

Sandia Corporation LAB NEWS

ALBUQUERQUE, N. MEX. • LIVERMORE, CALIF.

VOL. 13, NO. 24

Published every other Friday for the employees of Sandia Corporation, contractor to the Atomic Energy Commission

NOVEMBER 24, 1961



FOAM-COVERED FUSELAGE of burned-out B-29 at Kirtland AFB was examined by members of Sandia's Emergency Force after fire-fighting demonstration conducted for their benefit.

Sandia Lab Emergency Force Sees B-29 Fire Extinguished

Fifty Sandians stood a safe distance from a blazing B-29 one morning this month and watched as Air Force fire fighters extinguished the blaze. Red arm bands and hard hats identified the 50 as members of the Sandia Laboratory Emergency Force.

This was the second test demonstration since the group was organized last May by Emergency Planning Section 3232-1. The men are all volunteers, some of whom possess special skills or knowledge which would be of value in emergency situations.

Joe Gutierrez, assistant chief of the Kirtland AFB rescue and fire

fighting squad, discussed what an emergency squad could do in case an aircraft crashed in Sandia's Tech Area, what type help would be necessary, and how close an individual could get to an aircraft fire without special clothing.

"You will not be primarily fire fighters, but will serve as litter bearers, control traffic around the area, and help in other ways," he explained.

After the talk, Kirtland firemen poured 1000 gallons of fuel around the wrecked B-29 and ignited it. The alarm was answered by two specially-equipped trucks which can blow foam onto a fire from cab-top nozzles at the rate of 200 gallons per minute. After a thick coating of foam smothered the flames, asbestos-suited firemen sought out hot spots which could reignite the blaze.

To Modify Facilities In Building 805

Apparent low bidder on a project involving modifications and additions to facilities at Sandia Lab's Bldg. 805 is the contracting firm of Bill Stuckman of Albuquerque. The firm's bid of \$249,692.36 was the lowest of three received and opened Nov. 15 by the AEC.

Plant Engineering Department project engineer is V. E. Kerr (4543-3).

In addition to modifications and additions as required for the installation of laboratory equipment, the project will include extension of utilities to equipment; site grading; installation of storm sewers, sidewalks, and service drives; and work involved in moving and installing the laboratory equipment from present locations to Bldg. 805. Work is to be completed within 100 days after the contractor receives notice to proceed from the AEC.

Sandians Read Papers At U of Minnesota Aeronautical Labs

Speakers at the 16th Supersonic Tunnel Association meeting held recently at the Rosemount Aeronautical Laboratories, University of Minnesota, included R. C. Maydew and D. J. Rigali (both 7132).

Title of Mr. Maydew's paper was "Radiographic Inspection of Welds in Tunnel Supply Air Lines." Mr. Rigali spoke on "Wind Tunnel Low Pressure Instrumentation Development."

AEC Announces New Explosive Devices Bldgs. For Coyote Test Field

Bids will be opened Dec. 19 for construction of three sets of new buildings to be located at Sandia Laboratory's Coyote Test Field, according to an announcement by the AEC. The buildings are referred to as Explosive Devices Facilities and will be used for research on explosive devices.

One set of buildings will be used by Electromechanical Component Development organization 1300 and will consist of a test laboratory building, assembly igloo, storage igloo, and two storage magazines.

The second set of buildings will be used by Physical Research organization 5100 and will consist of a test building, storage igloo, and two storage magazines.

Both of these two sets of buildings will be constructed to permit experiments with 50 lbs. or less of high explosives.

The third set of buildings will be used by Environmental Testing organization 7300 and will consist of test building and firing chamber. This set of buildings will also house climatic facilities to subject devices to high and low temperatures. Tests will be conducted using one lb. or less of high explosives.

Construction is scheduled for completion by July 1, 1962.

Plant Engineering project engineer for the construction is K. D. Harper (4543-3).

Dr. W. F. Chow Speaks At UNM Next Week

Dr. W. F. Chow, IBM Research Laboratory and Columbia University, will give two lectures at the University of New Mexico next week.

On Nov. 28 at 9 a.m. he will speak on "A Martingale Systems Theorem and Its Application." His topic on Nov. 29 at 5 p.m. will be "Some Convergence Theorems on Martingales."

For further information contact D. P. Peterson (5422), ext. 22144.

Christmas Charity Plans Started 'More and Better' Dept. 4250 Aims

The true spirit of giving is once again exemplified by the Christmas charity projects underway at both Sandia and Livermore Laboratories.

For several years now, employees have refrained from exchanging greeting cards with co-workers and have instead contributed to charitable projects undertaken by individual organizations.

One of the groups with a successful program for several seasons has been Mechanical Department 4250. Last Christmas employees in that department contributed \$240 in cash, 410 cans of food, and boxes of clothes and toys. These holiday treats and staple items were distributed among six families — carefully screened as to need. "More and better" is the 4250 Christmas charity committee's slogan for 1961. The campaign will officially begin Nov. 27 when containers will be placed in several locations within the work area.

Walter Kurlfink (4252-1) is heading the committee which includes Jimmie Burnside (4251-1), Tom Henderson (4252-3), Ted Few (4252-5), William Minser (4253-1), Abe Jojola (4253-1), Paul Darrah (4253-2), Paul Chavez (4254-1), John Moffet (4254-4), Leroy Shoemaker (4254-2), Don Barack

(4254-4), and Peg Taylor (4250). The Albuquerque Council of Social Agencies and the Council of Social Welfare in Livermore will again serve as "clearing houses" for donors and recipients. In addition, the names of other needy families may be obtained from churches and organizations such as The Salvation Army, Department of Public Welfare, Catholic Charities, and Elks Club.

AEC Plans More Construction Work At Tonopah Range

Contractors have been invited by the Atomic Energy Commission to bid on construction at the Tonopah Test Range near Tonopah, Nev. Estimated cost is \$75,000-\$85,000.

Bids are scheduled to be opened at the Nye County Courthouse in Tonopah at 2 p.m., PST, Dec. 7, 1961.

Work will consist of constructing two prefabricated metal buildings and a 100-ft.-high antenna tower, installing generators and communications and power cables, and making various site improvements.

New Enrollment Period is Set For Sandia Health Care Plan

A special enrollment period for active employees wishing to join the Sandia Corporation Health Care Plan will extend from Dec. 1 through Dec. 15, 1961. Coverage for enrollees will become effective Jan. 1, 1962.

This will be the last special enrollment period for the plan. Starting Jan. 1, 1962, active employees not enrolled within 31 days from date of hire can be covered only by producing, at their own expense, evidence of insurability which is satisfactory to The Equitable Life Assurance Society.

Under the new procedure, coverage of eligible dependents will become effective three months after date of receipt by the policy hold-

er of the employee's written election to have the dependent(s) insured.

During the special enrollment, active employees may enroll in the plan, or participants may add eligible dependents not currently enrolled. Employees may obtain enrollment cards from their department secretaries, and must return completed cards to Division 3122 at Sandia Lab or 8212-1 at Livermore Lab not later than Dec. 15, 1961.

