



C. F. Quate

C. F. Quate New Sandia Director Of Research 5100

C. F. Quate, Assistant Director of Electronics and Radio Research, Bell Telephone Laboratories, has been appointed Director of Research, Sandia Corporation. He will report to his new assignment here about Jan. 1. He succeeds S. C. Hight, who accepted an appointment with the new National Aeronautics and Space Administration in Washington, D.C.

Dr. Quate was born in Baker, Nev., and he graduated from high school in Logan, Utah. He received the degree of B.S. in E.E. from the University of Utah in 1944, the M.S. in E.E. in 1947 and the Ph.D. in 1950 from Stanford University.

Dr. Quate joined the technical staff of Bell Telephone Laboratories in 1949 and was engaged in research on microwave tubes. In 1952 he was named to head a group making studies in the field of microwave electronics. He was appointed Assistant Director of Electronics and Radio Research in April 1958.

As a member of the U. S. Naval Reserve from 1944 to 1946 Dr. Quate was engaged in atomic work under the Manhattan Project at Oak Ridge for a year.

The author of several technical articles, Dr. Quate is a member of the Institute of Radio Engineers, Sigma Xi and Tau Beta Pi.

New Test Range Facilities Under Consideration

Possible locations for additional ballistics test range facilities are being investigated by Sandia Corporation, the AEC announced this week in response to a query by the Tonopah Times-Bonanza.

"Representatives of Sandia Corporation have visited Tonopah and other places in the western United States to look into possible locations for additional AEC Ballistics test range facilities," the AEC said. "They have investigated local construction costs at all places visited, including Tonopah, so as to compare possible advantages or disadvantages of the various locations.

"The existing Tonopah range is one of several locations under study for additional facilities. No definite decision has been reached to construct the added facilities, or where to locate them."

Quality Assurance Teletype Network to Be Operable Jan. 1

A new Teletype communications network giving Sandia Corporation's Quality Assurance organization 5500 instant contact with all sites and integrated contractors handling special weapons data will go into full operation about Jan. 1.

The new network, called Sandia Corporation Quality Assurance Communications System, will feed data pertaining to nuclear weapon reliability into Sandia's 705 computer and Electronic Data Processing system. The network will make reliability information on all weapons in stockpile available on a daily basis.

All classified data will be encoded

IGY 'Phototrack' Station Established Here



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'Loaned Executives' Praised by Director Of United Fund

High praise for Sandia Corporation's "loaned executives," Hal Gunn (3153) and Bill Chandler (3221), was contained in a letter this week from the Albuquerque United Fund. The two men spent several weeks on loan to the UF campaign, helping organize solicitation programs within business firms in the community.

In his letter to S. P. Schwartz, Vice President and General Manager, Sandia Corporation, the executive director of the Community Chest, Thomas S. O'Connor, said in part:

"It is easy enough to work with enthusiasm in a successful effort, but to continue to put in a top drawer effort in the face of discouragement is the measure of the character and ability of these two men. Bill and Hal were more than equal to the task at hand. We hope you are as proud of them as we are."

Mr. O'Connor said the United Fund has not reached the \$499,000 goal that had been set. At last report the fund was only slightly over the \$425,000 mark, and the drive had been extended to try to raise additional funds badly needed by the Community Chest agencies and Red Cross.

Pledges and cash contributions of Sandia employees and the Corporation to the United Fund will amount to nearly \$92,000 during the next 12 months. This is a 10% increase over the Sandia contribution last year.

Bldg. 828 Modification Job to Be Completed During Late February

With G. W. Stuckman, contractor, awarded the contract for modification of Bldg. 828, the Electronic Test Equipment Department 1540 will be moving into new quarters about the end of February. The AEC announced last week that the Stuckman Co. submitted the apparent low bid of \$24,548 for the modification project.

The project calls for removing existing partitions, installing new partitions and additional plumbing, rewiring electrical circuits, installing new floor covering and painting.

ed by Encrypto equipment prior to transmission and automatically decoded as they arrive at Sandia. Inspection reports on nuclear weapons and other related information will make up the bulk of the data transmitted.

Research for the project was performed by Business Methods Department 4110 with the Data Processing Division 5512. Equipment, cost and operating procedures were established by the two organizations.

American Telephone and Telegraph Company supplied the Bellfast equipment with the Denver, Colo., Long Lines Division of the Bell System in charge of installation.



SANDIA CORPORATION'S PLEDGE for \$10,000 to the Valley Memorial Hospital Fund is presented to Ralph E. Merritt, (left) fund chairman, by R. E. Poole, Vice President at Livermore. At right is L. E. Hollingsworth (8120), chairman of the industrial campaign. Sandia Livermore employees pledged \$35,700 more.

Livermore Employees Pledge \$35,700 to Valley Hospital

Sandia's Livermore Laboratory employees have pledged \$35,700 to the Valley Memorial Hospital building fund, W. C. Scrivner (8130), chairman of the laboratory solicitation campaign, reports. The figure tops the \$30,000 goal of the Sandia drive by almost \$6,000.

An additional \$10,000 was pledged to the fund by Sandia Corporation.

Most of the contributions came from employees who pledged to pay \$3 a month for three years through payroll deduction, Mr. Scrivner said. The average pledge

per contributor was about \$102. Eighty-five per cent of those solicited participated, so that the \$35,700 was contributed by 346 employees. The total is expected to increase when 19 employees, absent during solicitation, are contacted.

The figures exclude employees living outside the hospital service area who did not participate.

The valley-wide campaign is aiming at \$525,000 to be collected in pledges or cash before Dec. 12 to qualify for \$587,000 federal and state matching grants. As of mid-November the contributions were approaching \$400,000.

Sandia Laboratory's observatory building on the east mesa of Sandia Base will be linked officially with "Phototrack" stations across the nation when the next earth satellite is placed in orbit.

Sandia Laboratory has sanctioned the use of the observatory facilities during off-duty hours, for studies in connection with the International Geophysical Year. The station will be manned on a voluntary basis by personnel of the Instrumentation Services Department (5210) and the Instrumentation Development Department (5220).

Equipment in the building is normally used in the development of tracking telescopes used to obtain photographic data on experimental weapon shapes designed by Sandia engineers.

In charge of the "Phototrack" program at Sandia is Ben Benjamin, supervisor of the Optical Measurements Division (5216). Working with him are Dan Parsons, supervisor of the Optical Development Section (5224-1), Dan Fenstermacher (5224-1), and Dale Fastle (5216), other Sandia volunteers and members of the Albuquerque chapter of the Society of Photographic Instrumentation Engineers.

Principal responsibility of the Sandia station is to obtain photographs of earth satellites passing over the Albuquerque area. Recording devices coupled with the camera automatically record the shutter opening and time signals provided by radio from station WWV in Washington, D. C. The Phototrack station differs from Albuquerque moon-watch stations in that the latter provides only eye-witness reports of sightings.

A plate camera loaded with special I-D-2 spectroscopic plates will be used to photograph satellites at a lens opening of F6.3. Time exposures of the satellite will be taken, plotting the trace of the satellite against stars in the background to establish the speed and direction of the satellite.

Besides satellite tracking, the station will also provide Phototrack headquarters with data in connection with studies to determine the true shape of the earth. The Sandia station will cooperate with observers in Wilmington, Delaware, with both stations making simultaneous sightings on a satellite. By mathematical calculations the exact distance between the two stations can be determined.



SATELLITE SEEKERS—Dan Parsons (5224), left, takes notes while Dale Fastle (5216) prepares to photograph a satellite. Operating the radio console

which supplies accurate time information is Ben Benjamin (5216), who is in charge of the Sandia Phototrack Station located near the East Gate.



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Lab News Photo Going Nationwide To Sell U.S. Bonds

About to receive nationwide distribution is a photograph appearing in the Sandia Lab News last April encouraging the sale of U.S. Savings Bonds through payroll deductions. Alice Altum (1247), complete with cowboy hat, boots and lariat, was posed before a huge savings bond facsimile with the slogan "Your Chance to Corral a Good Thing." The U.S. Savings Bond Division of the Treasury Department in Washington liked the idea and requested permission to use the photograph for distribution to newspapers and magazines throughout the country. Prints of the picture will be sent out in January.



