

Sandia Laboratory Surpasses AEC Safety Record

Sandia Corporation LAB NEWS

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MAY 27, 1960

Livermore Hospital Drive Should Top \$17,000 Mark

Near-final results from the Supplementary Valley Memorial Hospital Fund drive conducted May 9 and 10 at Livermore Laboratory show a total of \$16,694.68. The report is 93 per cent complete.

At the time the Lab News went to press indications were that the drive would go over \$17,000.

The sum represents both the pledges of 212 eligible Sandians living in the Livermore area who had not contributed in the initial 1958 drive, and the extended pledges of others. The new figure reveals an average amount of \$78.75 contributed per person, with 73 per cent of eligible employees supporting the program.

This brings the total amount to date contributed by Sandia employees to \$52,252.60, including the 1958 pledges but not counting the \$10,000 gift by Sandia Corporation in the initial drive.

The campaign was begun to provide funds needed for additional construction costs for the \$1,744,000 hospital, scheduled for completion in July 1961.

"The results are gratifying,"

says Clyde Walker (8121), chairman of the campaign. "Much of the success is due to hard work by team captains and solicitors."

Department solicitors for the drive were: 8110: Robert C. Keller, Norman F. Toly, Donald A. Baumann, James A. Van Meter, Ubbie F. Hammer, Donald M. Johnson, William D. Zinke, Truman N. Casson. 8120: James M. Munyon, Dean A. Hitchens, Henry D. Sorenson, Elvis E. Skidgel, Robert F. Carrell, W. B. Vandermolen, Jeanne R. Smith, Roy G. Tackett.

8140: Fred L. Whitworth, John F. Neuberger; 8150: John C. Miller, Norman F. Jacobson, Richard O. Sundahl, William O. Clark; 8160: J. Grape, Sidney H. Wagner, Elwood A. O'Brien.

8210: John E. Miller, Emily Issacs, Joan L. Petersen, Ruth Powers, Maxine Watkins, Marvin R. Hunt; 8220: Harold K. Remington, Theodore J. Saselli, Robert M. Bohannon, Anthony T. Norwich, Ruth M. Spence, Orval W. Wallen, Ned Tootle; 8230: Dick Durham, Frank Cupps, Neil Givens, Elliott Dopking, J. J. Grady.



BILL RYAN (8211), chairman of the In-Plant Solicitation Committee of the Valley Memorial Hospital Supplementary Fund Drive, hands Sandia pledges to G. E. Dailey (left), drive treasurer, while Clyde Walker (8121), chairman of the Sandia drive, and Gene Beierlein (8213-1), treasurer of the Sandia drive, look on.



"We've got her in orbit—now we're shooting for the moon!"

Sandia Corporation, Unions Start Wages, Health Plan Negotiations

Joint negotiations began May 11 with the Atomic Projects and Production Workers, Metal Trades Council, AFL-CIO, and the Office Employees International Union, Local 251, AFL-CIO. Under the wage opener provisions of present agreements, wages and the Corporation's contribution to the Health Care Plan are open for negotiation.

The Metal Trades Council is represented by Harold Burrell

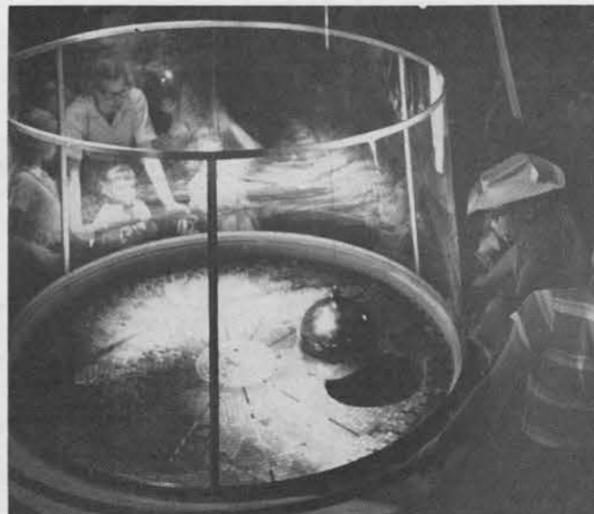
(4224), president, Ed Peterson (4253), vice president, and John Sitts (4511), secretary-treasurer. Charles Davis (4511) is alternate.

Representing the Office Union are Edsel Gunn (4612), president, Al Mares (4362) and Paul Cruz (4153). Harvey Large (2641) is alternate.

Corporation representatives participating in the negotiations are D. S. Tarbox (3200), E. C. Peterson (3220) and W. H. Chandler (3221).

Robert Creveling IRE Chairman

Robert Creveling (1413) has been elected chairman of the Institute of Radio Engineers for the coming year. Other Sandians serving with him will be Robert P. Noble (1627), secretary, and J. E. Gross (1413), treasurer. Thomas Lommasson, Curtiss-Wright Co., was named vice chairman.



BETWEEN NOON and 5 p.m. on Armed Forces Day, May 21, thousands of visitors crowded through Sandia's "Sphere of Science" to view the 17 scientific and technical exhibits on display. One of the more impressive

exhibits (left) was the Foucault Pendulum swinging over a six foot mosaic of the world as seen from the North Pole. Long lines developed (center) as spectators waited their chance to visit the dome. New also (right) was the

scale model of Sandia's wind tunnel facility. As youngsters and grownups alike peered through the lucite sides of the display case to view the tunnel, they listened to telephone handsets for explanation of operations.

Sandia Laboratory has applied to AEC, Washington, D.C., for certification of a new all-time AEC safety record set by Sandia this week when the previous record of 11,175,509 man-hours without a disabling injury was surpassed. The old record was made in 1958 by General Electric, Lockland, Ohio.

On Monday of this week, Sandia's record stood at 11,301,302 employee-hours which toppled the previous record. Sandia's record increases some 35,000 hours each accident-free day. As the Lab News went to press Wednesday, the record stood at 11,371,302 employee-hours without a disabling injury.

According to National Safety Council statistics, 80 disabling injuries have been prevented since the time Sandia's safety record began on July 16, 1959. Some 46,144 days of time lost or charged for permanent or partial disabilities have been avoided during the same period. These figures are based on a comparison with a three-year average of other industries engaged in work similar to that performed by Sandia.

Sandia's injury record has always been well below the national average, however. Comparing the current Laboratory safety record to the Sandia record from July 16, 1958 to May 23, 1959, some 13 disabling injuries have been prevented and 1162 days of time lost have been prevented through the alertness and safety-mindedness of Sandia Laboratory personnel.

Commenting on the safety achievement, A. Burton Metzger, manager of Safety Engineering Department 3210, said, "We are all naturally deeply grateful for our new record, particularly since it represents such an outstanding reduction in lost time due to pain and consequent suffering."

"I want to stress the fact that this record is not the accomplishment of any one man or any one organization. We are fortunate in having a management that con-

Livermore Laboratory, having exceeded 3,000,000 employee-hours without a disabling injury, has applied to AEC for certification for an Award of Honor.

siders 'safety first' a Corporation policy rather than merely a slogan. We have a group of employees gifted with the realization that chance-taking does not pay and that they are not expected by management to jeopardize their safety by taking short cuts."

In a message to employees, Mr. Metzger said, "Your safety-mindedness has established an all-time AEC safety record. It will require only 50 more days of exercising the same caution to round out one full year without a disabling injury."

The Safety Engineering Department also pointed to a goal that employees could achieve if the current safety awareness trend continues through October. Sandia could top the world's safety record of 17,604,263 man-hours without a disabling injury set by International Business Machines Corporation at a plant in Poughkeepsie, N. Y.

Editorial Comment

Quality Means Confidence

In these uneasy times, when the cold war is becoming steadily hotter, there is increased interest in the state of our preparedness. How good are our defenses, and how reliable are our weapons, deployed around the world and ready, if needed?

