

ALASKA TRIP by M. L. Merritt and R. A. Bice to Cape Thompson near the area being surveyed as included stopovers at cities shown before proceeding a possible site for a nuclear-created harbor.



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JULY 25, 1958

MIT Officials Visit Sandia

A vice president and two vice chancellors of the Massachusetts Institute of Technology visited Sandia Corporation this week to learn about Sandia's administrative practices.

In the group were Malcolm G. Kispert and Dr. Carl Floe, assistant vice chancellors of the Institute, and Lt. Gen. James McCormack (Ret.), vice president for industrial and government relations at MIT. During their stay here they conferred with Sandia Corporation President James W. McRae, F. J. Given (7000), L. J. Heilman (7200), J. M. Campbell (4100), R. B. Powell (3100) and officials of the Purchasing Organization (4300).

The MIT visitors operate the administrative programs at the Lincoln Laboratory and Instrumentation Laboratory at the Institute.

Sandia Starts Planning Annual Fair Exhibit

"Science at Sandia" is the theme of Sandia Corporation's forthcoming annual exhibit at the New Mexico State Fair, Sept. 27 through Oct. 5.

The State Fair Committee, headed by Ted B. Sherwin (3125), is now making plans to exhibit several new and interesting displays, the nature of which will be reported later in the Sandia Lab News.

Subcommittees of the main committee and their membership are:

Exhibit design and coordination: John Leslie (4111), chairman, Wally Ives (2463), Kerner Kerston (7113) and Dick Berner (5150). Layout and fabrication: George Power (2441), chairman, Brian Finley (3125), and A. B. Metzger (3210), safety coordinator. Exhibit procurement: W. A. Gardner (1610), chairman, N. J. Eich (1462) and R. H. Gablehouse (5223).

Deadline Approaches for Enrollment In Sandia's New Health Care Plan

Only four days will remain next week for employees to enroll in the Sandia Corporation Health Care Plan, for which the Corporation will pay \$2 toward each employee's monthly premium.

By July 23 more than 4500 employees were enrolled in the plan.

Enrollment cards and booklets giving details of the plan are available from division supervisors. Completed cards should be returned to Division 3122.

The new plan will become effective Aug. 1 for employees enrolled before the July 31 deadline. If the employee previously subscribed to

the old Hospital-Surgical Plan, the switch to the new Health Care Plan is virtually automatic even though the employee or one of his dependents may be in the hospital or ill.

Weekly-paid employees will have four deductions made for each month's premium. For those enrolling after July 15 two deductions will be made Aug. 1. Monthly paid employees enrolling after July 15 will have two deductions made Aug. 31 (for the August and September premiums.)

New certificates are expected to be in employee's hands within two weeks.



SANDIA CORPORATION HAS WORKED
50 DAYS
WITHOUT A DISABLING INJURY

HERE'S WHY...

Every employee — yes, you too — realizes the fact that "knowing how" to work safely is not enough. To avoid needless pain and suffering we must "use" our knowhow!

Sandia Engineers Advise On Nuclear Blast to Build Port

R. A. Bice (5200) and M. L. Merritt (5110) joined scientists from the University of California Radiation Laboratory (UCRL-Livermore) last week in an advisory capacity in the first field study to determine feasibility of using nuclear explosives to create a harbor in northern Alaska.

The study is part of Project Plowshare, the non-military use of nuclear explosives. The Alaska harbor site, located near Cape Thompson, was selected for the project as an aid in developing fishing and mineral deposits in the area. The lack of a suitable port has impeded exploitation of these resources.

Air Trip

In their air trip last week Mr. Bice and Dr. Merritt stopped at Seattle, Wash., Juneau, Anchorage, Fairbanks and Kotzebue, Alaska. Dr. Merritt, a member of the survey party headed by Dr. G. W. Johnson (UCRL), camped out on the shore of Cape Thompson with the party on July 17, 18 and 19 while the survey was being made.

A separate group, composed of Mr. Bice, Dr. Edward Teller, Director of UCRL, Livermore, and W. B. Reynolds, University of California, inspected the harbor site by air on July 17. Earlier the two Sandians met with Alaska's Governor Stepanovich and conferred with officials of the University of Alaska at Fairbanks and

Corps of Engineers, Alaska District, at Anchorage.

The proposed harbor site, between Cape Thompson and Cape Seppings, is 100 miles northwest of the nearest town of consequence — Kotzebue — which has a population of 623 people. It is 100 miles inside the Arctic Circle and about 170 miles from Russian territory. Temperatures in the area at this time of year range from 40 to 60 degrees. Low clouds and fog cause overcast conditions for 80 per cent of the time and the ground remains frozen a foot or two beneath the surface all year.

Study Feasibility

The purpose of the site surveys, the AEC announced, is to "obtain detailed cost, topographical, geological, and oceanographic data, as well as to insure that such an operation would be safe with respect to persons within and outside the immediate area and to fish and wildlife.

"If it is found that such a project is both safe and practicable upon completion of these surveys, the excavation could take place in 1960. The United States proposes to invite representatives of other nations to witness such excavation," the announcement concluded.

Sandia Asked to Assist LASL In Peaceful Uses of the Atom



HIGH VOLTAGE is fired through a dummy load in connection with "Sherwood" engineering studies being performed by the Special Projects Division (1265). Allen Church throws a switch and a shorting wire on the load is completely vaporized.



CURRENT WAVE FORM in an experimental discharge circuit is examined on a scope by J. A. Johnson of the Special Projects Division (1265). The study is in connection with "Project Sherwood."

Sandia Corporation has been requested to help Los Alamos with two new programs dealing directly with the future uses of atomic energy. As yet the work is on a limited scale at Sandia but promises to gain magnitude in the future.

Working in support of the AEC's nuclear physics laboratories, Sandia is currently investigating problems dealing with "Plowshare," (the non-military uses of nuclear explosives), and "Project Sherwood," a study of techniques to control thermonuclear energy.

Scientists and engineers assigned to the "Plowshare" project at Sandia are conducting studies leading to the use of nuclear explosives for peaceful applications, among which is the creation of a new harbor in northern Alaska.

Sandia's responsibilities in this project include the determination of the sizes of nuclear devices to be detonated, how deep they should be buried, blast safety studies, arming and firing of the devices, the resulting craters and other blast phenomena. This work, and the selection of the site for the harbor, is being done in conjunction with other government agencies under the direction of the University of California Radiation Laboratory at Livermore, Calif.

Sandia organizations participating in "Plowshare" are the Weapons Effects Department (5110), the Physical Research Department (5130) and the Full-Scale Test Department (5230).

In the thermonuclear field Sandia is doing work at the request of the Los Alamos Scientific Laboratory on "Project Sherwood," the investigation of thermonuclear power for peaceful applications. Sandia scientists and engineers are working on unique power supplies, circuitry, switches and fuses to feed millions of amperes at high voltage into experimental "Sherwood machines" at Los Alamos in an attempt to achieve a controlled thermonuclear reaction.

Scientists and engineers from the Applied Sciences Division (5131), Special Projects Division (1265) and the Component Development Organization (1400) are working on this program.

Sandia's activities in these two areas will be covered in greater detail in early issues of the Sandia Lab News.



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The Reaper's Report

With annual report time at Sandia Corporation at hand this appeared to be the moment to assess a special report on highway safety.

In doing this it was again proven that Sandia employees are safer the eight hours they are at work than they are the other 16 hours of the day.

A check of Sandia Lab News files showed that two employees last year lost their lives in automobile accidents, the first such fatalities for Sandia employees. The Lab News sympathy columns listed numerous other highway deaths occurring in immediate families of Sandia employees.

Sandia Corporation employees were killed on the highways at about the same rate as was the experience of all residents of this country which was 1.61 per 7000 employees. So our rate is no better and no worse than the nation as a whole. We're just about as careful as the average driver.

This is an old story. The Corporation can go on year after year doing fairly hazardous work without a fatality. Employees die on the highway while seeking pleasure.

Last year there were 38,500 motor vehicle deaths in the United States and 427 in the state of New Mexico. This year promises to have a happier record, but the year is still young so we cannot be sure.

Highways are still crowded, dangerous and insidiously appealing. Future ventures onto the nation's roads will remain precarious.

Let's hope that next year when we come to make our annual highway report we will have better news.

Fun Seekers

Adventures on land and in the air were sought by Hal Ragsdale (5126), Joe Hankins and Joe Weihe (5122) when they took off from Albuquerque last week in a Tri-Pacer plane.

Hal was a passenger as far as Abilene but the others flew on to Laredo where they caught a bus for Monterrey in Old Mexico.

Welcome Back

Friends welcomed back Mildred Whitten (8212-4), Livermore Branch nurse, on July 7, after an illness of eight weeks. She is back at her duties on a half-day basis.

Friends of Bennie Longfellow (2124-2) welcome him back to work. Bennie has been off due to an extended illness.

Congratulations

Born to:

Mr. and Mrs. William Clement (2544-1) a son, J. Bradley, on June 17.

Mr. and Mrs. T. A. Allen (2231-3) a daughter, Janene Cecile, on June 16.

Mr. and Mrs. Sanford L. Erickson (1622-1) a daughter, Sandra Rachel, on July 8.

Mr. and Mrs. Charles D. Salazar (2461) a son, Charles Lawrence, on June 24. Lucille formerly worked in 7225 assigned to 1625.

