

EDPM Personnel Takes 4-Week Course On 705 in New York

Sandia Corporation employees who are to be working with the IBM 705 Electronic Data Processing Machine have been undergoing four-week training courses at IBM World Headquarters, New York City.

Frank H. Grubbs, Manager of Electronic Data Processing Department 4140, reports that personnel from that department is working with representatives of other organizations in teams to do EDPM work.

These teams are undertaking the detailed task of preparing programs for the 705 and checking them out on a test machine at IBM headquarters.

Matt Torres (5512) and Charles T. McKiernan (4141) recently assembled and checked the first group of quality assurance programs on the 705 in New York.

Present plans call for the EDPM to be installed in Bldg. 880 and ready for Sandia use by May, 1958. Sandia has been working on programs of applications since October, 1956.

Bids Asked For 7 Construction Projects

Bids on construction projects for Sandia Corporation expected to cost approximately \$420,000 will be opened this month, the Atomic Energy Commission has announced. Plans and specifications for seven projects are listed.

The first is for an office and laboratory building to house the Van de Graaff Accelerator, a research tool to be used by Experi-

mental Weapons Research Department 5130. The building will contain 3,600 sq. ft. of space and will be designated Bldg. 803. It will be constructed of reinforced concrete and masonry with steel joint and concrete roof system. Complex electrical and mechanical systems, and utility connections are included.

The new building will be lo-

cated in what is now the second shift parking lot west of Bldg. 808. Exterior fencing will surround the building so that it can be isolated from the Tech area to maintain security when outside groups are in the building. Cost is expected to range from \$105,000 to \$115,000.

Area III Additions

A second project includes modi-

fication of Bldg. 6560 in Area III, erection of 680 sq. ft. pre-fab building with utilities to house a new environmental test facility and the construction of a power sub-station to service the new installation. Cost will be from \$45,000 to \$55,000.

Another project in Area III will be an Assembly building to be designated Bldg. 6620. Construction will be reinforced concrete, 1638 sq. ft. of space, high-bay type with two bridge cranes and utilities. Between \$85,000 and \$95,000 will be the cost.

One project involves construction of 585 sq. ft. addition and storm entry to Bldg. 865, the wind tunnel facility. Supply and installation of a transformer to serve the new area is included as well as electrical and plumbing services. Cost is estimated from \$10,000 to \$15,000.

Bldg. 894 Modification

Modification of Bldg. 894 for temporary conversion to office space and light laboratory facilities is another project scheduled. Fluorescent lighting and additional power and electrical equipment will be installed at a cost estimated from \$20,000 to \$30,000.

Final project will be the installation of a public address system with speakers throughout Tech Area I. Broadcast equipment will be located in Bldg. 801. Installation of amplifiers, horns, outlets, control boxes, connecting circuits plus sidewalks and foundation work is included. The public address system is expected to cost from \$25,000 to \$35,000.

Two Sandians Earn MS Degrees at UNM

Degrees were awarded Howard F. Devaney (1472-2) and Richard H. Williams (1473-1) during commencement exercises at the University of New Mexico on June 5 in addition to Sandians previously listed.

Mr. Devaney received a Master's degree in Mechanical Engineering. He previously obtained a BS degree from Texas A. & M. He has been at Sandia eight and one-half years.

An MS degree in Electrical Engineering was given Mr. Williams. He previously received his BA and BSEE from Valparaiso University. He has been with the Corporation since June 1, 1953.

Sandia Employees Win Decision In Federal Income Tax Refund Case

U. S. Judge Carl A. Hatch ruled last week in favor of two Sandia Corporation employees who were suing the government for refund of federal income tax paid on moving and travel expenses reimbursed to them as new hires of the Corporation.

The non-jury trial was held in the U. S. District Court in Albuquerque.

Sherrill O. Woodall (7412) and Glenn S. Mills (1441), the Sandia employees, had filed the suits as test cases representative of some 700 other employees of Sandia Corporation who had been reimbursed for moving and travel expenses incurred in connection with reporting for work here after being hired elsewhere.

Woodall and Mills were members of a group of Sandia employees who all had income tax liabilities in this matter under the ruling of the Internal Revenue Service. The employees had organized and retained an attorney to prepare the test cases.

It is estimated that nearly \$100,000 in taxes is involved for the 700 employees now working for San-

dia and some 200 others who are former employees of the Corporation. All were hired since 1953 and were reimbursed for traveling and moving expenses incurred in coming to Albuquerque.

Judge Hatch ruled that Mills and Woodall realized no gain from the reimbursement and that it should not be treated as taxable income. Woodall was hired in Dallas and was seeking to recover \$119. Mills came to Sandia from the University of Kentucky and was seeking to recover \$114.

The decision is believed to be the first of its kind in United States and will, if sustained, have far reaching effects. Most large employers have been reimbursing new employees for travel and moving expenses incurred while traveling to the city of their new employment.

The government has indicated it will appeal. An appeal may be taken within 90 days of the decision so that it cannot be considered final unless the government fails to appeal, or if it does appeal, a similar decision is rendered on the appeal.

Two 16-Inch Naval Gun Barrels Joined To Form New Area III Shock Test Facility

An Air Gun weighing 200 tons and measuring almost 100 feet in length will be the newest addition to the environmental test facilities in Sandia's Laboratory's Area III. The gun will accelerate test units to extremely high velocities as a method of simulating shocks occurring in various environmental conditions.

The Air Gun is fabricated from two 16-inch naval cannons flang-

ed together, muzzle to muzzle. The barrels were machined to an inside diameter of 26" to Corporation specifications by the Naval Gun Factory in Washington, D. C. Walt Walker (1613), project engineer for the Air Gun, was in Washington last week making final inspection of the unit prior to its shipment to Albuquerque.

Compressed air can be built up at the breech end of the gun to a

pressure of 3000 lbs. per square inch and released suddenly to "fire" the gun. Test units will form a "piston" or "cartridge."

Test shots can either be "closed end" or "open end."

A closed end shot will allow the piston to build up air resistance as it travels down the muzzle of the gun. A muzzle tank attached to the end of the gun will trap excess air pressure and allow rapid "damping" or halting of the test unit. This feature will provide a method of high velocity tests without destroying the test unit. The piston will reach a maximum velocity within a few feet of the breech.

For an open end shot, a door at the end of the long building will be opened and the unit fired into an excavated target area. It is anticipated that the muzzle velocity can reach 500 feet per second. The initial acceleration shock is expected to equal 4,000 G's.

The gun will be mounted on a roller-cradle system resting on concrete piers. This mounting will absorb recoil.

Construction bids were opened this month for the three buildings to house the test facility.

Completion of the project is expected to be Nov. 1.

M. R. Madsen (1613-1) is section leader for the project under Paul Syroid of the Facilities Division 1613. The Test Laboratory Department 1610 will have supervision over the test facility when it goes into operation.



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QUALITY ASSURANCE Programs for Sandia Corporation were tested recently on an IBM 705 Electronic Data Processing Machine at IBM World Headquarters in New York City. Seated at the 705 console is Matt Torres, Data Processing Division 5512; standing, Charles T. McKiernan, Electronic Data Processing Dept., 4140.

Prize Winning High School Student Working Here During Summer Months



Royce Fletcher
—outstanding science student—

One of the outstanding science students in the nation has joined Sandia Corporation for the summer.

The student, Royce Fletcher, is first place winner of the New Mexico Science Fair, the State Science Talent Search, honorable mention in the National Science Talent Search and winner of a scholarship competition sponsored by the Los Alamos-Albuquerque Section of the Institute of Radio Engineers.

Royce will be a laboratory technician in Industrial Hygiene Division 3161 at Sandia. He will perform chemical analysis and radiographical measurements.

"Experiments in Ultra-Sonics" is the title of the honors winning project Royce completed as an Artesia High School student. He built an ultra-sonic generator and exposed various materials to ultra high frequency sound waves. The vibration produced changes in the material. His technical paper, also entitled "Experiments in Ultra-Sonics" earned the IRE scholarship.