Sandia Corporation shares a major responsibility in the nuclear weapons program in providing the strongest possible deterrent to aggression. Our products help to form the foundation of strength upon which our leaders draw as they work for peace among the other powers of the world.

This issue of the **Lab News** reports the activities of one of Sandia's organizations — Quality Assurance — which has a direct hand in checking the status of the nuclear weapons arsenal.

All of us here at Sandia are part of this great effort to provide the best assurance of peace. Sandia's main business is nuclear weapons research and development. It is vital work and it is imperative that it be done well. The people in QA know this because they are aware of the possible disastrous consequences of operational failure. It is an example of thoroughness and care in daily undertakings that all of us might follow.

Congratulations

Born to:

Mr. and Mrs. Frank J. Conrad (1622) a son, Frank Hilman, on May 6.

Mr. and Mrs. Tom Fox (3451) a son, Bryan Morgan, on May 1.

Mr. and Mrs. Mel Oberst (1331-3) a daughter, Jane Therese, on May 11.

Mr. and Mrs. Gilbert C. Baca (4516) a daughter, Cynthia Marie, on May 14.

Mr. and Mrs. Joseph B. Flanigan (3465) a daughter, Mary Carolyn, on Apr. 23.

Mr. and Mrs. Robert M. Ferguson (3465) a daughter, Deborah Lynn, on May 3.

Mr. and Mrs. Dick Bassett (2562) a daughter, Gayle Lynne, on Apr. 28.

Mr. and Mrs. A. L. Ouellette (4411-4) a daughter, Karen Marie, on May 10.

Mr. and Mrs. Elmer Smith (8152-1) a daughter, Kathleen Ann, on May 6. M

Mr. and Mrs. Armond Conti (8153-2) a son, Michael, on Apr. 24.

Mr. and Mrs. Richard D. Griffith (1423) a son, James Fredrick, on May 6.

Mr. and Mrs. Horace Poteet (1424-1) a son, William Peter, on May 17.

Mr. and Mrs. Gene Carter (1431) a daughter, Pamela Liane, on May 13.

Mr. and Mrs. Edward J. Graeber (1622) a son, David Arthur, on Apr. 19.

Mr. and Mrs. Wayne Gravning (5241) a daughter on Apr. 23.

Mr. and Mrs. Wally Jungmeyer (5126) a daughter, Karla Jean, on May 22.

Sympathy

To Carlene Mohr (8212-5) for the death of her grandmother May 1 in Oakland, Calif.

To W. F. Peay (5252) for the death of his wife, Kathleen, on May 14.

To N. J. Eich (1627) for the death of his father-in-law on May 15.

To Bernice Duke (4131-4) for the death of her daughter-in-law in Pamon, Calif., on May 5.



FIRST BOARD MEETING for new Sanado Club officers was held last week. Vice presidents ready to assign committee responsibilities in their areas were: (l to r) Mrs. R. P. Johnson, interest groups; Mrs. A. F. Hurford, welfare; Mrs. W. B. Howerton, social, and Mrs. R. S. Lemm, program. Mrs. J. J. Flanigan, membership, was not present.

Silly, Oh, Yeah?

Moving day for the Paul Van Dyke family (8121-3) proved to be an unforgettable experience.

The day before the big move Paul was confined to bed with a sore throat. Not heeding his doctor's advice, he spent the weekend moving.

Once in the new house at 1408 Wagoner, Livermore, his wife turned on the lights in the bedroom. The kitchen lights went on. She tried the lights in the kitchen and the living room lights glowed. Then the fuzes blew.

Trying the water, Mrs. Van Dyke discovered that the pipes hadn't been hooked up. A neighbor's hose temporarily solved the problem.

Thinking back to the day when he picked up the keys for the new house, Friday the 13th, Paul remembered the housing office clerk saying, "Don't worry about the date, it's just a silly superstition."

STWE Elects Officers

The Albuquerque Chapter of the Society of Technical Writers and Editors elected new officers during a meeting May 21 at the Sandia Base Officers Club.

Taking office immediately are: Hy Young (4422), chairman; Don Emrick (5322), vice chairman; J. M. Murray (4421), treasurer; and Mabel Coburn (5321), secretary. The office terms are for one year.

Welcome Back

John F. Thorp (8212-1) was welcomed back to his organization following recent surgery.

Co-workers say "welcome back" to A. Milt Fellows (3121-1), who has returned to work after an extended illness.

Earns Student Honors

Jean McCain (3421-1) was recently selected as the outstanding sophomore student in history at the University of New Mexico.

The award was presented at the annual banquet of Phi Alpha Theta, national history scholastic honorary. Jean was also elected to membership in the honorary society.



CORONADO CLUB twin swimming pools will open tomorrow morning at 10. Shown getting the jump on opening day is Dixie Culp (4151) whose preview test proved "the water's fine, c'mon in."

'Mother of Year'

Maxine Schafer (3121-1) was named "Mother of the Year" by the First Christian Church appropriately enough on Mother's Day.

Recipient of the honor is determined by a vote of the church's congregation. Maxine has been very active in church duties.

The Schafer's have three sons, ages 24, 16 and 13, and a married daughter, Carol Sue League (2534).

Sister Crowned "Miss San Francisco"

Lenore Whalen (8212-5) is mighty proud of her sister, Nancy Farnum, who was recently crowned Miss San Francisco.



NEW SANADO CLUB president Mrs. W. S. Sharp (right) held informal discussions with her recently elected officers: (l to r) Mrs. Henry Moeding, editor of the Sanado Newsletter, Mrs. M. A. McCutchan, treasurer, and Mrs. P. H. Dailey, secretary. Mrs. J. P. Molnar and Mrs. R. K. Shaw serve the board as Corporation and AEC representatives respectively and Mrs. Robert E. Hopper, former president, is advisor. New officers were installed this month.

Sanado Club Will Visit Santa Fe Artists' Studios

The Sanado Club's annual visit to the studios of Santa Fe artists will be held Wednesday, June 8.

Sponsored by the club's art interest group, the bus caravan will leave the Coronado Club at 9 a.m. and make stops at the studios of Howard Schletter, Webb Young, Janet Lippincott, Randall Davey and the Museum of New Mexico.

Reservations are due by June 1. Mrs. James deMontmollin, chairman, has arranged for members to sign up for the trip in the lobby of the Coronado Club or by calling Mrs. P. F. Meigs, co-chairman.

Club 'Patio Party' Series Beginning Tomorrow at 6 p.m.

First of a series of "Patio Parties" will be held at the Coronado Club tomorrow night from 6 to 12.

Members and guests can enjoy a charcoal-broiled hamburger buffet with all the trimmings from 6 to 8 p.m. on the patio. The heated swimming pool will be available from 7 to 12 for those who wish to swim, and Vern Swingle's band will play for dancing on the patio from 8 to 12.

Cost for members is 50 cents with a swim ticket, \$1 without. Guest fee is \$1.25. The buffet dinner will be \$1.25 per person.

Family Nite movie on Sunday, May 29, will be "Graf Spee." Free cokes and popcorn will be served during the movie which starts at 6 p.m.

Win Primary Election

Two Sandia Laboratory employees emerged victorious in the New Mexico primary election May 10.

C. L. Hines (3364) will be a candidate for State Representative, position 4, on the Republican ticket in the Nov. 8 general election.

H. E. Kinney (1283) was successful in the May 10 primary election in his candidacy for County Commissioner, district 1, on the Republican ticket.

Get Well Wishes

Wishes for a speedy recovery are extended to E. W. Wolfe (2715-3), who is convalescing at his home following surgery.

Co-workers of Ben Guerin (8234-1) wish him a speedy recovery from his recent operation.

Best wishes for a speedy recovery are extended to Winston W. French (4254-1), who is convalescing from an illness.