WELCOMING Sandia Livermore Laboratory's 500th employee, Joyce Henkener (8212-3), are C. W. Campbell (8200), left, and Walter Dzugan (8212-1). Miss Henkener reported to work Nov. 17 after answering a newspaper advertisement. From a small beginning in 1956, Sandia's Livermore Laboratory has grown to 500 employees in its first two years of existence.

Human Rights

Dec. 10, 1948, in Paris, the United Nations signed the Universal Declaration of Human Rights. Dec. 10, 1958, the United Nations, governments, church, private organizations and media of communication will cooperate in the observance of the tenth anniversary of this important event.

Citizens of Albuquerque will have an opportunity for appropriate observance of Human Rights Day by hearing Preston Bradley speak on Human Rights at the Student Union building on the campus of the University of New Mexico at 8 p.m. Human Rights Day is Dec. 10. Preston Bradley, pastor of the Peoples' Church of Chicago, has few equals as an orator.

Dr. Bradley is an author and has traveled extensively. To hear him is an unforgettable experience. He is chairman of the Chicago Council Against Racial Discrimination and a member of the Mayor's Committee on Race Relations.

The Preston Bradley lecture on the evening of Dec. 10 is sponsored by the Albuquerque Association for the United Nations and the Collegiate Council for the United Nations of the University of New Mexico supported by the Albuquerque Conference of Christians and Jews and the Albuquerque Post No. 99, American Legion.

Congratulations

- Born to:**
Mr. and Mrs. William C. Montano (2474) a daughter on Nov. 13.
Mr. and Mrs. William F. Osborn, Sr. (1652-1) a son, William Frederick, Jr., on Nov. 7.
Mr. and Mrs. William E. Little (1652-2) a daughter, Tandra Sue, on Nov. 10.
Mr. and Mrs. Oscar E. Carter (5533) a son, Mark Andrew, on Oct. 31.
Mr. and Mrs. L. J. Chavez (7241-4) a daughter on Nov. 12.
Mr. and Mrs. Rod Leach (5142) a son, Bradley, on Nov. 16.
Mr. and Mrs. W. D. Huff, Jr. (1651-2) a daughter, Suzanne Frances, on Nov. 5.
Mr. and Mrs. Larry Chavez (7241-4) a daughter, Nanette Marie, on Nov. 12.
Mr. and Mrs. Gene Long (7241-4) a son, Joel Curtis, on Nov. 16.
Mr. and Mrs. Dennis Cordova (4153) a son on Nov. 15.
Mr. and Mrs. Paul M. Wallack (2514) a daughter, Paula Christine, on Oct. 28.
Mr. and Mrs. George Saling (8122-1) a son, George Edward III, on Nov. 5.
Mr. and Mrs. Fenner D. Jones (5211) a daughter, Christine Alison, on Oct. 13.
Mr. and Mrs. Bruce Barth (5143) a daughter, Evelyn Ruth, on Oct. 27.
Mr. and Mrs. Frank Rebarchik (7311-1) a son, James Allen, on Oct. 30.
Mr. and Mrs. Kenneth L. Wiley (7329) a daughter, Terry Lynn, on Oct. 22.
Mr. and Mrs. Marcial Valdez (4152-2) a daughter, Michelle Marie, on Oct. 8.
Mr. and Mrs. Elmer Borbely (4151-3) a daughter, Linda Lee, on Oct. 14.
Mr. and Mrs. M. G. Hicks (1262-1) a son, Joel Robert, on Oct. 22.
Mr. and Mrs. Robert P. Verdier (8141-1) a daughter, Susan Ruth, on Nov. 3.
Mr. and Mrs. A. E. Wickham (2132-1) a daughter, Kristine Marie, on Nov. 2.
Mr. and Mrs. D. G. Lewis (2713-3) a daughter, Diane Ellen, on Oct. 31.
Mr. and Mrs. James H. Jones (2713-1 at Syosset, N. Y.) a son, James H., Jr., on Oct. 31.
Mr. and Mrs. H. J. Cilke (1456-4) a son, James Michael, on Oct. 29.
Mr. and Mrs. L. J. Allen (1456) a daughter, Lynette Renee, on Nov. 3.
Mr. and Mrs. W. G. Levy (1474) a son, Walbert Gregory, Jr., on Nov. 6.

Sandian and Wife Base Marriage Book on 17 Years' Experience

"To Marry, With Love" is the title of a book recently published which was written by Louis Baldwin (4111) and his wife, Virginia. As the title might indicate, the contents delve into the problems of marriage and domestic life from a serious standpoint but in a conversational way. "Lou" explains, "My wife started thinking up the ideas during the war while I was away. About

10 years later we decided to combine our talents and really do something about the project. "We did a lot of research on the subject, but ended up not using much outside material. Most of the books on the subject took the expert approach, weren't practical, were self-important or were too solemn." The book approaches marital problems from a Christian non-denominational standpoint. According to Lou, the basic theme is "to be loved, one must love." As qualifications for writing such a book Lou mentions his Bachelor's degree in English from De Paul University, a Master's in English from the University of Chicago, 17 years of marriage and five children.

Military Returnee
Back at his desk as an engineer in Project Division 1246 is John Anderson. John had been at Sandia about



John Anderson

two years when he was called into the Army and served two years, stationed at Fort Belvoir, Va., the entire time.

Sick List
Best wishes for a quick recovery are conveyed to "Peg" Taylor (1473), who underwent an operation last week.

Wishes for a speedy recovery are extended to Marshall W. Denish (2232-1), who is recuperating from a bad case of laryngitis. Friends of "Chuck" Becker (2121-2) are sorry to hear of his recent leg injury. Chuck has found that country life can be dangerous.

News From Afar
From the New York area field inspection office comes word of the recent marriage of Harold C. Andrews (2713-1) and Charlotte Bortzfield of Lynbrook, Long Island. They are on a two-week honeymoon in Bermuda.

Jury Service
Two members of 2100 have been spending most of their time in downtown Albuquerque lately. Ruth Hunt (2111) is serving on a jury in criminal court and Joanne Boyd (2150) is on a civil court jury panel.

New Home Owners
David B. Thomas (2722) has just completed a new two bedroom home on Lee Road SW in the Valley.

Other new home owners are Charlie Allen (7113) and family who have just moved into their new house at 4513 San Andres Ave. NE.

Howard Zimmerman (2722) and his wife are owners of a new three-bedroom house at 8112 San Joaquin SE.

Bruin Story
Rex Rozelle (2151-3) and his son, Rand, went deer hunting on Bluebird Mesa near Cuba this



Rand Rozelle.

month. Rex, armed with a 220 Swift, was looking for deer when he saw a bear coming toward him down a canyon.

The first time he shot he was about 75 yards away. Rex hit the bear and it rolled down the side of the canyon toward him. Two more shots finished the bruin off.

The bear weighed about 500 pounds and measured 74 inches from tip of his nose to his tail.

Good News
Congratulations are extended to Mr. and Mrs. A. F. Cone, recently married. "Doc" is Manager of Department 5510. The bride, the former Mildred Wieggers, was formerly with 7225 assigned to 7241.

He's Who
Proud parents are Edith (2722) and Floyd Irwin (2231) whose son, Jim, was one of 38 UNM students selected for listing in Who's Who in American Colleges and Universities.

Jim, a senior, is majoring in Journalism and Government. He is Lobo Editor, holds the office of president in the campus chapter fraternity, and is a member of of Sigma Delta Chi, journalism honorary, and Sigma Chi, social fraternity.

In other words, Edith and Floyd don't see much of their busy son.

Weddings and Engagements

Florence Gamez (7221-1) became the bride of Alfredo Fernandez (2473-1) in Holy Rosary Church on Nov. 8.



Mr. and Mrs. Alfredo Fernandez

Florence received her Sandia 10 year service pin the first of November and Alfredo was presented his two months earlier.

The couple is at home at 10108

Pitt NE following a honeymoon in Las Vegas, Nev.

The Central Methodist Church was the recent setting for the exchanging of marriage vows between Donnie M. Schuette (4335) and A/2c Donald J. Papineau of Williston, N. D.