Mr. and Mrs. Milton Kane (5141-1) a son, Thomas Michael, on July 10.

Mr. and Mrs. Bruce Wilcox (5141-2) a daughter, Jane Ann, on July 12.

Mr. and Mrs. Malcolm J. Snyder (2211) a son, Michael James, on July 15.

Mr. and Mrs. Don Peterson (5122) a son, Brian David, on July 11.

Mr. and Mrs. Russell L. Maxwell (1473-3) a daughter, Shirley Jean, on July 7.

Mr. and Mrs. Jack Cannon (2461-5) a daughter, Jeanne, on July 10. Ann formerly worked in 7226-1.

Mr. and Mrs. Henry Passmore (7412-3) a son, Norman Todd, on July 1. Jeannette formerly worked in 7226-1.

Mr. and Mrs. John Williams (7412-3) a son, John S., on July 14.

Mr. and Mrs. Alsid LaMord (2163) a son, Mark Francis, on July 6.

Mr. and Mrs. Don R. Wheaton (8224-2) a son, Mark Charles, born June 29.

Mr. and Mrs. Al A. Alford (8113-1), a son, Frank Thomas, on June 27.

Mr. and Mrs. H. J. Smyth (2461) a son, Shawn, on July 18.



Jackie Weirick (2530)

Take a Memo, Please

In every state in the U. S., the penalty for ignoring electrical hazards may be electrocution. This may seem shocking but it is true.

Six Sandia Drivers In Micro Midget Racing Circuit

The Albuquerque Micro Midget races tomorrow will likely find several Sandians striving to hold their association standings or better their places. Six Sandia Corporation employees are currently among the top ten drivers.

R. E. "Bo" Bohannon (1613) and Dean Hitchens (1247) are presently in first and second places. Dick Case (1472) is fourth, L. E. Sharp (7223) is fifth, Mel Heisler (1611) holds down seventh place and Larry Woolrich (1612) is ninth in the standings.

AEC Service Awards

Ten year service pins have been awarded by the AEC recently to two employees in the Sandia Area office.

Peggy Henrie is in charge of the AEC Pass and Badge Section of the Security Branch, where she has worked for ten years.

Bart F. Swanson is employed as a mechanical inspector with the Acceptance-Inspection Branch.

Congratulations

Willis "Bill" Jobe (2411-1) and his wife celebrated their 34th wedding anniversary at a party at the Coronado Club July 20. Bill has another anniversary coming up in November when he receives his 10-year pin at Sandia.

Mr. and Mrs. Joe Montoya (2163) observed their 12th wedding anniversary on July 15.

Another couple marking a wedding anniversary this month is Mr. and Mrs. E. L. Arterburn (2151-1), their 17th on July 12.

Congratulations to Allen E. Hall, (2121) and his wife. They celebrated their 14th wedding anniversary on July 15. Each also has a birthday in July.

Chest Puffing

Co-workers of Ralph Holland (7311-3) are well aware of one thing — he just became a grandfather for the first time, a 10 lb. granddaughter at that!

Sick List

Flossie McCoy, who recently became secretary of 3160, is convalescing following minor surgery.

A quick recovery is wished for Kay Schall (8223-2) who underwent an emergency operation recently for a ruptured appendix.

Winning Streak Ends For K. L. Gillespie

After pitching 22 consecutive wins for the 1400 Sandia League softball team, K. L. "Ken" Gillespie (1474) dropped a game July 9 to a fired-up 4100 team led by pitcher Frank Lucero (4135). The score was 11 to 4.

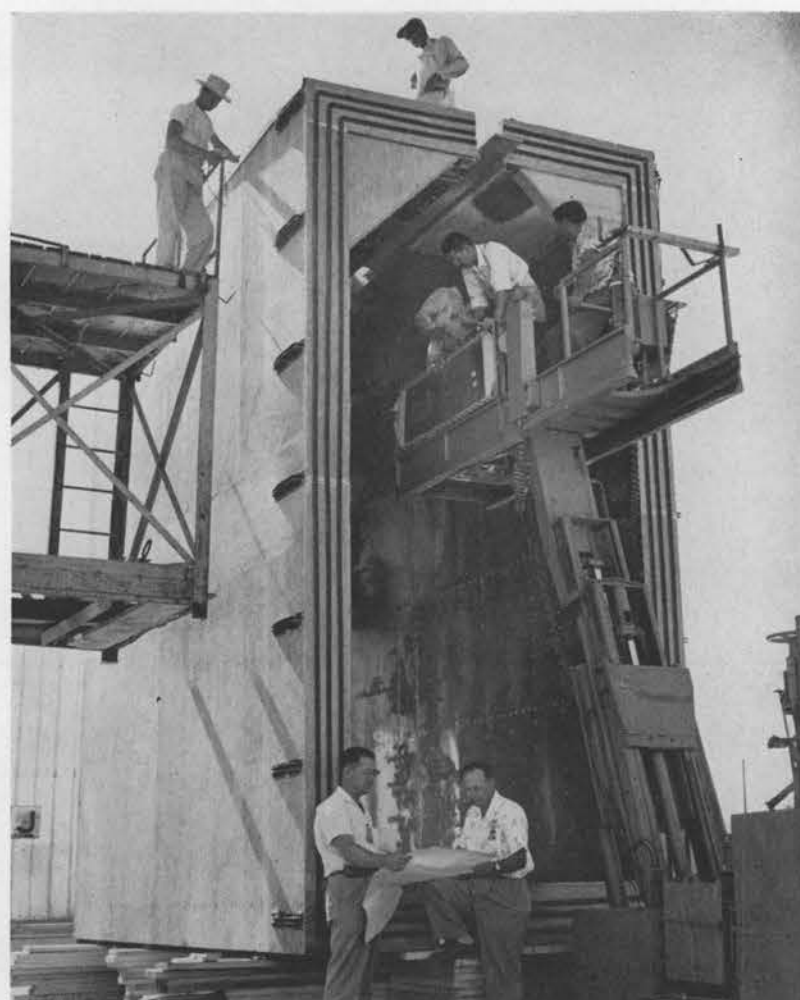
Ken piloted the 1400 team to a league championship last season with 13 wins and no losses and was well along this season with nine wins to complete an almost unbelievable 22 consecutive win record.

Last season Ken pitched three games a week on two occasions with one series on consecutive nights. Pitching isn't his only flair as he is currently hitting an even .500.

Softball Standings

June 18

"A" League		
Team	Wins	Losses
2500-1	12	1
1400	10	3
3100	8	5
4100	6	7
7200	5	7
1200-11	4	10
4300	4	10
7400-11	3	10
"B" League		
Team	Wins	Losses
1200-b	12	4
2100	11	4
5100	10	5
2400	10	6
7400-1	8	7
5200	7	6
5500	7	8
2500-11	4	9
1600	3	13
2700	2	12



SANDIA'S LARGEST fork lift usually used for cleaning third story windows was needed by carpenters in 2232-5 for working on this huge cold chamber. Robert L. Shuman (1613) and G. M. Austin (2232-5 supervisor) go over the top, while Joe Hinrichs works on the outside, Sam Smith is on top, and Henry Fulmer, Willie Montoya and Paul Silva of the motor pool are inside the container.

Tackling Unusual Is Commonplace For Ingenious Carpentry Section

A full scale model rocket launcher mount, a mammoth ice-bbox and a recirculating snow machine may sound like unusual work projects for a group of carpenters, but to the men of Section 2232-5, Packaging Division, they are routine.

The Carpenter Section is under the supervision of G. Marvin Austin and does work for any Sandia organization.

The men made from wood a 12-foot exact scale model of a metal launching mount and also another rocket mount 24-feet high for Sandia's Armed Forces Day exhibit this year. The snow machine was part of another display demonstrating environmental testing.

This month they completed a three-week project: construction of a 1900 cu. ft. cold chamber ordered by the supervision of 1613 for testing purposes. The wooden box is 19 feet high and has walls between 10 and 14 inches thick. The same amount of fiber glass insulation material is contained in these walls as is normally used in four three-bedroom houses. The inner walls are faced with aluminum.

The icebox is constructed with one end removable so that the entire unit can be moved on tracks from under a drop tower. A slot in the roof allows for insertion of a cable to lift parts for impact testing.

According to Robert L. Shuman, engineer in 1613, the chamber will utilize a dry ice cooling unit borrowed from White Sands Proving Ground which has a range of about minus 100 degrees F. to plus 165 degrees F.

Moving Day

New home owners are Earl McFadden (2154-1) and his family who recently moved into their new home at 2412 June NE.

New home owners Al Vogt (1245) and his wife Ruth (4333) spent last week moving into 2101 Erbbe NE.

Prize Winner

The First Corrales Benefit Horse Show netted the Corrales library about \$550 and young Pete Roper a ribbon for horsemanship.

The 12-year-old son of Ellis Roper (5513-1) will also have his name inscribed on a permanent trophy to be placed in the Corrales library for "best sportsmanship, attitude and results."

"This job was simple compared to some we get," said Mr. Austin. "Sometimes the engineers come around with just an idea of what they want. It's up to us to figure out ways to build something from that idea."

No matter if presented with sketch, idea or just dimensions, the men prefer being able to use their trade experience combined with creative ability in completing the job. Often several days of drawing time may be saved in this way.

