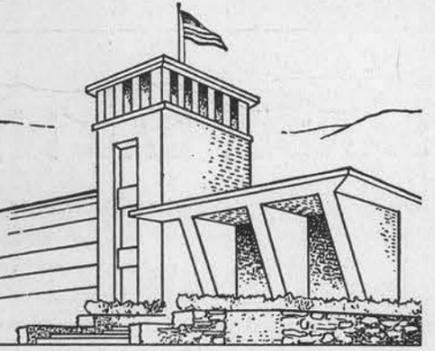


SANDIA LAB NEWS

published every other friday for the employees of sandia corporation, contractor to the atomic energy commission



Vol. 7, No. 24

ALBUQUERQUE, NEW MEXICO

DECEMBER 2, 1955

W. A. MacNair Named Bell Labs Vice President

Walter A. MacNair, Vice President in charge of Research at Sandia Corporation since May, 1952, will return to the Bell Telephone Laboratories as Vice President Dec. 1.

Dr. MacNair will be in charge of Switching and Transmission Development, succeeding Gordon N. Thayer, who was recently named



Walter A. MacNair
—Bell Labs Vice President—

Chief Engineer of the American Telephone and Telegraph Company.

Associated with the Bell Telephone Laboratories since 1929, Dr. MacNair specialized in various fields of physical research, particularly those involving problems in acoustics, switching and military equipment.

He was named Director of Military Systems Engineering for the Bell Telephone Laboratories in January, 1951, and Director of Research for Sandia in February, 1952.

At Sandia his responsibilities included field testing, quality assurance, apparatus engineering and a variety of research activities.

Since 1941 Dr. MacNair has devoted much of his time and effort to various military and civilian government agencies, and has contributed to the study of fire control problems and guided missiles. For his contributions in World War II he was awarded the Presidential Certificate of Merit.

He received a Bachelor of Science degree from Colgate University in 1920, and a Ph.D. from Johns Hopkins University in 1925. Dr. MacNair is a member of the American Physical Society, the Acoustical Society, American Franklin Institute and the American Association for the Advancement of Science as well as Phi Beta Kappa and Sigma Xi.

No announcement has been made concerning his successor at Sandia.

Transformer Expert Speaks to Members Of AIEE Dec. 15

Gordon W. Clothier, of the Allis Chalmers Company, will speak before a meeting of the Northern New Mexico section of the American Institute of Electrical Engineers Dec. 15. He is manager of the Allis Chalmers transformer section.

The meeting will be at 7:30 p.m. in the University of New Mexico Electrical Engineering Building.

Mr. Clothier will speak on "600-KV Transformer Design and Testing." He is an electrical engineering graduate of University of Washington and is widely known in the transformer field.

J. R. Townsend to Speak Before ASME At UNM Dec. 21

"Engineering and National Planning" will be John R. Townsend's topic at a meeting of the Albuquerque section of the American Society for Mechanical Engineers. Mr. Townsend is Director of Materials and Standards Engineering for the Sandia Corporation.

The meeting will be Dec. 21, at 7:30 p. m., in Room 101, Mitchell Hall, on the University of New Mexico campus.

Refreshments will be served after the meeting.

IRE Meeting Dec. 14

Col. Leo V. Skinner will address a meeting of the IRE professional group on circuit theory Dec. 14, at 8 p. m. Col. Skinner's topic will be "Review of the Use of the Auto-Collation Function." The meeting will be in Room 218, Mitchell Hall at the University.

Series of Technical Seminars Being Presented By Research Organization

A continuing program of intra-organization education is being conducted within the Research Organization, 5100, according to Mike Norris, Division A, 5121, supervisor. Purpose of the seminars is to provide personnel with a thorough grounding in the fields of numerical analysis, and measure theory.

Seminar on measure theory and integration meets each Thursday afternoon at 1:30 p. m., in Room 248 in Building 802. Participating are David C. Kleinecke, Howard Wicke, Jack Hale, Woodrow Bledsoe, R. Elliott Chamberlin, Joe Hankins, Joseph Weihe and Mike Norris.

Numerical analysis seminar, which has been meeting since Aug. 1, is familiarizing Sandians with numerical methods. The group usually meets Thursday afternoons, varying the meeting time with workload. Participants include Dale Young, Dorothy Monk, R. Elliott Chamberlin, Jack Hale and others.

A lecture series, conducted as an adjunct to the seminars, terminated this week after a number of talks by

To Seek Employees' Help In Securing More Scientists

Sandia Corporation employees are being called upon to help the Employment and Personnel Department locate engineers, physicists, mathematicians, technicians and draftsmen for possible employment here.

Known as an employee referral program, a plan is being set up which will give every Sandia employee an opportunity to recommend a friend, relative or acquaintance whom he considers to be qualified for employment here in research and development work.

Needed by the Corporation are well qualified aeronautical, electrical and mechanical engineers. Also required are additional physicists and mathematicians with Ph.D. degrees, and technicians qualified to be research and development assistants and draftsmen.

Each employee of the Corporation

will receive a letter explaining the program. A return card will be included for use in submitting names. If the person suggested appears to be qualified to fill a vacancy here he will be contacted by the Employment and Personnel Department.

Employees submitting names will be informed of what action is being taken. Final action on a referral will also be reported to the employee proposing the name.

The employee referral program has been used before at Sandia and as the work here continues at a high pace the need for people with technical and scientific skills also continues.

Further information on the program may be secured from George Stricker, 3151-2, ext. 26265, who is handling the project.

Every Employee A Recruiter in Personnel Drive

Sandia Corporation's employee referral program has a story of success behind it. Sandia employees have helped find scientific and technical personnel for the Laboratory before and they will have the opportunity to do so again. Only this time it will be easier.

The plan to find more qualified scientific and technical personnel is based on the belief that all employees are good personnel recruiting agents for their company.

"There are scores of examples of successful referrals," William G. Funk, Employment and Personnel department manager reports. "Many of them have come in without a formal program for referrals. We feel that if we make a concerted effort our results will be even better."

Members of the personnel organization point to many examples in which engineers and scientists have proposed friends as possible candidates for employment at Sandia Corporation. An exchange of letters verified the interest and as soon as employment procedures and clearance were completed the friend joined the staff.

"There even was an example," Bill Funk recalls, "where all the preliminary queries were made by short wave radio. Both men were amateur radio operators."

There have been examples of engineers recruiting brothers, cousins, college classmates, former working companions, and business associates.

Speaking to all Sandia Corporation employees, Bill Funk says, "If you have any friends, relatives or acquaintances who have the qualifications for technical or professional work at Sandia please report them to the Employment and Personnel Department."

Greatly needed are aeronautical, electrical and mechanical engineers. Also needed are physicists and mathematicians with Ph.D. degrees, and technicians qualified to be research and development assistants and draftsmen.

A. Y. Pope to Help Write Portion of Aerodynamics Book

Alan Y. Pope, supervisor of the Experimental Aerodynamics Division, 5142, has been invited to write a portion of a handbook on supersonic aerodynamics. The book will be published by the Applied Physics Laboratory of Johns Hopkins University. Dr. Pope's section of the publication will be on "Wind Tunnel Design."



Alan Y. Pope

Dr. Pope came to Sandia Corporation in 1951 from Georgia Institute of Technology where he had been professor of aerodynamics for 10 years. Previously he worked for the Martin Aircraft Corp. He has also served as a member of the National Advisory Committee for Aeronautics. He is the author of a textbook on aerodynamics.

Council Directors Have Meeting Dec. 5

The monthly meeting of the Board of Directors of the New Mexico Council of Technical and Scientific Societies will be Dec. 5 at 7:30 p. m., according to Nick Sannella, 5424, president. The meeting will be in the Warehouse Conference Room on the University of New Mexico campus.

A discussion of the "Civilization Through Tools" exhibit to be in January will be main business of the meeting.



Tom Harrison — Ray Harrison

REFERRALS WORK — Tom Harrison, mechanical engineer in Manufacturing Relations Engineering, 2551, some time back suggested to professional employment recruiters the name of a civil engineer in Pampa, Tex. Today the civil engineer, Ray Harrison, Tom's brother, is employed in the Architectural and Structural Design Division of the Plant Engineer-



Eugene Frye — Dave Tarbox

ing Department. David S. Tarbox, manager of Receiving and Reclamation Department, 2350, recommended an engineer in a plastics manufacturing company in Ohio as a Sandia employee—and did a selling job to the engineer. His referral—Eugene Frye—is now a process engineer for Sandia Corporation and is assigned to the Material Laboratory Division, 1621.