Several Sandians were in the wedding party: Father of the bride is Kermit Schuette (2112-2), maid of honor was Sylvia Martinez (1285), and Mr. and Mrs. Tom Mickey (2121) attended the cou-



Mr. and Mrs. D. J. Papineau

ple. Little Mary Lou Mickey was flower girl.

Having returned from their wedding trip to northern New Mexico, Mr. and Mrs. Papineau are residing at 139 Harvard Dr. SE.

Dorcas Crosby (4135) and Ralph Close of Albuquerque were married Nov. 19 in an afternoon ceremony at the First Presbyterian Church.

The couple will be at home in Albuquerque after a honeymoon in southern New Mexico.

Dorcas has been with Sandia since November 1950.

Donate Blood
Three carloads of Sandia's Livermore Laboratory employees, friends of George Saling (8122-1), journeyed to the Alameda County Blood Bank last week to donate 16 pints of blood. The donations replaced blood given to George's wife Nancy recently when she had birth complications. Mother and son are doing fine now.

Sympathy

To Gene Copeland (1471) for the death of his father in Fort Worth, Texas, on Nov. 11.

To Don Callahan (4335-2) for the death of his mother in Columbus, O., on Nov. 8.

To James Slusser (2722) for the death of his father in Oklahoma on Nov. 8.

To Lydia Villanueva (5140) for the death of her father in Albuquerque on Nov. 18.

To Filomeno C. Chavez (2232-1) for the death of his mother on Oct. 30 and his father-in-law on Nov. 14.

To Lucille Stewart (3120) for the death of her father in Corona, Nov. 24.



Janet Rego (8122)

Take a Memo, Please

Courtesy when leaving the parking lot can mean the difference between a crumpled fender and arriving home in a relaxed mood. Give the other fellow a break in the line of traffic.

Christmas Trees, Holly and Carols Planned in Area

Sandia's Tech Area will glow from all sides in observance of Christmas, according to holiday plans now nearing completion.

The Christmas program committee, headed by Noble Johnson (3122), recommended that this year Christmas trees be placed at the Tech Area gates rather than at various buildings so that more employees could observe and enjoy them.

Fifteen-foot evergreens will be placed at 10 locations along with colored lights and holiday sprays, and a 30-foot tree will stand in front of the Administration Bldg. Matt Ungerman (2223) and his wife, who have designed the special decorations in the front of Bldg. 800 since 1951, will again handle this job.

The decorations will be up from Dec. 14 to Jan. 5 and, in addition, during Christmas week carols will be played over the Laboratory P.A. system during the time employees are going to and from work and during the lunch hour.

Members of the Christmas program committee include O. L. Wright (7230), W. S. Sharp (2131), K. W. Seaver (4135), T. B. Sherwin (3125), Matt Ungerman (2223) and W. C. Elskes (2411).

Retired Employee Dies in Chicago

Edwin C. Wahlstrom, who retired from Sandia Corporation Sept. 13, died in Chicago Nov. 20. He had been in poor health for the past year.

Mr. Wahlstrom was employed by Sandia in December 1951, first as a tool crib attendant in machine repair organization and later as a record clerk in metal stocks (2112).

Surviving is his sister, Mrs. Evelyn V. Ringbloom, with whom he was living in Chicago.

Hunting Accident Fatal to A. J. Shell

Arthur J. Shell, a staff assistant in Division 5132, was killed by an accidental gunshot while on a hunting trip near Carrizozo, N. Mex., Nov. 8.

His age was 30 and he had been employed at Sandia Corporation since February 1956. Burial was in Sweetwater, Tenn.

Mr. Shell is survived by his widow, a son, Stephen, age 6, and a daughter, Sandra, age two months, and his parents.

Welcome Newcomers

Nov. 7-21

Albuquerque	
Yvonne M. Abeyta	3152
Adela M. Aragon	2632
James H. Armstrong	2711
Paul W. Benson	2721
June S. Bookwalter	2631
Albert Cherino	2413
Grace C. Downs	4343
James A. Enlow	2466
Joe C. Garcia	2461
Donelia Gonzales	4142
Mary T. Harrison	7225
Marie F. Hord	4333
Romeo L. Levesque, Jr.	5243
Robert L. Lusby	2465
John L. Miller	4362
Edna H. Morgan	7225
Carmen S. Montoya	7225
Mary E. Paciello	2222
Pauline M. Pierga	4132
Alan A. Rosner	4132
*Ernestine M. Sawyer	2525
*Georgia B. Seiler	2133
Maxine M. Stephenson	2713
Jimmy D. Thompson	2413
David L. Trapp	5231
Arizona	
Florence H. Gossin, Phoenix	4344
California	
Clifford W. Mack, Livermore	8122-2
Charles E. Shinneman, San Ramon	8225-1
Elliott H. Dopking, Livermore	8122-1
Ned Tootle, Livermore	8224-1
Robert M. Bohannon, Livermore	8222-2
Walter J. Young, Oakland	8225-1
June D. Tomsic, Castro Valley	8212-3
Patricia A. Rucker, San Francisco	8212-3
Roger W. Kuesthard, Jr., Modesto	8223-1
Warren E. Chandler, Castro Valley	8211-2
John E. Bonetti, Livermore	8234-1
District of Columbia	
Willis E. Sharp, Washington	5243
Stewart D. Lyon, Washington	5243



EATING IN STYLE aboard the USS Sea Wolf were (L to R) President Eisenhower, CPO Milton Tucker and presidential secretary Jim Hagerty. The nuclear submarine submerged off Newport during the President's day-long inspection of the Navy's latest.

New Mexico Life Change From Duty on Nuclear Sub

New Mexico's fresh, dry air seemed especially good to Milton Tucker when he arrived in August. Not many months before he was inhaling in short breaths the stale air aboard the USS Sea Wolf as the nuclear submarine set an underwater operation record.

"Milt," now a radiation technician in the Health Physics Section 3161-2, completed 20 years service with the Navy before joining Sandia Corporation.

He attended submarine school in 1942 and served in the Pacific during World War II. Then in 1952 Milt was selected for the Navy Nuclear Power Program. During the next three years he attended Union College in Schenectady, N. Y., visited atomic centers at Hanford and Idaho Falls and received other intensive training along with Navy engineers preparatory to serving on the nation's second nuclear-powered submarine.

Sub Duty

A Chief Petty Officer, Milt served as a hospital corpsman on the submarine. Due to the unique design of such vessels, this duty entails health physics and radiation protection for crew members. An important part of the job is responsibility for the film badge program throughout the ship to detect any possible radiation danger. However, due to the design of the ship and foresight in operations, radiation was not a problem at any time.

As in all submarine duty only

Wendell E. Eskridge Dies Suddenly Nov. 9

Wendell B. Eskridge, a Corporation employee for seven and one-half years, died Nov. 9 at his home. He was 59.



W. B. Eskridge was his widow, one son, and four married daughters.

Mr. Eskridge was a mechanical assembler in Section 2234-1 and had been at work up until two days before his death.

Burial was in Evansville, Ind. Surviving are

Kansas	
John E. Jacks, Jr., Kansas City	5213
John R. Wheelock, Wichita	8116-1
Illinois	
Maxine R. Elliott, Moline	4142
Richard A. Palmer, Chicago	5213
Indiana	
Richard L. Clauson, Clermont	8114-3
New Mexico	
Dorothy L. Raper, Los Alamos	7225
Kenneth E. Hollingsworth, Socorro	2234
Richard L. Reed, Grants	2462
Bruce A. Caskey, Artesia	1282
Ohio	
Edwin I. Opland, Jr., Kent	3152
Oklahoma	
Robbie D. Chapman, Tulsa	2466
Wisconsin	
Charles H. Turnbull, Milwaukee	8116-1
* denotes rehired	
Returned from Leave	
Mary A. Van Brocklin, Livermore	8223-2
Richard C. O'Boyle	1611

Navy volunteers are accepted, but on the nuclear submarines the standards for I.Q. and mechanical ability are very high. On all sub-



SERVICE ON NATION'S second nuclear-powered submarine, USS Sea Wolf, ended Milton Tucker's 20 years in the Navy. He's now a radiation technician at Sandia Corporation (3161-2).

marines training is conducted to enable every member to partially do every other man's job.