He plans to enter Massachusetts Institute of Technology this fall. Physics, with the emphasis on electronics, will be his main academic interest.

Royce became a student of electronics through an uncle, a physician who was also an avid ham radio operator. Royce earned his FCC amateur license at the age of 12 and radio has been a continuous interest. His call letters are W5UTS.

Other hobbies include photography. He was official photographer for his high school yearbook last year.

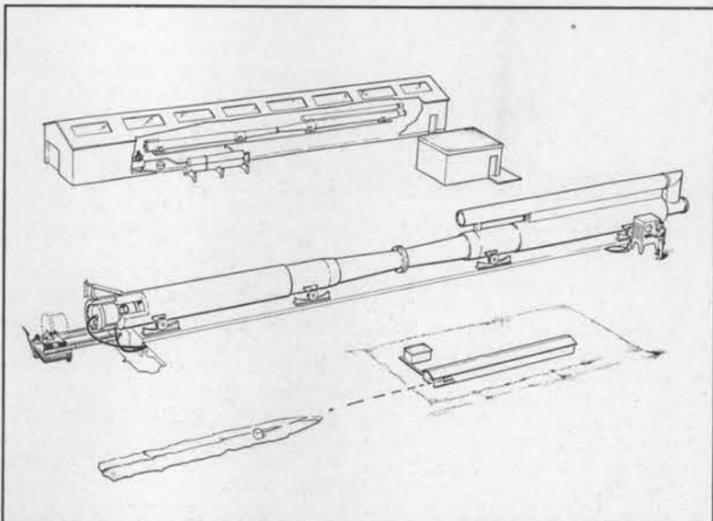
Restriction Placed On Cafeteria Parking Lot

The Sandia Base Provost Marshal's office announces that one hour parking signs are being installed in the parking lot east of the Sandia Base Cafeteria (Bldg. 209).

The lot at 5th and G Streets is intended for use by cafeteria patrons and MP's will enforce the parking limitation.

AIEE Officers

Neith Pollard (1413), outgoing chairman of the Northern New Mexico Section of the American Institute of Electrical Engineers, recently turned his office over to M. C. Heffleman of the Public Service Co. Jack Barber (1611) is the new vice chairman.



AIR GUN test installation for Area III as the artist conceives it is shown here. At the top is a cutaway drawing of the building to house the gun. In the center is the gun showing the two 16-inch naval cannons flanged together. At the left is the breech end of the gun containing the compressed air chamber. Lower drawing shows an open end shot with the projectile fired into the target area.



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Cherry Fellner, Don Graham, Assistant Editors
Robert S. Gillespie, Editor



Flag Day - A Day of Privilege

Today, June 14, is Flag Day.

This seems like an appropriate time to recall our last issue request for civilians on Sandia Base to join with members of the military forces stationed here in paying respect to the flag at reveille and retreat hours.

A few moments of our time is little enough to ask.

In effect, what we should do when we hear these calls which announce the raising or lowering of the flag, is pause, face the flag and stand at attention.

Unknown to most civilians is the fact that there are six federal laws dealing with the flag. The first makes it illegal to register a trade mark if it contains a United States flag. The second authorizes the display of the flag on Mother's Day. The third affixes penalties for desecration of the flag in the District of Columbia. The fourth provides for dismissal of any employee or official of the government who, when the country is at war, criticizes the flag in an abusive manner. The fifth penalizes for the display of or honor to flags of international organizations or other nations in equal or superior prominence in the United States or its territories or possessions, except at the Headquarters of the United Nations.

The sixth and most recent, Public Law 829, passed Dec. 22, 1942, contains the Federal Flag Code. In addition each state has its own laws concerning respect to the flag.

Flag Day which marks the birth of the Stars and Stripes (this is the 180th anniversary) is a day set aside to pay honor to the colors.

However, our obligation to the flag extends to every day of the year. Respect to the colors should not be a burden nor should it be borne lightly.

It shouldn't even be considered an obligation. It is a privilege.

Weddings and Engagements

Announcement is made of the engagement of Sylvia Killgore (5513) to Simon J. Gormley, Jr., of Hammondsport, N. Y.

The couple plans to be married Aug. 10 at the Newman Club on the University of New Mexico campus. The groom is a student at the university.

Sylvia has worked for the Corporation a year. Her home is in Alamogordo.



Miss Killgore Miss Easton

Another June bride will be Ruth Ann Easton (7423) who will marry Wylie R. Dougherty at the Monte Vista Christian Church on June 30 at 2:30 p. m.

Ruth Ann has been with the Corporation since last December. Her fiancé is with the Air National Guard unit at Kirtland Air Force Base.

Emma Sanchez (7121) and Andy Mora (2112) surprised friends by eloping to El Paso where they were married May 27. After a short trip to California they returned to Belen, where they are making their home.



Sgt. and Mrs. Frederick and Fr. Miles

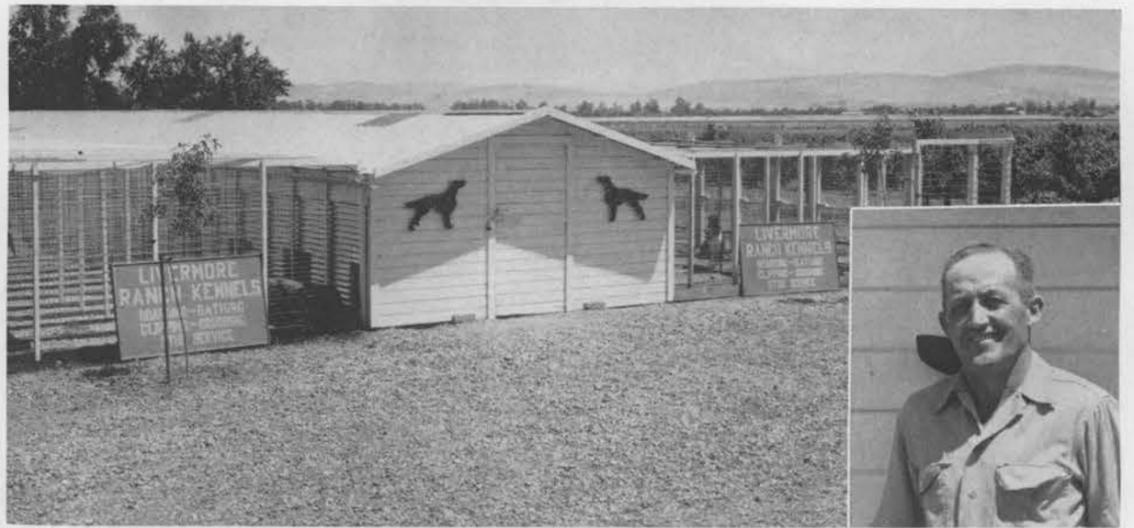
Wedding bells rang May 27 for Valerie Griffiths (7311-1) and Sgt. U. J. Frederick of Manzano Base. The morning ceremony was held at the St. Charles Church with Father Miles officiating.

Maid of honor was Viola Maestas (2461-3). After the ceremony the couple left for a honeymoon in Phoenix.

Valerie, whose home is in Alameda, has been at Sandia a year and a half.

New Cedar Crest Home

Members of Department 5520 attended a housewarming on June 2 given for Donald S. Dreesen (5522) at his new home at Cedar Crest.



LIVERMORE RANCH KENNELS operated in the attractive valley location. Air-conditioned kennel spare time of Ted Saselli are shown here in their housing is provided. That's Ted in the inset.

Congratulations

Born to:

Mr. and Mrs. A. M. Schonberg (1220) a daughter, Laura Jo, on May 17.

Mr. and Mrs. George W. Randle (1225) a daughter, Adrain Marie, on May 16.

Mr. and Mrs. Gordon Gaskill (2711) a son, David Scott, on June 1.

Mr. and Mrs. John Melvin (5241) a daughter, Gail Suzanne, on June 1.

Mr. and Mrs. Donald F. Wilkes (1473-1) a daughter, Norma Jean, on June 2.

Mr. and Mrs. Darrell Joyner (2723-4) a daughter, Debra Ann, on April 30.

