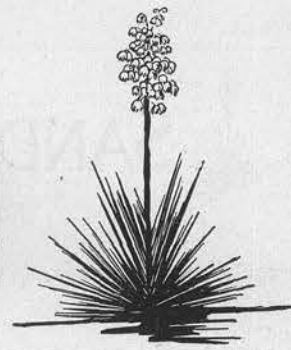


SANDIA BULLETIN



Vol. V, No. 4

SANDIA CORPORATION, ALBUQUERQUE, NEW MEXICO

FEBRUARY 13, 1953

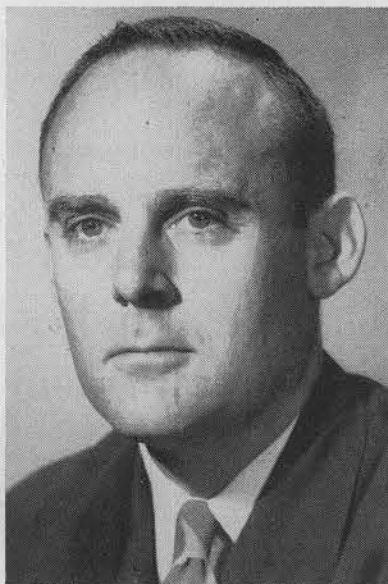
Sandians Will Help Stage Eighth Series of AEC Nuclear Tests

Nuclear tests at the Nevada Proving Grounds will be resumed this March, the Atomic Energy Commission has announced. Sandia Corporation will provide some of the manpower for the tests which will find the Department of Defense, Federal Civil Defense Administration and other federal agencies taking part.

Field Test Cooperates

Participating directly in the tests will be personnel of Sandia's Research and Development groups, including representatives of the Field Testing, Engineering and Weapons Effects organizations.

Harlan E. Lenander, 5230, will be Sandia Corporation's representative at the site and he will be in charge of instrumentation and other Sandia phases of the tests. He will report to G. A. Fowler, 5200, the Corpora-



Harlan E. Lenander
—Heads Instrumentation

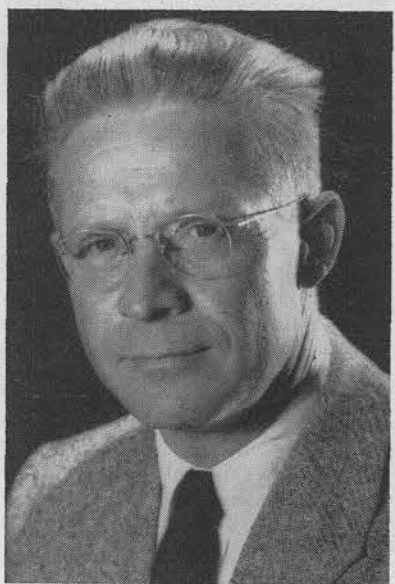
tific Test Director and Deputy for Scientific Operations; Col. Paul T. Preuss, USAF, Field Command, Armed Forces Special Weapons Project, Deputy for Military Operations; and S. R. Woodruff, Jr., AEC Las Vegas, Nev., Deputy for Support Operations.

Dr. John Clark, Los Alamos Scientific Laboratory, will be Dr. Graves' deputy Scientific Director. Other scientific aides include: Dr. W. E. Ogle, Los Alamos, weapons development tests; Dr. E. D. Doll, Stanford Research Institute, weapons effects tests; and Robert L. Corsbie, AEC Washington, civil effects tests.

Eighth Post-War Series

Other personnel for the test organization will be drawn from the AEC and its laboratories, from the armed services and their laboratories, from industrial and research organizations and from the Federal Civil Defense Administration.

The coming test series at Nevada is the eighth of the United States' post-war nuclear experimentations. The first took place at Bikini atoll in the South Pacific in the summer



Everett F. Cox
—Weapons Effects

of 1946. The second was at Eniwetok in the spring of 1948; the third was in Nevada during winter of 1951; the fourth at Eniwetok in the spring of 1951; the fifth in Nevada in the fall of 1951; the sixth in Nevada last spring; and the seventh at Eniwetok last November.

March 15 Income Tax Deadline

It's just about income tax deadline time again.

The law states that every citizen or resident of the United States, including minors, who had a gross income of \$600 or more in 1952 must file a return, whether or not his tax had been collected by withholding from wages.

The law further states that anyone who worked during the year and had tax withheld from his paycheck, yet did not earn \$600, should file a return to get a refund of the tax withheld.

Parents Responsible

If a dependent or minor had a gross income of \$600 or more in 1952 he must file a return and cannot be claimed as an exemption. In the case of minors, the payment of tax is the legal responsibility of the parent.

Returns must be mailed so as to be in the office of the Director of Internal Revenue not later than March 15, 1953. If your tax is more than has been withheld, or more than you have already paid on estimated tax, the difference must be forwarded with the return.

W-2 Forms Distributed

W-2 forms showing taxes withheld by the company have been distributed by the payroll organization. The original should be attached to the form 1040 on which you make your return. A supply of 1040 forms has been placed in the Employee Services office, Bldg. T-301, for your convenience.

Returns may be mailed to Director of Internal Revenue, Federal Bldg., Albuquerque, N. M.

Dean Wise Heads Albuquerque Gem And Mineral Club

New president of the Albuquerque Gem and Mineral Club is Dean S. Wise, 2123-1 who will have the following Sandians on his staff: Mrs. Marie Nichols, wife of Marshall Nichols, 2123-1, recording secretary, and Mrs. Ellen Wood, 2531-2, corresponding Secretary.

The club is in its 12th year and comprises individuals (referred to as "rockhounds") who have chosen gems and minerals for their hobby. Meetings are held the second and fourth Mondays of each month in Room 203 in the Administration Building at the University of New Mexico. Field trips are held monthly and club members invite visitors to these and their regular meetings.