Mr. Austin has proof of how satisfied his men are with their Sandia work. Of the 14 men in the section, three (including Mr. Austin) have their 10-year service pins and the newest member has received his five-year service award.

The section includes two men, Ronald Skelley and Milton Guest, who are deaf-mutes. Mr. Austin had special praise for their ability to retain information acquired in their trade. Both men read lips and know sign language and are able to communicate sufficiently well with their co-workers.

Weddings and Engagements

Mr. and Mrs. Paul Spencer, Jr., are making their home at 549 Mulberry St. SE following a wedding trip.

Mr. Spencer and the former Carol Goats (7225) were married July 12 in an afternoon ceremony at the Methodist Church in Clayton, N. M.

At home in Albuquerque after a two-week honeymoon in Oklahoma City are Clarence Ford and his bride, the former Phyllis Drake. The couple were married in Albuquerque June 27.

Phyllis has worked at Sandia in 2221 since last August.

Sympathy

To Eulita North (2231-4) for the death of her father July 2 in Oklahoma City, Okla.

To Robert Hartenberger (2473-2) for the death of his father recently in St. Louis, Mo.

To Don Morrison (5126) for the death of his father-in-law in DeKalb, Ill., on July 9.

To John Moffet (2151-2) for the death of his mother July 4 in Albuquerque.



MORE ARTISTIC ABILITIES under one roof than in any other building at Sandia is the claim of technical illustrators and other members of Division

2463. The two sections recently moved from Bldg. 802 to Bldg. 626. The new quarters provide them more space than was available in Bldg. 802.



ANALOG COMPUTER is explained by Frank Lane, left, during a tour recently of Sandia Corporation facilities by fellowship winners of National Science Foundation attending an AEC science seminar.

Sandia Scenes



NEW RADOME to house weather radar antenna at Salton Sea Test Base is made of plastic which allows the unit to operate through it. Year around protection is given for the weather balloon track-

ing equipment. (L to R), Howard Austin (5222), Gordon Hawley (5214), and B. G. Edwards (5214). Two such radomes have been installed recently at the test site to assure continuous operation.



SCENE FROM "SANDIA STORY" is this Indian dance, one of several to be included in the forthcoming film describing Sandia's job in the nuclear weapons program. The film also contains several scenic views of New Mexico and historic activities.



OCEAN BOUND for five days this month were several Sandia officials who were invited by Rear Adm. Frank O'Beirne, formerly Commander, FC/AFSWP on Sandia Base, to stay aboard the USS TICONDEROGA during an exercise in the Pacific off California. (L to R) Eaton H. Draper, Director of Systems Development; Dr.

Harold Fidler, Manager, San Francisco Office, AEC; Admiral O'Beirne; W. J. Howard, Director of Systems Development at Livermore; James W. McRae, President, Sandia Corporation; R. E. Poole, Vice President at Livermore, and Dr. John Foster, Deputy Director, UCRL, Livermore. This photograph courtesy Mr. McRae.



HORSESHOES AND HAMBURGERS were features of the picnic-and-cook-out held by members of Drafting Section 7411-6 and their families near Las Huertas this summer. Shown here are Mr. and Mrs. James West, Mr. and Mrs. Robert Hewitt and Ralph Niebel.

'Field Reps' Are Voice of Sandia Corporation in Hundreds of Supplier Plants Throughout the Nation



AREA INVESTIGATORS located in Albuquerque are liaison men between Division 2713 headquarters and the field offices. Counter clockwise: Everett M. Giesecker, William R. Luxford, Jack Underwood, Floyd Hursh and James W. Courtin.

Each workday highways and airways of the nation are speeding a small group of Sandia employees off on a quest for products. In a business where the best is none too good, these field inspection representatives are the voice of Sandia Corporation at plants of the suppliers to the Corporation.

Sandia's field representatives are "at the office" when in the plants of these suppliers. Their mission: Assure Sandia receives quality products for the nuclear weapons program. Their duties range from actual product inspection to providing advice on supplier quality control systems.

Field Inspection Division Headquarters is in Bldg. 894 in the Sandia Corporation Technical Area. But seldom, if ever, is the "front office" visited by these travelers.

Area Offices

Harold G. Jeblick, division supervisor, keeps in touch with them through section supervisors in Albuquerque and four other cities throughout United States.

"We have headquarters in New York City, Chicago, St. Louis, Beverly Hills and Albuquerque," he says. Field inspection representatives work out of these offices. And "out" it is, according to Mr. Jeblick, who likes to relate that each year the number of hours they spend in the office is far exceeded by the number of days in the field.

Though scattered throughout 29 states, the field reps, all 59 of them, are never out of touch with home base. These days there is increased effort for better communications for better business. But Sandia's field reps have been practicing this for a long time.

Communication Problems

Recently Division Supervisor Jeblick issued a directive with several changes listed for field men. "It brought about new responsibilities, new problems and new operating methods for them," he explained.

Reps were informed they could have final acceptance responsibility for almost all Sandia products at suppliers' plants. The directive caused some stir in the field, telephones jangled and there was a flurry of letters. But these changes with important implications to the men who were remote from supervisors went into effect without a serious hitch.

What kind of a field rep is it that can accept sudden changes in policy while at distance of a thousand miles from his "boss"? What kind of a man is it who will work, day after day, far from his family and successfully represent Sandia? Just who are these field representatives about whom we know so little?

Portrait of a Rep

Harold Jeblick answers these questions. "Sandia's field representative is a man who can work under limited supervision on widespread assignments in remote locations. He has at least 10 years experience in mechanical or electrical fields. He



SUPERVISOR'S CONFERENCE—Coming from the far corners of the country area office managers met in Albuquerque recently. (L to R): T. H. Moyer, St. Louis; Sam Allen, Chicago; M. D. Engle, Los Angeles; H. G. Jeblick, Division Supervisor, Albuquerque; C. A. Stoner, New York; J. G. Wimpling, Service Section, Albuquerque; and Fred Redlinger, who is supervisor of the Albuquerque Area Section.

is a mature responsible person who can establish and maintain good relations between a supplier and Sandia Corporation.

"The field rep is a man who can be away from home for long periods of time and if the need arises move his family to another city on short notice."

One might think this would drive Sandia's field inspection representatives away from the job, but they have been with the Corporation for an average of five years.

Do qualified men want the job? There are enough applications for this line of work that Sandia can be "choosy" in its selection. There is an average of 17 applications for every job.

Close Relationship

When Sandia's field representative walks into the door of a new supplier a close relationship between the two companies quickly develops.

To help the supplier the FR constantly inspects Sandia products—in receiving of materials, in process of production and in final form. Further, he advises the supplier on inspection sampling plans, records defects and keeps the supplier informed on inspection findings.

He also reviews supplier quality control programs, tool and gage control, drawing systems, safety practices, housekeeping, and all other factors which influence product quality.

Though far from Sandia headquarters the field man must work closely with many Sandia organizations. Through reports they maintain contact with manufacturing engineering and the purchasing organizations, informing them of design and production progress.

Calibration and equipment organizations are notified of the

condition of equipment furnished by them to suppliers and field offices. Quality Assurance and Reliability organizations are posted on test results.

Exacting Work

"This is an exacting work," Division Supervisor Jeblick admits. "But we never find our men bored, restless or just plain disinterested."

"Their work itself is interesting and nature provides a bit of excitement from time to time," he adds.

They have changed tires for marooned motorists, they are a fountain of information as to road conditions, they know where the best coffee is served on many a highway and know just which shortcut is best to get from here to there.

Sandia's field reps fought Hurricane Diane in 1954, and others before and since; they saw homes demolished, people die, and the seaboard paralyzed. Blizzards have marooned them, tornados have forced them underground and traffic accidents to others have made them even safer drivers. Brush fires have cut them off from home and work, earthquakes have rattled their cars and there have been thrilling moments on commercial airlines.

Despite all the hazards of nature and man, these field reps have not had one automobile accident in the past five years. Only one minor injury has been experienced—a man slipped on an icy airplane ramp. He suffered a swollen knee.

But the field rep with the most unenviable experience reports right here from New Mexico. His car was stopped by high water after a flash flood. And marooned he was, even after the water went down. The ground was a mass of mud, washed in by the water.

Field Reps Everywhere
These Sandia Corporation field

representatives don't feel any different than by any other Corporation employee. They are philosophical about other employees not knowing that they exist.

However, if someday a Sandia tourist in some far corner of the country has a stranger walk up and say, "I work for Sandia in 2713,"

it just could be. From Florida to Oregon and from New England to Southern California these men are on the road almost daily.

In a recent year they traveled in excess of 1,000,000 miles. And it's all in an effort to bring better products into the nuclear weapons program.

The Pictures

Throughout the nation, day in and day out, Sandia Corporation field inspection representatives are working. The Sandia Lab News photographed some of these men in the plants of their suppliers and the pictures are included here.

Only a few of Sandia's several hundred suppliers are shown in these pictures. Multiply what you see here a hundred times and you can picture the daily work of the field inspection organization.



BEVERLY HILLS, CALIF.—The product of a supplier in the Los Angeles area is tested by Fred K. Harrison, Harold L. Smith and Lester O. Wicke. Work is being performed in the L. A. Laboratories.