SANDIA LAB NEWS

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Telephones: Sandia Base Extension 25253 or 26135



Industry's Greatest Shortage - Scientists

The search for more scientific personnel isn't being undertaken by Sandia Corporation alone. The National Science Foundation reports that it is a knotty problem for most of America's industries — especially those in research and development work.

The Foundation made a study of 200 employers of research engineers and scientists. Here's what they found:

1. Half the firms stated that the expansion of their research and development programs is being hindered by their inability to find people with the kind and quality of training needed.
2. One-sixth of the companies report moderate shortages in their general engineering and scientific research staffs.
3. One-third are facing acute shortages of major proportions. Significantly, this group included all or most of the aircraft, electrical equipment, petroleum, paper, food and primary metal companies included in the survey.

Some 14,600 aeronautical, electrical, engineering physics and mechanical engineers will graduate in June. An impressive number, but not nearly enough for the nation's needs.

Just how many jobs there are for these students is not known. But the better students will probably have their choice of a dozen or so jobs.

The picture becomes truly grim when the reports come in from the Iron Curtain countries telling of their strides forward in scientific education. A totalitarian state orders young people with scientific aptitudes into the fields of science. As a result the Iron Curtain countries are turning out thousands more engineers a year than we are.

In a democracy no one is told to study in any one field. Young people enter careers of their own choice.

The challenge has been made and victory will come to the nation which wins the cold war of the classroom.

Son In Fatal Accident

Frederick E. Hanks, son of Aubrey E. Hanks, 2417, was a member of the crew of an Air Force plane which crashed on the slopes of Mount Charleston in Nevada last week. All fourteen passengers and crew members were killed in the accident.

Test Base Reported

The Bendix News, employee publication of the Kansas City Division of Bendix Aviation Corporation edited by Robert H. Maas, recently carried a full page article with pictures telling of Salton Sea Test Base in California which is operated by Sandia Corporation.

2500 Basketball Team

Harold Cushman, 2552, has been named manager of organization 2500's basketball team. He asks 2500 personnel interested in playing Class A or B basketball to contact him at ext. 20247.

Front Row Seat

Jim Hook, 2520, was in a Phoenix motel on vacation and took only slight interest when the motel operator told him FBI agents were in the vicinity. Next morning he read in the paper that two men charged with robbing the Sandia Base bank were arrested two doors away.

Win Stamp Awards

Three top awards went to Franklin Barnett, 1723, at the New Mexico Philatelic Association's convention and exhibition in El Paso, Tex., Nov. 25-27. Frank received the "Best in Show," "Best Postal History," and "Best U. S. Exhibit," with his stamp exhibit of Philadelphia "R" Markings. Another winner was C. E. Foster, 2532, who took "Best Foreign Exhibit."

Scouter Honored

High level recognition for six years' activity in the Boy Scout movement has come to Wilfred M. "Bud" Bacchus, 5413. He has been cited with the Silver Beaver Award by the Kit Carson Council of New Mexico. Bud has acted as cubmaster and scoutmaster in Albuquerque for several years. He has studied three years in various phases of Scouting and has earned the Wood Badge for top service to Scouting.



New Homes Purchased

Several employees of 2530 and 2550 have purchased new homes recently: H. A. Becker, 2533-1, had a housewarming Nov. 20 at 2704 Utah NE; Martha Baldwin, 2533-2, and her husband Art have moved into a residence at 1404 Pitt St., Princess Jeanne Park; James Griscom has become owner of a Snow home.

Fellowship Group

Some 30 Sandia employees are members of a Christian Fellowship Group which meets each weekday during the noon hour in the Protestant Chapel Annex, Building 205. Monday, 12:15-12:45, a religious film is shown. Bible study session is conducted Wednesday, 12:20-12:45, by Sandia Base chaplains, Alister Sinclair and Hugh T. Walker. Featured speakers from all Protestant denominations address the group Tuesday, Thursday, Friday, 12:20-12:45. All interested persons are invited to attend and may contact Group president Jim Henderson, 2531, ext. 33162, for further details.

The Lads Are Champs

New Southwestern champions in barber shop singing are the Lads of Enchantment composed of Dan Aycock, 2224, lead; Carl Wright, Albuquerque architect, baritone; Gil Wallace, 2553, bass; and Don Pitts, 2552, tenor. The quartet competed against entries from Oklahoma, Texas, New Mexico and Louisiana at a recent song fest in El Paso, Tex. The contest was sponsored by the Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc. The "Lads" will compete in an international contest to be held next June.

Doodlers Do

Tom Muzzey, 3124-1, recently found the accompanying doodle on the floor of the Training Building after a recorded lecture which was



cut short by time limitations. Doodles are frequently most expressive and artistic. Have you found any which have either or both these qualities? Let the Sandia Lab News know.

Volleyball Hero

Jack Smith, 2545-3, was the star player when the Matador volleyball team of the Sandia employees league won the championship last week. The game against the Boneheads was the toughest of the season and Jack made most of the winning plays. After the Matadors won, it was discovered that a pre-game tumble had injured Jack more than he thought — he played with a badly sprained ankle and a broken wrist.

See Notre Dame-USC Play

Juliette Duran, 1925 (1622), and her parents, Mr. and Mrs. Pete Duran, motored to Los Angeles to attend the Notre Dame-University of Southern California game Nov. 26. They were joined by Pete, Jr., who is stationed with the Marine Corps at Camp Pendleton.

2450—Hunters Haven

The state average was reported as being one successful hunter in seven. Men of the Plant Security Department did that good, or better. Successful in their shots were: Vern Morrison (and son), Eden Raney, Roy Brett, Charley Allen, Lawrence Dennison, Charles Farmer, Jim Farmer, Benny Valencia, Rex Hollon (and son), Carl King, Darrell Bridge (and wife), Sam Baca, Bob Crompton, Gene Redick, Hugo Flores, Jim Loffing, Hugh Kimbrough, Don Finney and John Wahlenmier.



HENRY CARREJO, 2231 — Jewett Gap

Sandianotes



THREE-WEEK-OLD Karen Kay, is flanked by brother Eddy on the left and sister Kathryn. They are children of C. E. Katzenberger, 1924.

Hunter Rescue Squad

Hank Tendall, 1215, was one of five mountain climbers who found an Albuquerque architect, Jason Moore, and his nine-year-old son, Jon, after the two became separated from their companions in a storm while hunting in the Sandia Mountains Nov. 15. The rescue party set out from Sandia Crest about midnight and trailed tracks left in the snow by the Moores. The pair was located about 4 a. m., Nov. 16, in a canyon between Placitas and Sandia Crest Road.

Short Long Distance

Amateur radio operator Joe DeBaca, AEC, shot his deer near Corona, N. Mex., and wanted to notify his friends at Sandia of the kill. Joe, W5RLT, tuned up his transmitter on 10 meters to hear a woman in Rochester, N. Y., talking to Keith Nelson, 1342, W5GWJ, and Joe Knight, AEC, W5PDY. He didn't hear the voices of Keith or Joe, so he asked the operator in Rochester to relay the message on to Albuquerque that he got his deer and would be back to work Tuesday.

Glenn Roughed It

Glenn V. Shaffer, 2333, spent an enjoyable week-end when the deer season opened "roughing it" in a house trailer in the Manzanos. He bagged his deer near the top of the mountain and reported the only trouble he had was getting it the four miles back to camp.

Two Successful Hunters

During opening weekend of hunting season, Lamar McKay and Frank Adams, both of 4152, killed nice bucks. Adams' buck weighed in at 225 while McKay's was 130. John Hess, 4133, a non-hunter also went on the three-day trip in the Jemez Mountains.

Gets His Deer—Again

Joe F. Montoya, 2417, took his sons, Bobbie and Joe, hunting in the high Jemez country in a foot of snow, and showed the boys how to bring home the venison. Joe shot a 250-pound 12-point buck, later spent eight hours dragging it out with teams of horses. Joe has gone hunting every year since he can remember, has never failed to bring home his meat. This year, however, he shot the largest animal he can recall.

Nimrod Report

Nimrods from 2300 who have been comparing vital statistics of their field-dressed deer are: 2351-2 — Bill Alvarez, buck, 180 pounds; Richard Sanchez, buck, 180; Laddie Sladek, doe, 160; Moses Loretto, buck, 150; Rafael Pena, doe, 140; Joe Billings, buck, 150; 2352-1 — Orlando Sanchez, buck, 192; Kandy Mieras, buck, 222; Norman Smith, buck, 210.



JAMES F. McGRIFF, 5611-1 — Magdalena area



LA VERNE HARTZELL, 4131 — SE of Corona, N. Mex.—Second deer shot by her husband, Harry, who took picture.