Safety Report Better But Director Warns Against Resting on Laurels

Sandia Corporation's disabling injury experience for three years was explained in a chart contained in a Safety Bulletin recently published by A. B. Metzger, company Safety Director. Figures quoted in the chart's three-year table indicated that the year 1951 showed a considerable improvement over 1950 and that during the year 1952 the frequency of disabling injuries increased but the severity decreased.

Use Experience

Using the newspaperman's formula "who, when, where, what, why" the report stated "We cannot live in 1953 on the accomplishments of 1951 or 1952. However we can make 1952 experience a most effective tool in getting the job done with greater safety in 1953."

Found in the "Who" section of the report was a list of the occupations, ages, and length of service of those employees receiving disabling injuries. The "When" section tallied the injury

Nuclear Resonance Meeting Included In Seventh Annual Conference of IRE

More than 500 engineers and technicians attended the 1953 Institute of Radio Engineers' Seventh Regional Conference held at the University of New Mexico January 26 and 27.

The highlight of the technical sessions held in Mitchell Hall was a symposium on Nuclear Resonance guided by R. H. Varian of Varian Associates. This complicated scientific phenomenon has uses as a laboratory tool in the study of atom nuclei and perhaps as a means of using nuclear energy in certain commercial fields.

Bell Official Speaks

Dr. James W. McRae, president of the Institute of Radio Engineers and Vice President of the Bell Telephone Laboratories, was the featured speaker at the conference banquet. He presented a paper titled, "The Radio Engineer Looks Ahead."

Among the other speakers at the technical sessions was Dr. R. C. Newhouse, of Bell Telephone Laboratories, who spoke on "System Concepts in Military Weapons." His talk dealt with certain aspects of the military problems of delivery of means of destruction against enemy targets.

Equipment Displayed

Barney J. Carr, 2124, was another who presented a paper. His subject was "An Electronic Integral Equation Resolver," and concerned the design and engineering aspect of an electronic analogue computer.

During the conference an exhibit of electronic equipment was displayed at the University by manufacturers' representatives. Over 750 people visited and examined the wide variety of instruments shown.

Sandians who were conference of-



Barney Carr



Ted Church



Dave Middleton



Dr. James W. McRae
—Vice-President B.T.L.

ficers and committee and session officers were: C. W. Carnahan, 5400, conference chairman; Burt Bittner, 5410, conference vice chairman; George Arnot, 5414, conference secretary; Ned Wilde, 5414, conference treasurer; Ted Church, 5410, technical papers committee; Silvan Locus, 5412, registration committee; H. B. Barling, 5431, hospitality com-



R. H. Varian Dr. R. C. Newhouse

mittee; Ed Miller, 5312, publicity committee; Norbert Gamara, 5412, session chairman; Thomas Marker, 5400, session chairman; A. David Middleton, 5415, session chairman; and Jack Shoup, 5410, session chairman.

Other Sandians who worked on the conference were: Norbert Loretz, 1951, Max Weber, 5132, Will Lee, 5415, Tom Lusk, 5422, Carl Carlberg, 1910, Charles Hines, 1912, and Kenneth Urquhart, 5330.

Business Group to Be Chartered at Banquet Feb. 21

The Albuquerque Alumni Club of Delta Sigma Pi, business administration professional fraternity, will hold a charter banquet at Leonard's Restaurant February 21 at 6:30 p.m., it was announced this week by Dean Irvin, 3152, president of the local club.



Dean Irvin

Of the 30 charter members, 13 are Sandians. They include in addition to the president, Donald G. DeHerder, 2544-1, Edward C. Domme, 4231, Edward A. Gorey, 4135-3, James C. Gravlin, 2225, W. J. Harmeyer, 4151, Jay W. Hughes, 2340, Lowry G. Kinzer, 2335-1, William E. Lew, 4131-1, John H. Morrison, 5233-3, Kenneth D. Spiller, 2121-1, Kenneth E. Sutton, 3232, and Rudolph J. Walter, 4231.

Prior to the charter banquet there will be a luncheon at the Coronado Club Friday noon, Feb. 20, at which time J. D. Thompson, executive secretary of the national office, will be guest of honor.



Glenn A. Fowler
—Field Test Chief

tion's Director of Field Testing. Also present at the Nevada Proving Grounds will be E. F. Cox, 5110, who is head of the Weapons Effects Department, Sandia Laboratory, and will be a member of the test manager's advisory panel. In addition there will be varying numbers of Sandia Corporation engineers, technicians and service personnel in Nevada for the duration of the nuclear experiments.

Armed Forces Present

The new series of tests, according to the AEC, is designed to advance development of new and improved nuclear devices and will provide additional weapons performance data essential to military and civil defense effects studies.

The Department of Defense has notified the commission that 18,000 troops of the Army, Navy, Air Force and Marines will participate in troop maneuvers and training exercises during these tests.

Construction of test structures for the AEC, Department of Defense and Federal Civil Defense Administration was begun last fall. The construction program also includes new facilities for instrumentation work in the technical areas and additions to the permanent establishment at the Proving Grounds.

A large part of the program in which the effects of the nuclear detonations are studied is classified.

Tyler Heads Operation

Operations at the Nevada Proving Grounds are directed by Carroll L. Tyler, Manager of the Santa Fe Operations Office in Albuquerque. In addition to Mr. Tyler the test organization includes James E. Reeves, AEC Albuquerque, Deputy Manager; Dr. Alvin C. Graves, Los Alamos Scientific Laboratory, Scien-

SANDIA BULLETIN

Friday, February 13, 1953

Published for the employees of Sandia Corporation, Albuquerque, New Mexico

Editor, Robert S. Gillespie
Assistant Editors, William A. Jenkins, Maxine Ethridge

Photography by Photographic and Reproduction Division

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Telephone Ext. 25253

Uncle Sam Provides Way to Save—

Savings habits of the American public, when it comes to the purchase and redemption of government bonds, present some interesting statistics.