Dilia Fernandez (4321)

Take a Memo, Please

Many accidents result from a chain of controllable events. They can be prevented by finding and eliminating hazards, and by cultivating a personal interest in safety.

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9 Master's, 4 Bachelor's Degrees Earned by Sandians Under Educational Aids Program



A. M. Breipohl



J. A. Johnson



T. A. Kanneman



John Larson



S. O. Lewis



J. E. Ligocki

June commencement exercises at the University of New Mexico will find nine Sandia Laboratory employees receiving their Master's degrees and four being awarded Bachelor's degrees in different fields.

In most cases the students have availed themselves of assistance, in the form of partial tuition refunds and time off the job, available through Sandia Corporation's Educational Aids Program. A number of the employee-students were able to complete all of their work under EAP; others had already finished some of the work before EAP went into effect in September 1956.

Working full time and still finding time to study and attend classes, two of the students receiving Master's degrees — Arthur M. Breipohl and George R. Read, Jr.—were able to maintain straight "A" scholastic averages.

Mr. Breipohl will receive his degree in electrical engineering. His BS degree was awarded at the University of Missouri in 1954. He has been at Sandia Laboratory three years and works in Reliability Development Division 1443.

James A. Johnson will be awarded his MS in electrical engineering. In 1954 he received his BS degree from Purdue University. He started with Sandia Corporation six years ago and is in the Warhead Electrical Systems Division 1264.

Since he came to work at Sandia in August 1957, Thomas A. Kanneman has taken all of his graduate study under Educational Aids Program. He received a BS in electrical engineering at the University of Wisconsin in 1957 and will now be awarded his Master's. He works in Warhead Electrical Systems Division 1264.

A Master's degree in business administration will be presented



G. R. Read



W. F. Scott



B. A. Wickesberg

John Larson of Quality Control Division I, 2561. He received his Bachelor's degree from Northeastern University in 1952 and came to work for Sandia shortly thereafter.

Seth O. Lewis will receive his Master's degree in electrical engineering. His Bachelor's degree was also from the University of New Mexico and was awarded in 1950. He has been at Sandia since September 1954 and works in Weapon Evaluation Division 5522.

Completing requirements for his Master's in mechanical engineering in June is J. E. Ligocki. He obtained his Bachelor's degree in 1949 from Marquette University and did some graduate work at the University of Washington before coming to Sandia in 1953. He is in Structural Analysis Division 1282.

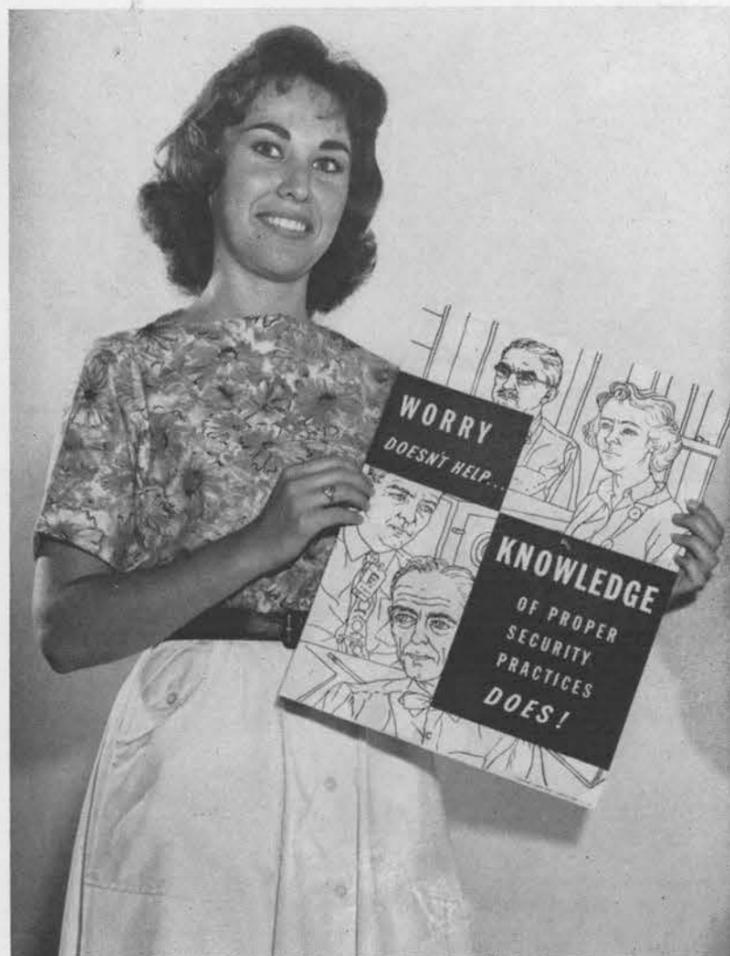
George Read has a BS in electrical engineering from the University of Oklahoma and will now receive his Master's. He came to Sandia in 1956, a few months after graduation and works in Statistics and Evaluation Division 1442.

Walter F. Scott, a Corporation employee nine years, will receive his MS in civil engineering. He was awarded his Bachelor's degree from the University of New Mexico in 1949 and now works in Structural Analysis Division 1282.

Another employee who will receive a MS in electrical engineer-

ing is Bruce A. Wickesberg. He has been working for Sandia since 1955, a few months after obtaining his Bachelor's degree from the University of Wisconsin. His organization is Systems Development Division I, 2441.

Receiving Bachelor's degrees during the June commencement at the University of New Mexico will be: Robert C. Breslin (4543), electrical engineering; E. R. Clark (5513), education; Orlinda Medina (3423), business administration, and Helen R. Smith (4400), business administration.



SECURITY POSTER displayed by Peggy Flindt (8114-1) is the current one in a series of security reminders posted at Livermore Laboratory. Art work was by Technical Illustration Section (8232-5).

Retirement Plan in Effect 10 Years

189 Sandia Employees Become Vested 75 Per Cent in Plan

Sandia Corporation's Group Retirement Plan will have been in effect 10 years on June 1. On that date, 189 employees will meet the requirements for being 75 per cent vested in the plan.

The Prudential Insurance Company of America, which carries the retirement plan, provides among other things that any employee reaching his 45th birthday and having contributed to the plan for at least 120 months has a 75 per cent vested interest in the plan.

By meeting these requirements, the employees have earned an option of real value to them.

Should a vested employee terminate from Sandia Corporation prior to normal retirement he can elect to leave his contributions with The Prudential and at age 65 would receive 75 per cent of his normal retirement income. In the meantime he would make no further payments. He would thus benefit from his own contributions and those Sandia Corporation pays into the retirement fund.

Normal Retirement

Retirement is normally computed in the following manner:

The employee's contributions, those that were deducted from his paychecks during his years at Sandia, are totaled and divided by the number three. This gives the amount of his annual retirement income. It will continue as long as he lives, even though an amount equal to his own contributions to the plan will have been paid to him by the end of his third year of retirement.

As an illustration, consider a hypothetical Joe Doe who came to work at Sandia when he was 34 and at age 35 started contributing to the retirement plan. Joe's annual salary is \$5000, and for the sake of a simple illustration, let's assume his annual salary remains at \$5000.

By the time Joe reaches age 65 he has contributed a total of \$6,300 to the plan. (All employees have deducted from their paychecks three per cent of the first \$3000 of their annual salary and six per cent of their remaining annual income.)

Joe's annual retirement income

at age 65 would be \$2,100, computed by dividing his total contribution by the number three. His money purchased approximately \$630 of his annual retirement income. During the years that he contributed to the plan, Sandia Corporation was also contributing. To purchase the remaining \$1470 of his annual retirement income would cost Sandia Corporation approximately \$19,855.

75 Per Cent Vested

Suppose Joe at age 45 wanted to terminate. He would have contributed to the retirement plan for 120 months and thus would be 75 per cent vested in the plan. By choosing to leave his total contribution of \$2100 with The Prudential he would receive at age 65 an annual retirement income of \$525. This is computed by dividing his total contribution by three and then multiplying this amount by 75 per cent.