A. J. PETERSON, 5213—Caracas Mesa



W. G. MABERY, 2414 — Jemez country



COLLECTS ANTIQUES—Bess Streater is a student of early Americana, and tells how to find pleasure in her hobby.

Bess Streater Finds It's Fun to Be An Antiquary — And You Will Think So Too

Bess Streater, one of Sandia's authorities on antique collecting, has a word of advice for the antique buyer—don't wait too long to equip your home with this type of furnishings. They are getting more costly every month.

It was about three years ago that Bess, who is secretary to Kimball Prince, Sandia Corporation's General Attorney, began buying early American objects. This came about when a latent love for old furnishings was renewed during a New England visit.

She decided to buy at least one collector's item in each state through which she traveled. She even went on to Canada where she found some hammered brass of English origin.

Now her unique adobe home in the community of Corrales, north of Albuquerque, is full of early Americana. And like many antique collectors she is happy to sell from her collection with an eye to improve and enlarge her home full of treasures.

A student of antiques, Bess has a shelf of reference books on the hobby. She has come to the conclusion that there are only so many antiques in the country and as the supply available for sale decreases, the cost of the much desired items increases.

Bess was asked: What is an antique? Where do you find them? Are they all expensive? How can you be sure they are truly old?

She has the answers and like all good collectors is anxious to help others who enjoy the same hobby.

"Generally," she says, "to be antique an item must be 100 years old." However, she points out that collectors do not limit themselves to

the century items. "There are many treasures which are younger than that." Barns and attics are rapidly becoming bare of antiques. Now most of them are in the hands of dealers or collectors.

Not all antiques are expensive either, she maintains. With a modest expenditure many treasured items may be purchased.

As for being sure an antique really is old, Bess advises finding an honest dealer—and most of them are honest. Other ways, she relates, are to look for markings indicating the period of manufacture, check if the legs are worn, if unfinished portions of the item are darkened with age.

"When you get to be an expert," and she says there are thousands of housewives who are, "you can tell if a chair is circa 1800 by the way the legs are turned as well as other indications."

Bess adds that there is no limit to the study and knowledge of antiques. Something new can be learned every day. "I have a lot to learn," she says, "which makes the hobby more exciting."

If you want to buy some antiques, she advises, shop around, find a dealer you trust, and then take the plunge into a wonderful hobby.

Like any true antiquary she is happy to show you such things as a grandfather's clock (1850), a schoolmaster's desk (1800), a corner cupboard (1800), a dry sink (1850), or a pine water bench (1800).

And, again like a true antiquary, Bess will help you become one of the ever-growing family of antique collectors.

D. B. Owen Presents Mathematics Paper In New York City

Donald B. Owen, 5124, will present a paper before a meeting of the Institute of Mathematical Statistics in New York City, Dec. 27 to 30.

Dr. Owen's paper presents a table of a two-dimensional distribution



Donald B. Owen

—speaks to mathematicians—

function, which may be used to obtain bivariate normal probabilities. He will present his paper in person at the Institute.

Dr. Owen is a graduate of the University of Washington, and obtained a Ph.D. degree in 1951 in mathematical statistics.

Christmas Seal Sales Get Help From Sandians

Several Sandia Corporation employees are helping conduct the Bernalillo County sale of Christmas seals for the Tuberculosis Association.

Glenn A. Fowler, 5400, is co-chairman for the county seal sale and a member of the Association's Board of Directors. The other chairman is Thomas Corr, of the Southern Union Gas Company.

Robert E. Hepplewhite, 5232, is director of publicity for the seal sale this year.

Thomas E. Zudick, 1913, and James W. Galbreath, 3122, have assisted in publicity. Tom has been working with the radio and TV stations and motion picture theatres. Jim has helped with publicity in the publications on Sandia Base and Kirtland AFB.

William T. Moffatt, 5240, has been in charge of the distribution of Christmas seals on Albuquerque's military bases.

Among others volunteering their help were: Ann Barrett, Clara Taylor, Fran Tennessen, Claudette Schonberg, Gerry Hickey, Estelle Richardson.

Elizabeth Martin, Val Hruska, Kay Flood, Shirley Hicks, E. L. Johnson, Peggy Messier, Chris Meilner, O. L. Howard, Thomas Hoban, Tom H. Takahashi, J. H. Scott, Bernadine Cervantes, Barbara Hammond, Lois Law.

Also assisting were the following wives of Sandia Corporation employees: Mrs. Max Weber, Mrs. E. L. Johnson and Mrs. Glenn Fowler.

WALTER HALL to manager of the Mechanical Department, 2150.

Previously, for 21 months, Walter was supervisor of Receiving Inspection Division, 2541. He joined the Laboratory in August, 1948, as a tool maker in the fabrication shops; later moved to fabrication inspection.

Earlier employment included one and one-half years with the New Mexico School of Mines, where he was engaged in research and development work. He served two years as supervisor of the machine shop at Los Alamos, with the University of California, after several years in the tool making department of Chrysler Corp., Detroit.

Walt lived for many years in Saskatchewan, Canada, where he received his schooling. He is presently a member of the American Society of Tool Engineers.

WILLIAM L. MARTIN to supervisor of Salary Administration Division, 2613, Wage and Salary Administration Department.

Before this promotion he was supervisor of section 2613-1. A Sandian since June, 1951, he came here from the University of California, Los Angeles, where he taught production management while working toward his master's degree in that field. He earned his bachelor's degree in business management from Marshall College, Huntington, W. Va.

As an aerial navigator aboard B-17 bombers in World War II, Bill saw duty in Europe and Africa. Prior to military service, he studied at Virginia Polytechnic Institute.

TRUMAN L. DANIEL to supervisor of Wage Administration Division, 2611, Wage and Salary Administration Department.

Since coming to Sandia Corporation in April, 1951, he has been employed in various positions in this department. At the time of his promotion he was supervisor of Job Evaluation Section, 2611-1.

A graduate of the University of Texas, Truman holds B. A. and M. A. degrees in business administration. He was elected to Beta Gamma Sigma, business honorary, and Sigma Iota Epsilon, honorary and professional management fraternity.

He taught business correspondence at the University of Texas one year. Previously, he worked for Kansas City Southern Railroad in its personnel department, and Container Corp., Fort Worth, Tex., as a sales service representative.

Truman served in the U. S. Infantry in Italy and in the Pacific Theater during World War II.

JAMES A. KENAGY to supervisor of Job Evaluation Section, 2611-1, Wage and Salary Administration Department.

Jim began employment with Sandia Corporation Oct. 3, 1952, in this department, where he remained until his transfer to Manufacturing Relations Engineering in June, 1954. The following year, he worked closely with Purchasing, assisting in setting up a supplier relations program. Last July, he returned to Job Evaluation.

A graduate of the University of Wyoming, Jim holds B. S. and M. A. degrees in education. While attending the university, he worked as general building contractor in Laramie. He was a member of the student

Promotions

chapter of Chi Gamma Iota, veterans' honorary.

During seven years with the U. S. Navy, from 1939 until 1946, he spent five years outside the continental limits, serving in both Atlantic and Pacific fleet operations.

MELVIN A. McCUTCHAN to supervisor of Salary Administration Section, 2613-1, Wage and Salary Administration Department.

Mel's Sandia employment dates back to February, 1951, when he was hired as an electronic technician in the Electronics and Specialties Department. Later he became research and development technician in 5330 and held this position until transferring to Wage and Salary Administration in November, 1953.

From 1947 until 1950, he operated his own electronic repair business in Puyallup, Wash., and for three years, was electronics instructor at Clover Park and Tacoma Vocational Schools in Tacoma, Wash.

He also taught electronics while serving with the U. S. Air Force from 1942 to 1946. Before the war, he was principal of Firgrove Elementary School in Puyallup. Mel received a B. S. degree in industrial arts from Tacoma's Pacific Lutheran College.

MILTON O. JONES to supervisor of Areas 2 and 3 Activities Section, 1613-3, Test Laboratory Department.

For the past 19 months, Milt has been project engineer in Test Facilities Section, 1613-1. He was first employed by Sandia Corporation in April, 1951, in the capacity of test engineer in environmental testing.

In March of that year he was graduated from the University of Wyoming with a B. S. degree in mechanical engineering. As an undergraduate, he joined the American Society of Mechanical Engineers, of which he is still a member.

A veteran of three years with the U. S. Marine Corps, he served in the South Pacific and in China.

JAY TODD to supervisor of the newly-created Microscale Blast Studies section, 5112-3, Weapons Effects Department.