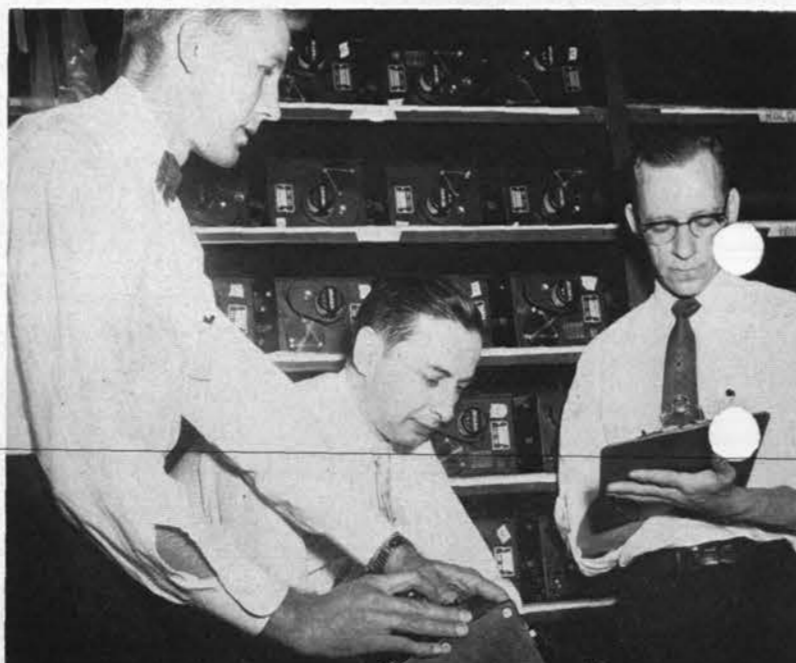
ST. LOUIS, MO.—In the laboratories of Universal Match Company field inspection representatives of Sandia Corporation are frequently found. Standing (L to R): Dag Rogers, Universal Match; Joe Woodley, Sandia Corporation; Don Barrett, Universal Match, and Joe Gordon, Sandia Corporation.



CHICAGO, ILL.—Don Arthur, (center) Sandia field inspector, works with William Wilson (left) inspector, and Joseph Hopp, quality control organization engineer of Motorola Corporation.



DENVER, COLO.—Plant of The Ramo-Wooldrige Corporation's Electronic Instrumentation Division is headquarters for Werner Bach, Sandia's resident inspector. Left is Joe Sbordone of quality control, and right is Walter Hermann, superintendent of electrical, mechanical assembly, Ramo-Wooldrige.



ELMHURST, N. Y.—At Kollsman Instrument Corporation, Jack Smith, left, and Robert Goldsworthy, right, work with quality control representative of the Kollsman company on a Sandia tester.



DANVERS, MASS.—Quality control lab at CBS Hytron was the scene of Sandia work when the photograph was taken. Standing (L to R): H. C. Andrews, Sandia field representative; F. H. Garceran, CBS Hytron manager of government sales; D. A. Sokolov, manager of gov't. products; and S. A. Butkus, Sandia field rep.



ALBUQUERQUE—Quality for Sandia orders gets attention at Dale Products, Inc. (L to R) Jerry N. Curbow, Dale Products inspector; Gilbert R. McGuinness and D. G. Lewis, Sandia field representatives during a recent visit to the Dale plant.



ST. CHARLES, ILL.—F. C. Spaulding, Sandia field representative, works in the quality control department of the DuKane Corp.

Photo Credits

Kollsman photo by Kollsman Photo Labs. CBS Hytron, Universal Match and Ramo-Wooldrige photographs provided by suppliers. Motorola photograph by Motorola Photo Labs.

U.S. Supreme Court Asked to Reveal Ruling on Moving Tax

Under a "writ of certiorari" a petition was filed last week with the U. S. Supreme Court by two Sandians asking the court to review a decision by a lower court which ruled that reimbursed moving expenses are subject to federal tax.

The petition, in behalf of Sherrill O. Woodall (7412) and Glenn S. Mills (1541), was filed by attorney John P. Dwyer assisted by attorneys John B. Tittmann and Virgil L. Brown. The court is expected to review the petition when it reconvenes this fall.

Involved are two suits filed by the Sandians as test cases representative of 700 other employees of Sandia Corporation. All were reimbursed by Sandia Corporation

for travel expenses incurred in reporting for work here after being hired elsewhere.

A decision by U. S. District Judge Carl A. Hatch in Albuquerque last summer, in favor of the Sandia employees, ruled that since they realized no personal gain from the reimbursement it could not be considered as taxable income. The government appealed the decision and action by the Circuit Court of Appeals reversed the earlier ruling.

While a Supreme Court decision is awaited efforts are being made by the Sandians to have a bill introduced in Congress which would eliminate taxes on such travel and moving expenses.

L. J. Heilman On Base Committee; Plans Carnival

L. J. Heilman, Superintendent of Research and Development Staff Services, has been chosen to serve as Sandia Corporation representative on the Sandia Base Community Fund Committee.

Other Sandia employees serving on committees are: Howard Viney (7310), who will serve as chairman of the Promotion committee; W. T. Moffatt (5240), a member of the Operation committee; and George Horne, Jr., a member of the Food and Drink Concessions committee.

The group was formed to help raise money for Base community efforts, especially in connection with youth activities. Other members of the committee are: C. C. Campbell, Manager of the AEC's Sandia Area Office; Lt. Col. H. H. Haines, and Lt. Col. M. E. Leeper, representing Sandia Base Command, and Lt. T. F. O'Brien, representing Manzano Base.

The committee will sponsor a carnival to be held on Sandia Base Aug. 29, 30, 31 and Sept. 1. A commercial operator will provide the rides and other carnival attractions, however Base organizations such as PTA and Boy Scouts are expected to operate the food and drink booths.

Committee members hope that

Radiation Nil In Area II Fire

Fire in a waste radioactive materials dump in Area II last week was quickly extinguished by the Sandia Base Fire Department. No radiation hazard was found by monitoring teams of the Industrial Hygiene Division (3161) who surveyed the area during and after the fire.

Cause of the fire was believed to be spontaneous combustion. Damage was limited to the cover of the pit and the loss was less than \$50.

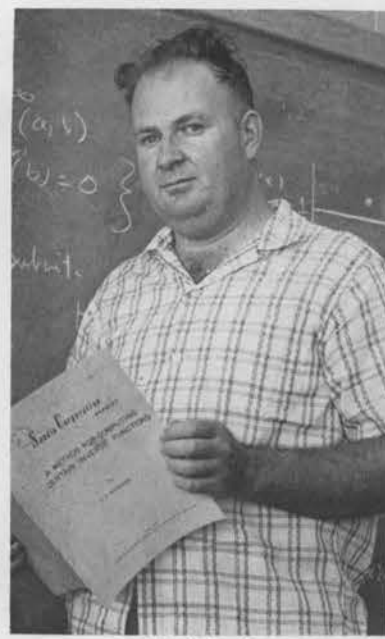
The radiation monitoring team, headed by Richard Drake and Harold Rarrick, found no traces of radiation in the smoke from the fire any further than 100 yards away. Smoke-carried radiation within 100 yards was extremely light, it was reported by Bill Kingsley, supervisor of the Industrial Hygiene Division.

I. J. Everett, Industrial Hygiene Chemistry Section, ran extensive soil and vegetation analyses in the immediate area and reported only trace amounts of radiation, which were far below the maximum permissible levels allowed by AEC standards.

through sponsorship of a yearly carnival it will not be necessary to solicit contributions from other organizations.



G. P. Steck
—normal distribution—



D. R. Morrison
—compute logarithms—



D. B. Owen
—mathematics tables—



M. M. Karnowsky
—molten metals—



A. W. Snyder and J. L. Colp
—describe Sandia reactor—

Sandians' Technical Articles Circulated Widely in Journals

Barbeque and Dance Planned Aug. 2 by Sanado Women's Club

Sanado Club members and their husbands are invited to a barbeque dinner and dance Saturday, Aug. 2, at the Coronado Club.

Western attire is the mode for the chicken barbeque which will be served from 7 to 8:30 p.m. Following the dinner Mr. and Mrs. Chester Skinner will entertain with three exhibitions of folk dancing. Regular dancing is planned from 9 to 12 with music furnished by the MBC Trio.

Decorations in western decor will feature wagon wheels, bales of hay and straw, colorful lanterns and watering troughs in a rustic setting. Decorations were arranged by Mr. and Mrs. Max Richter and Mr. and Mrs. Douglas Ballard.

Honored guests for the evening will be Governor and Mrs. Edwin Mechem. Hosts for the evening include Mr. and Mrs. Thomas Pace, Mr. and Mrs. Robert Hopper, Mr. and Mrs. William Sharp, Mr. and Mrs. L. W. Otski, Mr. and Mrs. R. J. Hansen, Mr. and Mrs. L. J. Paddison, Mr. and Mrs. Thomas Zudick, Mr. and Mrs. Thomas Marker, Mr. and Mrs. Charles B. O'Keefe, Mr. and Mrs. W. Kraft, Mr. and Mrs. Harlan Lenander and Mr. and Mrs. P. Callies.

Reservations or cancellations must be made by noon, July 28, by post card to Mrs. Richard Othmer, 2109 Hendola Dr. NE.

Now at Home

Best wishes to Merle Alexander, (2124-3) and his wife, the former Juanita Ford. Juanita and Merle were married on July 12 in Christ Methodist Church, Albuquerque.

rockets and nuclear ram jet projects.