Test Weapons

According to Milt one of the functions of the Sea Wolf has been to test new weapons suitable for use by the new nuclear fleet. The ship also was on operational problems with aircraft carriers and anti-submarines.

There were also, he recalls, long habitability studies to determine the psychological, physical and mechanical problems present when the ship remained submerged for long periods.

Milt was on board last May when the Sea Wolf set a new record by remaining submerged for 30 days in the Atlantic. (The Sea Wolf a few months later broke her own record by staying under 60 days.)

"On that 29th day cigarettes tasted lousy and our breath came in short pants since the oxygen supply was running low," Milt said. "During that month we were kept very busy with educational programs and training projects. There were the usual indoor recreation activities such as records, cards, books, movies and bingo."

One of the big events was when President Eisenhower and his press secretary, Jim Hagerty, were taken aboard for an underwater cruise off Newport.

For a Navy man Albuquerque is about as far as you can get from water, but Milt and his family enjoy being together and living in the Sandias.

Supervisory Appointments

EDWARD D. HERRITY to Buyer, Research Studies and Mechanical Subcontracting, 4344.



"Ed" worked as an auditor when he joined Sandia six years ago. In 1955 he was promoted to section supervisor in Vouchering and Tabulating Division and the following year transferred to Assistant Buyer in electrical subcontracting.

He was a chief accountant for the Rural Electrification Administration in Washington, D. C., for 12 years before serving three years in the Army in Europe and the Middle East during World War II.

After the war he returned to REA and had been regional audit supervisor for Area 7, with headquarters in Scottsbluff, Neb., for five years before coming to Sandia.

Ed attended the University of Pittsburgh and Washington University in St. Louis, Mo., majoring in Business Administration.

MARTIN K. RHOADS to supervisor of New England Area, 2713-7, Field Inspection Division.



"Dusty" has been with Sandia Corporation four years, two years as a representative in field inspection and the remainder of the time as a field engineer for the East Coast Area. The New England Area, which he will head, will include the New England states and northern New York.

Previously he worked from 1952-54 as an inspection supervisor for Aircraft Armaments and as a mechanical designer for Machine and Tool Design Company, both in Baltimore, Md.

Dusty was with the Glenn L. Martin Company in Middle River, Md., from 1941-52 as an inspector and quality control supervisor.

He has attended Pennsylvania State College, Johns Hopkins University, Baltimore City College and Hartford University.

Dusty is a member of the American Society of Tool Engineers and has had numerous technical articles printed in trade journals. He holds trade licenses to certify others in two quality control fields: magnetic particle inspection and fluorescent penetrant inspection.

FLOYD L. McFARLING to supervisor of Project Section II, 2533-2, Manufacturing Engineering Systems Department.



"Mac" has worked in one of the Manufacturing Engineering Divisions during his more than six years with the Corporation. He came to Albuquerque from Denver where he was four and one-half years with the Bureau of Reclamation in steel pipe and pin stock design for hydraulic power plants. Prior to that Mac worked two years in the product application department of Gates Rubber Company.

His first job after college was with Douglas Aircraft Company in Long Beach, Calif. During a year and a half there Mac worked on the design of hydraulic equipment for use in aircraft.

Mac received a BS degree in Mechanical Engineering from the University of Colorado and is a member of Pi Tau Sigma, Mechanical Engineering honorary, and the American Society of Mechanical Engineers. He is a registered professional engineer in New Mexico.

DERRELL D. DOLLAHON to supervisor of Administrative Methods Section 4112-1, Administrative and Industrial Relations Methods Division.



"Dolly" has been a staff member in Business Methods Department since he came to Sandia in December 1956.

Prior to employment here Dolly was with the Holly Minerals Corporation in Albuquerque for five years in administrative work. He was also District Sales Manager for Continental Oil Company in Plainview, Tex., for three and a half years.

Dolly served three years in the Army and later worked two years for the New Mexico National Guard as an administrative assistant.

He attended Eastern New Mexico University and the University of Arkansas and received a Bachelor's degree in Business Administration from the University of New Mexico in June 1951.

WILLIAM P. THOMAS to supervisor of Pyrotechnic Device Section 2541-3 Manufacturing Engineering Components Department.



"Bill's" work with Sandia Laboratory dates back to its very origin. He has been here on a continuous basis since June 1949 in electromechanical components organizations.

Employed at Los Alamos Scientific Laboratory in September 1943, he remained there during a year of military service, and continued on as a civilian until June 1946 when he was a member of a group transferred to Sandia Laboratory.

In September 1947 Bill quit Sandia to attend college, but he returned during the summer of 1948.

He attended De Pauw University and the University of New Mexico, where he is studying electrical engineering and industrial management.

STEVE W. WEBB, JR., to Assistant Buyer, 4314-1, Electrical Subcontracting.



Steve started with the Corporation in January 1957 as a staff member, buyer's assistant, in electrical subcontracting, and transferred eight

months later to a similar position in research studies and mechanical subcontracting.

In 1950 he received a BA degree in Economics from Millsaps College, Jackson, Miss. Before coming to Sandia Steve served five and one-half years in the Air Force, the last two years he was stationed at Manzano Base. While in service he received training in electronics and special weapons.

J. W. McManus Answers Technical Art Queries

The questions "What is a technical illustrator?" and "What is a technical illustration?" were answered last week by Joseph F. McManus (8114-4) before a group of Stockton Junior College drafting and technical art students and faculty members.

Mr. McManus, head of the technical illustration section at the Livermore Laboratory of Sandia Corporation, said that the technical illustrator is an artist who is both an interpreter and a salesman. A technical illustration he said, is a pictorial interpretation, explanation, and representation of an idea or product.

William R. Bentley Retires on Dec. 1 After Eight Years

Already looking forward to leisure-time activities is William R. Bentley (2414), who will retire Dec. 1.



W. R. Bentley said Mr. Bentley, "and best of all I'll have time to teach my three grandsons about the outdoors."

Mr. Bentley and one of his daughters live at 1509 Los Tomas-es Dr. NW. Another daughter also lives in Albuquerque, while a third is in Okinawa with her family.

He has been eight years with Sandia and has worked in plumbing and heating maintenance the entire time. "I love to hunt and fish,"

Sanado Club to Have Family Dinner Dec. 7

Sanado Club holiday festivities will be highlighted by an old-fashioned family Christmas dinner on Dec. 7 from 1 to 2:30 p.m. at the Coronado Club. Reservations for club members and their guests must be made by Dec. 1 with Mrs. R. T. Othmer.

The Coronado Club has been decorated both inside and out in traditional style by members of the Sanado's art and garden groups.

Radio Club to Meet

Sandia Base Radio Club will meet Tuesday, Dec. 9, at 8 p.m. at the club room on Sandia Base, according to John Cundy (7233), publicity chairman. Program will be announced later.



VISITING Sandia Corporation last week were members of the Joint Committee on Atomic Energy who toured Laboratory facilities and attended technical briefings. From left are J. P. Molnar, Sandia Corporation President; Richard X. Donovan, Office of General Manager, AEC Washington;

Senator Clinton P. Anderson, due to be chairman of the Joint Committee when Congress resumes; Rep. Chester Holifield, member of the Committee; James T. Ramey, Executive Director of the Committee Staff, and P. W. Ager, Advance Planning, AEC-ALO. Visitors met with Sandia's Staff and toured Area III.

Recording Field Reports Simplified

'Electronic Narration' Keeps Weapons Tab

'Great Decisions' Attracting Interest Of Many Sandians



FILES OF ORIGINAL field inspection reports and ledgers in which the information was formerly entered is shown by Glendda Sikkle (5512-1). Finding trends was often a most lengthy process.

Handling of 10,000-15,000 field reports from Armed Forces organizations each month has been simplified by recording field information, including narrative portions, on IBM cards. The reports are used to study defective components of major assemblies.

These field reports, which are based on special weapons inspections conducted in far-scattered locations, are received by Section 5512-1. The defects reported may range from such minor things as a burred head on a screw or chipped paint to the probable cause of failure of an entire system.