A Sandia employee since May, 1951, he formerly was on the staff of the Applied Physics Laboratory, University of Washington, where he conducted experimental studies on torpedo exploders for eight months. For six years, he was a laboratory assistant at the university, engaged in research on cosmic rays.

His doctorate in physics was conferred by the University of Washington June, 1952. He also holds bachelor's and master's degree in forestry from there.

Previous employment includes five years' instrument work in the flight test department of Boeing Aircraft, Seattle, Wash., and one and one-half years as laboratory technician with Douglas Fir Plywood Assoc., Tacoma, Wash.

Author of many published articles on cosmic rays, he is co-author of two papers on shock waves presented at meetings of the American Physical Society, of which he is a member. He is also a member of Sigma Xi, physics research society, Phi Sigma, biological honorary, and Xi Sigma Pi, forestry honorary.

HAROLD G. JEBLICK to supervisor of Field Inspection Division, 2545, Inspection Department.

Harold has been supervisor of section 2545-1 in the New York area since transferring to Sandia Corporation in February, 1954, from Western Electric headquarters in New York. He joined the Kearny, N. J., works of Western Electric in March, 1943, and worked there in the Inspection Department until 1947 when he moved to New York.

From 1942 to 1943, Harold was assigned to wire communications with the U. S. Army. Earlier, he was employed as draftsman with Ideal Roller Mfg. Co., Long Island, N. Y.

JACK F. HAMMERSTRAN to supervisor of Field Representative Section I, 2571-2, Beverly Hills, Calif., in the newly-created Engineering Field Service Department.

Since joining the Laboratory four years, nine months ago, he has held positions as tool and jig designer and tool design engineer.

For three and one-half years before this, he was part owner and president of Majestic Tool and Engineering Co., Rockford, Ill. Earlier, he was employed by two other Rockford firms, Rockford Die and Tool Works, as Superintendent and Chief Engineer, and Twin Disc Clutch Co., as Assistant Superintendent.

THOMAS B. COOK to supervisor of the newly-created Vulnerability Studies Section, 5111-2, Weapons Effects Department.

Tom has been assigned to this department since his initial employment date with Sandia Corporation, Aug. 29, 1951. He came here shortly after receiving his doctorate in physics from Vanderbilt University, where two years earlier he received his master's degree in physics. B. S. degree in physics and mathematics was awarded at Western Kentucky State College in 1947. At Vanderbilt he was elected to Sigma Xi, physics research society.

Spending 1945 and 1946 with the U. S. Navy, Tom was an electronics instructor at Naval Air Technical Training Center, Corpus Christi, Tex.

He holds membership in American Physical Society, American Institute of Physics, American Association of Physics Teachers and American Federation of Scientists. He is author of an article published in *Physical Revue* dealing with use of scintillation spectrometer to determine internal conversion coefficients of isomeric transitions.

Sandia Woman's Club Holiday Brunch Set For Sunday, Dec. 18

A holiday tradition of the Sandia Base Woman's Club is being continued this year with the presentation of the third successive Holiday Mexican Brunch. This year's Brunch is Sunday, Dec. 18.

As in the past, Mrs. Robert E. Poole is general chairman. Assisting her are Mrs. Bert E. Spivy, Jr., vice-chairman; Mrs. G. B. Daughton, invitation chairman; Mrs. Ralph I. Williams, table decorations chairman; Mrs. H. Wilson Maglidd, ticket chairman; Mrs. P. D. Wesson, posters; Mrs. C. W. Dickinson, Jr., chairman of hostesses; and Mrs. E. K. Solenberger, publicity.

Club members, their husbands and guests will gather from 11:30 a.m. to 2:30 p.m. The menu will feature dishes typical of a fiesta.

No job is so important and no service is so urgent that we cannot take time to perform our work safely.

14 Organizations In 100% Group Of Chest Drive

Tom Hanna, coordinator of the 1955 Community Chest-Red Cross United Fund Drive for Sandia Corporation, has made a final report on organizations participating 100 per cent in the drive.

Following are the departments in which pledges and donations were received from every employee:

Auxiliaries Engineering 1280, Test Laboratory 1610, Weaponry Training 1710, Field Force 1730, Test Assembly 2210, Production Control 2220.

Plant Security 2450, Programming 2520, Manufacturing Relations Engineering 2530, Wage and Salary Administration 2610, Labor Relations 2620.

Employee Services, Training and Public Relations 3120, Safety Assurance 3170, Auditing 4120, Project II 5260, Component Development I 5320.

Component Development II 5350, QA Operations 5530, Operations A 5610, Patent Department 6010.

Radio Club Surplus Sale This Evening

A discussion of Christmas party plans will feature the meeting of the Sandia Base Radio Club Dec. 12 at 8 p. m., Lloyd Melick, president, has announced.

An auction of surplus radio components will be tonight at the Club building, corner of Texas and H Streets on the Base. Art Perry, 2462, will act as auctioneer.

Congratulations

BORN TO:

Mr. and Mrs. David Essad, 1215, a son, James Michael, Nov. 11.

Mr. and Mrs. Donald B. Owen, 5124, a son, David, Nov. 16.

Mr. and Mrs. Bob Sylvester, 2532-1, a son, Barry Lee, Nov. 11.

Mr. and Mrs. Dick Teisher, 2552-2, a son, John, Oct. 26.

Mr. and Mrs. A. L. Metzgar, 2414, a son, Alan James, Nov. 3.

Mr. and Mrs. R. S. Hooper, 1611-4, a daughter, Mary Elizabeth, Nov. 19.

Mr. and Mrs. C. L. Guynes, 1913, a daughter, Patsy, Sheila Darlyne, Nov. 16.

Mr. and Mrs. Eugene C. Cnare, 5133, a daughter, Lauri Gene, Nov. 21.

Caravan Club to Hunt for Hidden Transmitter Dec. 7

Members of the Amateur Radio Caravan Club of New Mexico will stage a Hidden Transmitter hunt Dec. 7, at 7:30 p. m. according to Jim Stueber, 5523. The group will assemble on the air at 7:30 p. m. on the 29.6 mcgs. band. Jim Joska, W1WAL, of Kirtland Air Force Base, will hide the transmitter.

On Dec. 14, Caravan Club members will tour the main office exchange of the Mountain States Telephone and Telegraph Company, where they will inspect switching installations, and carrier and microwave equipment. Assembly of the group takes place on the air at 7:30 p. m.

Ohio State Alumni Meet Here Dec. 6

Sandia members of the Ohio State Alumni Association are urged to attend the group's most important meeting of the year on Ohio State Day, Tuesday, Dec. 6.

The meeting will be at 6:30 p. m. in the Greer Room, Hilton Hotel. Ted Smart, 5332, and Lou Stewart, 5523, serving on the entertainment committee, suggest members come dressed as their secret desire. For reservations, call Mrs. Margarite Bower, Alb. 2-1057.

Texas Alumni Meet

An informal pot-luck supper will be given by Texas University Ex's Sunday, Dec. 11, 5 p. m., at the home of club president J. C. Randolph, 3120 Palomas Dr. NE. Ken Sutton, 3152, is vice-president.

Members should bring a dish and invite new Texas Ex's to attend.

Sympathy

To H. P. Baecker, 2531-4, for the death of his father in Chicago, Ill., Nov. 21.

To Aubrey E. Hanks, 2417, for the death of his son in an airplane crash in Nevada Nov. 20.

To Nolan A. Bourgeois, Jr., 5413, for the death of his wife, Lillian, in Albuquerque Nov. 12.

To Harold V. Catt, 1917, for the death of his father in Jerseyville, Ill., Nov. 11.

To Marian Q. Fortenbury, 2333-3, whose father disappeared during the recent floods in Mexico.

To Helen Kluver, 2461-2, for the death of her mother in Minnesota Nov. 15.

SNT Members Have Dinner Meeting on "The Hill" Dec. 15

A dinner meeting of the Los Alamos-Albuquerque chapter of the Society for Nondestructive Testing will take place at the Los Alamos Golf Club at 6:30 p. m., Dec. 15, James C. O'Neal, 5511, publicity chairman, has announced.

Following the dinner, Carl Betz, Vice-President of the Magnaflex Corporation, Chicago, Ill., will speak on the "Metallurgical Aspects of Magnetic Particle Inspection." The talk will be at The Little Theater of the Los Alamos High School at 8:30 p. m.

Reservations for the dinner may be obtained from Don Grimm, Los Alamos ext. 71, or from James O'Neal, ext. 48157.

AOA Meets Dec. 8

Members of the Albuquerque post of the American Ordnance Association meet Dec. 8 at 7:30 p. m. in Room 101, Mitchell Hall, on the University campus, according to Larry Snodgrass, 1631, secretary-treasurer.