Questions regarding enrollment may be directed to Benefits Section 3221-1, ext. 52136 or 28263 at Albuquerque. At Livermore, employees should contact Employee Service, Wage and Records Section 8212-2, ext. 2252.

ECP Committee Reports That Participation Is at New High

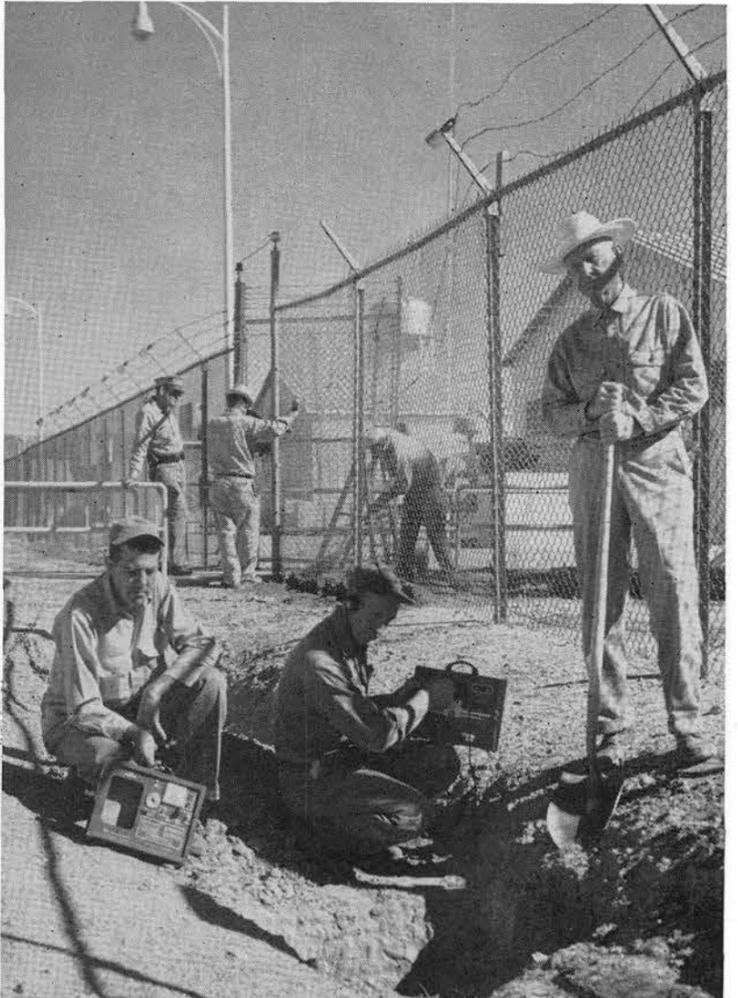
Sandia Lab's 1961 ECP Committee met Nov. 8 to study final statistics of the recent fund drive, reserve fund distribution, agency standards, and the committee's future character and mission.

W. R. Rosenberg (4360), committee chairman, reported that the Albuquerque United Community Fund, whose member agencies receive ECP funds, has extended its drive for two weeks because returns have not been completed. As of Nov. 22, the UCF drive has raised \$556,000.

All contributors will receive

receipts by next week for their contributions. ECP members will receive window stickers for their homes. The committee urges that contributors check their receipts for possible errors, and that they report errors by calling ext. 29248.

Final statistics for the 1961 ECP Drive indicate that the present percentage of employees participating in the plan—78 per cent—is the highest since ECP was inaugurated. The same record applies for total funds raised, UCF share, average contributions per ECP member, and average contribution per contributor.



ELECTRONIC DETECTOR helps Joe T. Evans (left) and Harold Neuhaus (both 4514) locate underground pipe south of Personnel Bldg. Lee Brazell (4575) stands ready to dig at exact spot.

Pipefitters Now Search Out Elusive Lines With Aid of Electronic Device

The maze of underground utility pipes in Sandia's Tech Area I has occasionally presented a time-consuming puzzle for pipefitters when the location of a specific line was needed.

Base Engineers maps dating back to 1949 are of little use in view of construction during the intervening years.

To locate a pipe the "old way" you can dig along the entire length of the pipe or else estimate, where it should be and hope for the best.

In recent weeks workers in Pipefitting and Plant Operation Division 4514 have been aided by an electronic pipe detector. The device, working on the principle of a mine detector, indicates where and how deep the line is, and gives a general idea of the diameter of the pipe. It can also be used to detect leaks.

R. M. Simmons and Horace Moore of Plant Engineering's Mechanical Section 4543-2 have been up-dating the maps as the water, gas, and steam lines are definitely located.

Editorial Comment

Watching the Store

Thanks to the Merrimack Valley Communicator we are reminded of a legend. It concerns the last minutes of an aged merchant. As he regains consciousness for a moment, he looks up from his bed at the many members of his family gathered about him, silent and grieving. "Is everybody here?" he manages to whisper. "Yes, papa," they answer, drawing closer to hear his last words. Suddenly he bellows at the top of his lungs, "Then who's watching the store?"

Considering this tale it occurs that what this country needs is some 107 million good storekeepers. The "store" being our public affairs and the "keepers" an informed citizenry.

Most major current affairs in this country have influence on international affairs so these are good areas in which to be well informed. Here is a sample of some domestic matters which deserve good understanding:

- The educational system.
- The problems of the interstate highway system.
- The agricultural economy.
- The dilemma of the urban areas.
- State of the country's economic health.
- Employment and unemployment.

Each is controversial. Each presents quite a "store" for watching. There is a world of information available on these subjects. Study the better daily papers and news magazines. Follow public affairs programs on television. Read official reports. Discuss your opinions with your friends. Do anything which makes you better informed.

The intelligence private citizens apply to their study of public affairs will pretty much determine how qualified they are to select the managers of the store.

It's none too early to better prepare for the '62 elections.

Health Care Plan and 17 Per Cent

Eighty-three per cent of Sandia Corporation's employees—6542 people—now belong to the Corporation Health Care Plan. The special enrollment period from Dec. 1 through Dec. 15 will give the other 17 per cent of the active employees who are non-members an opportunity to enroll in the final special enrollment period.

Starting Jan. 1, 1962, employees who don't enroll within 31 days of date of hire can be covered only by producing, at their own expense, evidence of insurability which is satisfactory to The Equitable Life Assurance Society. Dependents will not be covered by the insurance until three months after the employee makes application for their coverage.

If you are eligible to belong to the plan but have not joined, consider the following additional reasons for joining the plan now:

1. Sickness and accidents are unpredictable. The plan offers excellent sickness and accident insurance.
2. For the unprotected individual or family, medical expenses can be disastrously expensive. The plan covers the employee and his family against much of the medical cost of prolonged illnesses as well as the costs of less serious medical emergencies and accidents.
3. The Health Care Plan is a sound investment. The Corporation pays \$3.50 of the monthly premium for each enrollee. Monthly cost to employees is \$1.54 for single coverage, \$11.34 for employee and one dependent, and \$12.70 for employee and two or more dependents. Payments are made by payroll deduction.

During the enrollment period, non-participants may enroll in the plan, or participants may add dependents not currently enrolled. Enrollment cards and booklets are available from department secretaries.

