander in the Air Force and attended several specialty courses on B-24's and C-54's.

"D." was an instructor at Yale University before rejoining Sandia in 1952. Previously he was associated with the University of Cali-

ornia as a project engineer from 1946 to 1949. He received his B.S. degree in mechanical engineering from the University of Virginia, and a master's degree in engineering from Yale. He earned his degree as doctor of engineering, also at Yale. While in military service "D." was an instructor in weapons at Engineer Officer Candidate School, Ft. Belvoir, Va.

ASQC Group Hears Quality Control Authority Speak

Harry Romig, nationally-famed quality control authority, will speak on the "Role of Quality Control in Industry" at a meeting of the Albuquerque section of the American Society for Quality Control, May 20 at 8 p.m.

The group will meet at Room 122, Mitchell Hall, on the University of New Mexico campus.

Mr. Romig, formerly with Bell Laboratories, is now a professional consultant in problems relating to quality control, and is 1953 recipient of the Shewhart Medal for outstanding leadership in the quality control field. He is co-author of the Dodge Romig Sampling Inspection Tables, and has wide experience in Army ordnance and related quality control activities.



Harry Romig

Sandia Sports Car Hobbyists Gather At Ft. Sumner, N. M., for Annual Rally

Sandia Sports Car enthusiasts will join with others from throughout the southwest and California for a gala two-day annual racing event at Ft. Sumner, May 28 and 29.

The Ft. Sumner Annual Sports Car Races, sponsored by the Albuquerque Sports Car Club, will see a host of MG's, Ferraris, Jaguars, and Porsches, among others, participating. A special race for feminine drivers is planned, and there will be refreshments available at the Ft.

Sumner airport, where the races will be conducted on abandoned runways.

Jeanne Gangas, 1923, is secretary of the Albuquerque club; her husband, N. A. Gangas, is chairman of the race committee. Jim Sisler, 1732, will be an official at the event, while planning to participate are Corry McDonald, 1630; Carman Pascal, 2152, and Walt Howerton, 5262. Radio communications for the races will be handled by members of the Caravan Club.



Photo by Hodges

MG-WHIZ—Jeanne Gangas at the wheel of her foreign-made sports car. She'll participate in the women's events at the Ft. Sumner Road Race this month.

SANDIA LAB NEWS

Friday, May 6, 1955

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Editor, Robert S. Gillespie
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Telephones: Sandia Base Extension 25253 or 26135



Photo by Dunlap
EMPTY BOXES and waste paper are removed from freight elevator, loaded on waiting truck by Ramon Bernal, freight elevator pilot in Bldg. 802.

Ramon's Magic Carpet Tarries Here and Tarries There; Gives Him Lifts Everywhere

Ramon Bernal's job at Sandia Corporation is an exclusive affair.

No one else among the Corporation's some 5,500 employees has a job like his. He is the sole operator of the Corporation's lone freight elevator. Ramon operates his lift between the basement and 3rd floor of Bldg. 802. The elevator is near the east end of the east wing.

In the course of a day's working schedule, Ramon figures he passes each floor 100 to 200 times. He claims the scenery never gets monotonous because he meets such nice people everywhere he goes. "Engineers, stenographers, clerks, janitors, all kinds of nice people."

Ramon's spacious cube is designed to handle freight only; no passengers are permitted. It's equipped with two sets of electrically operated doors at front and back. The "outside" door opens only on the first floor, to permit loading from the dock. These guillotine-like vertical gates which meet half-way down (or up) are controlled by Ramon with a judicious and safety-minded hand. He is careful to clear all doors before opening and closing.

Standing on a rubber mat, Ramon presides over a copper control board dotted with push buttons. When his

services as elevator operator are called for, his copper dash lights up, red for Down, sir; green for Up. Ramon's magic carpet will transport 10,000 pounds of fork lifts, hand lifts, hand trucks, paper cartons and boxes, electronic components. But no people, except Ramon, of course.

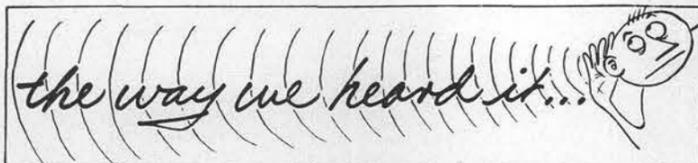
Ramon has permitted himself the luxury of a small cushioned chair. It stands beside his copper control panel. But he never uses it. "I'm too busy," he says. "I never get a chance to sit down."

Ramon, who is 51 years old, was married to his wife, Emma Bernal, in 1943. "Since then"—he ticks off on his fingers—"there's Cresencia, Remedios, Elisia, Jose Raymond, Genevive, and Emma, and Ramon."

The green light winked. A buzzer sounded. Ramon had to go. When the doors closed, he was whistling "Off we go, into the wild—"

Speaks at Institute

R. W. Shephard, 5120, chose "Atomic Weapons Program in New Mexico" for his talk before the Institute of Applied Mathematics and Statistics at Stanford University this week. The meeting was May 3 at 3 p.m.



Parental Perils

The dangers of parenthood were demonstrated most clearly to Martin Grothe on two recent occasions. His young son, Bobbie, almost four, came groping into the master bedroom late one night with his forefinger beamed directly to daddys' awakened eye—result: a scratched eyeball. Then, after the eye healed, Marty and Bobbie were "rasslin'" one evening and the youngster boffed his pop unexpectedly—result: a pair of broken lenses.

Weather Bargain

J. W. Pinkerton surmises the recent ill winds did blow up some good. While shopping downtown on a dusty afternoon, he was asked by two ladies who were selling cakes if he wanted to purchase one. "No, I don't want a cake," he remarked. Pinky changed his mind when the ladies offered him the biggest and prettiest cake of the lot for only 75 cents. Because of the weather the pastries were selling fast and at cut rates.

around the departments

Members of Dept. 1210 and guests didn't trust amateurs during their recent outing at Wild Horse Canyon in the Sandia Mountains. The charcoal steaks and trimmin's were prepared by real cowboys from Four Hills Ranch. Later the cowboy-cooks entertained with guitar music while the group sat around a huge campfire and sang.

A recent visitor to Amarillo, Tex., and Woodward, Okla., was 2332's Cecil T. Garringer, who spent his vacation with relatives.

Robert D. Flaxbart, 2417, has returned to the laboratory after spending two weeks on active duty with the Air Force Reserves.

Lester Grisham, 5213, and Thelma Cox were married March 26 at the home of Lester's brother. Other newlyweds from 5210 are Clifford Ruttie, 5215, and his bride, the former Genevieve DoBell. They were wed April 16 at St. Charles Church, then honored at a reception at the Alvarado Hotel.

Enjoying a vacation in South Dakota during April were A. O. Phelps, 5213, and his wife.

From 5262: The Tom Hobans have moved into their new home at 1131 Florida SE. Another new homeowner is Arne Koskela who has purchased a house at 1209 Gretta NE. Comparing notes with Tom and Arne is Bernie Rolsma who has moved his family into the new place at 1600 Kentucky NE.

Kay Norton, 1923, is leaving today for a vacation in St. Louis, Mo. She will be accompanied by her mother who has visited since February at Kay's ranch home near Corrales.