Until recently, information from the reports was entered by hand in journals. This task was tedious and human errors accordingly ran high. Furthermore, to determine the rate of occurrence and other important data from such a mass of information was extremely difficult.

Get Information Quicker

"With the new systematized approach," says P. H. Bircher, supervisor of this Quality Assurance section, "valuable information from the field is made available for possible action in a much shorter time."

Five staff aids first give the incoming reports a technical review. They identify the defect by a code number and determine the seriousness of the fault. If, in their review, they spot an apparently serious problem or consistent occurrences of the same defect (although perhaps described in different terms), Quality Assurance engineering is informed immediately. The staff aides' technical knowledge of the systems and of possible effects of the discrepancies reported is an important key to successful application of IBM cards in this work.

Clarify Narratives

These employees clarify the narrative part of the report, which is

punched on the cards. At least two cards will be required for each defect description and on the average, four to five cards are necessary. In addition to the defect description, the field reports contain information such as serial number of the system, when and where the inspection took place, what kind of inspection was performed, reason for inspection, and serial number of the defective part (including manufacturer's name and date of manufacture).

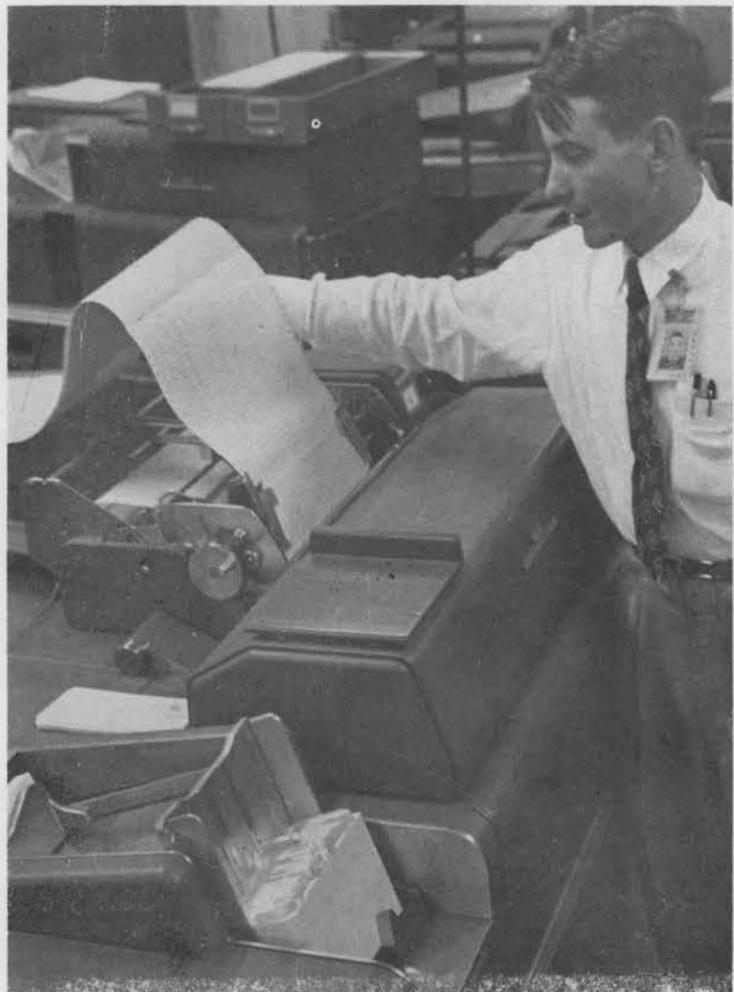
The information goes to the IBM keypunch operators and the cards are checked against original reports upon their return to Section 5512-1. This group and the keypunch section are quite proud of their average of less than 1 mistake per 200 cards. Quality control charts on errors are posted where all employees can observe day-to-day trends.

A weekly defect listing by component is made available to Quality Assurance engineering groups, who are on the lookout for defect trends or problems that may arise in the field.

Helps Make Monthly Report

For the Sandia monthly report, putting the information in the desired sequences requires more than 30 card sorts, and takes two days. This information is printed out in 14 hours. When this information is programmed for the IBM 705, time for print out will be reduced to about 3 hours. This report which is made available to Quality Assurance, Field Command, AFSWP, Air Materiel Command, and Los Alamos, shows defect trends and indicates necessary quality action.

As Mr. Bircher sums up, "Use of this system gives us ready and rapid access to the information in our basic records, facilitating the study of particular design, reliability, and logistics problems."



ELECTRONIC NARRATION of defects in weapon components is uniquely accomplished in 5512-1 on IBM equipment. The machines "write" in sentence form the findings which have been punched on cards. Standing with the machine is Charles Lowe (4132-1).



ADVANCE PLANNING for the Great Decisions program next spring was the topic of discussion for Bill Funk (3120), left, and Lynn Castle (3124), right, when they met recently with Warren Rovech, center, director of the Foreign Policy Association's Mountain and Plains Region, Denver.

Lynn is chairman of the steering committee organizing the program and Bill is sharing the job of lining up discussion groups which discuss solutions to difficult crises endangering our nation.

Surplus Sandia Cars, Trucks To Be Sold by Auction Saturday, Dec. 6

An auction of 41 surplus cars, trucks and forklifts from Sandia Corporation will be held Saturday, Dec. 6, at 1119 Candelaria NW beginning at 1 p.m.

Each vehicle is offered for sale on an "as is" and "where is" basis. Bidders are urged to inspect the vehicles prior to bidding.

The sale is open to the public although prospective purchasers must register beforehand and sign a copy of the sale conditions.

Identification cards will be given prospective purchasers at the time they register.

Payment will be made to the auctioneer and is acceptable in cash, certified check or personal check when accompanied by a current letter of credit from the bank.

Any bidder who is an employee of the AEC or of any of its cost-type contractors must declare that he has not participated in the seller's determination to dispose of the property, in preparation of the material for sale, in determining the method of the sale, and

has not acquired information not generally available to the public regarding usage, condition, quality or value of the property.

Included in the sale are: two 1950 Mack 10-ton trucks, 1948 10-ton Mack truck, two 29-passenger Brill busses, three half-ton Chevrolet pickups, five 3/4-ton 1952 Ford pickups, three eight-passenger 1953 Chevrolet carryalls, four eight-passenger 1954 Ford station wagons.

Two 1951 Chevrolet eight-passenger carryalls, six eight-passenger 1955 International carryalls, three half-ton Chevrolet pickups, '51, '52, '53, one 1949 3,000 lb. capacity, one '47 Case tractor, Model VA I, and one 614 cu. ft. Freuhauf M-1 trailer.



HORSESHOE CHAMP at Sandia Corporation in the singles division is **Bill Sweatman** (2152-4) shown here tossing another ringer. Bill beat **Fonzo Cossell** (2412) 4-3 in final matches last week after trailing 3-2 in the first five matches they played.



Robert A. Mathews
2465
Nov. 29, 1948



Alois D. Middleton
5224
Nov. 30, 1948



Mildred M. Shelton
2461
Nov. 30, 1948



Anthony E. Astorga
1611
Dec. 1, 1948



Lee Denton Davis
2713
Dec. 1, 1948



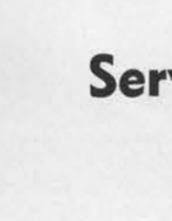
Bernard J. Burrell
7326
Dec. 2, 1948



John W. Ransom
2232
Nov. 2, 1948



José A. Serna
2413
Nov. 3, 1948



Roy C. Hansen
2121
Dec. 2, 1948



George W. Rodgers
1456
Dec. 3, 1948



Frank C. Irwin
1222
Dec. 3, 1948



Len E. Mahuron
4143
Dec. 3, 1948



Virgie H. Haverly
2111
Dec. 2, 1948



William M. O'Neill
5530
Dec. 2, 1948



Joseph D. Schauer
1542
Dec. 2, 1948



Roy Robert Boyd
2442
Dec. 3, 1948



Edwin James Allen
2111
Dec. 7, 1948



John N. Garcia
2131
Dec. 7, 1948



George W. Rodgers
1456
Dec. 3, 1948



Carlos Candelaria
2473
Dec. 6, 1948



Bertha M. Merrill
5241
Dec. 6, 1948



Parker E. Wallace
3211
Dec. 6, 1948



Mary Alma Bascom
7241
Dec. 10, 1948



Harold E. Bolser
4161
Dec. 10, 1948



Joy C. Lewing
2411
Dec. 7, 1948



Robert Findlay
2160
Dec. 8, 1948



Garvis A. Chandler
2124
Dec. 9, 1948



Fred B. Tixier
2414
Dec. 9, 1948



Andrews 2713, Carlos R. Shelton 4142, Simon Herman 3154, John T. Lindman 2551.