Awareness of Communism Taught by Speakers from Sandia Laboratory

Communism seems to be one of the most popular subjects in Sandia Laboratory's Speakers Bureau, which is handled by Public Information Division 3431. During October six speeches were given on this topic by four Sandians.

C. E. Jordan (3231) spoke on "The Communist Challenge" to the Rio Grande Lions Club, Sandia Women's Club Social Living group, and the Santa Fe Shriners. "International Communism's Challenge of the Next 15 Years" was discussed by D. J. Jenkins (3130) at a meeting of the McKinley Junior High School PTA. W. W. Troy (3231) gave a talk to the Santa Fe Lions Club on "Domestic Communist Propaganda." "Communism on the Map" was the topic of A. B. Bank's (3232) speech to officers and enlisted men of Kirtland Air Force Base.

All of the speeches stress the importance of Americans becoming more aware of the threat of Communism.

For example, Walt Troy's speech on "Domestic Propaganda" deals with communist propaganda efforts within the U. S. Walt points out that it's time the American people recognize that communist propaganda is psychological sabotage, and that its aim is the demoralization of the American people.

"We have laws against sabotage and espionage," he says, "but we have no laws to protect us against communist propaganda."

"Many Americans look upon propaganda as dirty business and think it's best not to get involved with it," Walt continued. He then quoted communist leaders showing how they use words and twist facts to their advantage.

What can we do about it? Walt thinks we should take positive steps to instruct people—within the realms of truth—on America's aims and objectives.

With his speech Walt uses a film entitled "The Two Berlins" which shows the living contrasts between East and West Berlin.

Marcel Weinreich Talks To High School Students

Marcel Weinreich (3421-1) will speak on "Sciences and Humanities—A New Perspective" before two groups of science students at Highland High School on Dec. 1. His talk will be part of the visiting lecturers program sponsored by the New Mexico Academy of Science.

Sympathy

To B. I. Burrell (2341-2) for the recent death of his father in Albuquerque.



MANGWA JEANNETTE, The Cameroun, and Cho Chang Kil, are sponsored by Eleanor McPhate (4131) and Dolly Willis (4171) through the Christian Children's Fund. Mangwa's favorite pastime is playing with soft toys, while Cho Chang enjoys football. He writes Dolly, "I wish you could see my talented ability for it."



Two Sandia Women Become 'Mother' To Youngsters In Far Off Countries

Taejon Ae Yook Won, Korea, and Fouban Pouponniere-Orphelinat, Cameroun, Africa, are not just meaningless names on a world map to Eleanor McPhate (4131) and Dolly Willis (4171) who have "adopted" children from these countries.

The children were adopted through the Christian Children's Fund which has found homes for more than 37,000 orphans throughout the world. The \$10 monthly contribution each foster parent sends provides a home, food, and clothing for his child.

Eleanor's adopted child is a two-year-old African girl named Mangwa Jeanette. Mangwa's mother died in childbirth, and her father could not adequately care for her. Through Eleanor's generosity, little Mangwa now lives in an orphanage where she gets proper food and medical attention. When she is old enough she will learn a trade.

Cho Chang Kil is the 12-year-old Korean boy which Dolly Willis helps. In addition to sending \$10 a month to Cho Chang, she gave him \$5 for his birthday and

for Christmas. His gratitude was expressed in the following excerpt from a translated letter she received:

"Thank you ever so much for the birthday gift of \$5 that you so kindly sent me. My Home father purchased me a suit, a hat and a pair of shoes with your gift money for my birthday and with the rest of it we bought some cooky, caramel and fruits to share with my friends. We all enjoyed to eat them on my birthday, sitting together in a place."

Dolly read about the Christian Children's Fund in her church publication, and decided that since she no longer had any children at home, she would like to help other youngsters. She told Eleanor about it who also decided to give to the Fund.

Dolly believes that "the children we help today may be tomorrow's leaders. If we can give these children a better way of living, perhaps it will help stop the spread of communism."

If anyone would like more details contact either Dolly or Eleanor.

Pedro Cordova to Retire This Month

Retiring at the end of November is Pedro Cordova, who has been at Sandia Corporation almost 10 years. He has worked in Janitor Service Division 4574 the entire time.



Mr. and Mrs. Cordova live at 1117 Cerro Vista Ave. SW. They have four sons and three daughters, and five grandchildren.

Mr. Cordova plans to visit one of his sons in California in the near future. When he returns to Albuquerque he wants to do some fishing, since he's been too busy in the past to spend much time on his favorite sport.

He is a World War I veteran and a member of the American Legion.

Epifanio Padilla Retired Nov. 9

Epifanio Padilla retired Nov. 9 after 11 years with Sandia Corporation.



He started work here as a janitor but has been employed in Millwright and Machine Service Division 4512 for the past seven years.

Mr. and Mrs. Padilla plan to travel to California to relax and visit two of their children who live there. They also have four other children and 13 grandchildren. In Albuquerque the Padillas will continue to reside at 506 Hazeldine SW.

Weddings

Pat Serna was married to John A. Case on Oct. 28 at a ceremony at Our Lady of Fatima Catholic Church. After a honeymoon in Las Vegas, Nev., the couple is now at home at 806 Coal SW.

Pat works in Division 2541 and John is assigned to 2534. Both have been with the Corporation about six months.

Maridel M. Dyke (4423-3) exchanged marriage vows with Ronald Hanson of Albuquerque in an afternoon ceremony at Asbury Methodist Church last Saturday. After a honeymoon, the couple will be at home at 1712 Alvarado NE. Maridel has worked at Sandia more than nine years.

Actors Needed

Sandia employees interested in forming a Little Theater group are asked to contact Walt Troy (3231-2), ext. 44261. Persons knowledgeable in any phase of theater production are invited to join the group, Walt said.

4540 Christmas Party December 2

Department 4540 will hold its Christmas dinner-dance in the Coronado Club ballroom on Saturday, Dec. 2, from 7 p.m. to 1 a.m. Tickets cost \$5 per person, and this includes social hour, dinner, and dancing. They may be obtained from chairman C. J. Kaspar, ext. 41269, V. E. Kerr, ext. 32148, or M. A. Kuliasha, ext. 32138. Mike Michonvicz' MBC Trio will provide music for dancing and entertainment has been planned.

Congratulations

Born to:

Mr. and Mrs. Noble Johnson (3122) a daughter, Karin, on Nov. 4.

Mr. and Mrs. K. A. Sarason (7183-2) a son, Raynard Jacque, Nov. 11.

Mr. and Mrs. H. P. Kelsey, III (5131) a son, Harlan Page, IV, on Nov. 10.

Mr. and Mrs. Roger Aden (5132) a daughter, Elisa Kay, on Nov. 12.

Mr. and Mrs. J. P. Young (2542) a daughter, Susan Marie, on Nov. 19.

Mr. and Mrs. Lewis Terry (1431) a son, Christopher Lewis, on Nov. 9.

Mr. and Mrs. Lenard Wilhelm (4413-2) a daughter, Susan Kay, on Nov. 4.