His own contributions pur-

chased approximately \$248 of his annuity and Sandia purchased the remainder of approximately \$277 at a total cost of about \$3,819. Because Joe was 75 per cent vested he benefited from the Corporation's contribution.

Of course at any point during his employment that Joe had wanted to leave the Corporation he could have withdrawn from the plan his total contribution and the interest it had earned.

Death Payments

In the event that Joe had died after he left Sandia and his contributions remained with The Prudential, his beneficiary would have received the amount of his contributions plus interest earned.

At the death of a retired employee who is receiving retirement income from the plan, his beneficiary receives the remainder of his contribution or an amount equal to one year's annuity, whichever is greater.

Coronado Club to Elect Directors, Vote By-Law Changes on June 13

Members of the Coronado Club will hold their annual meeting and elect new members of the club's Board of Directors on June 13 at 7 p.m., A. F. Cone (5510), president of the board, announces.

Under a proposed change to the

club's by-laws to provide better continuity, four directors will be elected for two year terms at each annual meeting and two will be elected for one year terms. The change will also have board-appointed directors serve for the balance of the unexpired term of a vacancy on the board, rather than serving until the next annual meeting.

This year, however, six directors will be elected for one year terms and two for two year terms.

Although the proposed changes will mean that six instead of eight directors will be elected at each annual meeting, the Board recommends the adoption of the revision to enable succeeding boards to be more familiar with problems and policies of the club and to function as a unit much more rapidly.

A suggested slate of candidates has been prepared by the club's nominating committee for the eight directors' positions open.

Those suggested are George Banos (3122), R. C. Colgan (3431), R. M. Fegan (AEC), A. J. Fisher (4252), W. R. Martin (1264), J. McLay (1420), C. F. Selby (2621) and L. F. Stravasknik (1232).

Other nominations will be accepted from the floor.

Those eligible to vote in the election must be active members of the club who are not delinquent in payment of their dues and who have not joined or rejoined the club within 10 days preceding the meeting.

Free refreshments will be served at the conclusion of the meeting.

Loren K. Olson Appointed As AEC Member

Appointed last week as a member of the Atomic Energy Commission by President Eisenhower was Loren Keith Olson. Mr. Olson fills one of the two vacancies created when John H. Williams and John F. Floberg resigned from the Commission.

Loren Keith Olson has been General Counsel of the Atomic Energy Commission since March 1958. As General Counsel, he has advised the Commission in all of its activities which included interpreting the Atomic Energy Act of 1954 and providing legal counsel for the Commissioners and the General Manager and other officers and employees.

Mr. Olson came to the Commission after serving as a partner in a Washington, D.C., law firm and in various capacities as a lawyer for federal and state governments.

Born on Feb. 28, 1914, in Wheeler, Wis., Mr. Olson was educated at Eau Claire College and the University of Wisconsin Law School from which he was graduated in 1940.



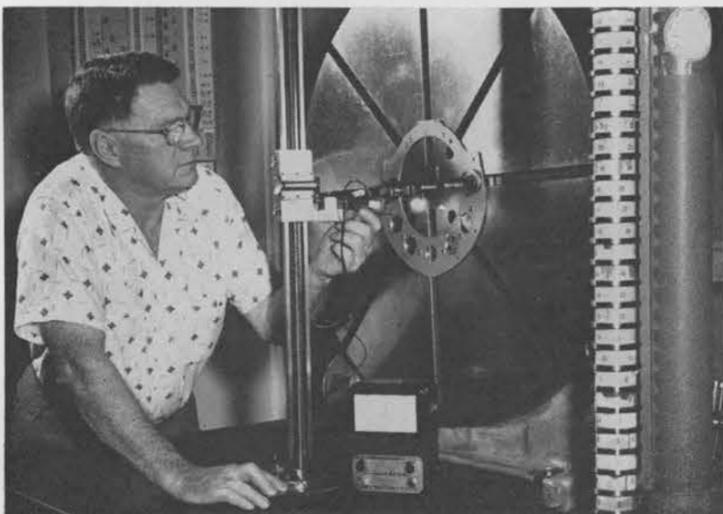
REVIEWING FABRICATION problems found during evaluation of a component, George H. Roth (5520), left, talks with Jim Hillman (5523-2). Tags indicate defects found during destructive tests.



FORCE OUTPUT characteristics of small explosive devices are measured by Arnold Strasburg (left) and Oscar Braune (both 5524-2) who use a ballistic pendulum which they designed to evaluate rates of deterioration. The device is extremely accurate.



SUBJECTING CAPACITORS to rigorous leakage current and resistance tests is Art Cannon (5523-3) who determines their ability to meet stringent design specifications after periods of storage. Special test equipment like this QT-115 is designed by QA when no commercial equipment will make the necessary measurements.



PRECISE MECHANICAL MEASUREMENTS are made by R. B. "Red" DeWitt (5523-3) to compare against specifications of the part. The measuring device is a Pla-Chek indicator which is accurate measuring distances within two seconds of one degree.



REJECTED COMPONENTS from the field are given "post mortem" analysis by Nathan Brown (5524-1) to determine exact cause of failure. Following precise electrical measurements the part will be further dissected to verify point of failure. Analysis equipment was designed by Nathan.

QA Answers Vital Questions Of Nuclear Weapon Reliability

The letters QA could either be an abbreviation for "question" and "answer" or, at Sandia Corporation, an abbreviation for Quality Assurance organization 5500.

Either way, a question and a vital answer are involved. Sandia's QA organization has for its function determining the status of the nation's nuclear weapon stockpile and reporting this information to the Atomic Energy Commission.

The question is this: "Was it built according to specifications and will it perform its intended function whenever called upon during its specified life?"

Every weapon component and system designed by Sandia Corporation comes under the scrutiny of QA and undergoes an exhaustive series of tests and evaluations.

Quality Engineering Department 5520 has a large part in deciding the answer to the QA question.

Areas of Activity

The decision is based on the information obtained from four areas of 5520 activity.

The department devises programs to verify the quality of weapons material being delivered to AEC, evaluates data gathered from verification inspections and special destructive tests on components, checks design and production processes and surveys manufactured products to insure that both designer and producer interpret specifications in the same manner.

Action Requests

During the first three months of 1960, department personnel made 1724 evaluations of items representing 116 different types of material. There were 53 action requests placed on various organizations. These requests recommended 44 improvements in specifications, six workmanship improvements and three changes in procedures.

"As a result of these activities," George H. Roth, 5520 department manager, says, "QA continuously advises the AEC of the quality and reliability of stockpile weapons and notifies designers and producers of previously undetected problems which require correction."

Verification inspections, quality engineering evaluations and quality surveys assume that the materials submitted by production agencies meet standards, Mr. Roth continues. The assurance of quality of stockpile material throughout its useful life is accomplished through the stockpile sampling program, special long-term component evaluations and evaluations of special weapons inspection reports submitted by the using agencies.

In Systems Planning Division 5221, headed by D. E. Murphy, QA engineers plan the verification inspection procedures employed by AEC inspectors at various major producers which are used as the methods for determining the quality of weapons material produced for the AEC.

For each different type of wea-

pon, a stockpile sampling program planning committee is formed with members from design, development, reliability, manufacturing, engineering and producing organizations.

Personnel of 5521 chairman these committees which formulate the sampling and testing program of units during stockpile life. From this sampling program, the functional condition of the stockpile material is determined.

Weapon Evaluation Division 5522, supervised by D. S. Dreesen, prepares the procedures for performing the stockpile sampling tests decided upon by the committee. Based on these test results Division 5522 prepares periodic reports to the AEC and military using agencies. The division also tests unarmed weapons to extreme environments to assure that undetected production or deterioration problems are not affecting weapon reliability.