In closing, the citation read, "The singularly distinguished accomplishments of Doctor Mills in the field of propulsion have earned him the gratitude of the United States Air Force."

Sandians Participate In AEC Industrial Relations Conference

Current developments in personnel administration and industrial relations were discussed during the fourth annual Albuquerque Operations Industrial Relations Conference held July 22-24.

Judson Ford, Director of ALO's Organization and Personnel Division, served as general chairman of the conference between AEC employees and representatives of prime contractors in the weapons program.

Sandia Corporation participants in the discussions included apprenticeship programs, L. E. Castle (3124); rotational assignments, J. W. Galbreath (3152); management seminar, D. J. Jenkins (3123); appraisal of personnel functions, J. H. Gibson (3154); recruitment and trends in wages and salaries, K. E. Sutton (3151-1), and technical discussion of wage and salary administration, W. L. Martin (2513).

Meteorological Society Holds Sandia Meeting; Sees Weather Device

Members of the American Meteorological Society will meet on Sandia Base July 31 for a demonstration of the GMD Rawin Sonde used to determine upper air winds and other climatic conditions.

The sample operation of the instrument will be conducted outside of Bldg. 898 at 7 p.m., weather conditions permitting. Precision measurements are being taken with the instrument here for several weeks before it is delivered to Salton Sea Base to become part of the regular range instrumentation.

State meteorologist H. J. Plagge, T. J. Raftery, C. A. Olson, T. Y. Palmer (all 5243-2) and G. L. Miller (5243) will be hosts for the visiting weather men from the U.S. Weather Bureau, Kirtland AFB Air Weather Service, U.S. Forestry Service and New Mexico A&M College.

Several Sandia Corporation authors have had articles printed in recent issues of technical publications.

G. P. Steck (5125) was the author of an article entitled "A Uniqueness Property Not Enjoyed by the Normal Distribution" which appeared in the June issue of *Annals of Mathematical Statistics*. One application of the article is the determination of the accuracy of certain statistical tests.

An article by M. M. Karnowsky (1626), entitled "An Improved Design for Cast Tensile Bar Molds," appeared in the June issue of *Modern Castings*. The article helps describe the behavior of molten metals as they enter a sand mold cavity.

A paper by J. L. Colp and A. W. Snyder (1626) entitled "A Facility for the Study of the Effects of Radiation on Materials" describing Sandia's Engineering Reactor Facility, has been published as Sandia Corporation Reprint No. 15. It was also sent to the AEC's Technical Information Service at Oak Ridge for the Civilian Application Program and was further made available to the public through the Office of Technical Services of the Department of Commerce.

Another Corporation Reprint, "Tables for Computing Bi-variate Normal Probabilities," was written by D. B. Owen (5125). One application of the paper is a method to select people for various jobs, based on aptitude test results.

Latest in the reprint series of technical articles is one entitled "A Method for Computing Certain Inverse Functions" by D. R. Morrison (5126). A simplified way to compute logarithms of numbers is one application of this paper.

Attends MIT Course

Attending a two week summer course at MIT is Dick Hildner (5122). The course is called "Probability and Its Application to Operations Research."



MARK JOHN MILLS, accepting the Exceptional Service Medal posthumously for his father, Dr. Mark M. Mills, is shown shaking hands with General James H. Doolittle, who presented the award. Looking on is Mrs. Mills. Dr. Mills died while in the Pacific.

UCRL Scientist Presented High Award Posthumously

The Exceptional Service Medal, the nation's highest civilian decoration, was awarded posthumously at Livermore recently to Dr. Mark M. Mills, University of California Radiation Laboratory scientist who died in a helicopter crash at the Eniwetok Proving Grounds last March.

Reserve Air Force General James H. Doolittle, chairman of the Air Force Scientific Advisory Board, presented the medal to Doctor Mill's 12-year-old son, Mark John, during ceremonies at UCRL.

General Doolittle was designated personal representative for Air Secretary James H. Douglas and Air Force Chief of Staff, General Thomas D. White.

The citation accompanying the award told how Doctor Mills had distinguished himself by "exceptional meritorious service" to the Air Force from 1953 to 1957. He was a member of its nuclear panel and later chairman of the fuels and propulsion panel of the Scientific Advisory Board. Doctor Mills' leadership was also cited for his personal contributions in nuclear

Sandia Service Awards



Joseph Dirnberger
5214
July 19, 1948



Eugene Dirnberger
5214
July 19, 1948



Mavis G. Randle
7221
July 26, 1948



Bernice K. Duke
4131
July 26, 1948



Richard L. Starkey
2473
July 27, 1948

10 Year Pins



James A. Maxim
5232
Aug. 2, 1948



Thomas F. Marker
1520
Aug. 2, 1948



Howard E. Vey
7310
Aug. 2, 1948



Everett L. Deeter
1540
Aug. 2, 1948



Loretta E. Morris
3153
Aug. 2, 1948



Paul A. Silva
2473
Aug. 3, 1948



James R. Craig
1463
Aug. 4, 1948



Charles M. Grassham
1611
Aug. 4, 1948

Five Year Awards

July 25-31
Paul F. Bahr 1544, James E. Hare 4112, Fred J. Weibell 1285, Anne D. Michele 2464, C. H. Stockley, Jr. 5231, and Ferne L. Saylor 8113.
Aug. 1-7
Dale M. Richey 1544, Gerald L. Lancaster 7313, Russell W. Sheppard 7232, Milton D. Meek 2418, and Pancrasio Gonzales 2418.

Two Year Certificates

July 25-31
Jane E. Chase 5111, Howard J. Perdue 7322, Harry E. Kinney 1285, Ralph E. Grill 1521, F. I. Sistrud 1284, Robert P. Verdier 8124, Richard Chavez 2133, and Ramon R. Aguilar 2742.
Aug. 1-7
John E. Moore 2511, John B. O'Meara 2731,



Robert L. Armstrong
7123
July 27, 1948



Abel Lovato
2473
July 27, 1948



Mabel J. Brown
7329
July 29, 1948



Gordon R. Bachand
1521
July 30, 1948



Edwin B. Bergquist
4344
Aug. 2, 1948



Wallace F. Boyes, Jr.
2462
Aug. 2, 1948



James W. Pinkerton
2721
Aug. 4, 1948



James B. Shelton
7314
Aug. 5, 1948

Ivan H. Gillett 7131, Leland J. Llamas 1456, Luke F. Stravanski 1222, Jose S. Llamas 1215, Dal- J. Means 7411.
Mickel D. Campbell 7324, Jack H. McFarlane 8114, Fidel Gonzales 2474, F. E. Ramirez, Jr. 8231, Herman C. Marquez 2414, Floyd P. Nercott 1224, James L. Hay 2152.
Harold S. Garcia 2461, John E. Tarpley 2542, Richard J. Mickey 2463, J. C. Robertson, Jr. 2511, Jack B. Joyce 1282, Stephen H. Neff 2533, Adeline A. Stransky 7411, George J. Savitser 7326, John A. Kimberley 2532.
Jack W. Scheerer 7411, William S. Myers 7412, Norman E. Bauder 5232, William H. Carter 7312, Mervin J. Monday 7225, and Wilfred Otero 7423.

Tropical Decor Sets Theme For Coronado Ball

The trade winds of the tropics and the sandy beach atmosphere of an island lagoon have been transported to the Coronado Club for the annual Beachcombers' Ball planned for tomorrow night.

Jim Caldwell and his orchestra will beat out murmuring strains and jungle rhythms from 9 to infinity for the entertainment of the costumed dancers. As in past years valuable prizes will be given to the best-costumed couple and single entries.

A. K. Leupold Retires After Long WE Service

A. K. Leupold, manager of Manufacturing Engineering Department 2550, will retire Aug. 1 after 38 years in the Western Electric Company.



A. K. Leupold

He came to Sandia eight years ago from Chicago and it was almost like coming home. Mr. Leupold had moved to New Mexico as a child and graduated from the University of New Mexico where he remained for six years as a faculty member in engineering before joining WE.

Mr. and Mrs. Leupold will continue to live in Albuquerque at 2720 Utah NE, but much of their time will be spent in travel and photographing the scenic spots they visit. Their daughter lives here but their sons are in California and Florida.

On Aug. 15 the Leupolds will leave for Honolulu. Mr. Leupold notes, "This is the first time we've traveled without a definite time schedule. We may be gone a week or several months."

Loretta Morris Gets 10 Year Pin; Retires Same Day

Retiring July 31 will be Loretta Morris, who on the same day will have completed 10 years of employment at Sandia.

She has worked almost entirely with security clearances in Employee Records Section 3153-1.

Her retirement plans are rather unusual — she's going back to school! For a long time Mrs. Morris has wanted to take a thorough review of business and office procedures so now she has enrolled in a local business school for four hours of class a day.

"The classes are all in the afternoon," she explained, "because mornings I want to be able to sleep as long as I like."

Later in the year Mrs. Morris has plans for extensive travel to California, Arizona, Old Mexico, Missouri and Florida. Her home address will continue to be 411 Eighth St. NW, Albuquerque.



Loretta Morris

Kolodner Lectures To Start Aug. 5

A series of lectures by Ignace Kolodner, University of New Mexico mathematics professor and Sandia consultant to 5120, will be held every Tuesday and Thursday starting Aug. 5.