A discussion will be held on the proposed constitution for the new post, and a revision of the by-laws will be made. The nominating committee will report a slate of officers to be voted upon shortly.

A technical movie will be shown.

IRE-AIEE Dec. 7

"Computing at High Speeds" will be Dr. Howard H. Campaigne's topic at a meeting of the University Student branch of the IRE-AIEE, according to Ray Glass, 5222, publicity chairman.

Dr. Campaigne, chief of research and development of the National Security Agency, Washington, D. C., will speak at 7:30 p. m., Dec. 7, in the Electrical Engineering building on the University of New Mexico campus.

All interested Sandia Corporation employees are invited to attend.

Los Alamos Scientist Tells of Hurricanes

Dr. Leon Sherman, staff meteorologist at the Los Alamos Scientific Laboratory, will address the Albuquerque Seminar of the American Meteorological Society Dec. 8 at 7:30 p. m.

The meeting will be in the Administration Building, Room 253, on the University of New Mexico campus, Jack Reed, 5111, publicity chairman, has announced.

Dr. Sherman's topic will be: "Wind-speed Asymmetry of Hurricanes," a research project he completed while assistant professor of meteorology at Florida State University, Tallahassee, Fla.

Sandians Who Serve



COMMUNITY SERVICE is given by Charles E. Spriggs in his work with Civil Defense communications.

This is another in a series of articles telling how Sandia Corporation employees serve their community.

Readying the message centers of the Civil Defense communications system for possible civic emergencies is the job of Charles E. Spriggs, alternate communications officer in Albuquerque and Bernalillo County. In this post he works closely with amateur radio transmitting agencies to set up an integrated program which can function effectively in a local or national crisis.

For two years, Charley has been organizing parts of the communications system and conducting a training program for Civil Defense workers in his group.

The city of Albuquerque, he explains, has been divided into four sectors, each with a communications control point. Within these control points are numerous message centers where messages are received from radio operators. Communications headquarters is at 1120 Stover SW.

"Each message must be processed,"

says Charley. "That is we must have the date, time, place originated and means of transmission. By logging this information, we can locate lost messages and send duplicates if necessary. Most important, we can review our action later and remedy weaknesses in our communications system."

Whenever possible, practice drills in hypothetical emergencies are staged by the 75 registered Civil Defense communications workers. "In a full-scale operation, we would need about 500 people," remarked Spriggs, "so you can see we would welcome additional volunteers."

Charley has participated in all of Albuquerque's Civil Defense tests in recent years and also in the national "Operation Ready."

He has been a technical illustrator in 2463 for five years. He and his wife, Helen, are parents of five, Tara 11, Sean 9, Brian 8, Kevan 7, and Brenna 5. They live at 2529 Madeira Drive NE.

Full Holiday Social Calendar for Sandia Organizations

Social events for the holiday season are keeping Sandia groups busy these days. Following are the parties scheduled for the season.

1900—Fri., Dec. 2

The annual Autumn Pageant of 1900 will be held tonight in the Ballroom. The dance will get under way at 8:30 p. m. with a short skit, "Follies For Fifty-Five," staged at 10. Charley Hines heads the program committee. Music will be by Ray Giles' Orchestra and admission is \$1.50 per person.

2111-2—Fri., Dec. 2

Buffet dinner for 2111-2 Scheduling section will begin at 6 p. m., tonight in La Cana Room. Dancing will follow. Tickets are \$1.75 per person according to Roger Johnson, program chairman.

2200—Sat., Dec. 3

Production Department members will dance to the music of Tom Kelly's Orchestra at their Christmas dance at 9 p. m., Dec. 3, in the Ballroom. Planning the program is Larry Callahan. Tickets are \$1 per person.

1330—Sat., Dec. 3

A cocktail-snack is scheduled for

Engineering Department 1330 Dec. 3. Lyle Guynes, heading the program committee, says the party is to start at 8 p. m. in La Cana Room.

1280—Thur., Dec. 8

The Christmas party of 1280, Auxiliaries Engineering Department, will consist of a buffet at 7 p. m. and a dance at 8:30, Dec. 8, in the Ballroom. Dinner-dance tickets are \$2.50 per person, dance only \$1. Tom Kelly's Orchestra will play. Clarence Sproul, Ray Dove and Dick Sylvester are arranging the program.

2500—Fri., Dec. 9

The annual dinner dance for the Programming and Manufacturing Engineering organization will be in the Ballroom Dec. 9. There will be a short surprise program and door prizes. Ray Giles' Orchestra will play. Jim Hook is general chairman and tickets are \$2.50 per person.

2610—Fri., Dec. 9

Wage and Salary Administration Department will hold its Christmas dinner dance Dec. 9, 6:30 p. m., in La Cana Room. Tickets are \$6 per couple, says Paul Pewe, general chairman.

3100—Sat., Dec. 10

Jack Fullerton's Dixieland Jazz band will entertain at the Personnel organization's dinner dance beginning at 6:30 p. m., Dec. 10 in the Ballroom. A floor show is planned by R. E. Scharpen and his committee. Tickets are \$2.50 per person.

2122-6—Sat., Dec. 10

The Fabrication Section is having a buffet dinner and dance in La Cana Room at 7 p. m., Dec. 10. Dinner is \$3.50 per couple. Helen Agats and Lois Donaghy are members of the planning committee.

1921—Tues., Dec. 13

On Dec. 13 members of Division 1921 will meet in La Cana Room at 7 p. m. for a buffet-dance. Program committee includes Dave Smith, chairman; Paul Cruz, decorations; Haddon Redding, entertainment; and Charlotte Morter, refreshments.

5100—Wed., Dec. 14

The MBC Trio will play for the dinner dance to be given by the Research organization from 6:30-11 p. m., Dec. 14 in the Ballroom. Tickets for dinner and dance are \$2.25 per person; for dance only \$1, according to party chairman Bob Chesnut.

5500—Thur., Dec. 15

5500 Superintendency will hold its Christmas dinner dance Dec. 15 in the Ballroom. Dinner is at 8 p. m. with Lou Pinger's Orchestra playing later for dancing. Mary Pasko, of the program committee, says tickets are \$2.50 per person.

4120—Fri., Dec. 16

Special entertainment will be provided at the dinner dance of the Auditing Department Dec. 16 in La Cana Room. Dinner, beginning at 7 p. m., is \$2.50 per person. Russ Foster is entertainment chairman.

1600—Fri., Dec. 16

Cocktails at 8 p. m. will precede dancing at 1600's Christmas party Dec. 16 in the Ballroom. Tom Kelly's Orchestra will play from 9-12 with an entertainment intermission at 10 featuring a skit and specialties. Breakfast will be served at midnight. Dance chairman is Fred Leckman. Tickets are \$4 per couple.

4100—Sat., Dec. 17

A buffet dinner and dance will be given by the 4100 organization in the Indian Room of the Franciscan Hotel Dec. 17 at 7:30 p. m. Program

planning is by Jack Dempsey. Price is \$2.50 per person.

1240—Sat., Dec. 17

La Cana Room will be the scene of 1240 Engineering Department's dinner dance at 6:30 p. m. Dec. 17. Charles Peterson is in charge and tickets are \$2.50 per person.

AEC-SFOO—Sat., Dec. 17

Approximately 600 persons are expected to attend the AEC-SFOO cocktail party, 4:30 - 6 p. m., Dec. 17 in the Ballroom. Committee chairman Wanda Cotner reports that Tom Kelly's Orchestra will provide music.

1700—Wed., Dec. 21

A floor show under the direction of Justin Heineman will highlight the Christmas dinner dance of Military Liaison Services. The party begins at 7 p. m., Dec. 21 in the Ballroom. Cliff Boxx is general chairman; tickets are \$2.50 per person.

2463—Thur., Dec. 22

The Technical Art division will hold a dance, juke box style, at 8 p. m., Dec. 22 in La Cana Room. A program committee, headed by Ernest Parker, is planning special entertainment.