Component Evaluation

Two component evaluation divisions, headed by J. R. Harrison (5523) and R. E. Butler (5524), study components in the early stages of production to determine that design and production processes are adequate and that the product as finally produced satisfies the user's requirements.

In addition, these engineers establish long-term statistical studies on groups of components to detect by means of precise measurements and analyses any degradation which might lead to future unreliability. This activity attempts to find possible

problems early for corrective action before a serious condition develops.

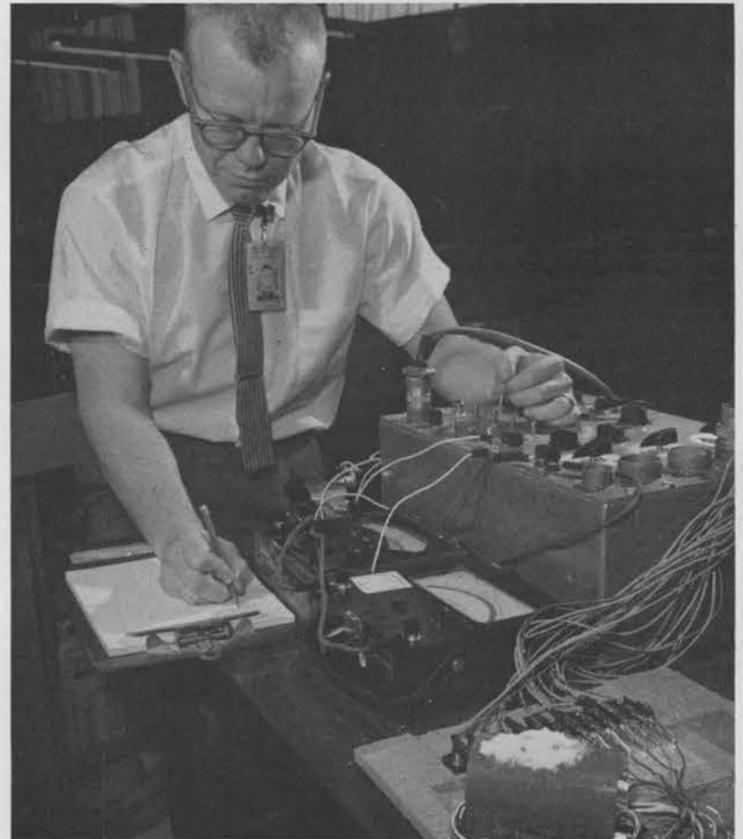
Another important function of the quality engineering divisions is the evaluation of components found defective and removed from stockpile. The components are subjected to concentrated investigation and evaluation. Results become guideposts for future action and decisions concerning components in development.

Strange Lexicon

These various QA activities have led to a strange lexicon of special QA terms. Words such as QAIP, QATI, QEER and QEP seem to dominate the language of QA engineers.

QAIP's are QA Inspection Procedures used with QATT's (QA Test Instructions) to verify, in a non-destructive way, that the AEC is buying weapon material of good quality. QEP is the abbreviation for Quality Engineering Projects, long-term studies of weapon and component degradation. QEER's (Quality Engineering Evaluation Reports) disseminate the results of destructive evaluations on newly-produced components to insure that design and production methods are adequate.

These continuing QA techniques detect material defectiveness and encourage improvements in design and production. QA's greatest achievement, however, is in performing as "watch dog" for the AEC and military users to insure that technological advances are carefully implemented and that weapons material is reliable.



WHILE COMPONENT is still thoroughly chilled after session in cold chamber, R. K. Bump (5523-2) subjects it to a functional test to determine if it will perform at temperature extremes specified.

Pickup Trucks, Buses, Forklifts Going on Auction Block June 11

Sixteen pickup trucks, three 29-passenger buses, eight forklifts and a group of other surplus equipment will be auctioned off to the highest bidder Saturday, June 11, adjacent to the Sandia Corporation Salvage Yard beginning at 1 p.m.

Each item of surplus property is offered for sale on an "as is" and "where is" basis. Bidders are urged to inspect the property prior to bidding.

The sale is open to the public although prospective purchasers must register beforehand and sign a copy of the sales conditions. Identification cards will be given prospective purchasers at the time they register.

Payment will be made to the auctioneer and is acceptable in cash, cashiers check, certified check or money order.

Any bidder who is an employee of the AEC or of any of its cost-type contractors must declare that he has not participated in the seller's determination to dispose of the property, in preparation of the material for sale, in determining the method of the sale, and has not acquired information not generally available to the public regarding usage, condition, quality or value of the property.

Included in the sale are: five 1/2 ton 1956 Ford 6 pickup trucks, six '56 IHC Carryall trucks, three '49 ACF Brill 29-passenger buses, two '54 and one '55 Ford 1/2 ton pickup trucks, '49, '52 and '53 Chevrolet 6 1/2 ton pickup trucks, '50 one 1/2 ton Reo wrecker truck, '50 1/2 ton Dodge 6 panel truck, '50 IHC 6 ton truck, '53 Chevrolet 6 1/2 ton canopy truck, and a '53 Chevrolet 1/2 on panel truck.

In the second group of surplus

Charles H. Christie Dies May 11 After Month's Illness

Charles H. Christie, a Sandia Corporation employee for seven and a half years, died May 11 after a month's illness. He was 68.

Burial was at the National Cemetery in Santa Fe.

Mr. Christie was employed as a Senior Draftsman in Design Definition Section B I, 4412-1.

Survivors include his widow, Dorothy, and a step-daughter, Lois.



DIALING "O" FOR OPERATOR keeps these Livermore Laboratory switchboard operators hopping. From front to back are Betty Barnhouse, Bertha Frick, Mary Johnson, Jean Erickson, all 8232-4.

property offered for sale are eight fork lifts, both electric and gasoline powered, ranging from 3000 to 18,000 lbs. capacity.

The third group of surplus property includes 31 items some of which are filing cabinets, compressors, generator and excitor, hoist chains, aerial movie cameras, electric hoists, loadmeters, 20 ft. crane and arc welders.

Surplus Vehicle Auction Set at Brawley June 4

Another auction of surplus vehicles and equipment will be held in Brawley, Calif., June 4 beginning at 6:30 p.m. Conditions of sale for this auction are the same as those listed for the Albuquerque auction in the adjacent article.

Surplus vehicles offered for sale include three '56 and one '57 Chevrolet 6 pickup trucks, '53 Dodge 6 one ton pickup truck, '55 3/4 ton IHC travelall, '55 Ford 1/2 ton pickup truck and '56 Chevrolet one ton platform stake truck, single axle semi trailer with 3200 gal. capacity water tank, and a Caterpillar tractor, model D-7, diesel four cylinder.

Also included in the sale will be a miscellaneous group of automotive repair parts, plumbing supplies, electrical and electronic gear.

155 Calls Per Hour Handled By Four Livermore Operators

In one small room at the rear of Bldg. 911 are the most called upon—the telephone operators.

By dialing "O" at Livermore Laboratory, Sandians get to talk to Jean Erickson, Mary Johnson, Betty Barnhouse or Bertha Frick. These women are the PBX (Private Branch Exchange) operators assigned to the Communications Section (8232-4) headed by Hank Prystas.

Hank estimates that about 800 outside calls are placed each day, or almost as many calls as there are personnel at the Laboratory. Total calls handled by the operators average one call per operator every other minute, including incoming calls. An additional 400 local calls a day were handled by the operators until an outside dial-

Openings Exist for Sandia Apprentice Machinist Trainees

Wanted: men interested in apprentice machinist training. Recruitment is now underway at Sandia Laboratory for a new group of six to start in September.