Best wishes go out to Helen Tuttle, 5131, who is recuperating from recent surgery.

The Bruce Millers are now living in their new home at 5800 Arvilla NE. Bruce is in 5132.

A newcomer to the Manufacturing Engineering Inspection Section, AEC, is John H. Hemperly from the state of Washington. John returned to Washington last week by plane to make the acquaintance of his fourth son, who was born April 4.

Other newcomers to AEC are Lawrence E. Baines, who has joined the Manufacturing and Engineering Branch, and Kenneth R. Braziel, a new employee in the Program Branch, Development and Production Operations.



Photo by Laskar
HIS PAINTING of a scene on Corrales Road northwest of Albuquerque won first prize for George B. Marks, 2463, at the recent Coronado Club Art Show. George points out his winning picture here to a co-worker, Jo Abraham. Second prize was awarded to Dick Strome, 2463, for his portrait, "Melissa and Melinda." It is a painting of the twin daughters of another Sandian, William Meyer, 2521.

A beaming new grandfather in 4163 is Harry E. Basey, whose son-in-law and daughter, Mr. and Mrs. Glenn Simpson, became the parents of a daughter April 20. Glenn and his wife, Winifred, are both former Corporation employees. They will make their home in Caracas, Venezuela.

Gene Daniels, 1641, and his wife moved recently into their new home at 1404 Conchas NE.

Anna Faye is the name of the new pride 'n' joy in the Gilbert Dance household. She joined "Digger" and his wife April 13. Her daddy works in 2452.

Joining with other New Mexicans on a Goodwill Tour to our neighbors south of the border were Lois Sullivan, 4153, and her husband, Tony Sullivan, 2151. They visited Mexico City and points of interest near the capitol.

Mary Davis, 5215, read with interest recently of the appointment of her brother-in-law, Chester R. Davis, of Chicago, Ill., as assistant secretary of the Army. Mr. Davis, who has been associated with the Chicago Title and Trust Co., will move to Washington, D. C., to assume his new duties.

Two Sandians who were on the committee for the recent Fraternal Order of Police benefit dance were 2452's Jim Lossing and Benny Anaya.

The Kenneth Crays, 5212, are enjoying a vacation in Kansas where they are the guests of Ken's mother.

Peggy Ritzinger, 3151, and her husband spent their two weeks vacation in Springfield, Mo., with friends and relatives.

Robert Peet and his wife are now living in their new house at 2826 Cardenas NE. Bob is with 5252.

Carol Holmes, 3153, has returned to work after she and her husband spent an enjoyable spring vacation in Chihuahua, Mexico.

Destroyed by fire April 17 was Ken Stout's new home, located in the Manzanos on Route 10. Ken, who works in 5211, reports that all of the contents of the home were lost.

Goshen, Ind., was the vacation destination for Paula Baker, 3153, and her husband. They visited for two weeks with relatives and friends.

His friends in 1641 welcomed Fred Eichert back to work last week after an appendectomy.



Photo by Lenont
LAUNCHING RAFTS for a sortie on the Rio Grande are these Sandians who spent last Saturday aboard the tiny crafts in a 30-mile trip down the river from Otowi Bridge near Los Alamos. The 11-hour jaunt ended at the diversion dam near Cochiti pueblo. Above, L to R, are Guy Willis, 5213; Bill Stephenson, 5141;

Antone Peterson, 5213; Tom Hughes, 5311; Ben C. Benjamin, 5216, and Clifford Long, 5226. Also making the trip were Jay Todd, 5111, and Warren Roberts, 5216. Photograph was taken by 5216's Evan Lenont, who, with Benjamin's father, picked up the adventurers at the Cochiti pueblo site after an exciting expedition.

Lovely Darleen Engle, Daughter of Sandia's Max Engle, Stars in Hollywood as Dancer for Movies, Television



Starlet Darleen Engle

—Sandia's daughter earns fame in movie world—

Starlet Darleen Engle, lovely daughter of Max D. Engle, 2545-4, is currently on a personal appearance tour for MGM studios publicizing the recent release of "The Prodigal."

Darleen's tour is taking her to 48 cities in eastern, southern and central states; included in her eight-weeks travel are radio and TV interviews, talks with the press and attendance at a number of luncheons and festivities.

A dancer, Darleen made her first professional appearance in MGM's "Unfinished Dance" when she was 11. In the past two years she has worked steadily as a dancer on TV shows starring Jimmy Durante, Eddie Cantor, Ethel Merman, Martin and Lewis, and Donald O'Connor.

Darleen's dancing talent is on film, too, in recent motion pictures, among them "Jupiter's Darling," "Show Business," "The Untamed," and "You're Never Too Young."

Recent Library Acquisitions Listed

Among new acquisitions at the Sandia Corporation Library, Room 102, Bldg. 802, are these volumes: Bell Telephone Laboratories, Inc.

The current status of printed wiring. 1954.

Boulding, R. S. H.
Radar pocket book. 1955.

Electrical construction and maintenance.
Seventy-five ways to cut electrical maintenance costs.

Electrical manufacturing.
Printed circuits. 1954.

Timoshenko, Stephen.
Vibration problems in engineering. 1955.

Halsey, George D.
Selecting and developing first-line supervisors. 1955.

Richards, R. K.
Arithmetic operations in digital computers. 1955.

Hueter, Theodor F.
Sonics. 1955.

Woodbury, David Oakes.
Atoms for peace. 1955.

Nottingham, Wayne Buckles.
Bibliography of physical electronics. 1954. (Reference only.)

McCormick Speaks To Tech Writers

Wilfred McCormick, local author, will discuss "Aids to Readability" at a meeting of the Albuquerque Society for Technical Writers, May 16, at 7:30 p.m. The meeting will be at the Coronado Club.

A business meeting will follow McCormick's talk; permanent officers will be elected, and a draft of by-laws voted upon.

Refreshments will be served at the meeting. Tickets may be obtained from Justin Heipeman, ext. 21148, or Phyllis Flanders, ext. 33240.

BARNEY J. CARR to supervisor of Research Division 5414. Barney became supervisor of the Electronics



Research Section 5414-1 in August, 1953, having worked in electronics research since he joined Sandia Corporation in February, 1952.

Before joining the Laboratory he was associated for 18 months with New Mexico A&M College at Las Cruces in computer research and guided missile telemetering. Previously he was with Consolidated-Vultee in Ft. Worth, Tex., as a research laboratory analyst specializing in radar and navigational computers.

A native of Big Spring, Tex., Barney attended Texas Technical College, Lubbock, where he received his B.S. degree in electrical engineering in 1949. At college he was elected to membership in Tau Beta Pi, an honorary engineering fraternity, and to Kappa Mu Epsilon, honorary mathematics society.

He spent two years in the Army Air Force as a radar mechanic and served in the European theater. Barney is a member of the Institute of Radio Engineers and of three of the IRE Professional Groups—Nuclear Science, Computers, and Medical Electronics.

WILLIAM H. EVERHART to supervisor of Area Three Activities Section, 5213-4. Bill has worked in



field test and electronics development organizations since he came to Sandia Laboratory nine years ago as an employee of the University of California. The preceding five years he spent in the U. S. Army Air Corps as an instructor and operator in radio operation and maintenance.