Man-Made Environment Helps Engineers Test Reliability

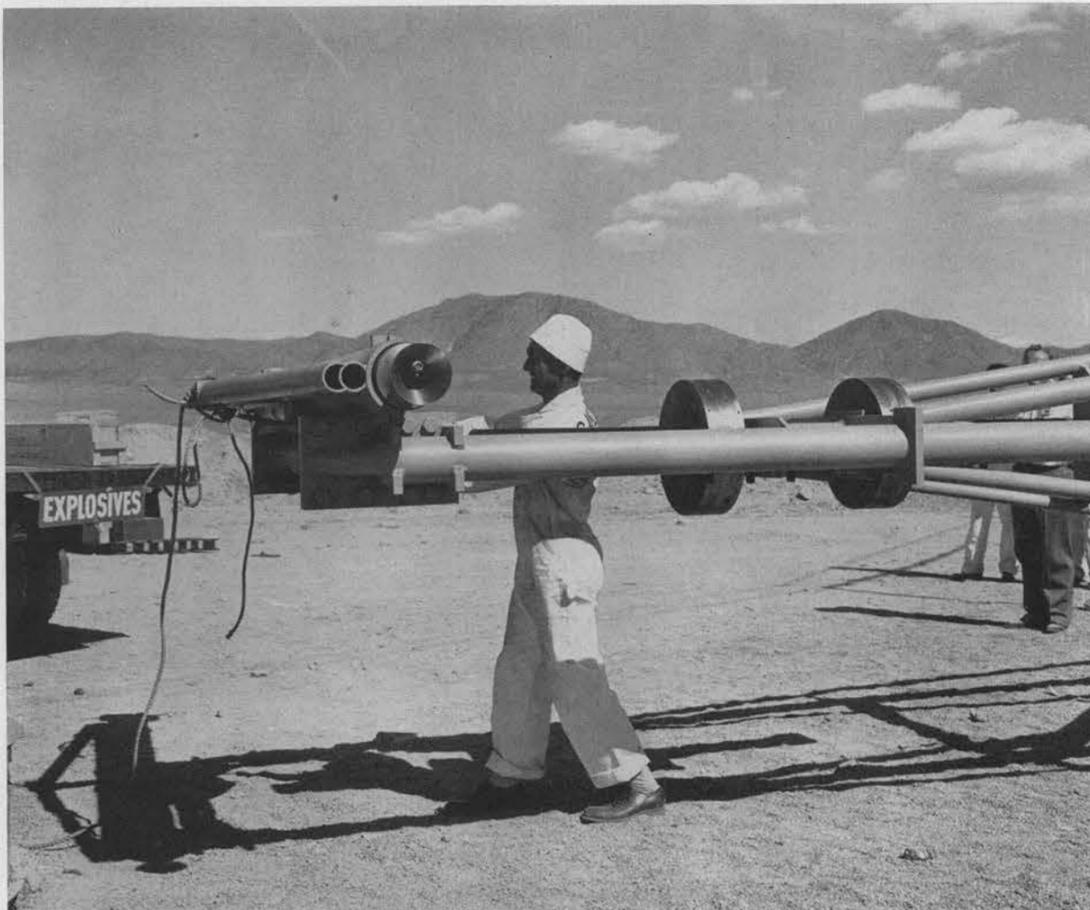
At the push of a button in Test Laboratory, they'll make it rain, or pull in a salt-laden fog from a non-existent sea. They'll test a nuclear weapon component with howling sandstorms, bitter cold, burning heat.

Test Laboratory Department, 1610, housed in Bldg. 860, has a building full of high performance torture machines, each designed to seek out the weak points of a new component or assembly, or to determine project progress. Test specimens are dropped, bounced, shaken to pieces on shuddering tables, whirled through space on the rocket centrifuge. They're X-rayed, fluoroscoped, bombarded with gamma rays from a special industrial radiographic inspection device.

Research technicians can duplicate any set of environmental circumstances which may exist in nature — and a good many more. In one oversized cylindrical vacuum chamber, they can simulate dropping a test unit from 90,000-foot altitude to sea level in a few seconds; or reverse the process and have it fly upward just as fast. They can heat 'em white, cool 'em until the frost forms inches thick.

By a duplication of the different forces: stress and strain, and varying climatic environments, the personnel of 1611, 1612, and 1613, strive for quality and reliability in the design of nuclear weapons and components. Using shock, vibration, acceleration, static, and climatic exposure tests, they can predict in advance the success or failure, the strong and weak points of a weapons design program.

Tests and research conducted within this Organization are paralleled in similar facilities throughout the nation.



EXPLOSIVE CHARGES on the rocket centrifuge are adjusted by Paul Syroid, division supervisor of the Specific Projects Division, 1613, in preparation for acceleration test. Rocket centrifuge is acceleration test

machine for components and systems, whirls them about to test their performance during increasing acceleration forces. Sandia scientists attain accelerations on this machine numbered in thousands of G's.



INDUSTRIAL X-RAY INSPECTION is made of electronic unit by Osborne Milton, 1612, in a search for hidden flaws. X-Ray can be used to detect cracks and distortions unseen by naked eye, is also employed in analyzing crystalline materials. In the Test Laboratory Department, X-Ray Inspection equipment includes Diffraction X-Rays, 250 KV X-Ray machines, and an AEC Gamma Ray source with great penetrating ability.



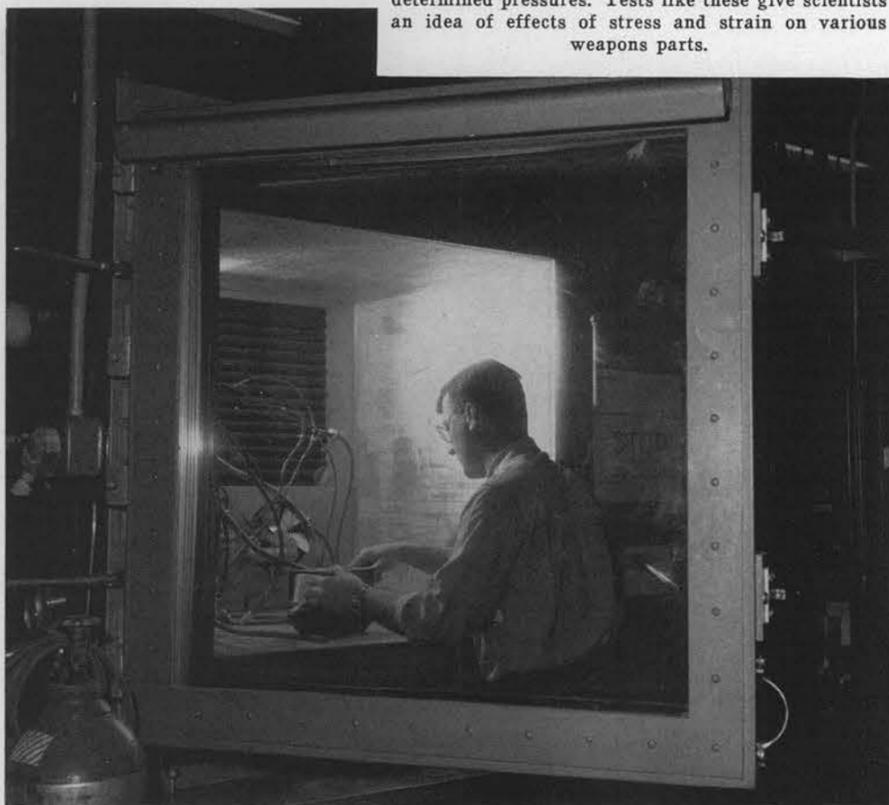
SHOCK TEST DATA is provided by a battery of shock testing machines, from miniature drop towers like the one shown above being adjusted by M. L. Heisler, 1611-3, to two and three-story apparatus. Drop tests can administer shocks as high as 4000 G's!



PROOF TESTING of components is performed by Richard Bohannon, 1611, who operates device to "squeeze" small aluminum container with predetermined pressures. Tests like these give scientists an idea of effects of stress and strain on various weapons parts.



BIG STATIC JIG helps provide fundamental data on stress-strain problems. This roomful of steel girders in Bldg. 860 is used to test assemblies up to 25 feet long, is an important tool in evaluating mechanical properties of units. Adjusting control console, left, is Andy Imrisek, and right, Elmer White, both of 1612-2.



CLIMATIC EXPOSURE chamber is readied for tests which will subject unit to high altitude, high temperatures, and high humidity. Shown here is Glenn Morehouse, 1611, preparing instrumentation on test unit. Other climatic tests in the Test Laboratory can create fogs, salt mists, dew, below sea level atmospheric pressures, sunshine, rain fall!

shopping center

CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication.

RULES

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

Next Deadline: Noon, Dec. 9

FOR SALE—

1/3 H.P. 110 or 220-volt ball bearing motor, \$25. Olson, Alb. 2-0051.

35' 2-BR HOUSE TRAILER, or trade for 3-BR house. Smith, Alb. 5-4935.

NUCLEOMETER, Detectron, also TV test equipment including Genescope; games and children's toys, girl's coat. Kirtley, Alb. 6-0637.

BEDROOM SUITE, blonde finish, 6-piece, \$75. Fields, Alb. 4-2291 after 6 p. m.