The apprentice training period includes four years of training under Mechanical Department 4250 in bench work, shaping, grinding, turning and boring, milling, drilling and special machines. Technical and Trades Training Division 3132 is responsible for providing shop theory and related classroom instruction.

The program at Sandia Laboratory is under the guidance of a Joint Apprenticeship Committee comprised of four members designated by Sandia Corporation and four members appointed by the Atomic Projects and Production Workers, Metal Trades Council.

The first group began training March 1, 1958, and five of these machinist apprentices became journeymen on March 1, 1960. Although the program of 8000 hours of training is normally spread over four years, the five graduates entered the program with credit for on-the-job training received at Sandia prior to their enrollment in the program.

Further information regarding qualifications for receiving Sandia-sponsored training in this trade may be obtained from J. P. Mitchell (3121-2), ext. 21244.



KING OF NEPAL is shown arriving in Tonopah, Nev., to go mountain lion hunting. Unloading ramp was provided through the quick thinking of Al Gruer (5260) who is Tonopah C of C president.

Al Gruer Helps in King of Nepal Visit, Lion Hunt in Tonopah, Nev.

Last week when the King of Nepal landed at the Tonopah, Nev., airport, Al Gruer, manager of Test Range Department 5260, was on hand to meet His Highness Mahendra Bir Bikram Shah Deva.

Al is the president of the Tonopah Chamber of Commerce and also airport manager, he found out. He is also pretty good at entertaining royalty with only 24 hours notice.

In the first place, it came as a complete surprise to the residents of Tonopah that the King would visit their town during his U. S. tour. In the second place, there was no unloading ramp at the airport high enough to fit an Air Force C-121. Al had visions of royalty sliding down a rope ladder.

After a good deal of checking Al found out that the King was scheduled to spend two days at a Nevada Department of Game and Fish camp 30 miles from Tonopah and go mountain lion hunting.

Things worked out well with Al securing an unloading ramp from Castle Air Force Base and a reception line was arranged. And the lion hunt was successful, too.

In a letter to the Lab News, Al wrote:

"Americans go to India and hunt tigers. This case I think is the very first time that a visiting monarch has hunted game in the United States. The King of Nepal shot a mountain lion yesterday morning (May 9) weighing about 175 lbs. They hunted on horseback and were out about five hours before the dogs finally treed

this mountain lion and the King shot it. He wounded it on the first shot and did the job with the second one. Now this mountain lion is going to be skinned out, stuffed and sent to Nepal so that somewhere, for many years to come, there will be one each stuffed mountain lion, taken near Tonopah, Nev., over in the King of Nepal's palace. And that's an interesting thought, I think."

Money McCoy, 38, Dies at Livermore

Money McCoy, 38, a staff assistant technician in Environmental Test Division 8121 at Livermore Laboratory, died suddenly at work May 23 after complaining of feeling ill.

He had been employed at Livermore Laboratory since March 21, 1960. Before joining Sandia he had worked as an electronics mechanic for the past 14 years at the U.S. Naval Air Station at Alameda, Calif.

During World War II he served in the U.S. Marine Corps as a radio operator technician. He attended Prairie View College, in Prairie View, Tex., for two and a half years before entering the service in 1943.

He is survived by his widow, Ruth Ann, and four children who live at 1279 65th St., Berkeley, Calif.

Supervisory Appointment

JOHN W. TANNER to supervisor of the Shipping and Material Handling Section 8225-3, Supply Services Division II.



John started work at Sandia eight years ago as a material handler, later working with the Field Services group. He participated in all nuclear tests since he has been at Sandia with the exception of the last series in Nevada.

At Livermore since September 1959, he was an administrative staff assistant in the Program Material Control Division until his promotion. Before joining Sandia John was New Mexico state sales manager for the Canada Dry Bottling Company.

During World War II John served with the U.S. Coast Guard as a signalman aboard an ice breaker in the North Atlantic. He attended Chicago College, Chicago, Ill.

Enjoy Long Week-End But Please Be Careful

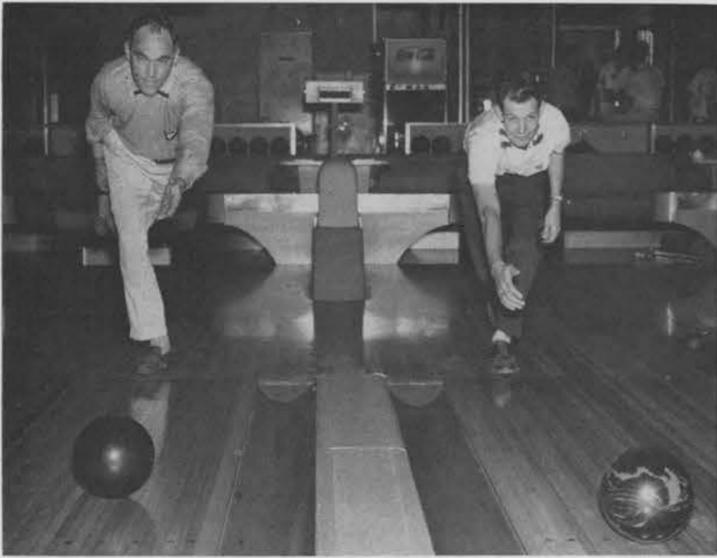
Many Sandia Corporation employees are making last minute plans today for the forthcoming three-day weekend (May 30, Memorial Day, is an observed holiday). Amid the arrangements for travel or leisure hours, a few thoughts toward safety are necessary.

Highway accidents customarily are to blame for the highest number of fatalities. In the nation last year 310 persons were killed over the Memorial Day holiday, a record-breaking number. Of these four were in New Mexico and 30 in California.

But there are also other causes for holiday accidents. Drownings, heart failures caused by unaccustomed exertion, sun strokes, all help to boost the holiday fatality toll. Even the frequently-used power mower can be a source of danger if improperly operated.

Enjoy that three-day weekend but be careful, too!

Livermore Lab Bowling Champs



WINNERS of 20-game endurance tournament sponsored by a Livermore bowling alley were Lowell Bayless (8225-2) and Jack Workman (8121-2). Jack rolled a 3698 scratch plus a 440 pin handicap with a high game of 245. Lowell scored second with a 3935 scratch plus 120 handicap with a high game score of 232.

Sandians Finish In Top Brackets

The bowling season at Livermore closed this month with many Sandians finishing in the top brackets.

Among the winners were the Skyrockets, the Mixed-Up Five, the Odd Balls, the All-Sandia team of the Hayward section of the Radiation Lab Recreation Association (RLRA), and individual scorers on other teams.

The Odd Balls, members of the Sandia mixed handicap Thursday night league, led the league with 71 wins and 49 losses. In second place were the Equiknocks.

Other Sandians at Livermore won honors in city teams at Livermore's two bowling alleys. Trophies for the Sandia teams were awarded by the Employee Services Section (8212-2) which administers the league.



MIXED UP FIVE, the only Sandia Team represented in the Hayward RLRA League, captured second place in the league. Team members are (standing, l to r) Marilyn Larson (8232-3), Sarah Thomsen (8232-1), and (kneeling), Allen Foo (8223-2), Tom Harban (8225-3), and Lloyd Rothacker (8222-2). In addition to team trophies, Lloyd and Sarah won sweepstakes trophies, Marilyn won high handicap game trophy with a score of 251, and Tom received a patch for bowling three consecutive games of 126 each.



"ODD BALL" BOWLERS (l to r) John Cleary (8116-1), Jeanne Smith (8123-3), and Bill Zinke (8116-1), watch while Ron Halley (8116-1) demonstrates his bowling style. The Odd Balls took first place in the Sandia Mixed Handicap Thursday Night League. Not in the picture were Tom Lane (8116-1), and Dolores Van Noy (8211-3), Dave Lange (8116-1), and Gordon Van Gundia (8152-1).



TRUDY GEARY (8232-2), shows style which helped her team, the "Flying Fives," take second place in the Livermore RLRA League.