Dotsie Hester (5150)

Take A Memo, Please

Take your good safety habits home with you. More accidents occur at home, and off the job, than occur on the job. Keep your guard up against safety hazards.

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RESCUE OPERATIONS are filmed by Don Knudsen (8123-3) for a movie being produced to train civil defense volunteers. Scenes for the film were shot at Lake Tahoe. Eighty-two people participated.

Don Knudsen Helping With Underwater Rescue Safety Film

The director shouted "action" and the boat passenger fell overboard and "drowned." This scene was the climax of a training and safety film on underwater rescue filmed by Don Knudsen (8123-3) at Lake Tahoe recently.

The film is sponsored by the Alameda County Civil Defense and Sheriff's Departments and should be completed in about three months.

Don, an amateur skindiver who has won awards for his underwater photography, was one of two photographers chosen to make the film. He will also edit the footage and select music for the 20 to 30 minute film.

"There were 82 people at Lake Tahoe helping with the production," Don said. "Twelve skindivers were involved in the shooting, most of them from the Underwater Rescue Unit of the Sheriff's Department."

"The film tells the story of a boating accident. One of the two men in the boat wears a life preserver; the one without a preserver drowns. The film shows how quickly an accident like this can occur, and demonstrates the proper and most efficient rescue team procedures."

Marie Ann Kimball Died November 3

Marie Ann P. Kimball, a Corporation employee for two years, died Nov. 3. She was 27.



Mrs. Kimball was a draftsman in Design Definition Division C.

Survivors include her three children: Andrea, 8, Arthur, 6, and Johnny, 5, and her parents, Mr. and Mrs. Arthur P. Gallegos of Albuquerque.

Sandians Speak on Quality Control to Denver, Chicago Groups

Two talks on quality control were given recently by Sandians H. C. Biggs (2410) and T. D. Harrison (2561-1).

Mr. Biggs spoke at an International Workshop, sponsored by the American Society for Quality Control, in Denver, Colo., on Nov. 4. His subject was "Relationship Between Control and Standards."

"Computer Applications in Quality Control Operations" was the title of Mr. Harrison's speech. He presented it to the Chicago Section, American Society for Quality Control, on Nov. 15.

Health Care Plan Helps Pay Big Share of Medical Bills

Accidents and sickness are possibilities in anyone's future. Sandia Corporation's Health Care Plan provides positive insurance against much of the medical expense arising with such possibilities. It offers the following coverage:

1. Payment of 80 per cent of all covered hospital charges and doctor's charges incurred during any period of hospital confinement.

2. Payment of 80 per cent of all covered charges resulting from a surgeon's performance of a surgical procedure.

3. Payment of 100 per cent of charges for normal maternity up to \$150, and further reimbursement for maternity complications.

4. Payment of 80 per cent of covered charges for other prescribed medical expenses after satisfying a \$200 cash deductible per insured individual per calendar year.

5. Payment of 50 per cent for psychiatric treatment while not hospital confined (subject to a limit of \$10 per visit and a maximum of \$500 during any calendar year) after satisfying the \$200 cash deductible requirement mentioned in 4 above.

6. A \$15,000 maximum per individual per lifetime, with right to apply for reinstatement.

A special enrollment period for active employees extends from Dec. 1 through Dec. 15, 1961. After Dec. 15, no further special enrollments will be conducted. Thereafter enrollments will be accepted from on-roll employees and their dependents on an individual basis

New Location for ISA Session II of Electronics Course

Session II of the Instrument Society of America course on Instrumentation Electronics will be held on Monday, Nov. 27, at 7:30 p.m. at the New York Life Insurance Hospitality Room, 131 Adams NE. The session was previously scheduled at the Albuquerque Federal Savings and Loan Association Hospitality Room.

The two-hour basic course, entitled "Wheatstone and Kelvin Bridges," will be conducted by Sandians M. T. Muzzey and L. H. Bressan (both 2412-3). It concerns the basic Wheatstone and Kelvin bridge idea, and will cover application of corrections, limitations, techniques, and special uses of several bridges of each type.

only after presentation (at their own expense) of evidence of insurability satisfactory to The Equitable Life Assurance Society. Employees may obtain enrollment cards from their department secretaries. Employees at Sandia Lab are urged to return the cards to Division 3122. Employees at Livermore Lab should return cards to Employee Service, Wage and Records Section 8212-2. Deadline for returning cards is Dec. 15.

Promotions

Charles W. De Moss (4224) to Glass Worker
George E. Chaffee (4631) to Technician
Edward Coca (4632) to Technician
Richard H. Hicks (4221) to Pattern Maker
Kent O. Johnson (4231) to Instrument Technician
Sue T. Mathes (3126) to Typist Clerk
Joan D. Morrow (3421) to File Clerk
Bernie Vallejos (3444) to Messenger
James E. Strom (8232) to Document Clerk
Eugene Chavez (7321) to Laboratory Assistant
Kenneth R. Ludwick (7324) to Laboratory Assistant

Ben B. Conklin (7324) to Laboratory Assistant
Charles L. Westmark (1431) to Staff Associate, Technical
John H. Brengle (8151) to Staff Associate, Technical
Edward W. Swanson (6021) to Staff Associate, Administrative
Roy T. Lovin (4511) to Helper-Trades
Robert A. Stewart (4224) to Technician
Robert F. Knight (4224) to Technician
W. Kenneth Paul (3444) to Document Clerk
Barbara A. Bowden (3126) to Secretarial Typist
Betty J. Wilkins (3126) to Secretarial Steno
Mary Ann Cowley (3126) to Secretarial Steno
L. Noriene Felter (3421) to Library Assistant
Mary O. Juzang (3423) to Service Clerk
Harriette J. Melton (3441) to Tabulating Equipment Operator
Floyd G. Shaw (3444) to Camera Operator
Wanda J. Cupp (4333) to Senior Clerk
Marjorie E. Endres (5425) to Staff Assistant, Technical
Kenneth L. Wiley (7532) to Order Analyst
Alan A. Neiz (7241) to Staff Assistant, Technical
John W. Melvin (7241) to Staff Assistant, Technical

Tommie L. Bryant (8223) to Molder and Assembler
Ruth P. Brockett (8212) to Secretarial Typist
P. A. Portolisse (8224) to Stock Analyst
William E. Farrar (4231) to Technician
William A. Sanchez (4631) to Technician
Hester E. Striver (4152) to Accounting Clerk
William A. Lovato (8225) to Stockkeeper
Imogene R. Kelly (8241) to Senior Clerk
James J. Jackson (3462) to Mimeograph Operator
Louis A. Wigley (3462) to Mimeograph Operator
Forrest A. Hannan (4632) to Repairman
I. Allen George (4623) to Record Clerk
Doris A. Mason (4423) to Service Clerk
Joan L. Peterson (8114) to Service Clerk
Terrance M. Weber (8123) to Data Reduction Clerk
Earl R. Gruer (4541) to Staff Assistant, Technical