3-BR. HOUSE, brick, near schools, in Inez addition. Dickinson, ext. 25135.

COAT, sable-dyed muskrat, Hollander back, \$225, or best offer. Oltman, Alb. 4-8150.

'53 HOUSE TRAILER, 26-foot, Alma, with low down, take over payments. Coleman, Alb. 5-7375 after 5 p. m.

MOTOR SCOOTER, Cushman Pacemaker, \$85. Sparger, ext. 35288 after 5 p. m.

WATER HEATER, National Brand electric, cabinet top model, 30 gal., \$65. McKenzie, Alb. 3-5948.

FIGURE ICE SKATES, lady's white size 8, \$7.50. Hayes, Alb. 4-4428.

'55 OLDSMOBILE Tudor Super 88 Holiday, R&H, PS, PB, 11,000 miles, \$2800; girl's 26" bicycle, \$20. White, Alb. 6-5050.

'55 OLDSMOBILE, hydramatic, R&H, WV tires, PB, 4-door, EZI glass, consider '55 Mercury or older car in trade. Hunter, Alb. 5-1997.

PPAFF SEWING MACHINE, heavy duty motor, mounted in commercial table. Waldorf, Alb. 3-4017.

'52 STUDEBAKER Commander, 4-dr. R&H, OD, recently overhauled, clean. Dauphinee, Alb. 5-6367.

HIGH CHAIR, plastic padded with chrome legs and frame, \$15. Hopper, ext. 46157.

PLAYPEN, \$10. Stoddard, 3116 Cuervo Dr. NE, Alb. 4-5718.

UNIVERSAL MANGLE, portable, \$30. Cox, Alb. 6-1182 after 5 p. m.

2-BR HOME, walled, lawn, near school, bases, bus, shopping center, low down payment, terms. Smith, 1206 Jackson SE, Alb. 6-1605.

'54 PLYMOUTH Belvedere station wagon, OD, \$1650; 10 cu. ft. Philco refrigerator, \$60. Judd, Alb. 5-6512.

'49 FORD business coupe, OD, heater, \$295; 6 7/8 x 15 tires suitable for trailer or car. Prokosch, Alb. 6-1516.

.22 COLT woodsman and holster. Gibbs, Alb. 5-6627.

TV, Motorola leatherette-covered, reasonable. Palkovic, Alb. 6-4196.

RUG, wool Bigelow 9 x 12 royal blue with pad, \$40. Roper, Alb. 6-0789.

WASHER, GE wringer-type with timer, \$25. Markwell, Alb. 5-3962.

TIRE, new tubeless safety liner, 7.10 x 15, 4-ply, B. F. Goodrich, \$29 or best offer. Padilla, Alb. 2-6867.

AF RAILROAD, remote switches, mounted track, half price; swing set, \$20; Magnavox non-automatic table-top phono, \$13. Le Compte, Alb. 6-9734 or Alb. 5-3261.

TV ANTENNA and 25 ft. mast, \$12. Glass, Alb. 6-2485.

BRICK HOME, 3 BR, 1 1/4 baths, carpeting, screened patio, central heat, large utility room, air conditioning, garage, walled, landscaped. Leupold, 7715 Lead Dr. NE, Alb. 6-2116.

RIVAL vegetable shredder, used twice, \$4.50. Monk, ext. 26156.

6-ACRE FARM in North Valley, 3-BR, den, 2 baths, stables, chicken houses, high down payment, terms arranged; 2 western pleasure horses, \$200. Brodsky, Alb. 4-1753.

BICYCLE, girl's 20", balloon tires, light, basket, \$25; desk, dark color, bookcase one end, \$15; divan. Smith, Alb. 6-1605.

SET (4) boxing gloves, men's, \$5; man's size 11 1/2 ice skates with guards, \$5; pair spurs, \$2. Holmes, Alb. 6-7128.

TV SET, 17" Columbia with wrought iron stand, outside antenna, \$70. Houts, Alb. 5-4903.

REVOLVER, Smith & Wesson, K-38, with holster, about 35 rounds of ammunition, \$50. Kubiak, Alb. 6-8608.

2-BR HOUSE, near school, walled, landscaped, \$8950 total, with \$500 down GI, or \$1500 others. Schowers, Alb. 6-0767.

MOTOR BIKE, Whizzer, new tires, heavy duty tubes, base insurance included. Hogue, ext. 35247.

OR TRADE, 4-mike phono inputs, expand and compress, 6 vol. tone controls, 4-6L6 2-output transformer 1.2-500 ohms. Ansley, Alb. 3-0735.

BABY CRIB, with mattress, \$15; high chair with wood tray, \$8. Richardson, Alb. 4-4324.

COMMUNICATIONS RECEIVER, Heathkit model AR-2 with cabinet, 550 kc. to 35 mc, \$29.50. McGehee, Alb. 6-3486.

CAMERA, Argus C-3, with carrying case and flash gun, \$35. Holmes, 5811 Bellamah NE.

RANGE, Roper gas, cream & green porcelain, \$25; refrigerator, Deluxe Hotpoint, \$125. Kekar, Alb. 6-2788.

'42 FORD, R&H. Reed, 9005 Cordova NE.

PUPPIES, English Springer Spaniel, AKC registered, champion sired, field line. \$50. Barth, Sandia Park Phone No. 8.

ELECTRIC STOVE, 2-burner, broiler pan under 1 burner, \$25. Luckett, Alb. 6-2346 after 5:30 p. m.

MOVIE CAMERA, Keystone, model K-29, 8mm, \$30. Boyden, Alb. 5-3456.

TAPE RECORDER, Webcor, dual track, dual recording & playback heads, \$145; Schick electric shaver, \$12. Garratt, Alb. 6-8370.

BARCA-LOUNGER, light tan plastic upholstery, \$110. Smeltzer, Alb. 5-4784 after 5:30 p. m.

GIRL SCOUT UNIFORM, complete, size 16, worn twice, and handbook, \$7.50; in-wall electric heater, \$5. Tarbell, Alb. 6-1322.

PARLOR SET, 2-piece London Club with covers and red club chair, \$75. Janus, Alb. 4-3855.

'52 AUSTIN, 4-door. Poage, Alb. 3-9673.

'52 FORD, V-8 Country Sedan, R&H, Fordomatic, overload springs, trailer hitch, \$1250. Donaldson, ext. 46233.

2-BR. HOUSE, utility room, den, walled, patio, low down payment, 1439 Richmond NE. Welsh, Alb. 5-6290.

1951 PACKARD, 4-door, R, H, Ultramatic drive, \$650; or trade equity for small car. Sortland, Alb. 4-3149.

'32 CHEVROLET rumble seat coupe, original equipment, \$600; '32 Ford 3-window, \$400; want MG or Victoria. Johnson, Alb. 6-9762.

FREEZER, Kelvinator chest type, 240-lb. capacity, \$65; baby carriage, \$10; girl's ice skates, size 1, \$3; bicycle, 26-in., \$10. Neubauer, Alb. 6-7068.

FUR COAT, Persian Lamb, gray, 3/4 length, size 12-16, \$325. Ware, Alb. 6-7369.

'52 DODGE, reconditioned engine, R&H, or will trade, \$595. Jack, ext. 5-6190 evenings.

REFRIGERATOR, 8-ft., less than year old, deep freeze unit, \$125. Brown, Alb. 5-0566.

FUR COAT, Bombay lamb, 3/4 length, new lining, \$100. Feeney, ext. 40167.

STUDIO COUCH, 3-pillow, \$10. North, Alb. 6-8995.

DALMATIAN male pup, 8-months, AKC registered, Myers, Alb. 6-7494.

0-27 LIONEL FREIGHT TRAIN, track, switches, 2-train transformer, extras, all for half-price. Strome, Alb. 6-7373.

WANTED—

TO BABY SIT in my home. Vivian Reed, 9005 Cordova NE.

ENLARGER 4"x5". Richardson, Alb. 4-4324.

USED FOOT LOCKERS in good condition. Harper, Alb. 6-1657.

RIDE to Nashville, Tenn., by Dec. 20, one person, share expenses. West, Alb. 6-5434.

PIANO, blond spinet in good condition. Maloney, ext. 31279.

GOOD HOME for year-old black, female, terrier-type, medium-sized dog, personable, housebroken, likes children. Flanders, Alb. 2-2578.

RIDERS from vicinity Lomas and Girard NE to Adm. Bldg. Betty Riggs, Alb. 6-0845.

OUTBOARD MOTOR, 5 h.p. or less, good condition at reasonable price. Summers, Alb. 5-1016.

RIDERS for car pool from Sedillo Hill. Mastin, ext. 25150.

YOUTH BED. Hoffman, Alb. 5-9401.