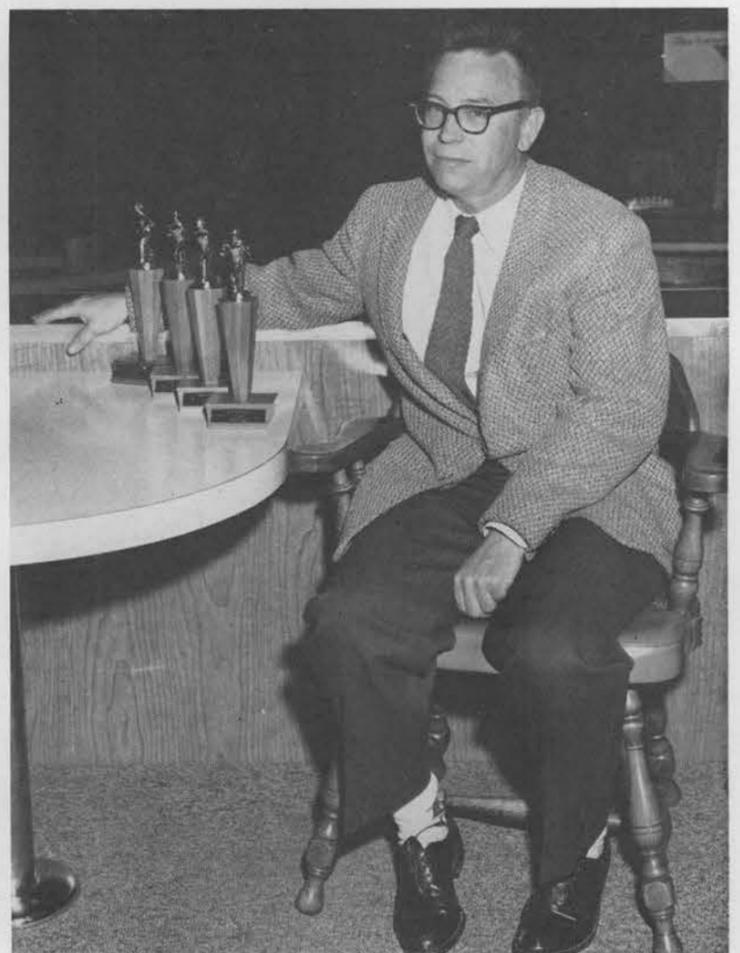
THE "SKYROCKETS," Sandia team in the Winner League, took first place with a high team average of 769. They are (standing, l to r) Jesse Floyd (8222-1), Buddy Hilgers (8222-2), Jim Rego (8225-2), Nick Tavone (8222-1), and Ken Riddle (8224-1). At the scoring table are Jim Austin (8222-1), and Johnny Rogers (8225-3).



LORRAINE GEORGE (8211-3) displays handful of trophies she won in the past few years in bowling events. The most recent trophy (foreground) she received for high series in the Twin Valley Monday Night Ladies' League. She bowled a series of 602; high game 253.



HIGH SERIES GAME in the Sandia Mixed League was bowled by Irmal Brown (8116-2) with a three game 510 score.



MOST TROPHIES in the Sandia Mixed Handicap League went to Dave Lange (8116-1) of the "Odd Balls" who won high scratch game, high scratch series and high handicap game individual trophies.

Sandia Service Awards

15 Years



Lowell W. Stouder
4251
June 9, 1945



Louis Zelnio
2714
June 9, 1945

10 Years



Tony Atler
3462
May 29, 1950



Edward P. Hutson
3432
May 31, 1950



Beulah B. Amole
2000
June 1, 1950



Guy E. Moser
1224
June 1, 1950



Robert S. Cox
4113
June 5, 1950

Five Years

May 28-June 10

William K. Riggan 1414, William W. Chapin 2534, Frank G. Gordon 2713, Robert B. Parks 4113, Gordon B. Ross 3121, Ann E. Culley 3126.

Norman C. Colclough 4412, Joseph Dan-dovic 3426, W. D. Ulrich, Jr. 1283, Eldon M. Fratt 3463, Jack A. Barber 1612, Leslie A. Shope 1413.

Contract Awarded for Addition to Sandia's Theater Bldg. 815

Styron Construction Company of Albuquerque is apparent low bidder for alterations and construction of an addition to Sandia Laboratory's Theater Bldg. 815, the AEC has announced.

The project includes an addition of approximately 720 sq. ft. to provide lobby, restrooms and storage areas for the existing theater. Alterations will include a low voltage control system for the theater lights and other electrical facilities plus a general rework of the lighting system.

Work is to be completed within 40 days after the contractor receives notice to proceed from the AEC.



C. C. CAMPBELL (right), area manager of the Atomic Energy Commission's Sandia Area Office, receives an ALO Security Award plaque from W. C. Rousel, director, security division, of the Commission's Albuquerque Operations. The Sandia Area Office, a field office of ALO (Albuquerque offices), didn't have a 1959 security infraction.

MAY 27, 1960

LAB NEWS

PAGE SEVEN

Harry L. Ryland, Jr., Is Support Director For Oil-Shale Study

Harry L. Ryland, Jr., has been appointed Support Director for an Atomic Energy Commission experiment involving the detonation of two chemical high explosives charges in the Bureau of Mines' experimental oil shale mine near Rifle, Colo. The experiment is scheduled to be conducted in late June.

Purpose of the experiment is to obtain information useful in predicting effects of possible nuclear detonation in oil shale as part of the Plowshare Program to investigate the peaceful uses of nuclear explosives.

Mr. Ryland has been an Assistant Security Officer since 1956 in the Office of Test Operations of the Commission's Albuquerque Operations. He continues as a member of ALO's test organization in his new assignment.

Supersonic Wind Tunnel Group Elects A. Y. Pope President for Year

At a recent meeting of the Supersonic Wind Tunnel Association in Dallas, Texas, A. Y. Pope (5140) was elected president for the coming year.

The group includes representatives from nearly all of the supersonic wind tunnels in the country who meet twice a year to discuss the latest design and operational techniques.

The Supersonic Tunnel Association will meet at Sandia Corporation in October 1960, and at the McDonnell Aircraft Corporation in St. Louis in April 1961.



CITY CHAMPION Rudy Vinovich (2715-3) holds the impressive trophy he was awarded when he and Ray Buzzbee won Albuquerque doubles bowling competition. Rudy has just finished a three-week tour of bowling tournaments in Chicago, Ill., Toledo and Cleveland, Ohio. His team placed 18th in Chicago, 20th in Toledo's ABC tournament and 25th in Toledo's B-J tournament, all against national competitors.

Hawaiian Vacation

Luaus, plantation tours and warm hospitality are all pleasant memories now of Maude McCarthy (1312), who recently returned from a Hawaiian vacation. She and her husband were among those who attended the Shriner's convention in Honolulu.

"We landed at the airport about 4 a.m., but the islanders were still out there to greet us with leis," Maude said.