Christine C. Gomez 4333, James B. Walston 2463, Earle C. Williams 1246, M. J. Navratil 1246, Wayne Cottingham 2722, S. Ann Hanks 7226, Lillian L. Balfour 7221, Ruth H. Batchelor 4333, Lucy R. Metzgar 4135.



Samuel DeHaan
2223
Dec. 10, 1948



Billy Wayne Duggin
1612
Dec. 10, 1948

Five Year Pins
Nov. 29-Dec. 12
William M. Sodja 7132, Albert W. Snyder 1626, Amada F. Salazar 2472, Hugh H. Howe 2461, Neile L. Hensinger 1652, A. Margaret Smith 3211, Isaias F. Chavez 2472.

Two Year Certificates
Nov. 29-Dec. 5
James H. Mafit 8222, George V. Porter, Jr. 3123, George W. Stohner 4152, Frances E. Eyberse 4333, Richard W. Drake 3161, Robert D. Patterson 2551, Juanita A. Vincent 8221, W. B. Lichtenberger 2461, Carmen V. Garcia 7225, Benjamin Slesinger 1591, Edward J. Haut, Jr. 7242, Loyce M. Gambrel 4325, Lessie G. Lee 2731, Harold C.

Alfred A. Alford 8113, Merle C. Bowman 8122, Joel L. Landrum 7213, Frederic R. Steele 5533, David W. Braudaway 1652, Henry Louderbough 3162, Estill R. Wood 2131, Shirley B. Coleman 7225, L. V. Gonzales 7225, W. H. McConnell 7411, Frances Strachwitz 7221, Antonio L. Saavedra 2153, Florence H. Vigil 2464, Mary G. Austin 2462, Vincent J. Curran 8113, Joan M. Branks 7411, Clyde B. Hughes 2151.

SHOPPING CENTER • SHOPPING CENTER • SHOPPING CENTER • SHOPPING CENTER • SHOPPING CENTER

CLASSIFIED ADVERTISING
Deadline: Friday noon prior to week of publication unless changed by holiday.
RULES
1. Limit: 20 words
2. One ad per issue per person
3. Use be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization.

FOR SALE
BEDROOM SET, three-piece w/mattress and springs, \$35; wooden spring horse, \$4.50; small doll carriage, \$1.50; Singer button hole attachment, \$5. Stuckey, AL 5-2442.
AMANA FREEZER, 15 cu. ft., \$570. \$55 down, assume payments on \$342 balance, no payments until Dec. 30. Alesch, AX 9-5682.
MATERNITY dress suit, turquoise, size 10, \$10; studio couch, Simmons, \$30; 24" boy's bicycle, \$12; fiber rug, 9x12 beige, \$8; two 16" wheels, \$1 each. Russell, AX 9-0159.
TWIN BED, ranch oak w/innerspring mattress, box springs, \$50; crib w/mattress, pad, 3 sheets, \$12; five-drawer chest, \$7. Halliday, AL 6-6685.
REFRIGERATOR, Kelvinator 8 cu. ft., \$80; 21" TV, Mercury table model, \$50; Colt semi-automatic .22 caliber pistol, 6" barrel, w/holster, \$35. Hagedorn, AM 8-3721.
ICE SKATES, Canadian Flyers, size 5, \$6.50. Holman, DI 4-3160.
'57 KARMANN GHIA Volkswagen, two-tone brown, clean, \$1835. Wilson, Ext. 42242.
GIRL'S BICYCLE, 26" Schwinn, green and white original paint, \$25. Carter and AL 5-4403.
TWO BOY'S Bicycles, 26" lightweight, \$40; standard, \$10; both Schwinn w/carriers, thornproof tires; GE iron, \$2; child's wagon, \$1. Wooley, AX 9-5000.
AQUARIUM, 20 gal. including 10 tropical fish, reflector, microfilter, pump and stand, \$40. Richard, AX 9-0856 after 5.
'56 HARLEY-DAVIDSON, model 165, 200 or best offer. Beach, AL 6-6165.
VACUUM CLEANER, Universal tank type w/attachments, \$25. Shepherd, AL 6-2059.

3 BRM HOME, living, 1 1/2 baths, carpeted, drapes, large dining, dinning area, SE Heights location, Castoria, AL 5-7095, 925 Kentucky SE.
KODAK RETINA II, 35mm, f:2.0 lens, speeds 1 to 1/500, coupled rangefinder, sunshade, case, \$65. Petrone, Ext. 45194 after 5:30.
COFFEE TABLE, walnut; 2 end tables, blue glass tops, \$6 each; walnut drop leaf table, \$20. Hostetler, AL 6-3803.
HUNTING COAT, sheepskin lining, \$7.50; heavy duty Sears portable sander w/case, \$22.50. Goris, AX 9-2924.
'52 PLYMOUTH, 4 door, \$350. Nielsen, 2901 Tennessee NE, AX 9-2919.
UPRIGHT PIANO, Steger and Sons Patent Grand; needs tuning, \$90. Reese, AX 9-0866.
ELECTRIC RANGE, Norge, \$50. Ramirez, 2617 Indiana St. NE.
ELECTRIC RANGE, GE, w/30 inch oven, timer, light appliance outlets, cost \$259, sacrificing for \$125. Wank, AX 9-3450.
HI FI SPEAKER enclosure, Karlson 15 inch, unfinished plywood, assembled, \$25. Hinde, AX 9-3214.
HI FI SPEAKER in Klipsch Rebel IV oak-finished cabinet, British Stentorian 1012u, \$35; also Viking PB-60 tape recorder preamp, \$17. Sinnott, AX 9-1300.
FIREPLACE WOOD, Pine, \$20 a cord; pinon and cedar, \$28 a cord. White, CH 3-6051.
MOUNTAIN LOT No. 46, Sandia Knolls, water and electricity available, my equity and \$25/month payments, total, \$800. Fulcher, Hays Trailer Ct., Space No. 8, 132 Virginia NE, Ext. 42343.
'53 CADILLAC 62, PS, R&H, WW, Hydramatic, \$995, have three cars, must sell one. Hueter, CH 21620, 1300 Las Lomas Rd. NE.
ACCORDIAN, Princetti w/case, 120 bass, 5 switch keyboard, 2 switch bass, ivory keys, original cost, \$495, will sell \$175. McMurray, AM 8-0259.
BLOND TABLES, three matching, Pearl, AX 9-5121.
'58 HOUSE TRAILER, 33 ft. Capri, one bedroom, will trade \$100 equity for NE, home or sell trailer outright, \$4000. Byrne, DI 4-3834.
'57 MUSTANG Cycle, 4-speed, \$260, terms available. Kopp, AL 5-3393 after 5.
TWO FORMALS, size 10, ballerina length, net, \$15 each or best offer. Jolley, DI 4-0724, 3002 Sierra Dr. NE.
'58 HOUSE TRAILER, 33 ft. Capri, one bedroom, will trade \$100 equity for NE, home or sell trailer outright, \$4000. Byrne, DI 4-3834.
'57 MUSTANG Cycle, 4-speed, \$260, terms available. Kopp, AL 5-3393 after 5.
TWO FORMALS, size 10, ballerina length, net, \$15 each or best offer. Jolley, DI 4-0724, 3002 Sierra Dr. NE.
MATTRESS, double-bed size, cotton, used on guest bed, \$7.50; day bed, w/pad, can be opened to single or double-bed size, \$2.50. Dieruf, AX 9-4525.