Mr. and Mrs. Billie Palmer (2461) a son, Dean David, on May 12.

Mr. and Mrs. Glenn Bridgeman (2152-3) a son, Carl Ernest, on May 30.

Mr. and Mrs. John Archuleta (3122) a daughter on June 7.

Mr. and Mrs. E. P. Wolff (7411) a daughter, Arletta Lorraine, on June 5.

Mr. and Mrs. John Campbell (7411) a daughter, Jennifer Lynne, on June 5.

Sympathy

To Sidney Bowie, Jr. (1245) for the death of his young daughter, Rebecca Ann, in Albuquerque on June 3.

To John Cooper (2711) for the death of his father-in-law in Mexico, Mo., on May 26.

To Jack Merillat (3151) for the recent death of his mother.

To Carl King (2742) for the death of his father-in-law in Lovington on June 1.

To Harvey Tappan (1462-2) for the death of his mother in New Jersey on May 29.

To Mrs. Manuela A. Arbelo for the recent death of her husband, Pedro, a former toolkeeper in Division 2234.

To David R. Gomez (2524) for the death of his son, Andrew J., on May 31 in Albuquerque.

Welcome Back

Organization 2711 welcomes back Alcadio Romero and Walter Paxton after recent illnesses. Still recuperating from recent surgery is Fleta Forsman (2711).

Welcome back to William M. Anderson (2723) who was hospitalized for a few days.

First-time Grandfather

Proud first-time grandfather Marion Lantz (2152-3) can hardly wait for his July vacation to see his daughter's new baby in Santa Cruz, Calif.

New AOA Officers

W. M. O'Neill (5530) and Clark D. Read (2211) are newly elected Directors of the Albuquerque Post of the American Ordnance Association. Ken Overbry (1651) is the new treasurer of the organization.

Sandianotes . . .

Ted Saselli Boarded Dogs, Cats As Favor Before Making It A Business

To Sing With Symphony

The Albuquerque Civic Symphony has chosen a Sandian to be featured singer at its annual Christmas concert.

Elaine Schwid (3154), a contralto, was picked for the honor following a young artists' audition held recently in which she placed second in competition.

Scouts Honor Browning

The Cub Scouts and den mothers of Pack 120, Den 7, have shown their appreciation for three years of service rendered to them by LeMoyne Browning (2711). They gave him a 35mm camera.

During the same recent meeting Sandia's Director of Quality Assurance L. J. Paddison, who is pack chairman, introduced the new cubmaster, Henry Stork of Albuquerque, and assistant cubmaster, Frank King (2523).

Serviceman Returns

Back as a staff member in 5511 after two years' absence is Harold C. Psillas.

"Harry" has been in the Army during his absence, first at Camp Chaffee, Ark., for basic training



H. C. Psillas

then stationed at White Sands Proving Ground.

He and his wife will be increasing Albuquerque's population an additional "one"—they have a three-month-old baby. Harry comments, "The best thing that happened during my two years in the Army."

Get Well Wishes

Employees in 2150 send best wishes for a speedy recovery to Elmo C. Hubbard (2154-2).

June—the Wedding Month

There is no doubt June has been a popular month for marriages throughout the years.

Hal Ragsdale (5126) and his wife will observe their ninth wedding anniversary on June 18.

Edith Blum (2100) and her husband will celebrate their 20th anniversary on June 25.

On June 16 H. A. "Blitz" Krieger (1261 on loan to 5120) and his wife will note the 12th anniversary of their marriage.

Marjorie Endes (5125) and her husband Carl (1613-3) will observe their 22nd anniversary on June 22.

Reuben Villanueva (2711) and his wife celebrated their 11th anniversary on June 7.

Wins Florida Trip

Lucky H. C. Sealey! The security guard and his wife won an expense-paid week's trip to Miami in a recent drawing held in connection with opening of a new grocery store in Albuquerque.

The Sealeys are still awaiting details of their prize trip.

"Three Acres Gone to the Dogs" is the motto of the Livermore Ranch Kennels, operated by Ted J. Saselli in spare time from his Transportation Dispatcher duties at the Livermore Branch of Sandia Corporation.

Ted has facilities for 34 dogs and 12 cats in his attractive kennels. Air-conditioned kennel housing is provided plus individual runs for the animals.

The idea of operating a kennel was thrust upon him. Ted recalls. Friends were in the habit of leaving their pets with him over week-ends and during vacations for him to board at his ranch in the Livermore Valley. This was fine with Ted who loves pets. Prior to opening his kennels, he was one of the largest parakeet breeders in Northern California.

One day, though, Ted came home to find that his wife was caring for 11 dogs and three Siamese cats. The dogs were tied to various trees and fenceposts and the cats were in parakeet cages. It was then that he decided that he needed facilities to handle all the pets.

Carefully Ted drew up his plans to meet the specifications of the Alameda County Health Department, County veterinarians and the Board of Supervisors of the County Planning Commission.

Originally he planned to build ten runs and add up to 60 runs as the demand grew. He feels, however, that the 34 runs now in operation are all that he and his wife can handle without hiring additional help.

Ted began employment at the Livermore Branch in October, 1956. He was with the University of California Radiation Laboratory previously for two years. With the exception of two years in the Navy, he has always lived in the North Bay area.

Sandian 'Mr. New Mexico'

The title of "Mr. New Mexico 20-30" went this year to H. A. "Blitz" Krieger (1261 on loan to 5121). The award for outstanding service was given Blitz during the group's convention in Santa Fe last week-end. He is a member of the Heights No. 331 Chapter.

New Homes

Mr. and Mrs. Elmer Roisum (2711) have moved into their new home at 9701 Snow Heights Blvd. NE.

Also getting settled in a new residence are Carl Drew (2711) and his family. Their address is now 3006 Florida, NE.

John Farmer (2154-2) and his family have recently moved into a new home at 1506 Erbbe, NE.

Aficionados, Attention!

Any bull fight fans interested in joining an Albuquerque organization of aficionados is urged to contact Cleo Hughes (7311), Alb. 9-5054. Bull fight schedules from the major Mexican bull rings are available by direct mail from the rings. Tentative plans include chartered bus trips to attend the fights.



H. H. Patterson and Glenn A. Fowler
—rendezvous at Bridge Canyon—



Ben Benjamin and W. T. Smith
—adventures on the Colorado River—



Colorado River Junket In Rubber Raft Has Its Thrills for Sandians

Down the Colorado River 130 miles in a rubber raft was the recent adventure of Ben Benjamin (5216) and W. T. Smith (5215). Glenn Fowler (5000) and H. H. Patterson (5250) met the two by arrangement at isolated Bridge Canyon from where the group hiked eight miles to view Rainbow Bend and National Monument.

Ben and "Smitty" launched their provision-laden raft at Hite, Utah, and drifted downstream with the winding course of the river—through steep 1,000 ft. cliffs, rapids, and dramatic rock formations. The trip took five days.

The other two Sandians drove to Crossing of the Fathers, Utah, and came upstream 30 miles in a motor boat to Bridge Canyon.

The group remained two days at Bridge Canyon and then returned to Crossing of the Fathers for the drive back to Albuquerque.

Emil R. Pearson Retires June 28

Emil R. Pearson will retire from Sandia Corporation June 28 after nearly five years of service. He is a staff member in the Manufacturing Engineering Components Department, Component Section I, 2542-1.



E. R. Pearson

Before coming to Albuquerque he worked for the Sunbeam Corporation in Chicago.

A native of Kansas, Emil plans to leave New Mexico and live near Palo Alto, Calif.

The first few weeks after retirement he intends to visit his two sisters in Los Angeles and then pursue his hobby of photography—with maybe a little fishing on the side.

AIEE Plans Tour, Santa Fe Picnic

A tour of the Foremost Dairy Plant in Santa Fe and a picnic is scheduled for the Albuquerque Area Chapter of the American Institute of Industrial Engineers Saturday, June 22. The tour will begin at 10 a.m. at the Dairy, Al Kaping (2514), chairman, reports. After the plant inspection and a discussion of its operations, a picnic will be held in the Santa Fe area.