RIDE from 300 Penn. SE to vicinity 832. Ann Shiver, ext. 33242.

RIDE FROM 1536 ALAMO SE off Miles Road to Bldg. 829 vicinity. Lucille Jagger, Alb. 3-7333.

WIN. MOD. 12 1/6 ga., will buy or trade. Gregory, Alb. 5-8066.

TO JOIN car pool from 2805 Virginia NE to 800 or 831. Lynes, ext. 47152.

RIDE or will join car pool from 1436 Lafayette Dr. NE to vicinity 800. Janet Gober, Alb. 25144.

CUB SCOUT uniform, size 10. Benson, Alb. 5-9081 after 5 p. m.

GOOD HOME for 3 kittens. Mancuso, ext. 28292.

FOR RENT—

2-BR. DUPLEX, unfurnished, gas range, refrigerator, venetian blinds, garage, \$80 mo., consider less on lease, close to base. Chavez, 402 General Hodges NE, ext. 29160.

FRONT BEDROOM in private home, gentlemen, board if desired. Sangster, Alb. 5-2246.



VOLLEYBALL CHAMPS are these members of the Matadors squad, which whipped the Boneheads, in a final playoff to break a tie. Left to right, they are: Robert Lozano 2561, Frank Castillo 2561, Nick Pavletich

2541, James Reck 2231, James Meikle 2231, James Kelly 2541, Donald Wader 2231, Herbert Howe 2561, Jack Smith 2545. Matadors won 7 games, lost 1 in season play, and had as their manager, Jim Meikle.

Matadors Win Top Volleyball Honors In Playoff Games

The Matadors, headed by Jim Meikle, 2231, took two straight games of a match playoff this week in the Sandia Corporation Employees Volleyball League, to top the Boneheads, 15-5, 15-7, and gain first rank in League season standings.

Trophies will be awarded to Matador team members shortly.

Managers of volleyball teams participating in this year's short season include Jim Meikle, 2231, Matadors; Al Goodman, 5133, Boneheads; Milton Jones, 1613, Sweepers; Bert Webster, 1713, Toms, and Bill Poole, 5311, Hornets.

Season standings prior to the playoff are:

	Won	Lost
Matadors	7	1
Boneheads	7	1
Sweepers	3	4
Toms	1	7
Hornets	1	7

18 Teams Ready For Basketball League Season

Basketball teams were warming up courts in the Base gymnasiums this week, preparing for the opening of the Sandia Corporation Employees basketball league competitions the second week in December.

Organizations indicating they would enter teams in the 1955 basketball league were:

Org.	Rep.	Ext.
1200	Lee Bashor	35133
1300	Jim Manweiler	26263
1600	Lee Schulz	24151
1700	Howard Sieberman	44151
	Charlie McKeever	30140
1900	Al Schomberg	24164
2100	Jerry Cole	31256
2200	Peter Cook	34256
2300	Ember Gunderson	28149
	Jim Hann	35239
2400	Paul House	20241
2700	Nick Pavletich	45237
2500	Hal Cushman	20247
3100	Jay Davidson	52241
4100	Jack Renaud	25164
5200	Dean Thornbrough	35160
	Russell Frame	44263
5300	Leo White	32165
5400	George Donaldson	24262
5500	Ray Chandler	25153
AEC	Les Dasso	45151

Basketball League Needs Officials For Season's Competition

Basketball referees are needed to officiate in the Sandia Corporation Employees Basketball League, according to Employee Services.

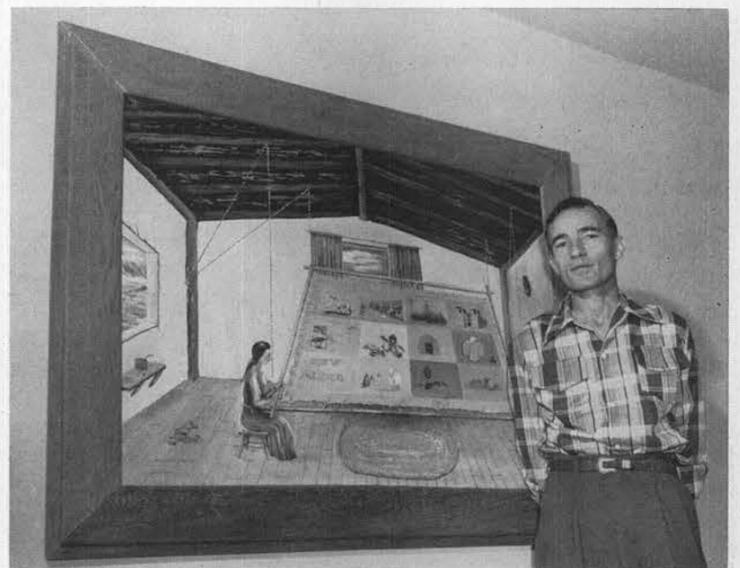
AEC, Sandia Corporation, or military personnel are eligible. Referees with prior officiating experience are preferred. Two officials will be used for each game in the new 1955 basketball league which starts the second week in December.

Interested personnel are asked to contact Arnold Schuknecht, ext. 29157.

LOST AND FOUND—

FOUND — engraved knife "Orrin W. Smith." Ext. 26149.

LOST — pair brown leather fleece-lined gloves between parking lot in front of 802 and Room 305, 802. Carter, ext. 36245.



NEW MEXICO QUILT, tracing on canvas the history of the state, is one of 500 oil paintings completed by George Shelton.

George Shelton Chooses to Paint Just As Nature Does -- He's A True Realist

It has been said that art is nature as seen through a personality. Here at Sandia we have such a personality — George Shelton — who believes that design and color in a painting should be a true representation of nature.

This artist, who insists he is still an amateur, has produced more than 500 oil paintings and drawings in the past 25 years. Concentrating on forms of nature, with color a primary concern, he has captured, on canvas, the aspens and mountains of New Mexico, the wheat fields of Kansas, the swamps of Louisiana, the winter snows of New England.

New Mexico Traditions

Captivated by the colorful history and traditions of New Mexico, he has reflected this intense interest in his "New Mexico Quilt." Here he pictures a New Mexico settler quilting, each of 12 quilt squares depicting a different chapter in the life of the state and its people.

George has also recreated a number of scenes from his native Texas, many of them dealing with the importance of oil to the Texas pioneers. Recently leaving his easel was "Black Magic," which shows an Indian maiden and brave recovering oil from an oil slick by dipping pieces of pine straw into the accumulated oil, and

then stripping it off into containers.

"The oil was used as an external application for the Indians and their animals," commented George, "and also to lubricate the axles of carts and wagons owned by travelers along the Spanish Trail."

Uses 7-8 Colors

George finds that the palette best adapted for his work consists of seven or eight permanent colors. However, he may at times blend upwards to 25 hues in a picture to get the complementary shading effects he desires.

As a sideline to his oil painting, George cartoons for several newspapers and magazines. His most popular personage is "Permian Pete," an oil field roughneck with a knack for getting himself in trouble.

"In the future I will strive to better duplicate the true colors of nature, for I am a realist," says Shelton, a mechanical inspector in 2541. "Nature never paints in black and white, and neither will I."

One look at the paintings lining the walls of his home at 917 Lagunayra NE proves that he knows what he's talking about. For here he has successfully combined his technical knowledge and artistic skill to reproduce nature as seen through a personality.

Coming Events

— Theatre, Art, Music, Lectures —

Friday, Dec. 2

"Dial M For Murder," Little Theatre, 8:15 p. m. (through Sunday, Dec. 4).

Friday, Dec. 2

Lecture by Willie Ley, famed rocket expert, at Old Town Museum at 8:15 p.m. "Conquest of Space." Tickets, \$1, available at Kurt's Camera Corral, Simms Building.

Saturday, Dec. 3

Community Concert Series presentation of "Vienna Chorus," Carlisle Gymnasium, University of New Mexico campus, 8:15 p. m.

Wednesday, Dec. 7

"Laburnam Grove," presented by University Theater, Rodey Hall, Uni-

versity of New Mexico campus, 8:30 p. m. (through Saturday, Dec. 10; also Dec. 14-17).

Thursday, Dec. 8

Theodore Ullman, violinist, will appear as guest with the University Program Series, Student Union Ballroom, University of New Mexico campus, 8:15 p. m.

Saturday, Dec. 10

University of New Mexico Film Society presents Charlie Chaplin Festival, Mitchell Hall, University of New Mexico campus, 7 and 9 p. m.

Sunday, Dec. 11

Civic Symphony Chorus Concert, Carlisle Gymnasium, University of New Mexico campus, 3 p. m.