The better terms now offered by the U.S. Government on Savings Bonds have resulted in an increased response to these investments, but redemptions of the "E" series bonds last year continued to exceed sales. The redemptions were greater than sales of the series by \$750,000,000.

The government increased the attractiveness of the "E" bonds by raising their yield from 2.9 to 3 per cent and shortening their maturity from 10 years to nine years, eight months. Series "F" and "G" bonds have been replaced by two new issues "J" and "K" which have provided an increased interest rate, from 2½ per cent to 3 per cent at maturity. Both of these are 12-year bonds designed for large investors.

Uncle Sam introduced another bond during the year—the "H" series. This is a current income bond with interest paid semi-annually by check.

Meanwhile the Treasury Department has granted holders of the maturing bonds the privilege of full redemption or the opportunity to renew the bonds for another full term at the increased interest rate.

The obligations brought to the Treasury Department by the maturing of all these bonds probably can complicate matters of national financing. Series "E" bonds maturing this year will amount to about \$5,100,000,000 and "F" and "G" bonds will account for an additional \$1,100,000,000. This makes a total of \$6,200,000,000 which compares with last year's total of \$3,100,000,000.

All of these figures are a bit staggering, but then financing of the government of the world's greatest nation isn't simple.

From our own individual standpoint there is considerable to be said for the investment opportunities offered in the bond program. And to the Sandia Corporation employee there is an added incentive—payroll deduction. Widely acclaimed as the "painless" way to save, it indeed provides us with an easy doorway to thrift.

Congratulations!

BORN TO:

Mr. and Mrs. Neil Hansen, 3152-2, twins January 31—a son, 5 pounds 6 ounces, and a daughter, 5 pounds 15 ounces—names David Neil and Mary Kay.

Mr. and Mrs. Stan Howard, 1281, a daughter January 26—weight 7 pounds 8¼ ounces—name Ellen Elizabeth.

Mr. and Mrs. Gene M. Nielsen, 4311, a son January 9—weight 7 pounds 6 ounces—name Michael Brent.

Mr. and Mrs. James W. McRimmon, 4312, a daughter January 28—weight 7 pounds 1½ ounces—name Dana Lee.

Mr. and Mrs. E. B. Massengill, 1613-4, a son January 29—weight 8 pounds 7 ounces—name David Earl.

Mr. and Mrs. John Stanley, 1611-1, a daughter February 1—weight 6 pounds 14 ounces.

Mr. and Mrs. Richard A. Buck, 1612-1, a son January 1—weight 6 pounds—name Lawrence Richard.

Mr. and Mrs. Paul Kirby, 1925, a son January 25—weight 7 pounds 4 ounces—name Bruce Lynn.

Mr. and Mrs. Donald B. Webb, 1211, a daughter January 1—weight 9 pounds 11 ounces—name Susan Carol.

Mr. and Mrs. Wiley Homes, 1211, a daughter January 18—weight 6 pounds 13 ounces—name Anna Darice.



WHEN JEAN GILLETTE, 3124, and her husband took their recent vacation trip to California, Laguna Beach was one of the interesting places they visited. Above, Jean and Herbert are shown gazing over the Pacific from North Laguna with scenic Highway 101 in the background.



NO, NOT MOVIE STARS at Ciro's, just Sandians at the Coronado Club. Shirley Tagliaferri, 3222, and Vic Siman, AEC, were snapped at a recent Coronado Club dance.

AROUND THE DEPARTMENTS

Ham operator **Bertram Chaffee**, 5422-2, talked with Brazil and Peru recently on a 10-meter band from the "ham shack" at his home, 2200 Palomas, NE. Bert, a member of the Sandia Base Radio Club, has outfitted his radio room for repair of equipment as well as transmitting and receiving, and invites other ham operators who are short on space to utilize the "shack." Bert says he's more interested in home radio work than in mobile. . . . "I get curb service from my wife . . . she comes in with the coffee and cake. You don't get that in the field."

Dolly Willis, 1925, enjoyed a visit from her son and his family recently.

February happy birthday wishes from their co-workers in 2410 are extended to **R. B. Crout**, **David C. Hake**, **W. C. Elskes**, and **C. H. Crass**. . . . the fellows say they now have 21, they're going to try for 22!

Lorna Hensler, 2472-3, enjoyed a week's vacation at home this month.

Gerry Hahn, 2410, will be women's delegate to the New Mexico State Bowling Convention in Hobbs for two week ends in March. The convention, scheduled for March 14-15 and 21-22, may be reached by specially chartered buses, Gerry advises women bowlers.

Fred Vishaway, 2472-3, welcomes any and all advice from home owners since he's making plans to build a house soon. . . . Fred says he has the blueprints for the home almost completed, but he's still in the dark about where he'll build.

Mary Jo Jaquez, **Judy Kemple**, **Dottie Kueker**, **Lou Gallegos**, **Patti Evans** and **Martha Whitford**, 1630, enjoyed luncheon at the home of **Ruth Irma Arvison** recently. Ruth formerly worked in 1631.

Sally Castillo, daughter of Mr. and Mrs. Alex Castillo of Belen, will be married tomorrow to **Joe Louis Sanchez**, 2143, in Our Lady of Belen Church. The couple will make their home in Albuquerque after a honeymoon trip.

Her co-workers in 4153 welcomed **Jane McDermott** back after her recent hospitalization. **Harold Brint**, 4151, has returned to his job also following a short stay in the hospital.

Ken Seaver, 4152, took a winter vacation to California recently.

Phyllis Hoyt, 4131, has resorted to country life with purchase of an adobe home surrounded by several acres of land near Corrales.

Her small daughter was honored recently by **Betty Van Gundy**, 4131, on the occasion of the youngster's fourth birthday.

Brad Prince, 3151, last week moved into his new home at 1139 Lester Drive, NE.