IRE Picnic June 23

Annual picnic of the Albuquerque-Los Alamos Section of the Institute of Radio Engineers will be Sunday, June 23. Picnic grounds four miles north of the village of La Cueva on State Highway 126 along San Antonio Creek will be the scene of the event. Festivities will begin at 11 a.m.

Installation of officers for the coming term, refreshments, organized recreation with prizes will be highlights of the picnic. W. T. Moffat (5240) is chairman of the picnic committee.

Jose E. Mestas to Retire on June 30

A familiar face will be missing after June 30 when Jose E. Mestas (2474), one of the few day-shift janitors at the Corporation, will retire.



J. E. Mestas

"Joe" has worked at Sandia for seven years.

Joe and his wife live 11 miles south of town where there is plenty of room for fruit trees and a garden. Their only son is in the Navy, stationed at San Diego, Calif.

A resident of New Mexico since 1937, Joe may do some visiting in Colorado, his former home.

Supervisory Appointments

THOMAS B. HEAPHY to supervisor of Section 7223-4, Technical Information Division.

"Tom" joined the Corporation more than five years ago and has been working in technical editing or technical writing the entire period.



Previously he attended the University of New Mexico where he received his Master's degree in English and took toward his Doctorate. Tom also obtained his Bachelor's degree at UNM although most of his undergraduate courses were at Fordham University as a pre-med student.

Tom served four years in the Navy Medical Corps during World War II in the Pacific Theater.

HOMER ATOR to supervisor of Ancillary Equipment Section 2522-2, Programming Department.



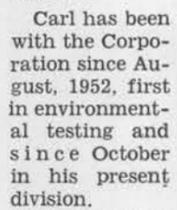
During six and one-half years with the Corporation Homer has worked mainly as a technical staff assistant in Manufacturing Engineering Systems Department.

For two years prior to coming to Sandia he was in the experimental assembly department of McDonnell Aircraft in St. Louis.

Homer was also employed for two years in sales and service for an X-ray concern, formerly located in Albuquerque.

He served three years in the Army Air Force during World War II and previously attended Illinois State Normal University and Minnesota State Teachers College. Homer has also been attending night school at the University of New Mexico for the past four years.

CARL ENDERS to supervisor of Area I and II Activities Section 1613-3, Test Laboratory Department.



Carl has been with the Corporation since August, 1952, first in environmental testing and since October in his present division. Previously he had been an engineering buyer for Wilson & Company meat packers in Chicago since 1934 except for four years he served in the Army during World War II. He was a radar officer in the signal corps during this period.

He holds a Bachelor's degree in Electrical Engineering from the University of Illinois and is a member of Eta Kappa Nu, Electrical Engineering honorary, and Tau Beta Pi, Engineering honorary. Carl is also a registered professional engineer in New Mexico.

WELCOME NEWCOMERS

May 27-June 7

Albuquerque	Joseph A. Abbott	1421	George P. Warner	7410
	Arthur J. Ahr	1832	Harry E. Weaver, Jr.	7410
	Bertha R. Allen	7223	Barbara A. West	2711
	Robert W. Allen	1613	Ira B. White	1282
	William C. Andrews	7410	John M. Willis	1456
	Emilio R. Baca	2419		
	Betty M. Bailey	3151	Paul L. Patterson, Tucson	5132
	Doris F. Baker	2711	Richard B. Reinman, Tucson	5242
	Ramon Baldonado	7122		
	Charles A. Bankston, Jr.	1422		
	Sally Ann Beavers	7225		
	Jerome F. Beckes	7410		
	Annette Benninghoven	7225		
	Joseph T. Black, Jr.	2131		
	George A. Block	2131		
	Robert T. Brandt	5112		
	Edwin L. Brawley, Jr.	7410		
	James G. Brock	7232		
	Frederick C. Brockhausen, Jr.	7410		
	Catherine W. Brown	2353		
	Marlin Q. Bryan	7315		
	Joseph P. Burger	1626		
	Barbara L. Bury	4112		
	Marilyn Butler	7225		
	Thomas D. Clark	7410		
	Charles D. Clay	2418		
	Vadare M. Cornelison	2333		
	John B. Downer	7410		
	Mary A. Duran	7225		
	Ann Easley	7225		
	Doris K. Edward	7225		
	Nelson W. Eskridge	2418		
	Sheila A. Farley	2418		
	Howard Finston	3123		
	Robert B. Foster	1651		
	Donald E. Garcia	7410		
	Grady T. Gatlin	7232		
	Janet R. Gober	2471		
	Foy D. Graves	2461		
	Helen S. Greer	7225		
	John D. Gruer	7410		
	Barbara K. Hale	7225		
	Jefferson A. Hamlin	2418		
	Russell L. Hankins	5112		
	Robert Hansen	2418		
	Mary E. Hurst	3153		
	Joyce R. Kemper	3120		
	Carol A. Kluver	7225		
	Robert E. Kyrilach	2130		
	Jack B. Little	1422		
	Kenneth L. Ludwick	1611		
	Marion K. Marks	3150		
	Betty J. Mathews	7225		
	Berwyn K. McKinney	3150		
	Vernon T. Micklebost	2723		
	David G. Miller	7410		
	Alma A. Mischke	4135		
	Aileene L. Montano	7225		
	Charles A. Nelson	7410		
	Frank F. Norris	2418		
	Raymond H. Pickens	2418		
	Ryan Pierson	5112		
	Helen L. Reynolds	3120		
	Donna S. Rinn	7225		
	Lucy T. Rivera	7225		
	Richard Rudolph	5231		
	Robert H. Ryan	5242		
	Dolores Salazar	3150		
	Paul D. Shoemaker	2418		
	William J. Sieger	1472		
	Antonio Silva	2418		
	John W. Skidmore	7410		
	Jeanne P. Smith	7225		
	Russell T. Souders	1611		
	Eunice J. Staggs	7225		
	James W. Stapp	1613		
	Barbara Sandusky	7225		
	John F. Taylor	7410		
	Judith L. Thompson	7225		
	Peter Townsend	5112		
	Lorena F. Trujillo	7225		
	Edward J. Wolgan	5111		
	Joan T. Wolowicz	7225		
			California	
			Julius W. Lenz, Concord	1812
			Signa O. Matthews, Livermore	1831
			Margarita B. Paredes, Pleasant Hills	1831
			Richard L. Read, Vallejo	1822
			Merle P. Richard, Vallejo	1822
			Colorado	
			Arthur J. Burgess, Denver	4114
			Florida	
			George W. Dyckes, Gainesville	1625
			Indiana	
			James A. Arnold, Lafayette	1421
			Iowa	
			Gary W. Williams, Mt. Pleasant	2543
			Kansas	
			Leland G. McCall, Manhattan	1262
			William J. Spencer, Manhattan	5132
			Louisiana	
			Margaret O. Hale, New Orleans	7225
			William L. Stevens, Baton Rouge	1245
			Maryland	
			John P. Johnson, Aberdeen	5233
			Massachusetts	
			James K. Cole, Bedford	1473
			Minnesota	
			Carl W. Karneva, Cromwell	2121
			Missouri	
			William J. Barlow, Mexico	1411
			Arthur M. Breipohl, Higginsville	1291
			Browning Miller, Rolla	7410
			Ray D. Mitchell, Joplin	2154
			David M. Morrison, Rolla	2551
			James J. Ridinger, Rolla	5521
			New Mexico	
			Royce Fletcher, Artesia	3161
			Charles H. Grissom, Moriarty	2461
			Donald C. Wunsch, Las Cruces	1652
			New York	
			Albert D. Catuna, Malverne	1282
			Robert M. Halsey, Tonawanda	2713
			Edward T. Ronan, Lewiston	1282
			North Carolina	
			James C. Belote, Raleigh	1291
			Ohio	
			Michael Modis, Jr., Cincinnati	1831
			Oklahoma	
			Roger N. Briggs, Ada	1243
			Lloyd D. Bright, Stillwater	1455
			George E. Ingram, Stillwater	5132
			Kenneth H. Koerner, Oklahoma City	1284
			Roger L. Kurtz, Stillwater	1611
			John E. Liston, Stillwater	5222
			R. W. Sargent, Stillwater	1217
			Andrew D. Sayers, Stillwater	1463
			Richard M. Simmons, Konawa	2441
			Oregon	
			Bernard L. Raiche, Gold Beach	1822
			Pennsylvania	
			Donald R. Leise, Ephrata	7412
			Tennessee	
			George P. Chambers, Maryville	1611
			Texas	
			John Arnett, Austin	2551
			Jack C. Brady, Dallas	2552
			David H. Denton, Lubbock	1423
			Charles R. Steele, Bryan	1471
			John A. Shute, San Antonio	7410
			Virginia	
			Joseph S. Browning, Yorktown	2553

Gardening Tips

Now's Time To Work On Iris Beds To Insure Good Blooming Next Year



Pat and Ellis Turner
—Blossoms of every color, except green—

Now that the iris' have about finished blooming in Albuquerque gardens it's time for the gardener to do his part to assure full flowering next season.