The talks will be based upon "Asymptotic Integration of Ordinary Differential Equation" and will be given from 10:45-11:45 through August and early September.

Information regarding location of the lectures may be obtained from Betty Trump, 5120 department secretary, Ext. 34146.

SHOPPING CENTER

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CLASSIFIED ADVERTISING

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

RULES

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

FOR SALE

3 BEDROOM HOUSE, by owner, 1 1/4 baths, pitched roof, air conditioned, 2-car garage, landscaped, near school, NE location, Wallis, AL 6-4241.
4 BEDROOM HOUSE w/attached garage, landscaped, sprinklers, walled-in back yard w/large patio, near elementary school. Eichart, AL 5-2247, 430 Mesilla NE.
COLT FRONTIER .45 cal., \$85; .22 auto. pistol w/extra clip, \$35, will trade for old guns or coins. Zaluga, DI 4-1564.
RADIO-PHONOGRAPH, mahogany table model w/automatic record changer, \$50 or best offer. Brown, DI 4-3933.
'57 FORD, 1/2 ton pickup, mileage only 6986, owner sacrificing, Paul, CH 3-5240.
WHEELBARROW, \$10; Scott spreader, \$5; garden roller, \$15. Laskowski, AL 6-2053.
CREAM SEPARATOR, table model; Carlton stainless salad master, Walnut buffet. Williams, DI 4-1000.
'50 BUICK, Roadmaster, 4-door, \$200. Souder, Ext. 3-4161.
ELECTRIC FAN, Westinghouse, 14 inch oscillating, 3-speed, cost \$50, will take \$25. Shane, AL 5-5673 after 5.
STUDIO COUCH w/2 slip covers, \$45. Blake, AX 9-5279.
'57 CHEVROLET transmission, 3-speed, \$65. Pliner, AL 6-1907, 6210 Bellamah NE.
MOUNTAIN LOT suitable for cabin or house trailer, power and water to lot, Sandia Knolls sub-division. Brunson, AM 8-2338, after 5.
BASSINETTE, \$3.50; baby scales, \$4; bird cage, \$3; household scales, \$1; bath-room scales, \$3; electronic kitchen clock, \$3. Berry, AX 9-4765.
PORTABLE TV, Hotpoint, in original carton, never used, list \$149.95, sell for \$90. Campbell, Ext. 4-6286.
'56 HOUSE TRAILER, 41 foot, sell or trade for equity in 3 bedroom house. Payne, Ext. 44259, 225 Louisiana SE.
'55 FORD, Custom, 4-door V-8 with R&H and overdrive, \$875, no trades. Ward, Ext. 71210 after 5 p.m.
GIRL'S BIKE, all new accessories including basket and light, \$22.50. DeSelm, 513 Carlisle SE, AL 5-2634.
'54 CHEVROLET 6 Bel Air, two-tone, four door sedan, new tires, \$895. Abbott, Ext. 26265.

MOTOR SCOOTER, Cushman, new tires, \$150; '50 Olds, 88 convertible, new WV tires and top, \$300. Samuelson, AL 5-8243.
GAS RANGE, apartment size, made by Welbilt. Carter, AL 6-9166.
2 DECK CHAIRS, folding, \$1.50 each; blackboard 24x30, \$3; clothes drying rack, 75 cents; pocket book editions, 10 cents each. Vale Ext. 22284.
CAMERA 120 ZEISS IKO, 125th sec., \$8; 26" English 3-speed girl's bike, \$25. Telo, AX 9-6155.
WILSON GOLF SET, 4 woods, 8 irons, collapsible cart, \$70; wicket table, \$3.50; bamboo blind, \$5, hot plate, \$2; Fletcher, AL 5-0797.
CAMP COOK STOVE, 3-burner, w/windshield, new, never used, cost \$24.95, first check for \$10 gets it. White, AL 5-8491.
MOVIE CAMERA, Keystone K-29, roll film, 8mm, w/case, Type A filter and filter adapter, \$20. McFarling, AL 5-7865.
WALNUT EXTENSION TABLE, 2 leaves, 5 chairs, 1 hostess chair, \$75. Brown, AL 5-5494.
3 BEDROOM HOUSE, 1 1/4 baths, separate guest house with own bath, built-up neighborhood, \$3500 down to \$15,500 FHA. Crosby, AL 6-5189 after 5.
'49 PONTIAC, R&H, good second car, \$175.5. Peterson, AL 6-7514.
AUTOMATIC WASHER, Maytag, completely overhauled, available last week in July, \$85. Edwards, AL 5-2828.
UMBRELLA TENT, 9x9. Geibel, AM 8-8147 after 5.
FEMALE DACHSHUNDS, AKC registered. Vandi, AL 6-9404.
'22 MOSSBERG RIFLE w/leather sling, bolt action, \$20; one-wheel trailer, utility, bearings repacked, \$25. Mahoney. AX 9-6241 after 5.
OSCILLOSCOPE, 3" Heathkit, \$20; sacrifice diamond rings, \$18 and \$23; antique cut glass, reasonable, Boag, AX 9-5939.
'55 CHEVROLET, Bel Air hardtop sport coupe, V8, Powerglide, R&H, new tires, best offer. Gard, Ext. 21147 after 5, men's dormitory.
FULL-SIZE BED, complete w/box spring and innerspring mattress, adjustable steel bed frame w/headboard brackets, \$45. Wacek, AM 8-8579.
24" BOY'S bicycle, floor lamps, youth chair, child's rocker, wood utility table. Danzer, Ext. 24181, 3116 42nd Pl.
'56 PLYMOUTH, 2-door Savoy, Powerflyte transmission, w/w tires, back speaker, \$1100. Parr, AL 5-9579 after 5.
'52 FORD, R&H, Fordomatic, one owner, \$485; '49 Ford, R&H, overdrive, one owner, \$225. Preston, AX 9-1948.
GAS DRIER, Whirlpool, needs timer, \$25; baby bed, \$15; buffet, \$10; vanity chest, \$5; Teeterbabe, \$3.50; pedal car, \$5. Silva, CH 3-0191.
'51 NASH RAMBLER, \$325; dining room set, mahogany, \$40 or best offer, overhead garage door w/fixtures, \$25. Gonzales, CH 3-9392.
KNIFE SET, 13 piece stainless steel Regent-Sheffield, 24-kt. gold plate trim handles, slicing, steak, carving, new \$30. Gates, Ext. 46198.

NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Aug. 1

SPINET PIANO, Betsy Ross, blond finish, only slightly used, \$450. Ward, AL 6-5306 after 5.
14 FOOT BOAT, Speedliner, 25 h.p. Evinrude motor w/boat trailer and life jackets. Fenimore, AM 8-0757 after 5.
REFRIGERATOR, 10 cu. ft. Hotpoint, 65 pound freezer compartment, storage shelves in door and vegetable crisper, \$125. Johnson, AM 8-8784.
BRACELET, spider-web sterling and turquoise, two sterling guards, \$25. Quigley, AL 6-6622.
GARAGE DOOR HARDWARE, two complete sets used, Standley, make offer. Gregory, AM 8-2022.
FLOOR FAN, Havco, \$10; electric clippers, \$5. Eaves, AL 6-4818, 1705 Georgia NE.
'49 CHRYSLER, Windsor deluxe, one owner, 5 new tires, new motor overhaul. Mahboub, AL 6-5721.
KITCHEN TABLE, small, wooden drop-leaf, \$4; custom-made fiesta dress, size 16, \$12; night stand, \$2; table lamp, \$1.50. Weimer, AL 6-0327.
'55 THUNDERBIRD, R&H, power brakes, electric windows, seats, hard top and convertible top. McCullar, Ext. 33161.
MAHOGANY BED, 2 chests of drawers, bed frame, kitchen cabinet, chest, vacuum. Boeck, AL 5-4323.
MAPLE BUNK or single beds w/innerspring mattresses, \$47.50 or make offer. Stuckey, AL 5-2442.
REVOLVER, .22 caliber Smith & Wesson, K-22, staghorn grips, special trigger and hammer, fired only when loaded, \$65. Shunmy, AX 9-2787.
AIR CONDITIONER, Hotpoint, refrigeration type, 1957 model, window mounting, thermostatically controlled, used 3 months, \$75. Fisher, AL 6-1684.
ROLLAWAY BED, Ingram, CH 3-7982.
'57 PLYMOUTH Fury, R&H, steering, glass white walls, \$2500 or will trade for older car or pickup. Dempsey, Ext. 48185.
OUTBOARD MOTOR, Elgin 12 h.p., 6 gal. external fuel tank, less than 20 hours running time, \$200 or best offer. Conolly, AL 6-3275.
SERVEL REFRIGERATOR, 5.5 cu. ft., \$20. Lambert, Ext. 45155.
TV TRUTONE, console model, \$50; power lawn mower, needs work, \$20. Jolley, DI 4-0724, 3002 Sierra Dr. NE.
WESTINGHOUSE DRYER, Amana 19 cu. ft. freezer, car cooler, youth bed set, yellow chrome dinette set, make offer. Wise, DI 4-6692 after 5.
MODERN TRAILER, 29 foot, small equity, take over payments. Crowder, AL 6-2132.