A year of his military duty was with the Air Transport Command in the China-Burma-India theater. Bill is a native of Youngstown, Pa., and was self-employed in the radio appliance sales and service field immediately prior to World War II.

He is a graduate of Capitol Radio Engineering Institute, Washington, D. C.

Invite Newcomers

Members of Alpha Chi sorority among Sandia Corporation newcomers and wives of newcomers are invited to participate in the group's alumnae activities in Albuquerque. Mrs. L. E. Mahuron, 3330-49th Loop, may be contacted at ext. 25195 for information. She calls attention to the "Rose Rendezvous" planned for the Alpha Chi's this month—a tour of rose gardens and a tea next Thursday, May 12.

WILLIAM A. GARDNER to manager of Auxiliaries Engineering Department, 1280. Bill joined the



Laboratory in 1948 when he was assigned to aircraft liaison engineering work. In September of 1950 he was promoted to supervisor of the Special Activities Division, later

renamed to the Weapons Facilities Division, 1283.

After his graduation from the University of New Hampshire where he received his B.S. degree in mechanical engineering, Bill accepted employment with Wright Aeronautical Corp. in Patterson, N. J. From 1942 to 1945 he was a fighter pilot and group operations officer with the 8th Fighter Group in the South Pacific Theater.

After the war he joined the Curtiss-Wright Corp. in Caldwell, N. J., where he was a test pilot and later supervisor of the flight test organization. He worked for a year in Denver, Colo., as an engineer for Stearns Rogers Mfg. Co. before coming to Sandia Corporation.

JOHN McLAY to supervisor of Systems Research Division I, 5442. John, who was promoted to section



supervisor in systems research last May, has been in similar work since he joined the Laboratory in August, 1953. Previously he was a staff member in the Military Electronics Dept., Bell Telephone Laboratories, Whippany, N. J.

A native of New Jersey, John attended Worcester Polytechnic Institute, Worcester, Mass., where he received his B.S. degree in mechanical engineering. While at Whippany he did graduate work at Stevens Institute of Technology, Hoboken, N. J., and received his M.S. degree in electrical engineering.

During World War II, John served with an amphibious group in the U. S. Navy, Pacific Theater. He is a member of the Institute of Radio Engineers and a member of two IRE Professional Groups, Information Theory, and Antennas and Propagation.

Mother Honored

Chosen "Mother-of-the-Year" to represent North Dakota in the nationwide finals this week is Donald Fossum's mother, Mrs. Gussty Fossum of Maxbass, N. D. She is competing with 51 other mothers representing the 48 states and several territories. Donald, who lives at 1815 Ross Place SE, works in 1652.

Radio Engineers to Have Dinner Buffet at Club, Thurs., May 12

A dinner buffet meeting will be held by the Albuquerque-Los Alamos section of the Institute of Radio Engineers, May 12 at 6:30 p.m., in the La Cana Room of the Coronado Club. Tickets are \$1.75.

After-dinner speaker will be Gil Eggert, 1632, whose talk on "In Our Backyard" will deal with minerals and rocks of New Mexico and Mexico.

In addition to Eggert's talk, a business and technical meeting will be held. Presentation of officers nominated for election will be made, and R. N. White, manager of electronics engineering for Trans-World Airlines, will speak on "Airborne Radar Beacons."

Congratulations

BORN TO:

Mr. and Mrs. Burt Ferris, 1643, a son, Mark Eldon, April 14.

Mr. and Mrs. Rodney Whiteaker, 1643, a son, James Lee, April 16.

Mr. and Mrs. Wayne Cyrus, 1641, a daughter, Carol Ann, April 20.

Mr. and Mrs. Dominic BonTempi, a son, Paul Anthony, April 21.

Mr. and Mrs. M. J. Sylvester, 2452, a daughter, Janet Rose, April 21.

Mr. and Mrs. Charles Clendenin, 5242, a son, Bruce Keith, April 14.

Mr. and Mrs. J. F. Chavez, 2351, a son, Frank Anthony, April 17.

Mr. and Mrs. Floyd Forsythe, 5242, a daughter, Susan Jane, April 25.

Mr. and Mrs. David Williams, 5143, a daughter, Kirsten Valerie, April 25.

Mr. and Mrs. Charles Boettcher, 2531, a son, Joe, April 26.

Mr. and Mrs. Baron Brumley, 5223, a son, Barney Avar, April 26.

Weddings and Engagements

April 30 was the wedding date chosen by Marcia Whelan, 1925, and Harold L. Oldham, a member of the Albuquerque City Police Force. The couple was united in a ceremony at the First Methodist Church. Marcia, who joined the Laboratory last fall, is the daughter of Mr. and Mrs. Mark T. Whelan, 3805 Mackland Dr. NE. The Oldhams are now at home at 400 Ash NE.



Mrs. Oldham Miss Glenn

The engagement of Donna Jeanne Glenn, 3153, to A/2C Richard Schwendler was announced recently by her parents, Mr. and Mrs. I. Glenn of Fresno, Calif. Airman Schwendler, previously assigned to Sandia Base, is the son of Mr. and Mrs. Carl E. Schwendler, Westbury, Long Island, N. Y. The couple will announce their wedding date soon.

coronado club



May 6-21

| | | | | | | |
|--|-----------------------------|---|---|---|---|---|
| | | | | | Fri., May 6 SANDIALIERS CHORUS 8 p.m. | Sat., May 7 DANCE Charlie Beisel 9 p.m. |
| Sun., May 8 BUFFET Style Show 5 p.m. | Mon., May 9 Open | Tue., May 10 Chess Night 7:30 p.m. | Wed., May 11 Bingo 8 p.m. | Thurs., May 12 Duplicate Bridge | Fri., May 13 Social Hour Square Dance | Sat., May 14 Dance Skyliners 9 p.m. |
| Sun., May 15 Open | Mon., May 16 Open | Tue., May 17 Chess Night | Wed., May 18 Ladies Afternoon Bridge 1:15 p.m. | Thurs., May 19 Duplicate Bridge 7:30 p.m. | Fri., May 20 Social Hour 4:30 p.m. | Sat., May 21 Juke Box Dance |

EVENTS

Turbulent History Back of State's Newest City

Los Alamos, New Mexico's newest city, is located in an area which has a history extending back some three million years. This youthful town's historic surroundings provide SANDIA LAB NEWS readers with another tale of New Mexico.

(Part One of Two Parts)

Coronado, that inquisitive and persistent Spaniard, ventured close to Pajarito Plateau country back in 1540-1541, but he never saw the finger-like mesas which 400 years later would hold the city that made history.

He was led to the vicinity of what is now Las Alamos by a mustachioed Indian buffalo hunter named "Bigotes" who wanted to swap buffalo hides to the Spaniards for tobacco and salt. But that winter was bitter and cold and the Rio Grande froze solid. Horses and carts and laden burros could be marched across! The Spanish Conquistador leader decided to remain at Tiguex, his winter quarters near Bernalillo, to rest and keep warm.

At Tiguex, Coronado heard fanciful tales of a lost people of that area, Los Confiados, the Trusting Souls. But he couldn't believe tales of three-story houses, talking birds, ringing copper bells and house floors of black glass. He turned away from the storied towers of Frijoles Canyon and Tyuonyi, and the legendary cliff dwellings we know today as Bandelier National Monument.