Ellis A. Turner (7422) and his wife, Pat (a former Sandian), have extensive beds of iris of various colors in their backyard, along with roses and peony-type poppies, which are now in full blossom.

Regarding iris they recommend that the "rhizome" — that's the underground rootlike stem — be divided every three years. The ideal time is after the plant has flowered. The leaves should be cut

down to about six or eight inches in length. Let the rhizome dry a day or two, then replant with the top of the rhizome just peeking out of the soil.

Unless divided and replanted, the leaves need not be cut back. Instead wait until they dry in the winter and pull off.

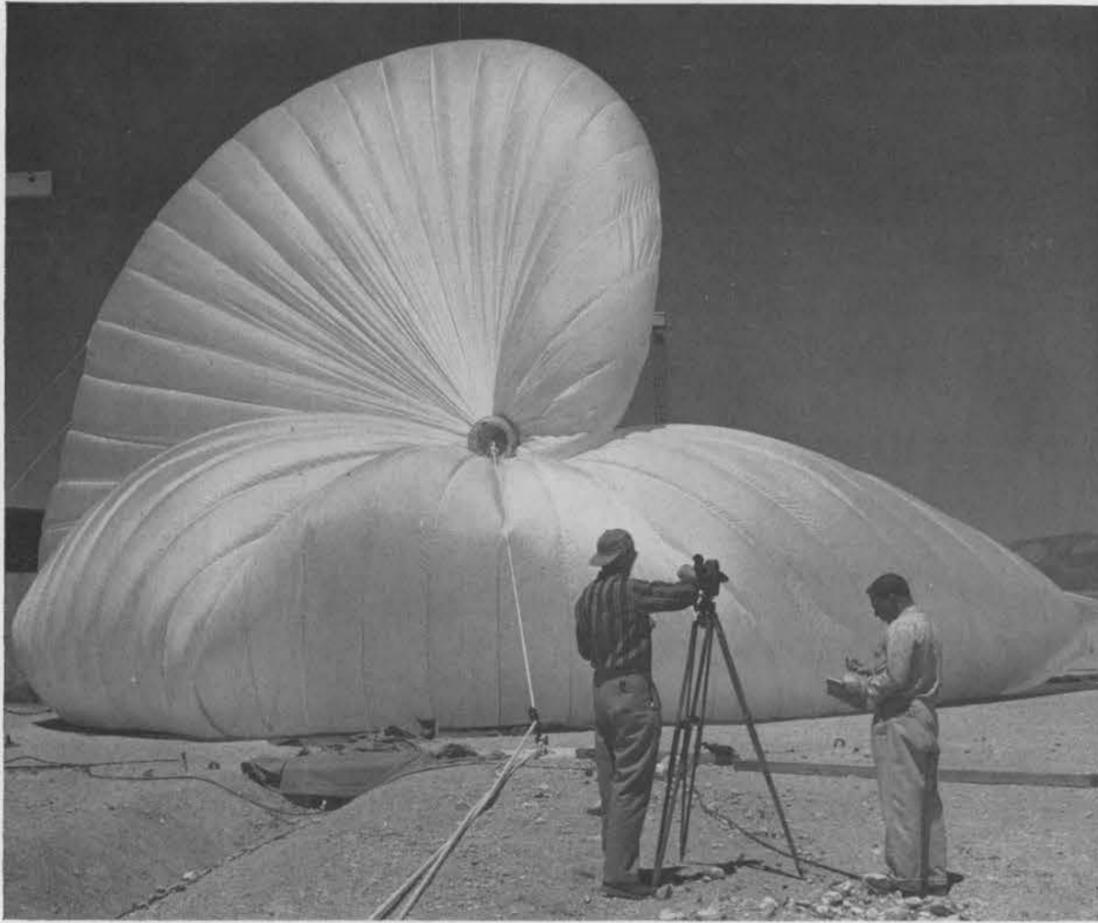
Compost may be mixed with the soil any time of year, but the Turners especially caution the use of fertilizer. Either commercial or organic fertilizer may be used but neither should be spread on top of the rhizome. It should be spread in a circle away from the plant to best benefit the roots.



"I know it's unlocked but I didn't leave it."

Start Filming 'Sandia Story' At Nevada Test Site

Hollywood Unit Shoots Sandia Activities For Recruiting Movie



Filming of a balloon ascension and other Sandia Corporation activities at the Nevada Test Site was recently completed by a special camera crew from the Lookout Mountain Laboratory, Hollywood, Calif.

Mountain Laboratory employees assigned to the project are George Pratt, director; John Norwood, director of photography, and Pat Bradley, cameraman.

The scenes taken in Nevada will be included in a 30-minute full color recruiting film which will present the "Sandia Story" through the eyes of a young engineer who comes to work at Sandia Laboratory. Through his experiences the audience will learn about Sandia's job and see how it is accomplished. The film is expected to be available for showing in September.

George Pratt, a graduate of and a former instructor at the University of Southern California's School of Cinema, is also directing several foreign language films for the AEC. He received an exhibition award at the Edinburgh Film Festival for a medical film "The Thinnest Slice."

Dean Thornbrough, Full-Scale Test Department 5230, is cast as the engineer.

John Norwood is also a former cinema instructor at the University of Southern California and at one time was associated with J. Arthur Rank.

Arrangements for the film, including production coordination and preliminary scripting, are being handled by the Public Relations Division 3125. Lookout

Pat Bradley, also a graduate of USC, has filmed many full-scale tests overseas and at the Nevada Test Site. Lookout Mountain Laboratory is an Air Force installation but does some work for other government agencies and contractors.

NO GIANT SNAIL—This partially filled balloon from which an atomic device will be suspended will soon rise high above the valley where the giant

mushrooms grow. By the camera is George Pratt, Lookout Mountain Film laboratory. Right, Thomas E. Zudick, Sandia Corp. Public Relations Division.



INFLATION is accomplished by inserting a metal probe with thousands of holes into a plastic filler tube attached at the bottom of the big balloon.

BALLOON INFLATED, the cameraman shoots the crew attaching a platform which will carry an atomic device during the current nuclear tests.

FIRING PLATFORM ATTACHED, the balloon begins its ascent.



DESIRED HEIGHT is soon reached. All is now ready for the test.

SERVICE AWARDS

Ten Year Pins



Cedric H. Senter
1451
June 16, 1947



R. E. Womelsdoff
7313
June 19, 1947



Letha V. Hacker
3153
June 17, 1947



Kathleen M. Sadler
7225
June 24, 1947



Frank C. Dain
2111
June 17, 1947

Five Year Pins

June 14-20

Warren B. Ballard 7311, William F. Stinnett 2531, William P. Stearns 1423, C. E. Ingersoll 5231, William H. Cross 1612, John A. Beyeler 5224, Elwin L. Checketts 1423, Gordon R. Zahm 2153.
Burrell R. Snelling 2151, Robert E. Fair 2481, Frank C. Low 1612, John C. Abeyta 2711, Andrew M. Imrisek 1612, Leon B. Hobbs 2543, Robert G. Tant 2234, Howard T. Bowman 2111.
LaVon W. Burrell 4114, Wilbur V. McGuire 7412, Edward E. Lister 2234, and Henry H. Passmore 7412.