CRIB, WET-PROOF mattress, maple youth bed and mattress, mahogany veneer antique youth bed frame. Finley, AX 9-0739, 2725 Los Arboles Pl.
WROUGHT IRON BED, with mattress, \$15. Morris, AX 9-3804.
'46 CHEVROLET, usable as second car. Davidson, AX 9-4637.
GIBSON AMPLIFIER w/8" and 12" speakers, \$50. Ezell, AL 6-4220.
RIFLES, 2 small .22 caliber rifles for \$3 and \$5, need repairs. Want old pistols. Smith, AX 9-1096.
FOUR PUPPIES, mixed breed, mother is toy shepherd, \$2 each. Hurt, AX 9-7263.
MAGNOVOX HI-FI: AM-FM Radio combination, Collaro changer, 20 watt push-pull amplifier, 4 speakers, lined oak cabinet, \$200. Powers, AL 5-1997.
LOCKER TRUNKS, 3 for \$3 each; Sioux heavy duty rotary sander for auto refinishing, \$20. Glenn, AL 5-6569.
TWO LOTS on Neetsie Dr. just off Sunset Rd., west of River, 120 x 170, make offer. Sawtelle, 2231 Mountain Rd. NW.
REFRIGERATOR, Westinghouse, new \$350, now \$110; gas range, new \$160, now \$110. Ballint, Ext. 42295, 3038 33rd Pl., Sandia Base.
MODERN LAMPS, pair, floor or bridge, \$15; pair table lamps, \$10. Weber, AX 9-1389.
NATIONAL FREEZER, 17 cu. ft., assume \$22.33 payments. Martinez, DI 4-7321.
26" BIKE, girl's English, \$30. Chapman, AX 9-3946.
HAMBURGER GRILL and pie case, salt and pepper shakers, good for fiestas and booths, best offer. Work, AL 5-0527.
ENGLISH SPRINGER Spaniel puppies, good family companions, AKC registered, have received permanent shots. Barth, Ext. 46240.
WOOL RUG, 9 x 20, \$50; Schiller piano, vertical grand, dark finish, \$200. Pine, AL 6-3214.
SNOW RESALE, 3 Bm., 1 1/4 bath, 26 ft. living room, drapes, carpet, fireplace, double garage. Nieman, 10608 Snow Heights Blvd. NE, AX 9-4659.
HEATHKIT Impedance Bridge, Mod. IB-IB (copy of G. R. Model 650 A), \$32.50; clock radio, \$17.50. Bruffett, CH 2-5429 after 5.
'57 VOLKSWAGEN, Delux, magestic white, blue inside, 12,000 miles, \$1500. Scussel, AL 5-7922.
EVAPORATIVE COOLER, Arctic Circle 3000 CFM, new pads and serviced for season, \$75; GE automatic washer, \$75. Bice, DI 4-7107.
'57 CHEVROLET, Bel-Air 4-door sedan, PG, '55, R&H, Bragg, 216 Vineyard Rd. NW, Ext. 26195.
MOUNTAIN HOME, two level, two bedroom, garage, modern conveniences, 1 1/2 acres, ranch, irrigating system, 8 miles from Sandia. Hunt, AL 6-1038.
BEAGLE, AKC registered, eight weeks old, female. Kantz, AX 9-5450.
2 BRM. HOME in Princess Jeanne addition, landscaped, walled back yard, attached garage, washing machine, electric stove, refrigerator included. Stewart, AX 9-7412.

'50 NASH, new battery and misc. parts, good transportation, \$145. Goodwin, AL 6-7145, 1860 Georgia NE.
PORTABLE BAR, bamboo-wrought iron, rose colored Formica top, two swivel bar stools w/back rests, also has brass rails. Leyba, AL 5-2068.
HOUSEHOLD FURNISHINGS—Refrigerator, 220-range, gas incinerator, 2 TV's, Hifi, power tools, tables, man's club chair, hassock, bedframes, mahogany buffet. LeCompte, AL 5-3261.
WANTED
HOUSEKEEPER, full time, live in, including care of 2 year old boy. Benedict, AL 5-0234 after 5.
CHAIN SAW in good condition, used, must be reasonable in price. Knoff, DI 4-6623.
GIRL'S BICYCLE, 24". Haverty, DI 4-5813.
HOMES FOR KITTENS, Longhaired, 3 red males, 3 black females, your choice, ready Aug. 1. Osterby, AX 9-4606 after 4:30.
HOMES FOR KITTENS, All sizes, shapes and colors available. Tatum, CH 2-9021.
HOMES FOR KITTENS, Four black & white long-haired domestic, want nice homes, 7 weeks old. Edgar, AL 5-9070.
BUTANE or Propane tank, 500 gal., used. Aaron, CH 3-4684.
CHEST of DRAWERS, fishing equipment and war souvenirs. Pritchard, AL 6-5667.
SMALL PETS and birds boarded, no dogs or cats, 25 cents per day. Judy DeSelm, 513 Carlisle SE, AL 5-2634.
FOR RENT
FURNISHED HOUSE available Sept. 1 for six months, three bedroom, 1 1/4 bath, located two blocks north of Fairgrounds, \$150 a month. Gray, AL 6-1560.
LOST AND FOUND
LOST—Chihuahua, dark tan, 10 months old, 408 Montclair SE, female, lost 6-20; wallet with ID of Euliojo Sanchez; white lunch pail with initials; sterling bronc rider tie chain; stainless Parker 51 pen; black frame glasses in white and brown case; cut-off clipboards w/telephone work orders; flight sunglasses; opal cuff link; ladies 3-diamond gold wedding ring; silver loop earring; slightly tinted glasses w/crystal sets in black frame; Sandia Corporation 5-year pin; blue eye shadow stick; check book w/name Doris Welsh; Sandia Corporation 10 year tie clip; sterling wood on silver keys on brass soldered ring; 7 color top keys; lunch bucket w/name Phil Owens; clip-on sunglasses, 4 keys on chain. LOST AND FOUND, Ext. 26149.
FOUND—Lord Chesterfield black and silver lighter; gold frame glasses in James Opticians case; rose color glasses w/gold frames; yellow bead loop earring; 2 GM sunglasses, Blank No. Y1 key; 2 clip keys on ring w/embler; 1 house and 1 GM key on ring; SC-1 and St. Christopher key in Mexican leather holder; white pocket holder w/Sheaffer and fine-line pencil, also Papermate pen; keys in Al. Huerby Co. case; silver spiral drop earring; black rotary; keys on brass wire. LOST AND FOUND, Ext. 26149.

Supervisory Appointments

GEORGE J. HILDEBRANDT to manager of Manufacturing Engineering Department 2550, Operations Engineering.

George has worked in different phases of Manufacturing Engineering during his seven and one-half years at Sandia. He was a division supervisor for four years and was a section supervisor for two years prior to that.

Before coming to the Corporation he worked a year in Colorado and Wyoming as a topographic engineer for the U. S. Geological Survey.

George received both his BS and MS degrees in Mechanical Engineering from the University of New Mexico although he also attended Illinois Institute of Technology and Wright Junior College.

He served three years in the Navy, part of the time in the Philippines.

HAROLD L. RARRICK to supervisor of Health Physics Section 3161-2, Industrial Hygiene Division.

Harold has done research work in both the Nuclear Division and Industrial Hygiene Division during his eight and one-half years at Sandia.

In 1949 he received a BS degree in Math and Physics at George Pepperdine College, Los Angeles. Harold has done graduate work in Mathematics at South Dakota School of Mines and at the University of New Mexico. He is a member of the Health Physics Society.

RAYMOND H. SCHULTZ to manager of Auxiliaries Engineering Department 1280, Systems Development.

"Ray" came to Sandia 12 years ago when it was operated by the University of California. He was promoted to section supervisor in 1948 and division supervisor in late 1951.

The year prior to Sandia employment Ray was at Los Alamos with the Manhattan District, Corps of Engineers.

From 1937-44 he was with Danly Machine Specialties Inc., Chicago, first as a machinist apprentice while he was a student, and later as a design engineer in tool and fixtures and weldment fabrication. Ray received a BS degree in Mechanical Engineering at Illinois Institute of Technology.

JAMES W. JONES to manager of Engineering Department 1220, Systems Development.

"Jim" has been at Sandia since March 1946 when it was operated by the University of California. The first five years he was in test equipment design work. Since 1951 he has been a supervisor of several divisions in Systems Development.

Prior to coming to Albuquerque Jim served 18 months in the Army, one year of that time with the Manhattan District, Corps of Engineers at Los Alamos.

He previously was head of a test section at the Cincinnati branch of Westinghouse Electrical Manufacturing Company, where he was employed for three and one-half years.

Jim holds a professional degree (equivalent to a BS degree) in Electrical Engineering from the University of Cincinnati.

ALLAN F. BECK to supervisor of Section 1464-2, Piezoelectric Device Development Division.

During his seven and one-half years at Sandia, "Al" has worked in research and experimental physics.

He came to the Corporation directly from the University of New Mexico where he received a Master's degree in Physics in 1951 and his BS degree in 1949.

During World War II Al served four years in the Air Force as a flying instructor.

He is a member of the American Physical Society and Phi Kappa Phi, honorary society.

DAVID A. WATT to supervisor of Electrical Division 2133, Electronics and Standards Department.

"Dave" has been at Sandia nearly seven and one-half years and has been a section supervisor since 1951. He has worked in reclamation, purchasing and most recently in the transformer and printed circuitry fields.