Missed Pajarito

Coronado was content to explore the new and harmless River Pueblos: San Ildefonso, San Felipe, and the others. In all his wanderings, he never set foot on the volcanic headlands of the Jemez mountains, and the Pajarito Plateau.

Nowadays, in the Pajarito (Little Bird) country, where New Mexico Highway 4 winds to isolated Los Alamos, the countryside is markedly green. Potrereros, or high, narrow mesas, stand out above the flat valley floor. Small streams trickle through a land of deep canyons, and now in springtime, the black mesas are splashed with yellow yucca, red cacti, and thick growths of scrub oak and juniper.

Near here, more than 7,300 feet high, is Los Alamos and its 77-acre fenced technical area. Called The Hill, or the Atomic City, it serves as home to folks staffing Los Alamos Scientific Laboratory of the University of California. On these remote heights live more than 12,000 modern "cliff dwellers." They are the latest in a long line of peoples who have called the Pajarito Plateau "home".

World's Largest Volcano

Like the Pajarito residents of a thousand years ago, Los Alamosenos go about their daily affairs within the lifeless crater of the world's largest extinct volcano, the Jemez Volcano. Its black basalt rim reaches as far south as the canyon of Cochiti, east to the Rio Grande, west to the fringe of the Jemez mountains, and north to the Rio Chama.

The volcano consists of an interior cone with apron-like plateaus which range in height from seven to eleven thousand feet. This interior portion, the Sierra de los Vaiz (Valle Grande), is a pleasant, sheltered meadow land, spotted by deep canyons, and huge deposits of soft volcanic ash called tuff. Its layers of black basalt were formed 3,000,000 years ago during the Pliocene and Pleistocene Eras.

Great Migration

To this area—now a part of the Santa Fe National Forest—migrated

the last great civilization of the Pueblo cultures, remnants of a people who moulded the stone and adobe edifices at Chaco Canyon and Mesa Verde.

These Chaco refugees were used to a high standard of living. They were forced from their original homestead by the drought and catastrophic soil erosion. They gravitated to the lush Pajarito country because here they found, for a time, the wood, water, shelter and freedom they desired. Others of their tribes drifted to San Ildefonso, Zia, Jemez, and Sandia where new Pueblo units were founded.

Like their latter-day successors at Los Alamos, the Chaco Canyon Indians built a fantastic city along the rims of the mesas, and in the valley beside the small Rito de los Frijoles. When the Spanish adventurer, Antonio de Espejo, in 1583 sallied onto the Pajarito Plateau to seek out the mysterious Los Confiados, he found a mud fortress and Indian empire. To Espejo, Los Confiados was no longer a myth or an Indian legend.

Los Confiados had become a very real adobe stronghold, a three-story cliff palace that lined the cliffs and the floor of the valley. Hundreds of rooms had been built of mud—some of hand-shaped volcanic stone; others had been carved with crude stone tools directly into the soft tuff cliffs.

Indian Farmers

These people were farmers and ranchers, unlike present-day residents of the Pajarito country. They grew beans, corn, pumpkins, and cotton; they wove cloth and baked a red-glaze pottery. They wore turquoise and jet ornaments, possessed painted objects, sea shells, copper

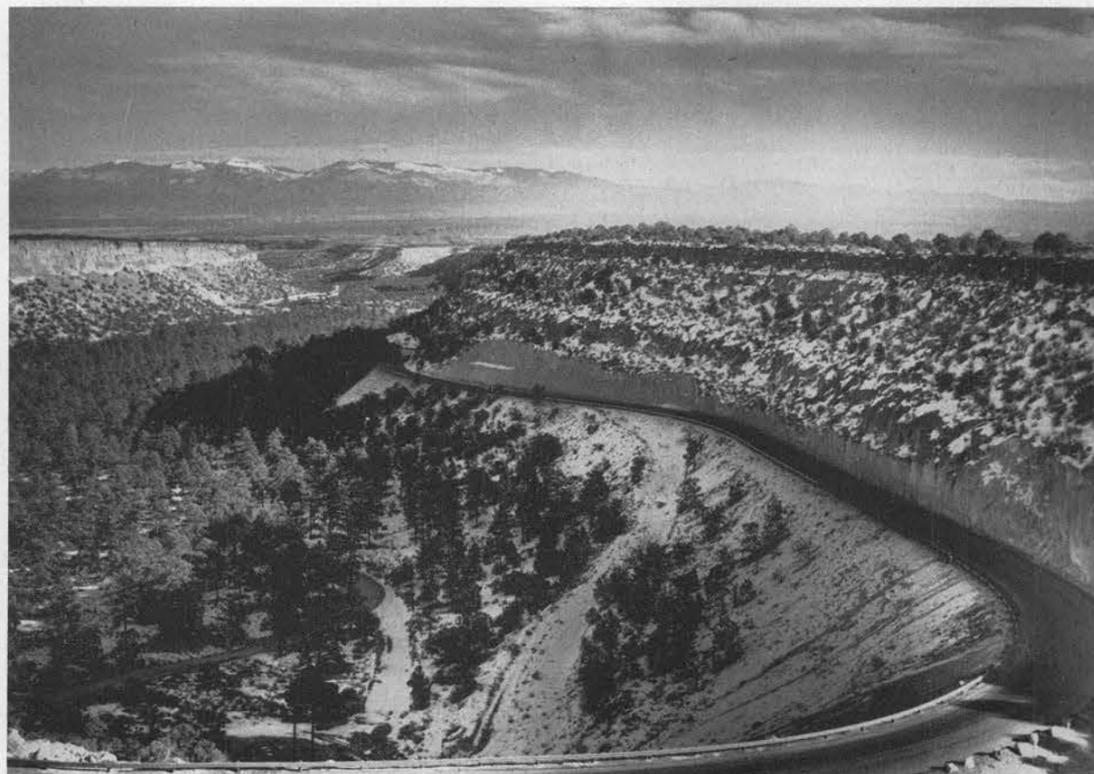


TABLE-FLAT mesas which surround the Los Alamos Scientific Laboratory are easily discernible in this photo of the Los Alamos-Santa Fe highway. In the distance stand the snow-covered Sangre de Cristos.

bells and talking macaws obtained in trades with Indian tribes far to the west and south.

At the House of the Bird People (Tshirege), House of the Earth People (Haatzte), the floors were smeared with animal blood, mixed with silt and soot, then polished with bones until they shone like glass. But, alas for Espejo, Los Confiados possessed no gold.

Today, Tyuonyi ruins and the others like it in the 27,000 acres of Bandelier National Monument are a honeycomb of crumbling adobe walls. The Frijoles Canyon ruins are a reminder of the Indian's continuing struggle to preserve his fading civilization.

And now again man has returned to the Pajarito Plateau. The atomic age man, like his Chaco predecessor, is seeking to better himself in the land where the trees are always green and fresh water flows.

(The final article in this series will tell of the modern Los Alamos.)



HONEYCOMB ruins of Puwige, Frijoles Canyon communal dwelling, hug floor of volcanic valley just 17 miles from Los Alamos.

Rocky Mountain Chapters of ASTE Meet Here in Day-Long Conference

Representatives of six Rocky Mountain chapters of the American Society of Tool Engineers will convene tomorrow at the University of New Mexico, with the Albuquerque chapter acting as the host organization. Members from the Denver, Los Alamos, Phoenix, Tucson, Salt Lake, and Albuquerque chapters will attend.