Attending the Industrial Testing Institute at the University of Houston, Houston, Texas, last week was **Bob Garcia**, 3154.

Recuperating at home after an operation is **Dorothy Stubenfall**, 4151; her co-workers wish her a speedy recovery.

Clarence Ray is sporting a new black Pontiac. Clarence is in 4152.

Another proud new Albuquerque home owner is **Bob Kronberger**, 2351, who is now living at 1108 Madison, SE.

Jean Goldberg, 2362-2, has returned from a pleasant two-week vacation trip to Rochester, N.Y., where she visited friends and relatives.

Bride-elect **Eva Sanchez**, 2342, was honored by her co-workers February 4 at a shower during the lunch hour.

Robert V. Crompton, 2452, is sporting a new British Ford-built Consul automobile.

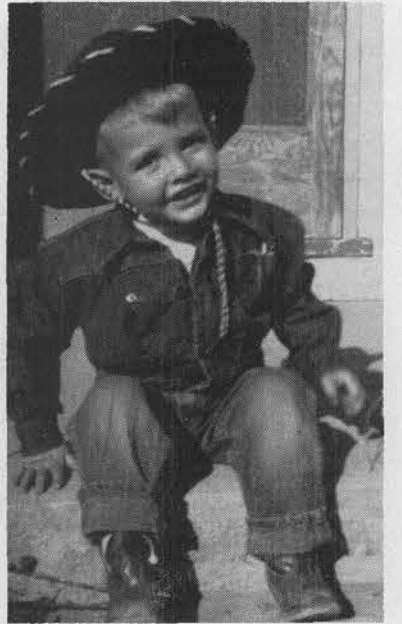
His fellow workers are wishing a speedy recovery to **Robert Cresson's** wife and children who were slightly injured in an automobile accident recently. Bob works in 2452.

Sybil Milligan, AEC, passed the candy last week in celebration of the "big event" for her prize Boxer, Duchess. The five pups and their mother are presently at the mountain home of **Jessie Greenwell**, also AEC.

Jo Tensley, AEC, was honored last Friday when her co-workers brought in a cake to celebrate her birthday.

"Get well fast" wishes go out to **Holt C. Gay**, 1211, who has been ill for the past three weeks.

Dr. George Flessas, 3160, and **Bob Malley**, 5242-2, are enjoying a holiday trip to Louisiana where they will join in the Mardi Gras fun.



JUST A LPL OLD COW HAND is what **Randy Marcrum** would like to be, or so he tells his mother, **Lucile Marcrum**, 1921-2. Randy passed his second birthday recently.

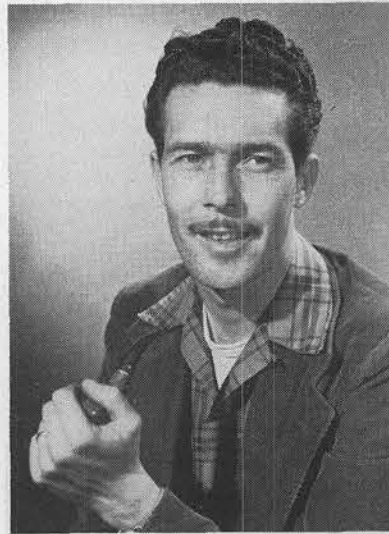
Character Studies by Camera Are Hobby of Amateur Photographer

Jim Allen's hobby is like the post-man's holiday—he's a photographer at home as well as on the job.

Jim's interest in portrait photography and "character studies" stems from a previous job he held with the noted photographer, **Frenz Fedor**, when the latter had a studio in Albuquerque. Jim recalls the job was more of an apprenticeship than anything and he also attended the classes that Fedor held for paying students.

Lighting Tricks

Not only did Jim learn the rudiments of photography from Fedor, but he picked up lots of lighting tricks and darkroom technique. The work he does now for his family and his friends has a definitely professional appearance and he is constantly on the alert for "new faces" who will model for him as he pursues this hobby.



Jim Allen

The character study is Jim's favorite medium. With controlled lighting and a fast shutter he has turned out some eye-catching pictures. His two sons, **Micky**, 6, and **Kim**, 18 months, are frequent models and several of Jim's co-workers at Sandia have been singled out by him to pose. Jim, who works in 5215, says he "sees" something in a face and then attempts to record that something with his camera. At first he used several cameras, but he sold them all and now works exclusively with a Rolleiflex.

Home Studio

The Allens have a hobby room adjoining their home. It serves as a studio for Jim and he has painted the walls deep blue and light grey for the black or white background effect he may desire in a photograph. Jim has so many requests from his friends to do their children's portraits that he has worked out a montage procedure that he believes brings out the true personality of the youngster.

Of course Jim practiced on **Mickey** and **Kim** and the Allen scrapbook is filled with photographs of the boys, but now in his spare time Jim finds plenty of pictures to take for his friends. He has to charge for some of this work, primarily to cover



Warren S. Roberts

expenses of paper, chemicals, etc., and he holds a city license for photographers.

Character Studies

THE BULLETIN brings you two of Jim's character studies, **Hazel Williams**, 4222, the girl with the beret, and **Warren S. Roberts**, 5216, the mysterious looking shiek. (Statistics on Warren's picture: the "robe" was a Japanese kimono Jim had purchased in Los Angeles for Mrs. Allen. The "turban" was a pair of colorful swim trunks. Only lighting used was a 40-watt bulb held at a 45 degree angle and the fill-in lighting was a sheet of music held by Mrs. Roberts. Tripod was courtesy of Mr. Roberts.)



Hazel Williams

Storehouse of knowledge is at The fingertips of Sandians

Science on the Shelf

Knowledge is an intangible thing. Without it the world could not exist as we know it, with it anything is possible. And of all creatures man is the only one that has learned to store knowledge. We have some of the world's best minds here at Sandia in person, but more important the accumulated knowledge of thousands of mankind's greatest minds, both past and present, is here on tap in our technical library.