Prior to employment at Sandia Dave worked seven years for Mountain States Telephone and Telegraph Company, Albuquerque, as a line maintenance man and installer.

In 1950 he received a BS degree in Electrical Engineering at the University of New Mexico. Dave is a member of the New Mexico Society for Professional Engineers and is a registered professional engineer in New Mexico.

He served two and one-half years in the Navy.

THOMAS S. LONZ to supervisor of Records Depository and Micro-filing Section 2464-1, Document Control Division II.

"Tom" has been at Sandia nearly four years and has worked in plant accounting, clerical procedures auditing and other auditing positions.

Previously he was in the auditing field for 10 years in Washington, D. C. and in Albuquerque.

Tom received a Bachelor's degree in Psychology at Purdue University and also took a year of graduate study in Psychology and Psychiatry at the Catholic University of America.

During World War II he served three years in the Army—in Europe as an interpreter and in the U. S. Occupation Army in Japan as an instructor.

HAROLD R. VAUGHN to supervisor of Aerodynamics Research Division 5141, Aerodynamics Department.

"Hal" has been with Sandia Corporation since September 1951 in the aerodynamics field and was promoted to supervisor of Fundamental Aerodynamic Section last September.

Prior to coming to Albuquerque he was a year with the National Advisory Committee for Aeronautics at Moffett Field, Calif., as an aeronautics research scientist.

Hal received both his BS and MS degrees in Aeronautical Engineering from the University of Colorado.

He served four years in the Army Air Force.

He is a member of the Institute of Aeronautical Scientists.

ALFRED C. SCHWARZ to supervisor of Section 1464-3, Piezoelectric Device Development Division.

Alfred was with the Corporation from 1951-1955 and then returned in February this year. His first two years were in systems development, since then Alfred has worked in component development.

During his two and one-half year absence from Sandia Alfred worked for Goodyear Aircraft in Akron, O., as a group leader in the automatic controls and guidance section.

Prior to 1951 he worked a year and a half in the research laboratory of the Texas Company in Beacon, N. Y.

Alfred graduated from the University of Cincinnati, where he received a BS degree in Mechanical Engineering. He is a member of Tau Beta Pi and Pi Tau Sigma, engineering honoraries, and the American Society of Mechanical Engineers and the Institute of Radio Engineers. Alfred is a registered professional engineer in New Mexico.

He served two and one-half years in the Air Force during World War II.

STANLEY D. BROOKS to supervisor of Motor Pool Division 2473, Supply and Services Department.

"Stan" has been with the Corporation since October 1950 and has been supervisor of the Dispatch Section of the motor pool for the past six years.

Prior to this he was a heavy equipment operator for four years at Sandia Base, Manzano and at Kirtland AFB both as a civilian and during a year in the Army.

Stan also worked two years as a ship fitter in Portland, Ore.

He attended Nebraska School of Agriculture for two years.

Sandia's Job Featured In Current Issue of New Mexico Magazine

"Research at Sandia" is the title of a seven-page article appearing in the annual Vacation Issue of the *New Mexico Magazine* currently on sale at local newsstands.

The article, written by Fremont Kutnewsky, contains numerous black and white and color illustrations of scenes around Sandia and describes the Corporation's job in the nuclear weapons program.

Besides the Sandia article the magazine is filled with interesting stories describing summer activities and places to visit in New Mexico. The issue sells for 35 cents.



NEW GREEN BENCHES, 25 of them, have been placed throughout the Tech Area for the convenience of persons working in the area. Glenda McDade (2531-2) decorates this bench near Building 802.

Employee Dependents Offered Freshman Scholarship at UNM

College-age dependents of Sandia Corporation employees have until August 1 to apply for a \$250 University of New Mexico scholarship being offered by the Sandia Base Women's Club.

The scholarship deadline was announced by the office of Howard V. Mathany, dean of men at the University. Application forms for the scholarship may be obtained from his office or from Mrs. Courtney Shands, 2101 E. Sandia Drive, Sandia Base, chairman of the scholarship committee. Completed applications may be returned to either source.

In addition to the scholarship for entering students the club is also establishing the same amount in a rotating loan available to second semester freshmen or members of the other three classes. The loan is repayable within two years of graduation without interest. Loans repaid after that time will bear a yearly interest of three per cent.

Applicants will be judged by the UNM committee on prizes and awards. They must be recommended by their high school counselor or faculty advisor at the University. Recipients are also subject to the approval of the scholarship committee of the club.

Assisting Mrs. Shands on the committee are Mrs. S. P. Schwartz, wife of Sandia Corporation's vice president and general manager; Mrs. J. G. James and Mrs. W. T. Hoffmeyer.

Postal Rates Up Effective Aug. 1

Corporation employees and their families are reminded of the new postal rates which go into effect at midnight July 31.

Any mail placed in a collection box on Base after 6 p. m. on July 31 will not reach the main Post Office before the deadline, and, therefore, should bear the higher denomination of stamps, according to E. T. Rowe, Superintendent of the Sandia Base Branch Post Office.

Rates for first class mail jumps from three cents to four cents an ounce, airmail goes from six cents to seven cents per ounce. Post and postal cards will require three cents postage or five cents if sent by airmail.

Second and third class mail rates were also increased but there is no change in parcel post rates.

Letters or packages not bearing sufficient postage will either be returned to the sender or else postage due will be collected from the addressee.

Litterbugs Loose In Sandia Area

Entomology fans at Sandia are interested in finding out more about a species of insect known as a litterbug, traces of which have been seen along the Manzano-Area III road. This menace to the scenery was reported to be strewing the area with scrap paper and other refuse, causing a general clutter. Since litterbugs seem to thrive on refuse Sandians have been asked to help control the pest by depositing all rubbish in proper containers.

Welcome Newcomers

Albuquerque	Harold R. Wallace	2464	Kansas	Donald S. Johnson, Kansas City	5125
Lloyd L. Alpaugh, Jr.	John A. Zingg	7412	George R. Sharp, Leoti	7411	
Philix S. Aragon	Joan F. Hughes, Livermore	8212-3	William N. Bradley, Somerset	2152	
Larry F. Avila	Harold A. Peterson, Livermore	8222-2	Kentucky	Robert L. Wilde, Bozeman	1263
Benny C. Baca	James A. Duggar, San Francisco	8114-3	Michigan	Alfred I. Gregory, New Vernon	4113
Robert O. Baca	Charlotte L. Walker, Livermore	8212-3	James A. Peden, Wixom	2553	
Donald G. Beaton	Gerald D. McNutt, San Francisco	8133-1	Minnesota	Thomas J. Flanagan, Minneapolis	1265
M. Donna Bourlon	Garren E. Tooker, San Francisco	8131-2	Gordon J. Hansen, St. Paul	5232	
Marshall L. Davis	Douglas C. MacMillan, Berkeley	8122-2	Richard E. Knutson, St. Paul	1262	
Pelham L. Doss	Carroll R. Russell, Pleasant Hill	8213-2	*Byron F. Murphey, St. Paul	5112	
Charles W. Dunn	Lulu A. Nelson, Livermore	8221-1	Missouri	Charles W. McGee, Kansas City	5213
Antonio Garcia	Gertrude E. Geary, Livermore	8223-2	Daniel A. Murphy, Independence	1246	
Frank L. Gillespie	Lambert H. Koopmans, San Diego	5125	Montana	Robert L. Wilde, Bozeman	1263
*Charles R. Goodwin	Eugene W. Kenderline, Chula Vista	8114	New Jersey	Alfred I. Gregory, New Vernon	4113
Chariano R. Gutierrez	*Earl A. Johnson, Irvington	8222-2	Ohio	Paul T. Mathews, Willoughby	7412
Lewis W. Hammond	Hanley Quock, San Francisco	8114-1	Pennsylvania	Robert E. Getchonis, Duryea	7412
Anna S. Henry	Theodore R. Peterson, Stockton	8114-2	South Dakota	David F. McVey, Hill City	1612
Dale H. Hill	Robert C. Keller, Stockton	8114-1	Virginia	David M. Rucker, Charlottesville	5232
David J. Kessel	Richard A. Cronce, Palo Alto	8213-1	Washington	Larry R. Alton, Pullman	8131-2
Hugo R. Koski	Richard L. Sites, San Francisco	8114-2	*Denotes rehired	Cornell B. Linderud, Seattle	8131-2
Amador B. Lovato	Marilyn M. Kane, Livermore	8212-2	Returned From Leave	John A. Herbolsheimer, Urbana	8124
LaVerne D. McWhert	District of Columbia		Summer Hire	Alice A. Divine	3162
Allan W. Ness	David C. Miller, Washington	7223			
Earl B. Noel	Illinois				
Robert E. Rhodes	David J. Kessel, Berwyn	1621			
Eufimio B. Romero	Donald G. Schreiner, Chicago	5151			
A. Emiliano Sanchez	Lloyd S. Lockingen, Hinsdale	5131			
A. Thornton Steele	Indiana				
*Sue C. Sturgill	Donald R. Wilkinson, Valparaiso	1263			
Gloria R. Toland	Robert E. Percy, Connorsville	1462			
Beatrice J. Tolman	Lester L. Sandlin, Connorsville	5231			
Mary E. Tompkins	Gene R. Forsythe, South Bend	2553			
Bessie Torres	Iowa				
Donald D. Wallace	Marvin L. Brieske, Clinton	8133-2			