Under discussion during the day-long program will be membership, finance, engineer recognition, and education problems common to all chapters. The program begins with a breakfast at the Desert Inn at 8 a.m., followed by problem sessions from 9:30 a.m., continuing throughout the day. There will be a luncheon break at the dining room of the men's dormitory on the University campus, at noon.

In attendance at the meeting will be Wayne Ewing and Ralph Chrissie, national committee members of the ASTE national council.

Climax of the conference will be a dinner dance in conjunction with member N. M. Technical Council societies at the Fez Club at 7 p.m. All members and their wives are invited. The MBC Trio will play.

Reservations and further information may be obtained from Julian C. Moody, chairman of the local ASTE unit, at ext. 37160.

Symphony Presents Final Concert of Season Next Monday

The Albuquerque Civic Symphony under the direction of Dr. Hans Lange presents its final concert of the season in Carlisle Gymnasium, Monday, May 9, at 8:15 p.m.

A talented young pianist, Ivan Davis, Jr., of Hobbs, N. M., winner of the Young Artists Auditions sponsored by the Civic Symphony last May, will be presented as soloist in Rachmaninoff's Piano Concerto in C Minor. Mr. Davis also was winner of the competition sponsored by the National Federation of Music Clubs in Albuquerque, and winner of the Rocky Mountain competition in Denver this spring.

AIEE to Hear Maddox Speak on New Mexico Electrification Council

At a meeting of the northern New Mexico section of the American Institute of Electrical Engineers, May 13, at 7:30 p.m., a discussion will be held on the aims and achievements of the Inter-Industry Electrification Council of New Mexico. The meeting will be held in Room 201 of the Electrical Engineering building on the University campus.

Leading the discussion will be Jack Maddox, president of the Council. Mr. Maddox is also president of the New Mexico Electric Service Company of Hobbs, N. M.

Also appearing at the meeting will be Sam Sharp, district vice-president of the AIEE, who will speak on various Institute matters.

Refreshments will be served.

Air Conditioning Engineers Meet

A dinner meeting will be held by members of the Albuquerque chapter of the American Society of Heating and Air Conditioning Engineers on May 16 at 7 p.m. The gathering will be at Leonard's Restaurant.

Speaker at the affair will be C. Milton Wilson, Anemostat Corporation of America, who will discuss "High Velocity Air Conditioning Systems." Slides will be shown, and a practical demonstration will be made.

High velocity air conditioning systems represent a modern trend in air conditioning engineering, in which air under high pressure is forced through small ducts. In multi-story buildings, high velocity air conditioning systems can materially lower construction costs.

Ticket prices have been set at \$2.25. Reservations may be obtained through Jack James, Alb. 3-2247.

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

10 Years Ago Today Sandian Saw Germans Sign Surrender

Jack Wesbrook, a quality control analyst in 2542, remembers May 6, ten years ago today, as the day he watched glum German generals, grinning Russians, poker-faced British, French and American high officers assemble for the signing of Germany's unconditional surrender documents. At the time, Jack was an infantry captain, a plans and training officer with the 156th Infantry Special Battalion. His job: to guard the life of General of the Armies Dwight David Eisenhower.

To the battered red brick school house in Rheims, France, came Colonel General Alfred Jodl, chief of staff of the Germany Army; Admiral H. von Friedeburg, commander of the German Navy, and a covey of aides. Here they met with representatives of Eisenhower's Allied Army and brought the war to a close.

Wesbrook relates that the German delegation arrived in early afternoon on May 6, 1945. But last-minute disagreements postponed the actual signing ceremony until 2:25 a.m. the following morning. Wesbrook kept his guards alerted for the entire period.

At 2:25 the Allied officers directed the Germans to their seats, brusquely told them to sign. General W. Bedell Smith signed as General Eisenhower's representative for the United States, General Francois Sevez for France, and General Ivan Susloparoff for Russia. The scratching pens brought to an end a war that had lasted 5 3/4 years.

Held Ringside Seat

Jack Wesbrook, in his capacity as S-3, was privileged to hold a ringside seat during the Rheims Surrender. As plans and training officer, Wesbrook directed the security efforts of 28 officers and 600 men, all of whom were charged with Eisenhower's personal safety. The general, or "The Boss", objected to the elaborate precautions taken for his welfare. But Jack recalls that "The Boss" wishes in this respect, at least, were disregarded.

The responsibilities of the battalion, in addition to Eisenhower's personal protection, included measures for the safety of all VIP—Very Important Persons—who visited Eisenhower's headquarters: men like Winston Churchill, Viscount Montgomery, DeGaulle, Patton, Bradley, Marshal Zhukov, and the others Jack's officers and men checked and rechecked the entrances and exits, vehicle driveways, shrubbery, and kept men posted throughout the area, spaced at six-foot intervals.

Jack ordered permanent guards posted in each passenger car "The Boss" employed on his infrequent trips throughout France, in the DC-3 aircraft, and a picked soldier in each car of the 13-car special train which American troops had "liberated."

Assignment Began Oct., 1944

Jack's assignment to the guard battalion began in October, 1944, and lasted until his return to the states in October, 1945. During that time, he was responsible for arranging guards for Eisenhower's various official residences. Among these was a large rococo structure at Spa, Belgium, selected as a future Eisenhower headquarters. But a violent chain of circumstances over which Jack Wesbrook had little control prevented Ike from making use of the elaborate Spa dwelling.

At the time Jack was ordered to set up the new headquarters in Spa, Eisenhower was commanding six armies in three groups along a 450-mile front from Venlo in the north to Belfort in the south. His generals included Montgomery, Simpson, Patton, Bradley, Devers, Patch, and the French general, De Tassigny. Opposing the Allied Forces were 24 well-equipped and fanatical German Armored divisions, all of them emotionally charged by a "Fatherland and Fuehrer" propaganda indoctrination. The massed German units constituted a 10-1 numerical superiority over the loosely-knit, but highly-coordinated Allied forces.

Battle of Bulge Begins

On Friday, Dec. 15, the Moselle Valley of France was shrouded in heavy mists and a slow annoying drizzle. On Dec. 16, an overwhelm-



Jack Wesbrook Photo by Dunlap
—the German generals were glum—

ing German artillery barrage was loosed on Allied positions. In an hour, German armored columns, spearheaded by 75-ton King Tiger tanks and vanloads of singing German infantry, broke through the Allied lines, decimating two American divisions, and headed for the central Allied supply dumps at Liege. "American gasoline," boasted the arrogant Von Rundstedt, German field marshal, "will help sweep the Allied Armies into the sea." It is conceivable he might have accomplished it.

But on Dec. 18—a decisive day on the Continent for all of the Allied war machine—American cooks and bakers, garage mechanics, laundry operators, clerks, quartermaster personnel armed only with pistols, carbines, M-1 rifles—no cannon, no artillery, only courage—went into the sagging front lines and beat off the swarms of German attackers.