Supervisory Lateral Transfers
V. K. Smith from 7234-1 to 7232-4
J. D. Wright, Jr., from 7524-1 to 7523-3
L. J. Frenkel, Jr., from 7523-2 to 7524-1
F. J. Ferry from 7523-3 to 7523-2
J. F. Reed from 7132-1 to 7132-2
W. T. Botner from 7132-2 to 7132-1
I. B. Ward from 8126-3 to 8121-3
H. L. Odell from 8123-3 to 8122-1
C. Winter from 8155 to new division in 9100
M. O. Jones from 8142 to 8155
G.W. Anderson from 8145 to 8142
E. A. Aas from 8144 to 8158
J. F. Sladky from 8144-1 to 8158-1
V. M. Field from 8144-2 to 8158-2
E. G. Ingledue from 8156 to 8166
W. L. Morehouse from 8156-1 to 8166-1
F. J. Murar from 8165 to 8147
G. L. Scholer from 8165-1 to 8147-1
G. C. Steinhauer from 8163-1 to 8147-2
C. L. Carpenter from 7185 to 7115
R. W. Foster from 4122 to 4352
J. W. Reynolds from 4321-3 to 4321-1
J. S. Anderson from 8156-2 to 8166-2

Supervisory Appointments

SAMUEL McALEES to supervisor of Weapon Aerodynamics Section 7134-2, Engineering Aerodynamics Division.



Sam has been with Aero- and Thermodynamics Department since February 1956 when he came to Sandia.

Immediately before coming here he was in the Army for 15 months, instructing fundamentals of electricity at Fort Eustis, Va.

He also worked one summer for Grumman Aircraft Engineering Corp. as a research engineer in supersonic aerodynamics.

Sam was an instructor in aeronautical engineering at Rensselaer Polytechnic Institute while studying toward a PhD degree. He holds Master's and Bachelor's degrees in aeronautical engineering.

He is a member of Sigma Xi and the Scientific Research Society of America.

CHARLES W. ALLEN to supervisor of Technical Training Section 2313-1, Weaponry Training Department.



Charles has been an instructor in Technical Training Division 2313 during his seven years at Sandia.

Before coming here he was an instructor in Industrial Electronics at Southern Illinois University for four years.

Charles received his BS degree in industrial education from Southern Illinois University. At the University of Illinois he obtained his MS degree and also completed some work toward his doctorate while on the university staff as a graduate assistant.

During World War II, Charles served four years in the Army Signal Corps as an instructor in radar theory and maintenance.

JAMES DOERNER to supervisor of Section 1314-2, Advanced Firing Set Development Division.



For the past three years Jim has been in Sandia's Explosive Devices Department 1310.

Previously he worked for Minneapolis-Honeywell for three years in Florida in the inertial guidance factory and for a year in Minneapolis in the aeronautical division.

Jim received a BS degree in mechanical engineering from the University of North Dakota and a BS degree in electrical engineering from the University of Washington.

He served two years in the Army.

W. G. BRANSON to supervisor of Electrical Subcontracts Section, 8211-2, Purchasing Division, Livermore Laboratory.



Bill joined Sandia in Albuquerque in April 1957, where he was employed as a buyer's assistant in the Subcontract Purchasing Department.

He transferred to Livermore Laboratory in February of this year.

A native of New Mexico, Bill received his BS degree in business administration from the University of New Mexico in 1955. He continued advanced studies at UNM until 1957, completing most of his work for a Master's degree in business administration.

Before coming to Sandia, Bill worked for two years at ACF Industries in Albuquerque in the accounting department.

Bill served with the Army for three years immediately following World War II and during the Korean conflict in the Medical and Finance Departments.

DONALD G. BEATSON to supervisor of Range Planning Section 7212-4, Test Range Division.



Don has been working in the same organization since he came to Sandia in July 1958.

Previously he was in Civil Service for 16 years with jobs in range and airborne systems testing. His last assignment was at Kirtland AFB where he worked on plans for a Joint Weapons Test Range.

Don received his BS degree in electrical engineering from Kansas State University.

He served three years in the Army Signal Corps and Air Force.

WILLARD A. BENSON to supervisor of Technical Training Section 2313-2, Weaponry Training Department.



"Benny" has been at Sandia four years as an instructor in Technical Training Division.

Before coming here he served as chief academic advisor at Southern Illinois University for eight years. He taught industrial education at Wayne State University in Detroit for two years and was a teaching assistant at Stout State College in Wisconsin for a similar period of time.

Benny received his BS, MS and PhD degrees in education at Stout State College.

He is a member of the following honorary societies: Sigma Pi Sigma, physics, Epsilon Pi Tau, industrial education, Iota Lambda Sigma, vocational education, and Phi Delta Kappa, education.

He served two years in the Navy.

Sandia Authors to Read Two Papers at Physical Society

R. A. Graham (5133) and F. L. Vook (5151) will read technical papers at a meeting of the American Physical Society to be held in Chicago Nov. 24-25.

Mr. Graham is the author of "Dielectric Anomaly for Impacted Quartz" and F. L. Vook has written "Expansion of INSB Upon Low-Temperature Electron Irradiation."

Both papers will be published in the Bulletin of the American Physical Society which will serve as the program for the meeting.

Fall Breaks Safety Record at Sandia Lab

Sandia Laboratory's safety record topped Nov. 6 when an employee slipped on a curb near Gate 8 and fell to the sidewalk. She suffered a broken rib and multiple contusions and abrasions.

She received treatment at Sandia's Medical Department 3330 but was not hospitalized. She was sent home for recuperation, and has recently returned to work.

At the time of the accident, Sandia Lab's safety record was 1,190,000 employee-hours worked without a disabling injury.

Active Duty For Sandia Reserve Officer Spent at Military Academy

Every year George Porter is one of many Sandians who leave their jobs for a short period to fulfill Army Reserve requirements. The difference is that George spends his 15 days teaching mathematics at the U. S. Military Academy at West Point.

George, who is supervisor of Benefits Section 3122-1, was assigned to the Military Academy as an instructor during his regular Army tour of duty. He taught math and was assistant football coach at "the Point" from 1943-46 and again from 1952-54. A Reservist since 1940, he presently holds the rank of lieutenant colonel.

At West Point each class of cadets is divided into sections of about 15 men. Every four weeks changes in cadet academic rankings bring about a rotation of personnel in each section. As a result the courses are set up so that the different sections cover exactly the same course material on the same day. "Because of this completely regimented system," George said, "it makes little difference whether I teach the first section or the twenty-first since all sections are covering the same material on any particular day."

When George makes his yearly trip he first learns about any changes in the curriculum and any different teaching methods being used, then he spends several days instructing in the math department.

"I consider this a sensible use of reserve officers," he said. "I know exactly what I will be expected to do and can make the most effective use of the time. In fact, with the familiarity which results, it would be possible for me to be recalled on Friday to replace a regular Army officer and begin teaching on the following Monday."

The math curriculum is considered one of the most difficult at the Military Academy and accounts for the largest number of "turnouts" during the Plebe year. The six-day-a-week course for Plebes covers in one year the equivalent of nearly two years normal college math courses. The Plebes study college algebra, plane and spherical trigonometry, slide rule, solid geometry, plane and solid analytical geometry, matrix algebra, and differential

calculus. Instead of being offered as separate courses, appropriate parts of each course are integrated in proper sequence throughout the year to comprise one Plebe Math Course.