NEXT DEADLINE
FOR SHOPPING CENTER ADS
Friday Noon - Dec. 5

TRAIN EQUIPMENT, miscellaneous, mounted on board w/engine and several cars, make offer. Miller, AM 8-1939, 2904 Dakota NE.
21" TV, Magnavox, walnut, lowboy design, '57 model, best offer. Dowling, AX 9-6911.
LEWIS VIOLIN, full size, includes bow, case and music stand, \$60. Mancuso, AX 9-5252.
TRAILER Hitch, Equalizer, \$50; 30 foot TV extension pole, \$17. Payne, AM 8-3184.

Sandia Corporation SURPLUS CARS and TRUCKS AUCTION
Dec. 6, 1 p.m.
1119 Candelaria NW

- 11 Carryalls
- 11 Pickups
- Station Wagons
- Trucks
- Forklifts

AT YOUR PRICE

'50 BUICK Roadmaster, R&H. Souder, Ext. 34161.
ELECTRIC TRAIN, Lionel, complete (remote and manual switches, remote uncoupling), automobile timing light. Spray, 11605 Baldwin NE, AX 9-0412.
ICE SKATES, boy's size 7, \$5. Vogel, AL 5-9368.
ENLARGER, Federal 21 1/4 x 31 1/4 condenser model w/lens and carriers, \$35. Allen, AL 5-7048.
26" BICYCLE, ladies English Schwinn, cost \$70, sell for \$40; ladies Johnson ice skates, size 6, \$5. Snodgrass, AL 6-4072.
BABY BATHINETTE, \$10. Schaefer, AX 9-7558.

MATTRESSES, twin size, two, innerspring, both for \$40. Daut, AL 5-2529, 1718 Solano Dr. NE.
GERMAN SHEPHERD, AKC Registered, male, 10 months old, good bearing and temperament, just too big, reasonable. Engquist, AL 6-3361.
WALL TELEPHONE, crank type, refinished, Christmas present for your den, \$20. 1873 Springfield Rifle, \$15. Ives, AX 9-7003.
DRAFTING INSTRUMENTS, Deitzgen Commander, \$12.50. Farrier, AX 9-5783.
WEDDING SET, four diamonds in wedding band, large center diamond in engagement w/2 small diamonds, set in yellow gold. Gilmore, DI 4-0119, after 5:30 p.m.
17" TV, Hotpoint, portable, 1958 model, cost \$189, sell for \$110. Stewart, AL 5-9967.
AUTOMATIC HUBS, power-matic hubs for '53 Jeep Station wagon, completely automatic, \$40. Seavey, AL 5-5071 after 5:30.
'56 CHEVROLET, V-8, ivory, 210, 2-door, one owner, very clean, \$1195. Schellenbaum, CH 3-1126, 420 Yale SE.
PUPPY, MALE, 8 weeks old Christmas, only one left, \$5. Knight, 10120 Propps Dr. NE, AX 9-2700.
'57 PLYMOUTH, Savoy, 4 door, V-8, push button drive, R&H, whitewalls, 12,000 miles, will trade for cheaper car. Dascher, AX 9-1802.
'58 FORD, 4 door, 9 passenger station wagon, 4000 miles, will take trade. Suttman, AX 9-6754.
'53 PONTIAC Chieftain, deluxe, new interior, engine just overhauled, new shocks and paint job, reason for selling, getting new car, \$600. Hughes, AX 9-5054.
GIRL'S BICYCLE, 26" English. Chapman, AX 9-3946.
26" BIKE, Hawthorne, \$15. Ewald, AL 6-5677, 2704 Georgia NE.
'56 CHEVROLET, 2-door, Bel Air, hardtop, tinted glass, R&H, WW's, Corvette engine, 4-barrel Carburetor, Powerglide, \$1450. Callison, Ext. 4-9289.
GAS RANGE, Kenmore, \$40; gas floor furnace, 50,000 BTU, \$10; Rollaway bed, \$10; child's bed, \$20, boy's 20" bike, \$8. Overbury, AL 5-7788.
GAS STOVE, Kenmore; Wallensack Stereotape machine, pilot amplifier, speaker for second channel, American Flyer train, table. Bachand, AX 9-5167.
DINETTE SET, chrome, new upholstery, \$35. Courtin, AM 8-0065.
BOSTON BULL TERRIER, 9 mos. old, male, \$35, full blood, no papers. Renfro, AL 5-9554.

KIMBALL SPINET piano Style 20 and bench, fruitwood, 16 months old. Cost \$900, sell for \$575. Meyer, AL 6-3926.
BOXER PUPS, AKC registered. Graham, AM 8-8346.
FENDER SKIRTS for '56 CHEVROLET, \$5. Tichenor, AL 5-5183.
GAS RANGE, Odin, double oven, electric clock and timer, table top burners, \$40 or best offer. Cason, AX 9-7427.
DOUBLE OVEN gas range, \$85. Carroll, 27616 Vermont NE, AX 9-6357.

LOST AND FOUND
LOST—10 year Sandia Corp. pin, jade earring, heavy black rim glasses, dinner ring shaped like grape cluster, left in Bldg. 802 restroom, Sandia Corp. 5-year pin, blue topcoat, silver chain necklace, abalone shell notebook, gold and abalone cuff link, green clip-on sunglasses. LOST AND FOUND, Ext. 26149.
FOUND—Tan knit glove with leather palm, pearl drop rhinestone earring, black lunchbox, pearl and old chain necklace, gold cuff link, First National bank book. LOST AND FOUND, Ext. 26149.

WANTED
STEEL CASEMENT window with glass and hardware, approximately 36" wide by 24" high. Also boy's ice skates, size 4 or 5. Adams, AL 6-7265.
HOMES FOR KITTENS, free, delivered anywhere in New Mexico. Tatum, CH 2-9021.
ENCYCLOPEDIA, Mrs. Kalberg, AM 8-0728.
SINGLE PERSON to share new 3-bedroom and den home with two other bachelors. Also 6'9" or 7" skis and Cubco safety bindings. Spray, AX 9-0412.
JEEPSTER, any condition. J. Colp, AM 8-8035.
NICE HOMES for five kittens, some all black, some black and white, long haired, domestic. Edgar, AL 5-9070.
DOIG LOVERS. Have four puppies to give away. Lindsey, Box 301, Cedar Crest, N.M., base ext. 35252.
IRONING to do in my home, \$1.25 a dozen. Trujillo, 1429 55th NW.
BABY SITTING. Reliable high school girl, vicinity Ridgcrest-Kathryn. Courtin, AM 8-0065.
SMITH-CORONA portable typewriter, elite type, good condition. J. J. Miller, AL 5-7716.

FOR RENT
SINGLE ROOM with private bath, lady or gentleman. Shaw, AX 9-0611.

Sandia Service Bridging Plan Benefits Rehired Employees



Frieda Salazar

Since Sandia Corporation's Service Bridging Program went into effect on April 1, 1958, 37 employees have received the advantages of increased employee benefits. All the employees have had a new term of employment of five years after prior service with the Corporation.

As an example, Frieda Salazar (7225/5000) was reemployed by Sandia on April 1, 1953. She had worked before from Dec. 7, 1948 to Oct. 31, 1952. Her current service date is May 7, 1949, which is determined by adding the three years, 10 months previous service to her April, 1953 date.

Norman L. Smith (2242) is another employee who has added almost a year to his service date. He was first employed by Sandia from April 11, 1949 to Jan. 25, 1950. He was rehired on July 12, 1950, but his current service date is Sept. 27, 1949.



Norman Smith

Dr. Whitcomb Discusses Improved Math Teaching In Silver City Talks

Needs for improved instruction in mathematics were discussed by Stuart E. Whitcomb (5131) before two groups in Silver City last week.

He spoke before 300-400 students and faculty members at New Mexico Western College Nov. 18 and later the same day addressed the Parent-Teacher Association at Laboratory Elementary School.

A Corporation employee since July, 1957, Dr. Whitcomb was previously head of the Physics Department of Kansas State College in Manhattan.

Four Agencies Plan Christmas Program Aimed At Help for Needy

Christmas is traditionally the time for giving and in past years Sandia Corporation has encouraged its employees to refrain from exchanging cards with co-workers and instead use the money to aid less fortunate families.