Curiously enough, the first book placed on the shelf when the library was started back in June, 1948, was one entitled, "Transmission Networks and Wave Filters," written by Timothy E. Shea, who is now our Vice-President and General Manager.

Many Book Categories

The library has grown from a stack of books in the office of Sylvan S. Harris, 2460, to its present quarters with rows of shelves, magazine racks, reading table, and catalog files in building 802.

The main categories of library books are math, physics, chemistry and engineering with other smaller categories running from astronomy to mining. The titles on these thousands of books go from the sublime—"Piezoelectric Crystals and their Application to Ultrasonics"—to the ridiculous—"How to Succeed in Business Without Really Trying."

Take Russian Magazine

The library maintains 350 running subscriptions to technical magazines. Few of these will ever appear on your local newsstand. Take for instance the "Mathematischeskiy Sbornik"—meaning "Mathematical Journal," a magazine published by the Soviet Academy of Sciences in Moscow—or the "Zeitschrift Fur Angewandte Mathematik Und Physik," which is the German "Periodical for Applied Mathematics and Physics."

In addition to the main library room there are two offices devoted to library administration plus a specifications and commercial catalogs room which is sometimes as heavily patronized as the library proper.

List Manufacturers

In this room are banks of filing cases and piles of books dealing with the specifications and standards on almost anything our technicians could ask for. Another wall in this room is lined with catalogs listing a tremendous variety of manufacturers. Thus if a certain type of valve is desired it is a simple matter to determine where it can be found.

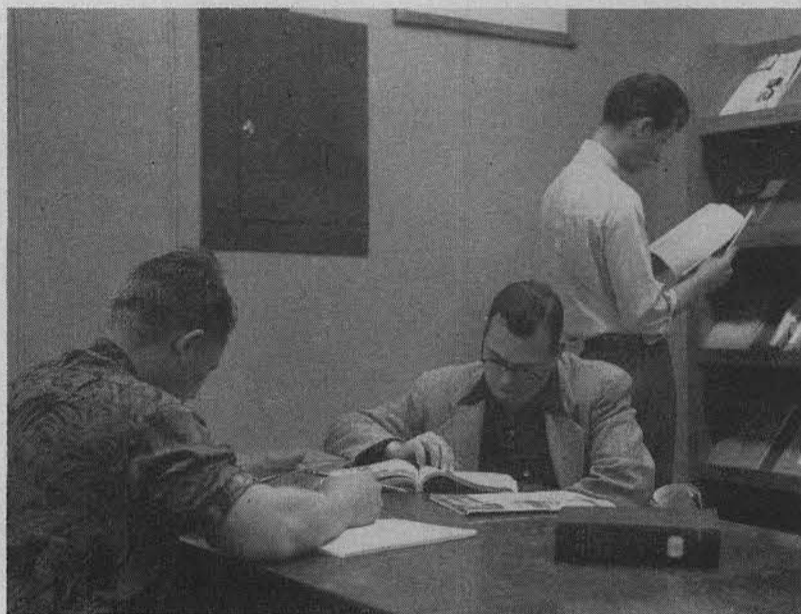
Heading the library is Phil Leslie, 1921-1, who reports to John K. Merrill, 1921. Assisting Phil are: Dr. Marcel Weinreich, the Corporation linguist, secretary Virginia Haley, order librarian Marjorie Garwood, serials (magazine) librarian Florence Gamez, cataloger Ruth Farley, steno-typist Peggy Porterfield, library assistants Sophia Berning and Estelle Muses, circulation librarian Lucille Marcrum, catalog librarian Margaret Brown, and specifications librarian Mary Tillotson.



CUSTODIANS of the Specifications and Commercial Catalogs Room are Margaret Brown (left), who handles the catalogs, and Mary Tillotson, who is in charge of the specifications and standards library.



MAGAZINES are the specialty of Florence Gamez, the serials librarian. Florence maintains running subscriptions to 350 technical publications.



THE ANSWERS to almost all technical problems can be found in the technical library. Thousands of books and magazines in a huge variety of fields are in stock. Here some Sandians make use of the library's reading table and magazine rack.



BACKSTAGE in the technical library is a busy office taking care of all the filing, recording and ordering necessary to keep the library up-to-date. In the foreground is Marjorie Garwood and behind her, left to right, are Virginia Haley, Estelle Muses, Ruth Farley, Sophia Berning, and Marcel Weinreich.



HEAD LIBRARIAN Phil Leslie checks over a report with Peggy Porterfield, the library's steno-typist.



THE FIRST BOOK stocked by the library was written by Timothy E. Shea, who later became our Vice-President and General Manager. Circulation librarian Lucille Marcrum opens it here to show the title, "Transmission Networks and Wave Filters."

Jan Garber's Famous Sweet With A Beat Music to be Featured at Club on Feb. 21

Jan Garber's Orchestra, coming to the Coronado Club on Saturday, Feb. 21, is featuring a type of music which he calls, "Sweet With a Beat."

"We had swing in the old days," Maestro Garber says, "only we called it jazz. Whiteman played it, I played it, and there was little or no opposition."

"When sweet music of the Lombardo variety came in, it was a novelty. When jazz came back under the name of swing, that seemed like a novelty, too, but the recent swing and sweet

leaning have definitely left their mark on all popular music.

Known 20 Years

"From now on, sweet music will have a dose of 'beat' in it to make it generally acceptable."

Jan has been one of the nation's top name bands for more than 20 years. His was one of the first "hotcha" or swing bands and later he became famed for his dreamy, melodious arrangements.

The present Garber organization is composed of some of the top instru-

Promotions

KEITH E. MEAD to section supervisor of 1621-2. Keith came to Sandia in January, 1951, after three



and a half years as an instructor in mechanical engineering at the University of New Mexico. Previously Keith received his B.S. degree in mechanical engineering from

Kansas State College. He has also done graduate work in the field of metallurgy. Keith is a veteran of two years in the U.S. Navy.