June 21-27

William C. Clark 1612, Louis E. Doherty 2531, Robert E. Fox 1472, Donald E. Gregson 7113, Earl H. Simonson 4152, Robert S. Pinkham, Jr. 1471, Charles E. Smith, Jr. 5513, Max D. Hodge 4114.
James P. Gallagher 5143, Wallace R. Finley 1421, Albert J. Tucker 7325, John E. Anderson 4110, Joe D. Highfill 2553, Ronald K. Skelly

Two Year Certificates

June 14-20

Frank J. Tufts 4152, Nemesio Martinez 2415, W. Daril Gutscher 5221, Marjorie M. Benson 2461, Roy M. Tidwell 5231, Frank D. Baca 7231.

George Volda 1462, Edward S. Phinney 7131, Audrey A. Rouckus 7411, Roman S. Heuer 1217, Kenneth H. Cordes 5144, Richard T. Othmer 1282, Betty F. Fulton 4152, Gertrude M. Minshall 7232, and Lucille E. Kennedy 2731.

June 21-27

Eldon B. Frame 5521, Elden L. Praivitz 7231, Jay D. Gilson 1224, Philip T. Boling 1461, Robert J. Rozensky 2152, George W. Elliott 3152.

Ronald E. Hanson 1263, J. A. Herbolzheimer 1821, Harry J. Rouckus 7411, Richard F. Ashmore 1441, Helen M. Hayes 4131, Warren H. Arthur 2417, Sara E. Anaya 2341, and Wayne R. Lewis 2481.



Jerald K. McDowell
2131
June 25, 1947



David C. Williams
5130
June 16, 1947



Marv Steputis
—the power of Team 3100—

3100 Softball Loss Throws League Into Tie for Top Spot

Previously unbeaten 3100 fell 14-13 at the hands of 5200-1 last week to throw the Sandia Employees Softball Association into a two-way tie for first place. Teams 3100 and 1400 lead the league with 7 won, 1 lost records. In close second place is 5200-I with 6 won, 1 lost.

Defeat of 3100 ended a six game winning streak of pitcher Marv Steputis. Much of 3100's power is credited to Marv's big bat and dependable pitching. In the 5200-I game, both he and pitcher Wally Jungmeyer were hit freely. The close game see-sawed into a slugging duel with Jungmeyer, John Melvin and R. D. Robinett having the heavy bats that made the difference for 5200-1.

Coronado Club Elects Six New Board Members

Coronado Club members elected six new members to the club's Board of Directors and re-elected two others during the annual meeting last Monday.

Re-elected were H. E. Sloan (2723) and H. E. Martin (AEC).

A. C. Taylor (2153) and R. E. Thompson (4111) will serve two year terms on the board. Elected directors for one year were: Martha Whitford (1200), Gale Ward (2463), E. R. Clark (5512) and C. J. Northrup (5213).

William Jobe (2411) and Frank Abbott (AEC) have an additional year to serve as board members. A. C. Hull (AEC) and W. G. Funk (3120) hold appointive positions as directors.

Some 121 eligible voters cast their ballots during the meeting.

Noon Movie Schedule Gives Wide Variety Free Entertainment

A wide range of subjects—from sports to historical figures — will be offered on the two free noon hour movie schedules.

A Wednesday noon showing in Bldg. 802 basement conference room will feature "Bowling — A Family Matter" on June 19 and "A Boat in the Family" on June 26.

A Corporation-sponsored program features "Bowling Aces," "Simba — Killer Lion," "Barber Shop Quartet" and "Trouble Indemnity" on June 18 and 20 in Bldg. 849 orientation room and June 21 in Bldg. 802 conference room.

The offering will be "Johnny Appleseed" and "Robert E. Lee" on June 25 and 27 in Bldg. 849 and June 28 in Bldg. 802.

All shows start at 12:10.

Team	Won	Lost
3100	7	1
1400	7	1
5200-1	6	1
2500	6	2
2200	5	2
2100	5	2
1200	5	3
1600	5	3
4100	4	3
2300	4	4
7200	3	4
AEC	3	5
5500	3	5
5100	2	5
2700	2	6
5200-II	1	6
2400-1	0	8

Military Access Road For Official Use Only

The portion of the military access road, which extends from the intersection of Wherry Housing access road and continues around the east and south side of the base is for official use only, the Provost Marshal warns.

The road is posted "Restricted, For Official Use Only." Military Police state they will cite civilians who are using the road for unofficial business. Civilians cited will be prosecuted by the United States Commissioner.

UNM Professor to End Sandia Lecture Series Next Week

Dr. Ignace Kolodner, Consultant to Department 5120, will complete a series of lectures next week on "Kinetic Theory From the Point of View of Boltzmann Equations."

The seven lectures have been presented to Corporation engineers, physicists and mathematicians and were sponsored by Systems Analysis Department 5120.

Dr. Kolodner is a professor of mathematics at the University of New Mexico.



INTENSIVE STUDY in drafting is represented in these hands full of certificates which T. T. Robertson, superintendent of drafting and specifica-

tions, presented employees completing the Corporation's 3-months training course. High School or college students were chosen for aptitude.

Paving Projects for This Summer Include Parking Lots, Roads

Bids will be opened next week for several paving projects for Sandia Corporation.

Areas to be paved include the parking lot east of the Personnel Bldg. 832, the parking lot west of Bldg. 887, a parking strip north of Bldg. 880 and a loading zone adjacent to Bldg. 894.

In addition two roads will be paved, one running east of Bldg. 887 to the east access road and the other south of Bldg. 887 around the Tech Area fence to Gate 7.

The paving projects will require an estimated 21,000 square yards of double penetration asphalt paving, 3500 lineal feet of pre-cast concrete parking bumper, 100 lineal feet of metal storm drains and 1200 square yards of reinforced concrete paving.

The cost is estimated to range between \$30,000 and \$40,000. Completion date will be about Sept. 1.

Colloquium Meets

The Sandia Corporation Research Colloquium will meet Wednesday, June 19, at 9:30 a.m. in the basement conference room of Bldg. 802.

"The Preparation of Semiconductor Materials with Comments on Radiation Damage" will be the subject of W. E. Medcalf, director of Semi-Conductor Research for the Eagle-Picher Co., Cincinnati, Ohio.

Admission tickets will not be required, Craig Hudson (5511) of the Colloquium Committee reports.

Special Training Class Completes Three-Month-Long Drafting Course

Robert S. Gillespie Named Vice President Of Editor's Council

Installed this week in Boston as vice president of the International Council of Industrial Editors was Robert S. Gillespie, supervisor of Employee Publications Section 3125-1. He has been editor of the Sandia Lab News since he joined the Corporation in 1950.



R. S. Gillespie

Bob is currently president of the Border Council of Industrial Editors and chairman of the Association of Nuclear Editors. He was formerly with the University of New Mexico as a faculty member in the Journalism department. Prior to that he was co-owner and editor of the LeMars (Iowa) Sentinel.

He is presently chairman of the ICIE Education Committee and represents the ICIE on the American Council for Education in Journalism. He is also a member of the Association for Education in Journalism.

Bob holds a Bachelor's degree in Journalism from the University of Illinois, a Master of Arts degree from the University of Iowa. He is a member and former president of the New Mexico Chapter of Sigma Delta Chi, national journalism fraternity.

Certificates were awarded the end of May to members of Sandia's special training class who completed intensive courses in drafting.

T. T. Robertson, Superintendent of Drafting and Specifications, told the student-employees that they were all capable of becoming good design draftsmen and that the training course offered them was a token of Sandia's confidence that they would apply themselves and continue to study.

The three-month training during work hours has been conducted by Art Russell (7412) and Joe Calek (3124).

Advancement of the draftsmen trainees from their present grade 83 to the next step, grade 85, will be based on their performance of more complex drafting assignments.