The daily pace is fast but the cadets review the material once at regular intervals during the semester and again during the written general reviews at the end of each semester.

George has been at Sandia since November 1956, first in supervisory training and for the past year in his present position. He received his Bachelor's degree in mathematics from the University of Nebraska and his Master's in education from Columbia University. Between his teaching periods at the Military Academy he was football coach and math teacher at Colorado Springs High School.



FROM SANDIA SUPERVISOR to math instructor at the U. S. Military Academy at West Point is a transition George Porter (3122-1) undergoes yearly as part of his Reserve Army training.

G. W. Rolloson Speaks To IRE Members in Livermore Nov. 27

"Ultra Micro-Circuitry at Sandia Corporation" is the title of a talk to be presented by G. W. Rolloson at a meeting of the East Bay Section of the Institute of Radio Engineers in Livermore Nov. 27.

Mr. Rolloson, supervisor of Advanced Development Division 7223, will discuss philosophy, concepts, and programs of Sandia's ultra micro-circuitry development. In early 1961, Sandia's ultra micro-circuitry program was awarded a Certificate of Excellence, one of 10 presented, in a national miniaturization contest.

The talk will be presented at 8:15 p.m. at the Lucky Lanes banquet room in Livermore. Dinner at 6:30 p.m. will precede the technical talk. Reservations for the dinner may be made by calling Chris Widger (8155), ext. 2470.

Emergency First Aid Chart

First Aid begins with its steadying effect upon the patient. Reassurance and encouragement are essential.

Here are important DON'TS to remember:

DON'T give anything by mouth to an unconscious person

DON'T use medicines with unreadable or missing labels

DON'T give a laxative when abdominal pain exists

DON'T select or take medicines in the dark

ILLNESS			INJURY		
REMEDY FOR	DIRECTIONS	FIRST AID ITEMS FOR	DIRECTIONS†		
CHILLS Blankets Aspirin Tablets Hot Water Bottle	Wrap in blankets. *Give one or two aspirin with water. Wrap hot water bottle in single layer of towel. Apply to feet.	ANIMAL BITES Soap and Tap Water Antiseptic Sterile Dressing	Wash wound for several minutes. Rinse. Apply antiseptic and dressing. REFER IMMEDIATELY TO PHYSICIAN. TRACE OR CONFINE ANIMAL BY REPORTING INCIDENT TO LOCAL POLICE.		
CONVULSIONS Sterile Compress or Clean Handkerchief Tongue Depressor or Spoon	KEEP CALM. CALL PHYSICIAN. Place patient on back. Turn head to side. Loosen clothing about neck and waist. Gently place cloth-padded tongue depressor, or spoon, between teeth to prevent biting tongue.	BLISTERS Antiseptic Sterile Dressing	Do not break blisters unless necessary. Apply antiseptic and bandage lightly.		
DIGESTIVE UPSET Antacid Tablets	*Give two tablets with water. Repeat, if necessary, in two hours. If persistent, not relieved readily or not related to food or drink, should be treated by physician.	BRUISES (Skin Unbroken) Soap and Tap Water Cold Compresses or Ice Bag	Wash bruised area, if necessary. Prepare compresses by wringing cold water from towel, changing towels frequently. Or wrap ice bag in single layer of towel and apply to affected area.		
DIZZINESS, FAINTING Ammonia Inhalant Blanket	Patient should lie flat or sit with head between knees. Loosen clothing about neck and waist. Pass ammonia inhalant a few inches beneath nose. Cover patient with blanket.	BURNS, SCALDS Medicated Burn Ointment or Vaseline Sterile Dressing	Apply thin layer of ointment, then apply dressing lightly. For large burns, keep area clean and protected and obtain medical attention.		
EARACHE Hot Water Bottle Aspirin Tablets	Wrap hot water bottle in single layer of towel. Apply to affected ear. *Give two tablets with water. Repeat, if necessary, in 3 or 4 hours. IMPORTANT! Do not put medication or cotton into ear canal. If pain persists or recurs, consult physician.	CUTS, SCRATCHES, SCRAPES Soap and Tap Water Antiseptic Sterile Dressings	Wash area. Apply firm pressure on wound with sterile gauze compress to control bleeding. Apply antiseptic as directed and cover with dressing. For large or gaping wounds, apply sterile gauze compress. Secure with roller or triangular bandage. For severe bleeding, use pressure points or apply tourniquet, if necessary.		
EYE INFLAMMATION Warm Compresses	Prepare compresses by wringing warm tap water from clean towel, absorbent cotton, or sterile compress. Place over eye and change frequently. If inflammation persists, consult physician.	FOREIGN BODY IN EYE Sterile Compress or Clean Handkerchief	Pull upper lid gently outward and downward over lower lid and release. When visible, attempt to remove with corner of compress or handkerchief. If unsuccessful, consult physician.		
HEADACHE Aspirin Tablets Ice Bag	*Give two tablets with water. Repeat, if necessary, in 3 or 4 hours. Wrap ice bag in single layer of towel and place on head.	FRACTURES (Broken Bones) Blanket	Marked deformity of injured part usually means fracture or dislocated joint. If possible, splint injured part before moving patient. Make patient comfortable and treat as for shock.		
HEAT EXHAUSTION Salt Water (1/4 teaspoon per glass of lukewarm water) Blanket Ammonia Inhalant	Lay patient down without pillow. Wrap in blanket. Loosen clothing. Give salt water frequently, in small amounts. If patient is faint or dizzy, pass ammonia inhalant a few inches beneath nose.	FROSTBITE Warm Compresses Warm Drinks	Objective is to gradually restore warmth to flesh. IMPORTANT! HANDLE PART GENTLY—DO NOT RUB. DO NOT EXPOSE TO STOVE, FIRE OR HOT WATER. Gently cover part with warmed woolen cloths, or immerse part in lukewarm, NOT HOT, water. Take patient into moderately warm room. Give warm drinks.		
MENSTRUAL PAIN, CRAMPS Aspirin or Analgesic Tablets Hot Water Bottle or Ice Bag	*Give two tablets with water. Repeat, if necessary, in 3 or 4 hours. Rest and application of hot water bottle or ice bag to lower abdomen may bring relief.	INSECT BITES Medicated Ointment Tweezers	If visible, remove stinger. Apply thin layer of ointment. Do not apply dressing. If swelling is rapid, consult physician.		
NERVOUSNESS Ice Bag or Cold Compresses	Offer reassurance. Patient may lie down. Wrap ice bag in single layer of towel, or prepare cold compress. Apply to forehead.	SHOCK (Pale, perspiring, weak pulse, labored breathing, weakness) Blanket	Keep patient lying down. Loosen tight clothing. Maintain body heat with blanket or substitute. Do not add heat or cause to perspire. Consult physician.		
MUSCULAR PAINS Aspirin Tablets	*Give two tablets with water. Repeat, if necessary, in 3 or 4 hours. Apply mild heat to area.	SPLINTERS, SLIVERS Needle or Other Sharp Instrument Antiseptic Sterile Dressing	Sterilize needle point by passing it through flame. Wash skin area with soap and water or antiseptic. Attempt to remove only small, visible splinters. Apply antiseptic again and sterile dressing.		
NOSE BLEED Ice Bag or Cold Compresses	Keep patient sitting up. Loosen collar. Press firmly on sides of nose for several minutes. Wrap ice bag in single layer of towel, or prepare cold compress. Apply to bridge of nose. If bleeding persists, consult physician.	SPRAINS Cold Compresses or Ice Bag	Elevate injured part and apply cold compresses, or wrap ice bag in single layer of towel and apply to affected part. If lower extremities are involved, patient should avoid weight bearing. IF AREA CONTINUES SWOLLEN, TENDER, OR PAINFUL ON USE, CONSULT PHYSICIAN.		
SORE THROAT Aspirin Tablet	Prepare gargle by dissolving one aspirin in 1/4 glass of hot water. May be prepared and given hourly.	STRAINS Warm Compresses or Hot Water Bottle	Rest injured part and apply warm compresses, or wrap hot water bottle in single layer of towel and apply to affected part. If condition is serious, consult physician.		
TOOTHACHE Aspirin Tablets	*Give two aspirin with water. Repeat, if necessary, in 3 or 4 hours. If pain persists or recurs, consult dentist.	SUNBURN Medicated Burn Ointment or Vaseline Sterile Dressing	Same as BURNS AND SCALDS above.		