GEORGE D. HORNE, JR. to section supervisor of 4133-1. George joined us in July, 1950, following his graduation from the University of Colorado where



he earned his B.S. degree in business administration. Prior to enrolling at the University, George served for a year and a half in the U.S. Army Air Corps where he was stationed at Lowry Field, Colo. He also attended La Grange Junior College, Illinois, for half a year.

JAMES M. FISHER to section supervisor of 1644-1. Jim came to the Corporation in October, 1950,



after working briefly at the First National Bank, Albuquerque, as assistant head of the transit department. Before that he graduated from the University of New Mexico

with a Bachelor of Business Administration degree. Jim has also served for 13 months with the U.S. Navy.

MIT Alumni Plan Local Chapter

Organization of a Massachusetts Institute of Technology Alumni Club is scheduled for Friday, Feb. 20, at Leonard's Restaurant, according to George Reis, 5231, an MIT alumnus. The dinner meeting will start at 6:30 p.m.

Speaker for the evening will be Dr. John Chipman, head of MIT metallurgical department.

Former MIT students interested in an alumni club are invited to attend the meeting. Bill Rollosos, 5111, is accepting reservations through Feb. 18. He may be reached at ext. 33138.

Singers Wanted By Two Groups

Additional singers are wanted by the Sandialiers and the Choristers to join in next month at two evening concerts. The Sandialiers will appear March 4 at the ANAF club, and the Choristers, March 25, also at the ANAF club.

The Sandialiers, male chorus group, is headed by Ted Anderson, 3231, and Bob Roy, 1918, is president of the mixed voice Choristers. Terry Riggan, 1243-1, directs the Choristers who rehearse weekly at 8 p.m. Tuesday in the Coronado Club. Rehearsal time for the Sandialiers is 7 p.m. Tuesday at the Coronado Club.



Thelma Gracen Vocalist

Jan Garber Maestro

mentalists and artists in the country, in addition to his new outstanding staff of arrangers.

In Many Movies

Garber's popularity over the years has won him and his orchestra many choice spots in motion pictures and features, among them:

"So's Your Uncle," for Universal, "Where's Elmer," for Republic, "Jam Session," for Columbia, and short features for both Universal and RKO. He has also been featured on radio, notably the NBC Spotlight Bands Show, and on television. His dance and concert engagements have been at such well-known places as the Hotel New Yorker, the Trianon Ballroom in Chicago, and the Palladium in Hollywood.

He is currently recording on Capitol records but in the past he has been on all the big name labels.

Seating at the Coronado Club for the Garber dance will be slightly limited due to the refinishing of the cafeteria floor. Tickets are now on sale at the Coronado Club at \$1.50 per member, \$2 per guest. Reservation can be made only at the time the tickets are purchased. First comers will get the best tables so hurry, hurry, hurry!

Model Planes and Control by Radio Subject of Talk

Radio controlled model airplanes will be featured at a meeting of the Sandia Base Radio Club, Monday, Feb. 23. Frank A. Hoover, 5221, will present the talk, accompanied by photographs of model planes in the air and on the ground. The club meets at 8 p.m., building T-317, H Street.

Mr. Hoover, who for some years operated a hobby shop in town, will use working models to demonstrate his talk. He has built and flown around 20 radio controlled models since becoming interested in the sport.

Car Signal Lights Banned, Use of Hand Signals Is Urged

Motorists on Sandia Base are asked to use hand signals rather than automatic directional signal lights, the Provost Marshal's office pointed out this week.

The reason for the above reminder, which is now a part of base regulations, is that the military policeman who is directing traffic from a control box cannot see the automatic signals when automobiles are approaching in numbers, particularly at peak load hours.

Two Sandians Speak To ASME Wednesday

Frank Gagliardi and Vern Field, both 1243, will be speakers at a meeting of the American Society of Mechanical Engineers on Wednesday, Feb. 18. The Society will gather at room 2, Mechanical Engineering Building, University of New Mexico, 7:30 p.m.

Frank's talk is titled, "Development and Perfection of Turbo-Jet Engines." Vern will speak on "Infinitely Geared Variable Torque Mechanism."



THE POPULAR STORY HOUR sessions at the Sandia Base Library will be continued with Mrs. Philip Wesson spinning tales for the younger set, it was announced this week. Mrs. Wesson will hold an hour's session beginning at 10 a.m. on the last Saturday of each month. Above is a photograph of Mrs. Wesson surrounded by children at her last story session.

Mrs. W. E. Caldes New President of Toastmistresses

Installation of officers and the second relay of the speech contest were highlights of the last meeting of the Turquoise Toastmistress Club held recently at the Coronado Club.

Mrs. Lloyd Higgins of Tewa Toastmistress, community service chairman of International Toastmistress Clubs, was in charge of installing the newly-elected officers who included Mrs. W. E. Caldes, president; Mrs. E. G. Miller, vice-president; Mrs. D. E. Fitchhorn, secretary, and Mrs. B. J. Bittner, treasurer.

Contest winners to date are Mrs. Caldes and Mrs. T. J. Jorgensen. A third speaker will be chosen at the next meeting and the three will compete at a run-off meet February 25. Winner of that contest will represent Turquoise Club at the Council level of competition.

Officers Named For Credit Union

Martin Grothe, 3220, was elected president of the Sandia Federal Credit Union at a recent meeting of the newly elected board of directors. Al Spengeman, 4120, last year's president, was named vice-president and J. W. Kunetka was reelected secretary-treasurer.

Members of the board of directors elected at the annual meeting of shareholders are J. J. "Mike" Michnovicz, 2462, Ed Bergquist, 2321, Henry M. Willis, 1924, and Robert B. Crout, 2413. Members appointed to the supervisor committee were Ray Coffey, 2121, Louis E. Aragon, 4151, and Robert Blount, 1921.