Members of the class included: Frank R. Blair, Thomas M. Bolz, Jack D. Burt, Kendall Gentry, LeRoy L. Keck, Don Ouellette, Donald W. Shadel, Paul L. Spencer, James N. Volkman, MacDonald Weaver, Charles E. Wimmer, Jimmie L. West, Jerry W. Cummings, Bill R. Moreland and Samuel O. Samuelson.

Rental Apartments, Homes Needed

Rental houses and furnished apartments are needed for large numbers of married students who are arriving now for summer employment with Sandia Corporation. If you have a rental unit available contact the Off Base Housing Office, Ext. 29157.

SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER
<p>CLASSIFIED ADVERTISING</p> <p>Deadline: Friday noon prior to week of publication.</p> <p>RULES</p> <ol style="list-style-type: none"> 1. Limit: 20 words 2. One ad per issue per person 3. Must be submitted in writing 4. Use home telephone numbers 5. For Sandia Corporation and AEC employees only 6. No commercial ads, please 7. Include name and organization. <p>FOR SALE</p> <p>'49 NASH "600", \$130 or make offer. Williams, Alb. 9-6893 after 5:30 p.m.</p> <p>LUGGAGE TRAILER, stove, lantern. Range, Alb. 9-0062.</p> <p>OUTBOARD MOTOR, 5 horsepower, Carrier, \$75. Walrath, Alb. 4-4980.</p> <p>'41 CADILLAC Convertible, \$135. Polnaszek, Alb. 6-5857.</p> <p>MAYTAG WASHER, wringer-type, will deliver it, \$25; see at 509 San Pablo, NE, after 5 p.m. Mares, Alb. 6-5627.</p> <p>POWER LAWN MOWER, 18", Reel type, 4 cycle, Briggs & Stratton engine, \$50. Heaston, Ext. 3-3247.</p> <p>TABLE MODEL TV, 8" RCA. It works! \$25 or best offer. Carpenter, Alb. 9-3519.</p> <p>WINDOW FAN, 3000 CFM, reversible, 3 speeds; used only three months, \$25. Kavet, Alb. 9-1793.</p> <p>2 GUN RACKS, \$5 each; B-flat clarinet w/case, \$60. Crouse, Alb. 9-1259.</p> <p>HOSPITAL BED, roll-up adjustment head, foot, good quality mattress, \$60; all metal wheel chair, collapsible, \$75; Wahlenmaier, Alb. 5-7417, 508 Carlisle, NE.</p>	<p>UPRIGHT PIANO suitable for a beginner, \$100 or will trade. Schowers, Alb. 9-9279 after 5 or on Saturday.</p> <p>'54 DODGE ROYAL, 4-door sedan, R&H, low mileage; '51 Studebaker convertible, reasonable transportation; 10 ft. electric refrigerator. Abernathy, Alb. 5-4386.</p> <p>GIRL'S BICYCLE, large size, \$22.50; steel Venetian blinds for windows and French doors, \$2 each. Collis, Alb. 5-0470, 420 Carlisle SE.</p> <p>AUTOMATIC WASHER, ABC, '55 model; full-size roll-a-way bed. Johnson, Alb. 5-2762.</p> <p>'56 OLDSMOBILE, radio, heater, Jetaway, new tires, \$2195. Syme, Alb. 9-4100.</p> <p>MOTORCYCLE, 74 INDIAN, \$150. Can be seen at 3400 Cypress Dr. SW. Fay, Alb. 3-6244.</p> <p>GAS RANGE, Norge, \$30; fireplace accessories (screen, grate, etc.); \$20; assorted books, modern authors. Smith, Alb. 8-2335, 6615 Ross SE.</p> <p>AUTOMOBILE COOLER, evaporative, floor-type, 12-volt, \$20. Goldenberg, Alb. 9-4458.</p> <p>JENNY LIND BED, full size; 3/4 roll-a-way with innerspring mattress; 4-drawer chest; roto-broiler. Kelley, Alb. 6-4982.</p> <p>ROLLER SKATES, girl's, manufactured by Brooks Shoe Co., size 5 1/2, white, \$10. Phillips, Alb. 9-5568.</p> <p>30 ACRES. Sell or trade, equity of \$1500; 100 ft. off 66, 20 miles east of Wyoming. Make offer Shreve, Alb. 5-9607.</p> <p>UPRIGHT PIANO, Kurtzman, \$75. See at 3031 Truman NE. File.</p> <p>'56 BUICK, 4-dr Riviera hard-top, dynaflow, w/w tires, two-tone green, R&H, E-Z-Eye glass, 9,500 miles, \$2250. Leiserson, Ext. 4-179, 5 to 6 p.m.</p> <p>TV CONSOLE, Bendix, w/new picture tube; slightly used. Roper Gas Range; Paymaster check protector; cement laundry tub. Preston, Alb. 9-1948.</p> <p>'56 LAMBRETTA, original owner, \$275 or best offer. Janus, Alb. 5-8228 after 2 p.m.</p>	<p>NEXT DEADLINE FOR SHOPPING CENTER ADS FRIDAY NOON, June 21</p> <p>2-WHEEL TRAILER, 4' by 8'. Best offer. Whiteman, Alb. 9-0563 after 5 p.m.</p> <p>DINETTE SET, chrome and yellow, table w/four chairs, \$25. Yearout, Alb. 9-6810.</p> <p>AIR CONDITIONER, 3,000 CFM, Window type, \$40. Pitti, Alb. 6-1629.</p> <p>COMPRESSOR and spray gun with 1/3 hp motor, \$30; Centrifugal pump, 1" suction by 3/4" outlet, \$10. Want cement mixer. Toya, Alb. 4-2775.</p> <p>CAR COOLER, evaporative type, window mount, \$5. Thayer, Alb. 9-3127, 1424 Hoffman, NE.</p> <p>ENGLISH BULLDOG, male, 1 1/2 years old, registered, fawn and white coloring. Hill, Alb. 3-3493.</p> <p>GIRL'S BIKE, 20 inch, rear tire puncture proof, basket, \$10. Rainhart, Alb. 9-2887.</p> <p>'51 FORD STATIONWAGON, 4-door, excellent transportation, \$425; golf bag, 3 Wilson woods, 5 Spaulding irons, \$35. Connolly, Alb. 6-6343.</p> <p>GAS STOVE, Kenmore, 36", \$25. McVeety, Alb. 9-5718.</p> <p>RADIO-PHONOGRAPH Combination, red sectional living room suite, twin bed. Smith, Alb. 5-6478.</p> <p>COMMUNICATION RECEIVER, HQ 129 X and Ham gear; refrigerator, 7 foot Cold-spot, \$25; space heater, oil, ideal for cabin, \$5. Shane, Alb. 5-4811.</p> <p>4 BR HOME, 1 1/4 bath, air conditioned, walled yard, \$1500 down, \$79 mo, \$11, 780 total. Hillyer, Alb. 6-0900, 1017 Indiana SE.</p> <p>'47 JEEP Stationwagon, \$170 cash. Reed, Alb. 9-4707.</p>	<p>PUG DOG, year-old female, small, housebroken, has papers. Aaron, Alb. 6-1523.</p> <p>GAS RANGE, apartment size, equipped w/all extras. Oberst, Alb. 9-6644.</p> <p>MODERN DESK w/chair, \$25; silver service, \$25; table lamps, \$10; radio originally \$150, now \$15; window cooler, \$5. Scharpen. Alb. 9-0842.</p> <p>TWO LOTS in city limits, 140 by 60 ft., all utilities in lots, total price for both, \$1,850; \$400 down, \$45 month. Jaramillo, Alb. 3-1165.</p> <p>2 BR HOME near bases, total price \$4750. Will trade \$1000 for equity, balance, \$49 month, FHA. Chavez, Alb. 2-1791.</p> <p>COOLER, 2000 CFM Arctic Circle down draft type for trailer. Used 2 weeks, \$85, cost \$120. Denish, 6811 Zuni Rd. SE. 21" TV and Hi-Fi Phono, 3 speed, \$150 equity in it, trade both for 14" or 17" TV; 2-wheel trailer, \$35 or trade. Gilbert, Ext. 43188.</p> <p>2 BR HOME, \$900 down, 2036 Madeira NE. Davis, Alb. 6-4676.</p> <p>ENGLISH SPRINGER Spaniel Puppies, sired by AKC Champion. Inoculated. Barth, Ext. 46139.</p> <p>ELECTRIC STOVE, full size, '50 model \$35. Sinnof, Alb. 9-1300, 1718 Utah, NE.</p> <p>TWIN BEDS, bookcase headboards, sturdy construction, \$25 for pair. Roth, Alb. 9-5033, 8708 La Sala Grande, NE.</p> <p>LIVING ROOM SUITE, small rugs, dinette, bedroom suite, TV set (17" table model), dishes, misc. household items—everything \$260. Wahlstrom, Ext. 28293.</p> <p>HOFFMAN BRICK, 3 Bedroom, 1 1/4 bath, den, double detached garage, carpeted, many extras. Small down payment, FHA 4 1/4 % balance. Peirce, 8402 Candelaria, NE.</p> <p>PATIO CANVAS awning, 5' x 28', 12" overhang, has attached rings for cable support, reasonable. Minnear, Alb. 4-5419.</p> <p>2-WHEEL TRAILER, small, reasonable. Grotberg, Alb. 9-1479.</p>	<p>BRIGGS AND STRATTON Engine, 2 1/2 hp, model 8; Brunning Drafting Machine; K & E Surveyor's Level Rod; Luxo Drafting Lamp. Schiess, Alb. 5-3252.</p> <p>UPRIGHT PIANO, mahogany, \$85. Eagan, Alb. 5-6820.</p> <p>3 BEDROOM HOME, 1 1/2 bath, H/W floors, just redecorated, choice location, many fine features. Park, Alb. 5-1392, 5908 Arvilla NE.</p> <p>2 BR. House, den, walled yard, corner lot NE Heights. Prentice, 7465 Sky Court Circle, NE, Alb. 68198.</p> <p>LIVING ROOM suite, small rugs, dinette, bedroom suite, TV, 17" table model, dishes, misc. household items—everything \$260. Wahlstrom, Ext. 28293.</p> <p>POWER MOWER, McAll rotary-type, \$15. Hamilton, Alb. 6-9315 after 5 p.m.</p> <p>WANTED</p> <p>CHILD CARE in my home day or night, all ages. Near Fairgrounds and Sandia Base. Reasonable. Bice, Alb. 6-8671.</p> <p>GERMAN BEER Steins, will pay cash or trade rifle. Smitha, Alb. 9-1096, 8607 Menaul, NE.</p> <p>RIDE TO EAST. Will pay part gas cost for ride to Indiana or New Jersey, references exchanged. Orr, Alb. 5-6219.</p> <p>TO TRADE oil heater for a '56 trailer for a gas heater. Gregory, Ext. 26242, 4212 Copper NE.</p> <p>HOMES FOR KITTENS. Free. Schorr, Alb. 5-7234.</p> <p>MITER-BOX and saw in good condition. Clark, Ext. 28269.</p> <p>LOST AND FOUND</p> <p>LOST—Lunch pail, copper cross earrings, black and gold earrings, large lavender scarf, lady's glasses with black and white frame. LOST AND FOUND, Ext. 26149.</p> <p>FOUND—Lady's glasses with light brown Harlequin type plastic frame, white stone earring. LOST AND FOUND, Ext. 26149.</p>