*Adult dosage. Smaller dosage and much discretion should be used in care of children.

†IMPORTANT! Before offering treatment, wash your hands, using soap and hot water.

Sandia Employees Sought to Play in UNM Soccer League

The University of New Mexico is attempting to organize a soccer league composed of four local teams.

Employees who are interested in either participating individually or forming a Sandia team are asked to contact J. S. Souza (2543), ext. 32233, or H. W. Schmitt (2561), ext. 36271.

All equipment will be furnished by the university. League play will start Nov. 25.

Coronado Ski Club Adopts By-Laws

The recently-organized Coronado Ski Club will meet Tuesday, Nov. 28, at 8 p.m. at the Coronado Club, according to President Ken Pilkington (4411).

At a meeting earlier this month, members agreed to a constitution and by-laws for the club and heard a discussion on junior skiing, presented by C. Ed Long (3232-2). Jan Gulicksen, representing a local sporting goods store, talked about skiing equipment.

Chairmen for the four standing committees (Membership, Junior Activities, Program, and Skiing) will be appointed at the forthcoming meeting.

Any Coronado Club member interested in skiing is eligible for membership in the new club.

Service Awards

15 Years



Herschel E. Waldorf
7251
Nov. 14, 1946



Mack A. Deaton, Jr.
4541
Nov. 15, 1946



Edward S. Moore
4411
Nov. 15, 1946



Harry M. Hunter
2564
Nov. 18, 1946



Daniel S. Cain
4576
Nov. 20, 1946



Donald K. McMillin
3452
Nov. 20, 1946



Henry G. Sweeney
7224
Dec. 2, 1946

Ten Year Pins

Nov. 25-Dec. 8

Irene T. Brian 3421, Joseph Catallo 4575, Hugh A. Colvin 8123, Johnnie G. Apodaca 4573, Carlos B. Baca 4611, Melvin T. Mattison 7222, John W. Frizzell 2644.
J. W. Windsor 7534, Edward E. Wood 7231, Clifford J. Fisk 3453, Arnold B. Draper 2413, Arthur Troum 1112, L. J. Reynolds 2542, Daniel Parsons 7224.
Jose S. Montoya 4612, George T. Mancuso 4221, L. C. Trujillo 4234, R. K. Morrissey 2341, James F. Denson 7536, Chester L. Cox 3242.
A. E. Randall, Jr. 2563, H. Ray Sheppard 8151, Edith B. Blum 4200, Orlando Sanchez 4573, George T. Chapman 2641, Edward Grossman 4253, Jack W. Labrier 4573, Fred W. Stewart 4212.

D. J. Jenkins Speaks To Two Organizations

Donald J. Jenkins (3130) spoke to members of the Gallup Rotary Club and the management of Fort Wingate Ordnance Depot on Wednesday, Nov. 8.

Mr. Jenkins chose "Realities of the Soviet Challenge" as his subject for the Rotary Club. "Creative Imagination" was his topic at Fort Wingate. This talk was part of a series on problems in management sponsored by the depot.

Handball Fans to Match Skills During Month of December

A singles handball tournament, conducted by Services and Recreation Section 3122-2, will be held during December. All matches will be played at the Sandia Base Gym handball courts.

Anyone interested in participating in the double-elimination tournament should call Fred Romero or Seyfred Toledo, ext. 29157.

Welcome Newcomers

Nov. 6-17

Albuquerque	
Mabel C. Avallone	3126
*Dorothy M. Gray	3441
Edward J. Hodyke	4574
M. Alice Jarrell	4623
Veloy A. Johnson	4333
B. Ann C. Lee	3126
Aral I. Tays	4333
Bertha L. Trollinger	4622
Arkansas	
Bernard T. Kenna, Fayetteville	1122
Georgia	
H. Neal McLemore, Doraville	2542
Illinois	
Lyle Pollett, Chicago	1423
* Denotes rehired	
Returned from Leave	
E. Ruth Barth	4413
Mary M. Gonzales	4343
Paul D. O'Brien	5431

Dick Hicks Shoots Kentucky Rifle Replica Accurately As Dan'l Boone

Two hundred years and 2000 miles from the frontier Kentucky of such men as Boone and Crockett, R. H. "Dick" Hicks (4221-4) is reproducing muzzle-loading Kentucky long rifles. As accurate as they are beautiful, the rifles, made of steel, brass, silver, and eastern curly maple, will group five shots in a three-inch circle at 100 yards.

The shop where Dick makes his rifles contains an interesting combination of modern power equipment and handmade gunsmithing tools. Dick made many of the tools according to colonial and revolutionary specifications. The wall behind the bench where he does his stockwork is covered with an imposing array of chisels, gouges, rasps, files, and scrapers.

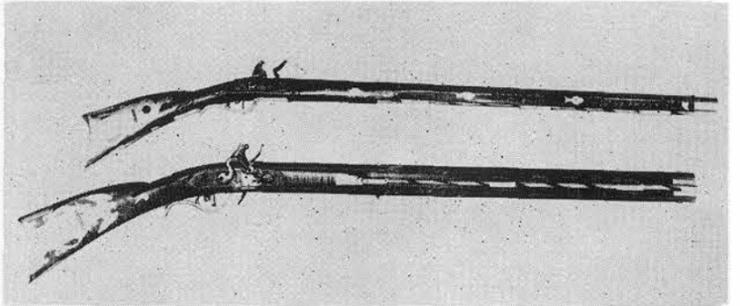
In Dick's shop barrel blanks are drilled and reamed with power tools. Rifling is done with a hand-powered machine. His stocks are made of eastern curly maple. Planks of choice wood for use in stocks are selected in New York

and Pennsylvania and then are shipped to Albuquerque. Each stock blank is sawed to shape. Then inlays, patch box cover, butt plate, trigger guard, and barrel are carefully inletted and finished.