Meanwhile, in Spa, Belgium, Capt. Jack Wesbrook paused for a cup of coffee during a leisurely inspection of the new chateau. Casually glancing out of the window, he suddenly dropped both cup and coffee when he saw four German Tiger tanks push through the walls surrounding the chateau, and begin searching for a road to the sea. The unarmed Wesbrook and his pilot made a hasty dash for their small airplane, and took off for the American lines. The last-ditch German war effort, the Battle of the Bulge, ended on Christmas Day, 1945.

Jack remembers "The Boss" as a sandy-haired, pleasant man with the abiding calm of the administrative leader, who by good fortune, was also supremely gifted as a tactician and strategist. Eisenhower, Jack recalls, was a lieutenant colonel on March 10, 1941, and in 23 months, because of his astounding administrative abilities, had risen to full general, commanding all the Allied Armies of Europe.

Ike Was 'Team' Man

"He was tough on any man who thought in terms of British Army, American armor," Jack explains. "Ike insisted on 'Allied Army', 'Allied Armor'. He always emphasized the teamwork concept."

Jack Wesbrook, now a member of Albuquerque's 4052nd Army Reserve Unit, participated in the assault on Normandy's Utah Beach on D-Day, going ashore at Red Easy. Wounded at Cherbourg, he was sent to England for hospitalization and was reassigned to Eisenhower's

Sandians Who Serve

This is another in a series of articles describing the community activities of Sandia Corporation employees.

Margaret Whalon, 2521-2—Newly Elected President

Margaret, who has been at the Laboratory for seven years, was recently named president of the Reserve Officers Association Ladies for the Albuquerque district.



She has been a member of the organization for four years and served two years as secretary.

There are about 75 volunteer members in the club and their main projects include help to orphaned children and a study of national defense.

Last Christmas, Margaret and her associates made doll clothes and stuffed toys which they turned over to the Veterans of Foreign Wars for distribution to orphanages.

"We are concerned with all phases of civil defense and are looking forward to the summer meetings when we'll have discussions on defense," Margaret says.

Margaret's husband is John J. Whalon, AEC, a major in the Army Reserve.

The Whalons have two sons, Jimmie, 11, and Leslie, 9. They live at 1601 Hoffman Dr. NE.

The Art Perrys—A CAP Family

Co-ordinator of Civil Defense and Air Rescue Officer for the New Mexico Wing, Civil Air Patrol, are two time-consuming civic duties for 2462's Art Perry, who is a major in the organization.



In fact, it's a CAP family for Art, his wife, Juliet, and oldest daughter, Ann.

Juliet is a captain and wing public information officer and Ann is a first sergeant in the CAP cadets. Yet to join their parents and sister in CAP work are nine-year-old Nancy and seven-year-old Jimmy.

When an emergency involving aircraft arises, Art is notified by the 42nd Air Rescue Squadron and he immediately contacts the local Air Force rescue service, the CAP, and civil agencies who combine their efforts in locating the troubled airplane.

Many of the calls come at night and then Art finds there are six to eight hours' work ahead readying the search which will be launched at daybreak. In addition he maintains contact with the various agencies involved in the emergency and when the mission is completed he must fill out reports and do the follow-up paper work.

Coming Events

Sunday, May 8
Flower Show, Alb. Council of Garden Clubs, First National Bank, 2-9 p.m.

Monday, May 9
Civic Symphony, Carlisle Gym, 8:15 p.m.

Wednesday, May 11, through Friday, May 20 (excepting Sundays)
"Playboy of the Western World," Rodey Hall, University of New Mexico Theatre.

Sympathy

To Robert McBride, 2417, for the death of his mother in Seminole, Okla.

The family of Gerardo Sanchez wishes to express its appreciation to Sandia Corporation employees for the expressions of sympathy received during the family's recent bereavement. Mr. Sanchez worked in 2231.



FEATURED tonight at the Sandialiers Musical Variety Show at the Coronado Club will be these women, L. to R., Nan Pierce, Betty Roy, Bea Wright, Accompanist Louise Major, 2613, Beverly Kelly and Betty Walker.



THE SANDIALIERS Men's Chorus and their accompanist, Louise Major, 2613, will provide entertainment tonight, beginning at 8, at the Coronado Club. The Musical Variety Show includes, first row, L to R, Terry Riggan, 1326, director; Bill Schwartz; Lou Olivier; Louise Major; Marty Wilhelm; Harry Norville; Gene Medina, 1614; George Harrington. Second row, L to R: Bill Bailey, 2563, vice president of Sandialiers; Rod Russell; Harry Weber, AEC; Frank Moon, 2333;

Bill Moore; Russ Richardson; "Steve" Stephens, AEC, president; Bryant Ferguson. Third row, L to R: Elmer Stymiest, 2322, secretary-treasurer; Bob Fegan, AEC; Gene Mead, 1631; Bob Roy, 1918; Harold Lyness; Doug Treat; Roy Frazier. Members not pictured include Cecil Russell, 1621; Cleo Hues; Larry Kayser; Al Alford, Ray Rachkowski, and George H. Roth, 5520. Included in the program will be several variety skits featuring different members of the Sandialiers chorus.

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 Corporation and AEC employees only
6. No commercial ads, please

Next Deadline: Noon May 13

FOR SALE—

EVINRUDE Aqua-sonic motor, 7½ HP, 1955 model, new, has gear shift and separate cruise-a-data tank, must sacrifice. White, Alb. 5-8491.

TWO BEDROOM home, no down payment, GI appraised at \$9100, 2727 Santa Clara Ave. SE. Balaban.

FORD SKYLINER, 1954 (plastic top) cadet blue bottom, white top, R and H, Fordomatic, many extras, only 5000 miles, \$2400. Chandler, ext. 5-4286.

NEW DOUBLE roll-away bed with inner-spring mattress \$40 or best offer. Ivey, Alb. 5-3145, 1850 Florida NE.

CADILLAC, 1951, and 1953 Plymouth, consider trade older model. Brummett, 730 Quincy NE, Alb. 6-6680 after 5.

NATURAL FINISH CRIB with Storkline innerspring mattress, adjustable, sliding panel, includes crib sheets, rubber sheet \$20. Adams, Alb. 6-1053.

WESTERN SADDLE, 27 lb. \$55; bridle \$9; electric chicken brooder, 100-chick capacity \$8. Meek, Alb. 3-4336 evenings.

TAPE RECORDER, only slightly used, Webster electric 7½ speed model, machine and stock of unused Scotch sound tape \$110. Norvill, ext. 32161.

THOR AUTOMAGIC washer \$35; Lionel train, never used, cost \$59.95 new, will sacrifice for \$30. Mitchell, Alb. 2-9769.

MALE DOG, part boxer, tan color, athletic type, excellent companion for a boy \$10. Kral, 4700 Southern Ave. SE.

FARMALL TRACTOR, 1946, 2-way plow, mower \$850 terms; also other farm implements. Sanchez, Alb. 3-1470.

FIVE-SHELF STEEL CABINET \$7; gas stove \$55; baby buggy \$18; baby clothes, blankets, 5 cents to \$1; miscellaneous items. Rudeau, Alb. 3-2452.

GIRL'S BIKE 24-in. \$20; wading boots, size 10, \$7; two metal lawn chairs \$5. Glass, ext. 28190.

BUICK SUPER convertible, 1951, Dynaflo, R and H, power windows, power seat, clean \$900. Metz, 804 Madeira SE, Alb. 6-9475.