Sandia's Ballistic Flight Tests Are Their Business

The hopes and worries of a special group of Sandians are with certain flights roaring off the runways at Kirtland Air Force Base in Albuquerque. These particular missions, bound for Salton Sea, Calif., and Tonopah Land Range in Nevada, are making ballistic drops as part of tests conducted in the development of nuclear weapons.

Sandia Corporation's work with the Air Force and Navy units flying these missions is done by the Flight Test Division 5211 of the Instrumentation Services Department. In a world of radar, radios, cameras, antennae, telemetering equipment and airplanes these men work closely with the military to make these missions successful.

"We don't fly," says Harvey S. North, who heads the division, "but our ground-bound experts have developed a close acquaintanceship with such planes as the Navy's Cutlass and the Air Force's B-47 and B-52.

Most of the division's personnel work inside a technical area on Kirtland Air Force Base so their familiarity with the bombers and fighters is necessary.

Join Weapon, Plane

"Our job," says Harvey North, "is to marry the weapon and the aircraft." This is not a union accompanied by soft music, flowers and peaceful atmosphere. The music of 5211 is the scream of the jet engine, the odors are of hot exhaust gases and the atmosphere is the strenuous activity of the flight line.

There is an earnestness and ur-

gency surrounding the joining of bomb and plane. Time, money and effort are not to be wasted.

It's a big job planning and coordinating this test program for two ballistic ranges hundreds of miles to the west.

Schedules of drops are made six months in advance by John Parker, test coordinator of the division. Each week Jim Allen prepares a five-day schedule of drops which is given to the ranges and to military units flying the missions.

A lot of work has gone on before this time. Planes have been especially modified for these Sandia drops. In some cases, to accomplish this modification, Burton S. Snow has gone to aircraft factories to work with the plane makers. The airplanes have been specially wired to Sandia specifications, telemetering control boxes have been installed, special racks under wings will carry experimental ballistic shapes, cameras and radar beacons have been installed.

Finish Work Early

"An hour before take-off time Sandia personnel is through with its work and away from the plane," says Vernon M. Brewster, Aircraft Checkout Section supervisor.

Airmen or Navy personnel load the bombs or experimental shapes to be dropped. Some are put in bomb bays, some under the wings on racks.

Final weather clearance has been secured by Jim Allen and the mission is on the way.

Once the aircraft is over the

range, radio and teletype contact from Albuquerque is maintained with range personnel by Gertrude Butler from communications headquarters in Bldg. 834. Flight Test Division at Kirtland Field also is in contact with the range by TWX.

Field project engineers from Systems Development organizations at Sandia are gathered around the radio and teletype operator—if necessary they can talk to the pilot or bombardier in the plane 40,000 feet in the air 900 miles away through Salton Sea radio facilities.

Drops Recorded

Flying these missions for Sandia are pilots of the 4925th Test Group-Atomic of the USAF and the pilots of the Naval Air Special Weapons Facility, both located at Kirtland.

On the ground at Salton Sea and Tonopah radar plotting equipment pinpoints the exact course of the plane. Tracking telescopes and cameras are following the plane ready to record the drop on film. A few moments before the drop generators on the plane issue a trail of smoke to help cameramen spot the ship.

At "bombs-away" time every precaution has been taken to assure a successful mission. The thousands of drops at Salton Sea and the newly established Tonopah Range are monuments to successful planning and execution by Sandia's Flight Test Division and the fliers of the country's Air Force and Navy.



BURTON S. SNOW inspects a camera window opening on a modified U. S. Air Force F 100D.



Mary Ann Melo—division secretary—



CHECKOUT of telemetering packages is done by E. J. Newman.



TEST RANGE CONTACT is maintained by radio and teletype from Bldg. 834. L to R: Andrew Alderete, John Parker, Albert T. Marrs and Gertrude Butler. All drops are monitored from this office.



COMMUNICATIONS EQUIPMENT is maintained by Gregg Abeyta and Kenneth D. Stout of the Division's radio installation and repair unit. They are stationed in quarters east of the Tech Area.



TELEMETERING CHECKOUT—Before the plane leaves Kirtland runway a complete checkout is made of telemetering equipment by (L to R) Wilbert R. Wood, Vernon M. Brewster and Clarence W. Young.



CAMERA INSTALLATION is the task of Dean Heath, who works here on an RP (research parachute) shape hanging on a Cutlass.



CAMERA CONFAB—Members of the Flight Test Division confer prior to a mission. L to R: Edward J. Newman, James M. Allen, Vernon M. Brewster, Harvey S. North, Dean Heath and Fenner D. Jones.