"The history of rifles such as these is as fascinating for me as the building of them," Dick comments. "The Kentucky rifle is a descendant of the firearms brought to America as early as the Jamestown settlement in 1607."

Dick reports that interest in weapons such as the Kentucky long rifle seems to be increasing. He recently completed a number of rifles to be used as a display by the Great Northern Railway. Several of his rifles are used at Disneyland. "There's also a growing interest in shooting matches with long-bore muzzle-loaders," he says.

By his combination of modern and pioneer methods, Dick Hicks has not only helped to re-popularize the muzzle-loading rifle, but has contributed to the revitalization of an American tradition.



TWO REPRODUCTIONS of Revolutionary-period flintlocks by R. H. Hicks (4221-4) are shown above. The top rifle is a cal. .45 single-barrel model with a patchbox inlay inscribed "Don't Tread on Me." Bottom rifle is a twin-barrel, over-under cal. .45 model. Its stock inlay depicts spread-eagle motif popular in 1850's.

Scientist to Discuss Moon Composition at Research Colloquium

Dr. Marvin Van Dilla, Los Alamos Scientific Laboratory, will speak on "The Composition of the Moon — an Experimental Approach," at a Sandia Corporation Research Colloquium on Nov. 29 at 10 a.m. in Bldg. 815.

Dr. Van Dilla is currently working on a gamma-ray spectrometer which will be placed in Ranger lunar probes to help determine whether or not the moon has been molten and has a differentiated crust like the earth. He will discuss instrumentation and theory of these experiments.

The Los Alamos scientist is also interested in radioactivity instrumentation, fallout radioactivity in food and people, metabolism of radioisotopes, dosimetry of space radiations, and radioactivity of meteorites and the moon.

To arrange private conferences with Dr. Van Dilla, call Al Goodman (1124), ext. 53242. Tickets are required for this colloquium and may be reserved by calling Diane Martin (5132), ext. 27155.

Sandia Lab Facilities Visited by 163 Persons During Last Month

A total of 163 persons toured Sandia Laboratory facilities during October through arrangements made with Community Relations Division 3433.

The number included students, teachers, librarians, administrators, and the Chamber of Commerce Ladies Auxiliary. Facilities toured were the Sphere of Science exhibit hall, Sandia's 24-in. reflecting telescope, and the new library in Bldg. 804. Each group saw "The Sandia Story," which describes Sandia Corporation's job.

Tours coordinator is Stella Rappleyea (3433-1), ext. 31268.

October Golf Winners

Woody Hammons, Livermore Lab Insurance counselor, won the first place trophy in the October golf tournament with his low gross score of 84. Al Derby (8211-3) and Glen Funk (8166-2) tied for second place with their low nets of 66 each. The tournament was held at the Spring Valley Golf Course in Milpitas, Calif.



PATIENCE is a virtue in hand-boring muzzle-loading rifles. Dick Hicks uses boring machine he built to Colonial period specifications.

AEC Receives Bids for Remodeling Of Facilities in Sandia Tech Area

Bids were opened Nov. 14 for two construction jobs in tech areas of Sandia Laboratory, the Atomic Energy Commission announced last week.

One project calls for modification of five buildings of the SERF facility prior to occupancy. The project will include installing government-furnished partitions and mechanical equipment; modifying heating, ventilating, steam and water supply systems; installing underground cables, lead glass view ports, transformers, and control console; and other miscellaneous work.

Plant Engineering Department project engineer is J. C. Snowden (4543-3).

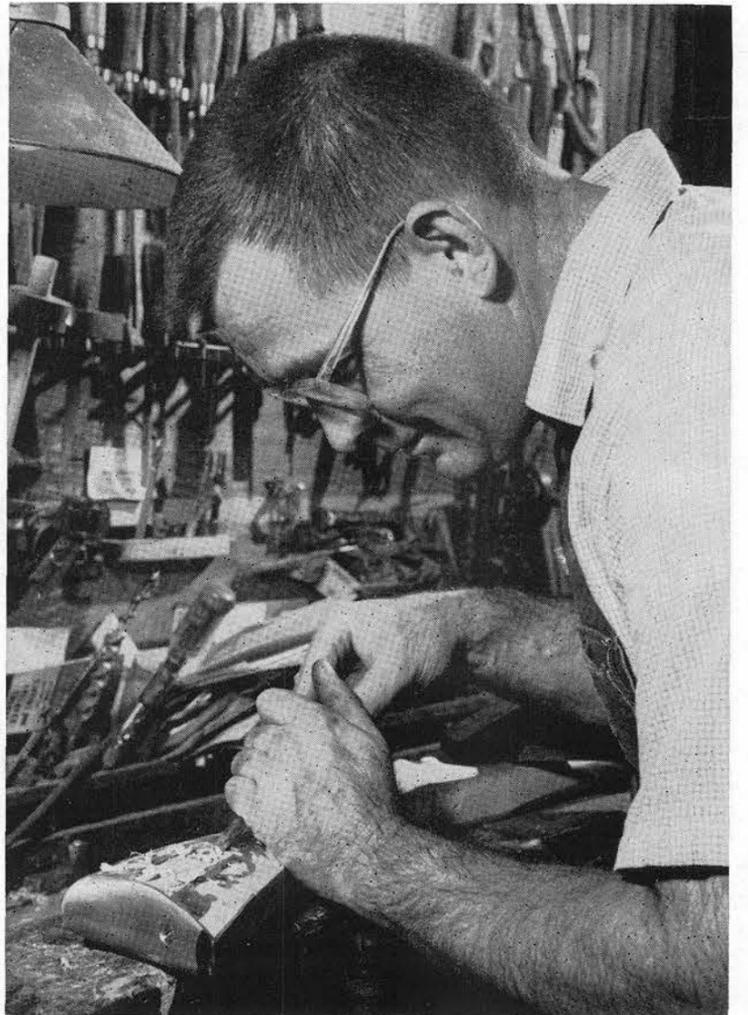
Apparent low bidder for the

project is Bradbury and Stamm Construction Company, Inc., of Albuquerque. Work is to be completed within 130 days after the contractor receives notice to proceed from the AEC.

The other project involves modifications to Bldg. 892. The work will include partition remodeling, mechanical and electrical modifications, door revisions, and architectural finish modifications.

Plant Engineering Department project engineer is V. E. Kerr (4543-3).

Jack B. Henderson Construction Company of Albuquerque is apparent low bidder for the project. Work is to be completed within 60 days after the contractor receives notice to proceed from the AEC.



CAREFUL inletting and detail work is characteristic of Hicks muzzle-loading rifles. Here, Dick routs out patch-box cavity in a partially-finished stock. Some models require over 400 hours work.

Sandia's Safety Record

Sandia Laboratory HAS WORKED 455,000 MAN HOURS OR 13 DAYS WITHOUT A DISABLING INJURY

Livermore Laboratory HAS WORKED 563,000 MAN HOURS OR 108 DAYS WITHOUT A DISABLING INJURY