PONTIAC 4-door deluxe sedan, clean 1953 model, R and H, 20,500 miles \$1650. Cox, Alb. 6-1182.

MAPLE BED, box springs, mattress, chest-of-drawers \$30; window air-conditioner \$15 (1500 cu. ft.). Kelly, ext. 20153.

COTTON RUG, 9 x 12, beige, cut pile, with pad \$35; also drapes \$12. Willner, ext. 20153.

TELEVISION, 21-in. console \$95; also 17-in. table model \$65. Reimholz, Alb. 5-3142.

UMBRELLA TENT, 9 x 11, used once, mildew proof \$25. Sullivan, Alb. 6-9231.

MODERN MATCHING SET, corner, end and coffee table; 2-piece light green sectional; twin size, gray plastic headboards, all reasonable. Koetter, Alb. 6-6904.

KENMORE GAS RANGE and 7½ cu. ft. MW refrigerator, both for \$275, or will sell separately; also box springs, mattress \$40. Wheeler, ext. 43166.

EASY SPINDRYER \$40. Branks, 332 Gen. Hodge NE.

MOTORSCOOTER, 1947 Cushman, 2-speed transmission \$60. Tebben, Alb. 6-0834.

HOUSETRAILER, 34-ft., 1 bedroom, furnished with many extras. Wardlow, Alb. 6-5951.

1951 STUDEBAKER V-8 convertible, R and H, automatic transmission, new seat covers, w/w tires \$625. Wickett, Alb. 6-3056 after 5.

COFFEE TABLE 40 x 40 in., \$10; also 3-speed floor lamp \$5. Baxter, Alb. 4-1392.

AIR CONDITIONER, 2000 cfm, portable, almost new, half price. Linn, Alb. 6-1830, 1526 Solano NE.

ATTENTION, non-vets, GI resale, 4 bedroom, 2 baths, walled, Princess Jeanne Pueblo, see to appreciate. Hopper, 1218 Christine NE, ext. 46157.

MODERN COUCH and chair \$80. Meyer, Alb. 6-3926.

DINETTE SET with red Formica top, 4 chairs and extension leaf. Burke, ext. 6-4244.

RIFLE SCOPE brand new, Stith 2¼ X. latest model, never used, cost \$78, sell for \$48.50. Sisler, ext. 24149.

OR TRADE: 25 cal. automatic with holster, \$22.50 or best offer. Want old guns. Zaluga, Alb. 4-1564, 1321 Van Cleve NW.

SPEED GRAPHIC, 2¼ x 3¼, f 3.5 lens, R.F., flash, focus lite, roll film holder, filters \$175. Osterby, Alb. 6-8804.

1941 MERCURY club coupe, fine body, engine, only \$99. Martin, Alb. 4-0342, 3408 Cuervo NE.

AIR CONDITIONER, 2 speed, 2000 cfm, with pump, float valve, tubing and mounting, \$50 or best offer. Seaver, Alb. 5-6892.

TRAILER with roof, 4 x 7, tail light attachment, bumper hitch, spare wheel and tire, best offer. Ryan, 1521 Espejo NE, ext. 26151.

LATE '53 MG, only 9,000 miles, many extras \$1400. Carey, Alb. 6-2746.

BICYCLE, girl's, 26-in., new Columbia. Townsend, ext. 31194.

BICYCLE, boy's, 20-in., \$15; Craftsman lawnmower \$10. Richardson, ext. 36137.

LOST—

DARK BLUE PARAKEET vicinity 1315 Lead SE. Phyllis Beil, Alb. 2-0457 after 5.

BLACK AND WHITE male cat, 7 months old, red collar, Sandia Base rabies tag, also phone number (S. B. ext. 48192). Benneche, after 5.

FOR RENT—

THREE BEDROOM home near both bases, gas range, walled and landscaped yard \$100 per month. Groll, Alb. 5-9638.

THREE BEDROOM house \$30 unfurnished \$35 partly furnished, 2805 Second St. SW. Chavez, Alb. 5-5461.

TRADE—

EQUITY in 1954 DeSoto with everything but air conditioning, for 1950 or later model car. Martin, 2716 Monk Rd. NW., Alb. 4-3185.

UMBRELLA-TYPE TENT for food freezer or long and short wave radio (will pay difference). Chavez, Alb. 5-5461.

WANTED—

RIDERS to join car pool from vicinity 332 Gen. Hodge to Bldg. 802. Bob Branks, ext. 34134.

RIDERS wanted for round trip to Wisconsin or points enroute, leaving June 17. Adamshack, ext. 21147 after 5.

RIDE from vicinity Moon and Candelaria or Moon and Menaul to Bldg. 802. Susan Drake, ext. 34133.

RIDE from vicinity Silver and 14th St. SW to Bldg. 892. Anita Ransom, ext. 26159.

CAMPING TENT, sleeping bags, gas lantern. Westman, Alb. 5-6048.

RIDE from 2200-block LaVeta Ct. NE to Bldg. 800. Lillian Armijo, ext. 33248.

RIDE from Cochiti and Dakota SE to Bldg. 892. Clara Gearhart, ext. 26159.

RIDE or join car pool from Hoffmantown area to Bldg. 880 or 892. McIlroy, ext. 32161.

RIDE from 1421 Grand NE to Bldg. 800. Lorrie Durant, ext. 35237.

TO FORM or join car pool from Princess Jeanne Park to Bldg. 802 or 800. Sargent, Alb. 6-0609.

RIDE from Walter and Coal to Bldg. 802. Elsie Willis, Alb. 3-4260.

RIDE from Richmond and Highland or Richmond and Dartmouth Place to Bldg. 880, starting May 16. Ruth Acher, Alb. 6-1025.

RIDE from Highland or Coal Ave. at Girard or Dartmouth to Bldg. 880, starting May 16. Josephine Norwood, Alb. 5-4639.

RIDE from Highland or Coal Ave. at Girard to Bldg. 880, starting May 16. Mabel Brown, Alb. 5-4349.

RIDE or join car pool from vicinity 61st St. and Central West. Thomas, Alb. 2-8333.

RIDE from 5th and Lomas NW to Bldg. 800. Tony Atler, ext. 23137.

INTERESTED in buying bicycle having no chain or pedals which is parked west of Bldg. 880. Slates, ext. 56157 days.

RIDE from vicinity 3400 Cuervo NE to Bldg. 887. Winnie DeWitt, Alb. 4-4513.

TWO CAUTIOUS women drivers with new cars would like to join car pool from vicinity Rio Grande and Indian School Road NW. Rosendale, Alb. 3-5174.