NEWLY ELECTED OFFICERS of the Turquoise Toastmistress Club include L to R Mrs. E. G. Miller, vice-president; Mrs. D. F. Fitchhorn, secretary; and Mrs. W. E. Caldes, president. Absent when the photograph was taken was Mrs. B. J. Bittner, newly chosen treasurer.

Traffic Management Course Offered by Club and University

The University of New Mexico, in conjunction with the Albuquerque Traffic Club, is offering a course in "Traffic Management and Related Problems" at its evening sessions, starting with the Spring term, according to Ted J. Jorgensen, 2341, club president.

Future plans are to have this course included in the credited courses offered by the University. Classes will be held every Wednesday from 7 to 9 p. m. starting Feb. 11. Tuition for the 12-week course is \$10.

Sympathy

Our sympathy is extended to John H. Hess, 4125, for the recent death of his father-in-law.

Sympathy is extended to Penny Morton, 1281, whose brother died January 31 in Palatka, Florida. Penny went to Florida to attend the services.

Sympathy is extended to F. C. Scott, 2412, whose father-in-law, J. M. Rogers, died recently after a lengthy illness. Mr. Rogers had made his home with the Scotts for the past year.

Valentine Formal at Coronado Club Tomorrow; Buffet Dance Sunday Night

Get out your evening gowns, girls. Tomorrow night is the night to dazzle the boys at the Coronado Club's annual Formal Valentine's Dance. The Club will be completely decorated in the Valentine theme.

No reservations will be required for this event. It's a free dance for members. Doc Savage and his orchestra will provide the music from 9 to 1.

Buffet-Dance

On Sunday the only buffet-dance of the month will be held with Charlie Biesel's combo performing. Reservations are required. The buffet will be from 5 to 7:30 p.m. and the dance is from 6 to 10 p.m. Admission is \$2 for members, \$2.50 for guests.

Wednesday, the 18th, is Bingo night at the Club. The restaurant will again serve its famous 75-cent Bingo night supper of spaghetti and meat balls with free wine.

Floor Refinishing

Duplicate bridge players will convene on the 19th and on Friday the 20th the cafeteria will close for floor refinishing. The cafeteria will remain closed until the 24th when it will open and the ballroom will close for floor refinishing. The ballroom will be closed from the 24th through the 27th. During the floor refinishing the rest of the Club, including the entire downstairs area, the foyer and the Cocktail Lounge, will be open.

Saturday the 21st Jan Garber and his orchestra will appear from 9 to 1. Admission is by ticket only and reservations can be made only at the time of ticket purchase. Tickets are \$1.50 for members, \$2.50 for guests.

The final event of the month is a juke box dance on the 28th.

CAP Unit Needs Radio-Telephone Communications Man

Joseph D. Schauer, commanding officer of Squadron Three, Central Group, of the Albuquerque contingent of the Civil Air Patrol, is looking for a first or second class radio-telephone commercial operator to serve with the unit.

Captain Schauer says the operator is needed to do communications in con-

Newcomers From 25 States Went To 36 Colleges

Forty-four college graduates were among the 98 new employees who joined Sandia Corporation during January. Coming from 25 different states, the 58 men and 40 women had attended 3 different colleges and one person was a brand new 1953 graduate.

Seventy-three of the new comers are married and have 95 children.

College Degrees

Associate of Arts 1, Bachelor of Arts 5, Bachelor of Science 26, Master of Science 9, Master of Arts 1, Bachelor of Legal Letters 1, Doctor of Philosophy 1.

Home States

California 9, Colorado 2, Illinois 10, Indiana 2, Kansas 2, Kentucky 1, Maryland 2, Michigan 1, Minnesota 2, Missouri 1, Montana 1, Nebraska 2, New Jersey 3.

New Mexico 39, New York 5, North Dakota 2, Ohio 1, Oregon 1, South Dakota 1, Tennessee 1, Texas 2, Virginia 2, Washington 4, West Virginia 1, Wisconsin 1.

Colleges Attended

Universities of Iowa, California, Maryland, Arkansas, Idaho, New Mexico, Washington, Kansas, Missouri, Minnesota, Colorado, Tennessee, Wisconsin, Southern California, Washington, West Virginia.

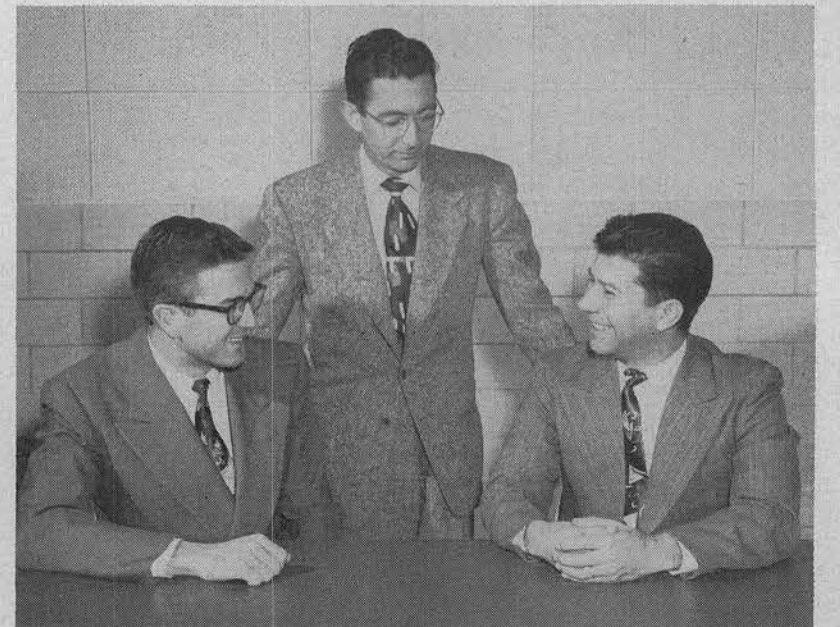
New York University, University of Southern California, San Jose State College, Pennsylvania State College, Louisiana State University, North Dakota State College, South Dakota State College, Montana State College.