The Salvation Army, Department of Public Welfare, Catholic Charities and Elks Club will cooperate in locating the families needing help. Their needs will then be listed with the Council, so that duplication of aid may be avoided. All deliveries of donated items will be made by the four agencies. There will be no direct contact between donors and recipients.

The Albuquerque Council of Social Agencies is once again serving as a "clearing house" for donors and recipients. As was the case last year, the names of individuals and families in need of food or clothing will not be given out in order to avoid embarrassment to individuals and to insure privacy for those who do not wish to be identified as objects of charity. The Council will, however, direct individuals or organizations to one of the four agencies, who will suggest where help is needed.

Another special feature of the Council's service will be to help extend the benefits of December giving through the other 11 months of the year. Too often the generosity expressed at Christmas time does not extend beyond the holidays and the well-meant gifts

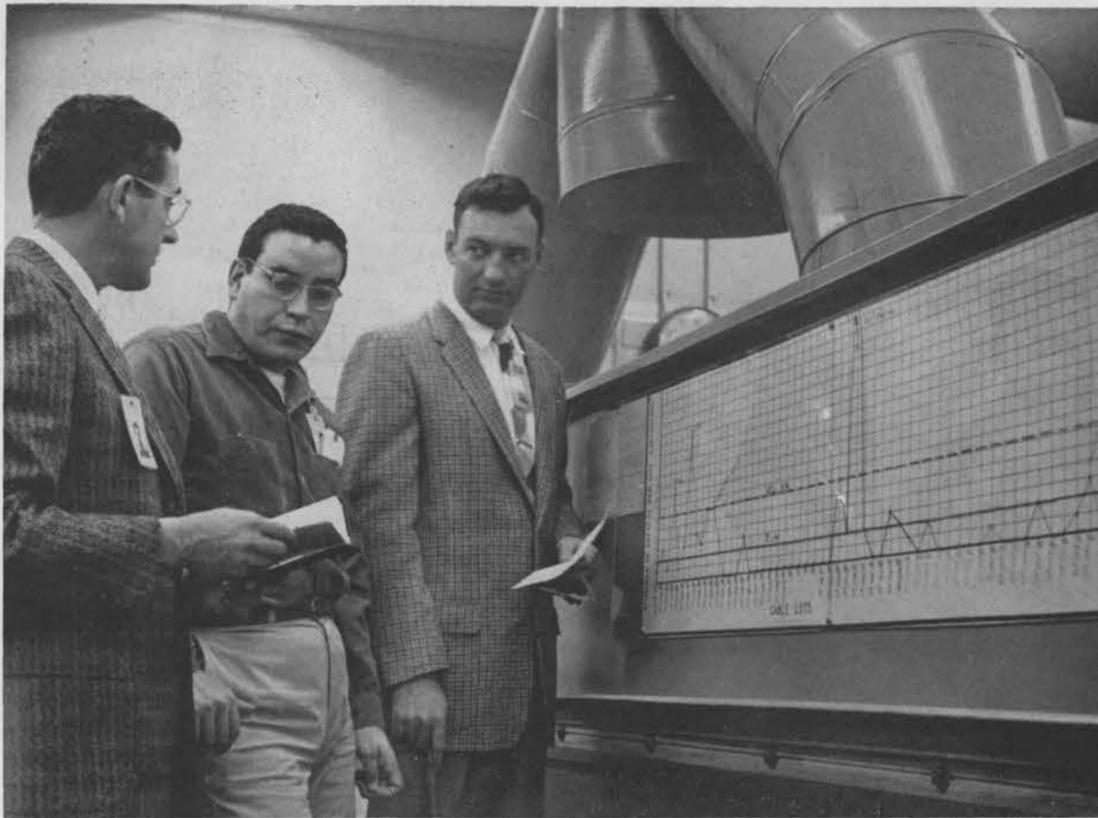
of food at that time only make the plight of the family more tragic, unless the aid can be spread over the period of need.

It was pointed out that there is a year 'round need for imperishable food and clothing to be distributed to less fortunate families. Cash contributions are especially welcomed by the Council or any of the four agencies coordinating the Christmas program. Often times special clothing or food is needed and must be bought.

The "Toys for Tots" program will be handled by the Marines again this year with each agency allocated a number of toys to be distributed to families they are helping.

Employee Services Division, 3122, will be glad to assist Sandia organizations in providing information or transporting donated goods to the Council office downtown. In the interest of conserving the time of the Council staff, it is suggested that telephone inquiries concerning the Albuquerque Christmas program for the needy be made to Ext. 26149, Division 3122.

A number of organizations have already started cash collections and in some locations containers have been placed for the donation of canned food and gift items. Last year some groups selected needy families outside the Albuquerque area for direct assistance or turned over their presents of food and clothing to one of the Indian pueblos in the vicinity.



QUALITY CONTROL CHART showing production quality record of the Cable Section 2231-4 is studied by (L to R) J. J. Reck, section supervisor, Ernest

Lovato, layout operator, and M. M. McKinley (2514), quality control engineer. Dotted line represents point at which quality is unacceptable.

Quality Control Chart Shows Excellent Record of 2231-3

Since the installation two months ago of a quality control chart to monitor the production of the Cable Section 2231-4, morale of the 30 employees is running high, according to J. J. "Jim" Reck, section supervisor.

"We can see our quality record at all times," Jim says, "and it's an incentive to improve. Our number of rejects has dwindled considerably since we started using the chart."

For a number of years the Cable Section has been producing about 50 types of special cables for use in production testing equipment and prototype weapons. Production of the cables has averaged about 150 per week. An excellent, but erratic, quality record had been achieved.

"Some weeks we would have no rejects at all," Jim said, "but then we would have several in a row. For this reason we asked the Statistical Quality Engineering Control Section 2514-3 to take a look at our operation and see what could be done."

Moving in a pattern established by Quality Control engineers in Sandia supplier plants throughout the country, a study was made of the Cable Section and several methods of quality control were considered.

A quality control team was appointed and control at the point of production was established.

"Quality is built into a product, not inspected into it," Tom Harrison, 2514-3 section supervisor says. "The quality control team is an instrument for action to eliminate defects."

The team consists of Mr. Reck, who is chairman, M. M. McKinley (2514-3), quality control engineer, and Floyd Kunz (2555), manufacturing engineer. The team analyzed the record of the section and determined the limits of acceptable quality. The limit is represented on the chart by a red line. As the lots of assembled cables are inspected the number of rejects are plotted. If the number goes above the red line it is a signal for action by the quality control team.

Some 25 separate operations are used in the production of the cables, from soldering, potting in plastic, heat treatment of coaxial cables to installing the plastic sleeve that covers the assembled cables. The chart helps to pinpoint the operation that is causing rejects. The quality control team investigates and recommends ways to eliminate the cause of the defects—in some cases faulty equipment has been replaced and new

procedures for assembly have been created.

The chart also has value in the day-to-day operations of the cable assembly employees. "The chart is a working gauge of our performance. It's a real help in keeping jobs in production up to the standard," is the way David Gonzales, layout operator, described the chart's use.

"The necessity for quality is an ever-increasing requirement," Tom Harrison said, "nuclear weapons have to be the very best. It is Sandia's job to do everything possible to meet this requirement."

AOA Asking Members To Help Check Roster

All Sandia Corporation employees who are members or who wish to become members of the Albuquerque Post of the American Ordnance Association are urged to contact A. M. Fine (1261), ext. 35156.

The organization is currently bringing its roster of members up to date prior to starting a membership campaign. Interested persons may contact Mr. Fine or E. C. Williams (1247), ext. 35259, and W. F. Shoemaker (1217), ext. 24161.



EMPLOYEES of Cable Section 2231-4, proud of their quality record, display finished special cables that will be used in production of testing equipment and prototype nuclear weapons. From left are

Garnet Mastin, Mabel Perriguet, June Kupiers, David Gonzales, Frank Leyba, Jr., Elizabeth Davis, Florence Smythe, Lorraine Craven and J. J. Reck, who is supervisor of the Cable section.



Sandia Corporation Has Worked
43 DAYS
Without a Disabling Injury

HERE'S WHY...

Sandia Corporation employees do not take chances based on the probability of injury; they exercise care based on the possibility of injury. Corporation employees guard their pleasures with safety measures.