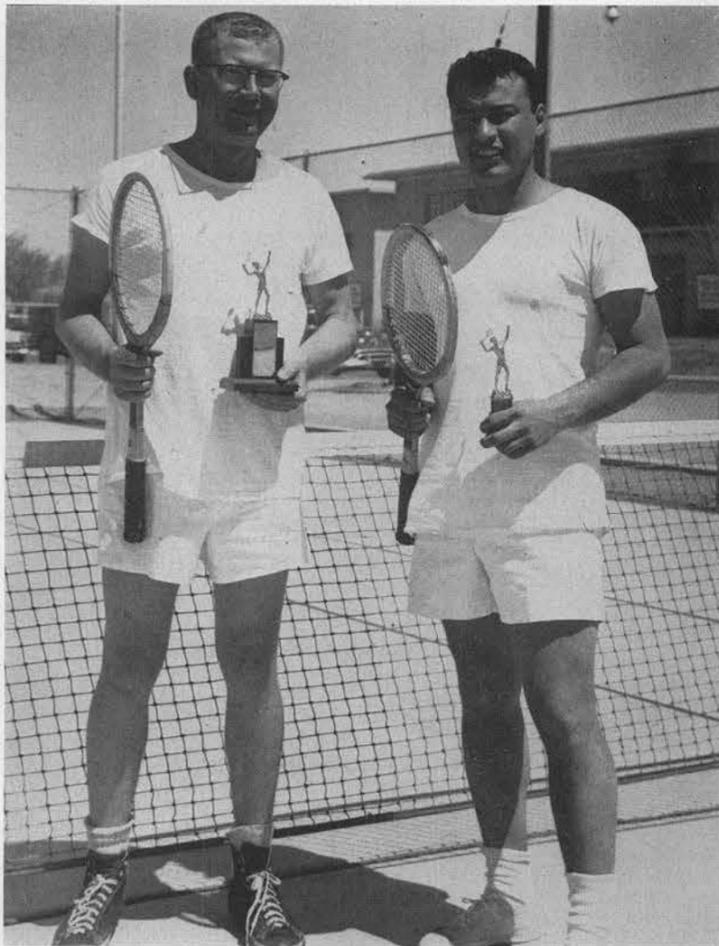
RIDERS wanted to Richmond, Va., or Norfolk, Va., leaving May 13. Marion Fogg, Alb. 2-7601.

Harold Cushman Retains Handball Lead, Eggert Second

Harold Cushman, 2552, continued to hold top spot in the Sandia Corporation Employees Handball League. Gil Eggert, 1632, took two close games from Howard Wicke, 5132, to gain second rung in the ladder. Match scores were 21-18 and 21-15.

In the doubles play, the Harold Cushman-John Souza duo notched a win over Challengers John McKiernan-Gilbert Eggert to retain first place on the ladder. In third place in doubles competition were Jim Kelly and Nick Pavletich.

Handball play continues on a challenge basis for all ladder participants. Player status may be checked with the recreation office at ext. 29157.



TENNIS FINALISTS Charles McKeever, 1713, and Willie Padilla, 1932, receive trophies after a recent Sandia Corporation tournament when McKeever took top honors, and Padilla was runner-up.

90 Employees in First Round of Employee Golf League Play at University Course

Ninety golfers of the Sandia Corporation Golf League entered their first round of play this week as links competitions opened for the 1955 summer season. Play was conducted on the north 18 holes of the University course.

League play has been set up in three flights: "A, B, and C", with competition limited to three-man teams. There is one four-man team in "A" flight, however.

Tourney play is on a handicap basis, with handicaps computed on ¼ of the difference between the golfer's average score and par.

Matches will be played over nine holes, and must be played within the week scheduled. A flight log book, divided into flights A, B, and C, is posted at the North Course Club House. Players are requested to make match entries after each League links play. Schedules are available from the Rules Committee.

Any player in the League may use his established handicap and substitute on any other team to avoid cancellation of a match.

Questions regarding the Sandia Employees Golf League should be directed to any member of the Rules Committee: Bob Kelly, Tom Kelly, and Jim Kelly.

ISA Will Hold Final Meeting of '55 Season

Final meeting of the 1955 winter season for the Albuquerque section of the Instrument Society of America will be May 17 at 8 p.m., at the Coronado Club.

Newly-elected officers will be installed, and plans will be made for next year's professional activity.

Officers to be installed include: John C. Cunningham, 1342, president; F. N. Reeder, 2122, vice-president; Glenn R. Elliott, 1342, secretary; P. K. Church, Ultradyne Engineering Labs, treasurer, and Lee Deeter, 1340, national delegate.

Summer Bowling

Organization of a summer bowling league at the Coronado Club Lanes will take place May 9 at 7:30 p.m., when interested keglers meet in the Corral Room.

Plans for the operation of the League will be formulated, and an election of officers will be held.

Lois Sherwood to Be Women's Bowling League Head in '55-'56

Elected to lead the Jewellets Bowling League for the 1955-56 winter season were Lois Sherwood, president; Norma Anderson, vice-president; Violet McCutcheon, secretary-treasurer, and Marian Muchowski, sergeant-at-arms.

The election culminated a successful bowling season, as the Onyx team topped league standings with a 75-37 record. Captain of the team was Rose Hainlen. Team members include: Julia Sensel, Pat Horn, Margaret Reese, Mamie Burg, and Petie Fink.

Team standings in the Jewellets League were:

| Team | Won | Lost |
|-----------|-----|------|
| Onyx | 75 | 37 |
| Emeralds | 76½ | 44½ |
| Turquoise | 59½ | 52½ |
| Sapphires | 54 | 58 |
| Zircons | 54 | 58 |
| Diamonds | 50 | 62 |
| Garnets | 46 | 66 |
| Jades | 42 | 70 |

Julia Sensel rolled high average for the League with a scratch record of 155 pins. Julia also tallied the highest single game for the season: 228.

Softball Teams to Start Competition Monday, May 9th

Play begins in both Leagues of the Sandia Corporation Softball Association at 7 p.m., May 9. Some 280 Sandians on 15 teams will participate in the 1955 summer season competitions.

Game times have been set at 7 p.m., and 8:30 p.m., the recreation office announced, with three games scheduled for each two-weeks period throughout the summer.

Additional umpires are needed for both leagues. Interested personnel are urged to contact the recreation office at ext. 29157.

Professional Engineering Society Sponsors Forum

A panel discussion and open forum will be sponsored by the New Mexico Society of Professional Engineers, May 23 at 7 p.m., at Mitchell Hall on the University campus.

Sitting on the panel will be a representative of each participating professional organization. They will discuss ways of improving the cooperative work of the societies within the Society and inter-organization unity.

Registration Forms

A. Burton Metzger, 3170, has obtained a supply of application blanks for engineers who are interested in becoming registered in the State of New Mexico. The forms will be sent to individuals upon telephone request to Mr. Metzger's office, ext. 23258, Bldg. 834.

California News From Sandia's Field Office, Beverly Hills

Gerry Hahn, formerly with 2410 at Sandia Base, is our new Sandia Lab News reporter in the Golden State. Gerry's an old hand at the job, having reported for several years while she and her husband, Harry, were employed here. She was one of five reporters who received a special recognition certificate at the annual Sandia Lab News luncheon in 1954.

Julie Terlesky, 2554, enjoyed a four-day trip to fabulous Las Vegas, Nev., recently . . . she reports "beginner's luck" and plans another visit to the Strip soon.

Sympathy is expressed to Lee D. Davis, 2563, and Mrs. Davis, whose granddaughter, Virginia Rose Linder, died April 16 in Los Angeles.

Jeff T. Gammon, 2331, back from a visit to Albuquerque, gave a first person summary of wind 'n' sand to the expatriates in the Beverly Hills office.



"WATCH THIS NEW FELLOW, HE WAS WITH THE RAILROAD A NUMBER OF YEARS."