Marquette University, Harvard University, Drexel Institute of Technology, Monterey Peninsula College, Elmira Business Institute, Illinois Institute of Technology, Michigan College of Mining and Technology, Colorado School of Mines, California Institute of Technology, Georgia Tech, American Television Institute, Carnegie Institute of Technology, George Peabody College.

nection with the rescue activities of the group. Anyone interested in the work may call Elliott Harris, at his home telephone, 5-6608, evenings.



DIRECTORS MEET—Newly elected directors of the Sandia Federal Credit Union are pictured above. L to R: Robert B. Crout, Henry Willis, Ed Bergquist and J. J. Michnovicz.



SUPERVISORY COMMITTEE—New members of the supervisory committee of the Sandia Laboratory Federal Credit Union are Robert J. Blount, 1925, Ray Coffey, 2121-1, and L. E. Aragon, 4151-1.



Martin Grothe
—President Credit Union



Al Spengeman
—Vice-President



J. W. "Bill" Kunetka
—Secretary-Treasurer

Losing the sight of one's Eyes is a great tragedy

It's No Game of Blind Man's Buff

When we were youngsters the game "blind man's buff" was great sport. It still is great fun for the youngsters, but to the man who has his life ahead of him the "blind man" aspect of the child's game is a tragedy when applied in reality.

To the blind man the world can be bleak, colorless and terrifying with a lifetime of fumbling in darkness that will never end.

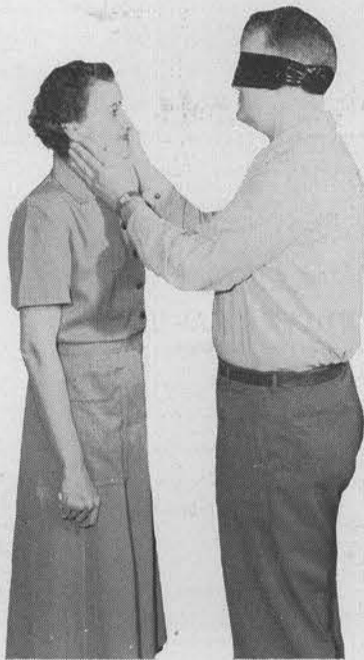
The pictures on this page give a hint of what happens when the theory of the game is applied to every day living. The series depicted here is common to the blind man.

The BULLETIN'S "blind man" is Frank Anderson, a layout operator in 2123-2 who wears safety glasses as protection against possible eye injury.

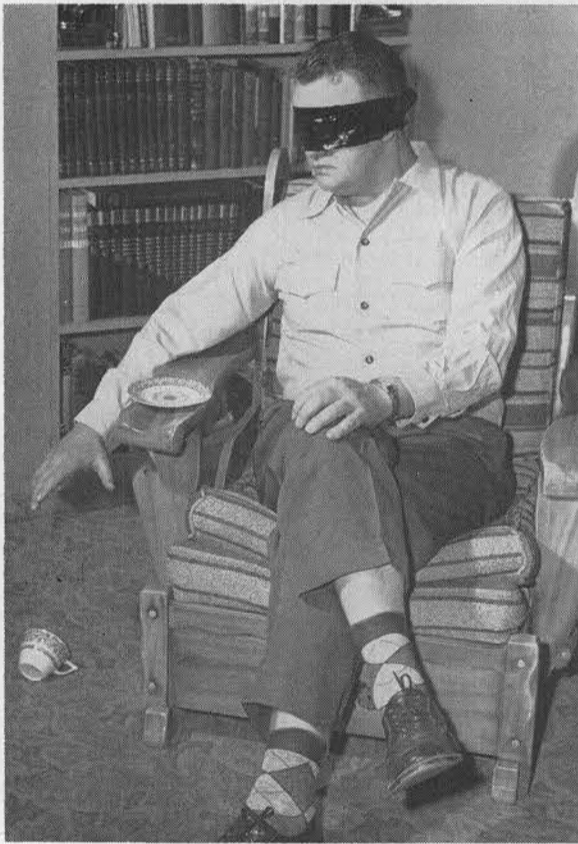
In order to demonstrate some of the hardships encountered in this world of perpetual darkness, strange sounds and vast perplexities, Frank consented to wear a blindfold and attempt to depict the life of a sightless man. In studying these pictures you can see some of the sadness which comes into a man's life when he loses his eyesight. And you also see some of the sacrifices caused by his blindness.



News is better when you can read it yourself.



Soon it is difficult to remember how your loved ones look.



That evening cup of coffee spills easily.



Shaving with a straightedge is no good.



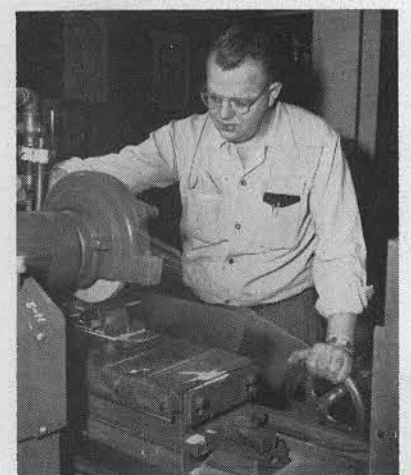
No more laughs with the kids over TV.



There are no movies for a man with no eyes.



Long evenings with nothing to do.



When Frank's at work you'll find him wearing safety glasses. "There's too much at stake to take a chance" is his philosophy.

Safety glasses can be a man's best friend. When you need them they'll do the job.

—But only if you wear them—