SHOPPING CENTER

CLASSIFIED ADVERTISING

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

RULES

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

FOR SALE

- '57 FORD Custom 300, 2 dr., R&H, w/w tires, V-8, straight shift, \$1200 or best offer. Gallegos, DI 4-4788.
- RADIO CONTROL equipment, CG, 8 channel reed-transistor. Lenz, AL 6-7037.
- BABY BED and mattress; 10" tricycle. Brown, CH 3-0717.
- GE WASHER, wringer type with pump, \$35. Brown, DI 4-6831.
- DEEP FREEZE, Leonard 18 cu. ft., upright model, one year usage; 3 saddle horses. Hoffhines, ext. 32149.
- '58 CHEVROLET Impala hardtop coupe, R&H, PG, PS, 348 cu. in. engine, new w/w tires, \$1900 or trade for '59-'60 Volkswagon. Applegate, CH 2-6026.
- PROJECTION SCREEN, 40" x 40" Radiant Hy-Flect, model QB. Kostka, AM 8-7993.
- '50 CHEVROLET, 4-dr. sedan, heater, w/w tires. Will consider any offer around \$245. Hensinger, DI 4-1504.
- 40" GAS RANGE, 6 burners, separate broiler, \$89; GE 8 cu. ft. refrigerator, \$79; 30 gal. gas water heater, \$24. Mecklenburg, DI 4-6793.
- WRISTWATCH, Timex Petite, new warranty, \$5; new leather ice bucket, \$5; 2 new size 14 jeans, 13 1/2 oz., \$1.25 each. Mitcham, AX 9-8425.
- '50 CHEVROLET 4-dr., \$175 or trade for '40 Chevy Coupe and cash, or camping equipment and cash. Ludwick, DI 4-6683.
- 3 BRM home, 19 months old, payments \$62 monthly, 1 mile from Sandia Base. Dupre, 501 Torrance SE, AL 5-2904.
- '56 CADILLAC Fleetwood, white, AC, sell or trade for '52-'55 tudor Cadillac or Buick. Branson, 9706 Apache NE, AX 9-1360.
- EVAPORATIVE COOLER, 3/4 hp GE motor, \$17. Used about 10 hours, single speed. Clark, 11004 San Jacinto NE, AX 8-2340.
- 3 BRM HOME, 1 1/4 baths, den, two fireplaces, AC, 35' patio, picture window, drapes, carpets, sprinklers, schools. Gage, 1712 Morningside SE, AL 5-8125.
- '47 CHEVROLET, make offer. Martinez, DI 4-6994.
- COUCH, RED, 7' long, \$35; dining table, blond, with 6 chairs and buffet, \$50. Sanchez, CH 2-7910 after 5 p.m.
- BASS PLUGS, sell or trade for trout flies or equipment. One room portable air conditioner on wheels, used three days, \$24. Stuart, AX 9-9190.
- FM TUNER, Heathkit Model FM-3A, \$25. Elkins, AX 8-0517.
- CALORIC GAS Oven, 40", large oven, two broilers, completely porcelainized inside and outside, deluxe features, \$175. Sturges, 6229 Hannett NE, AM 8-9328.

DEADLINE

FOR SHOPPING CENTER ADS
Friday Noon, June 3

- VIOLIN, five/eighths size, suitable for child up to about 11 years old, will sell or trade for full size violin. Bristor, 5711 Princess Jeanne NE, AM 8-0735.
- '54 MG "TF" black, must see, \$1295 or best offer. Chavez, AL 5-9996 after 5 p.m.
- CRAFTSMAN 150 Series drill press, \$75; 2 1/2 hp outboard motor, \$20; pipe cutter, \$2.50; will trade for building materials. Pliner, 6210 Bellamah NE, AL 6-1907.
- SIMMONS HIDE-A-BED sofa with new gold custom made slip cover, \$110. Martin, AX 9-7045.
- MAHOGANY Secretary, \$40; twin bed with spring and mattress, \$20; new transistor radio, \$7. Massey, AM 8-1660.
- GAS RANGE, Norge, 36", w/timer and electric light; Servel gas refrigerator, 3 years old. Karkalik, AX 9-8769.
- '52 CHEVROLET pickup, deluxe cab, 5 good tires, \$375; also '41 Ford sedan. Pritchard, 1024 Jackson St., AM 8-6430.
- WESTINGHOUSE LAUNDERMAT automatic washing machine, \$35. Souder, BU 2-3274.
- YARDSTER GO-CART, 4 cycle, 2 horse power. Schorfer, 3421 Calle del Sol NE, AL 6-2662 after 4:30 p.m.
- ROBERSON 3 BRM home, 1 1/2 bath, double garage, family room; Schwinn 26" bike; motor bike; portable air conditioner, \$12. Roth, 3505 Pitt NE, AX 8-2175.
- BOWLING BALL, ladies, 12 lb. Brunswick, \$10. Skelton, AX 9-3190.
- '57 MERCURY Voyager wagon, red & white, 4-dr., 9-pass., all power facilities, air conditioner, \$2,045 or trade down. Chandler, AX 8-1705.
- ONE LOT on shore of Storrie Lake, \$800. Stuart, AX 9-9190.
- LARGE ROBERSON home, 3 bdm. and den, attractive features, h/w floors. Reasonable down payment to GI loan. Ahr, 2100 Dorothy NE, AX 9-5144.
- ONE WHEEL trailer, 4 x 5 x 2 1/2 ft., closed box, \$45; consider trade for .22 Woodsman or 4,000 cfm cooler. Shaffer, AX 9-1845 after 5 p.m.
- EVAPORATIVE COOLER for car, 12 volt system, two squirrel cages, separate pump, used one year, cost \$47.50, sell for \$25. Mancuso, AX 9-4279.
- FRIGIDAIRE refrigerator, 8 cu. ft., \$75; Hawaiian electric guitar w/amp, \$60. Metz, AM 8-7989.
- '52 NASH Ambassador, 4-dr. custom, \$295. Bleakney, AL 5-8222 after 5 p.m.
- MINIATURE POODLE pups, AKC registered. Raisen, AL 6-0143 after 5:30 p.m.
- '57 CHEVROLET Bel-Air, full power, new Goodrich nylon, shocks, exhaust system, ignition wire. Make offer. Crosby, AX 9-1459.
- 3 BRM BRICK, extra large den, w/w carpeting, h/w floors, w/pt, approx. 2,000 sq. ft., small down payment. Abernathy, 5902 Princess Jeanne, AL 5-4386.
- '59 PLYMOUTH Belvedere, 4-dr., R&H, torque-flite transmission, V-8, torsion air suspension, tinted glass, two-tone, padded dash, undercoating. Gholson, AX 9-2663.
- EVAPORATIVE COOLER, portable, circulating pump, replaceable filter, \$15; Presto electric autom. griddle, control master, never used, \$14. Doyle, AL 5-1483.
- TWIN 4 BARREL carburetors, manifold linkage and air cleaners off, '56 Cadillac, \$80 or best offer. Crawford, AL 6-2303 after 5 p.m.
- 3 BRM HOME, air conditioned, w/w carpeting, walls, stove, refrigerator, drapes, close to bases, schools, \$1500 down, \$79 month, total \$12,750. Carroll, AX 9-6357 after 5 p.m.

- '51 FORD 2-dr., overdrive, new engine, rebuilt transmission, overdrive, new brakes, generator and starter. Templeton, CH 7-2819.
- ELECTRIC RANGE, 30" GE, 1 year old, \$98.50. Lots, North Valley, 140 x 200'. Padilla, AM 8-7476 or DI 4-0094.
- '56 CHEVROLET station wagon, R&H, overdrive, V-8, 9 pass., 4-dr., \$1225. Saloman, 3521 Eastern SE, AM 8-1389.
- COMMUNICATIONS RECEIVER, Hallicrafer 5-77A, general coverage in 4 bands B.C. to 40 M.C., a fine business receiver, \$55. Bassett, AX 9-5685.
- TABLE SAW with motor and dado blades, \$30; 1/2 square silver-grey asphalt shingles, \$5. Campbell, AL 6-9646.
- BATTERY 6 volt, long type, \$5; cement mixer; playground cot, \$5; glass case for doll. Villella, AX 9-7915.
- HEAVY STEEL cabinet and double sink with porcelain enamel top and fittings, 66" x 24". Luna, DI 4-5712.
- 2 BRM HOME, pitched roof, h/w floors, air conditioned, walled, attached garage, low down payment to FHA loan. Williams, 2825 Santa Clara SE, AL 5-0695.
- VIBRATOR LOUNGE chair, large size. Waldorf, CH 2-8303.
- 3 BRM HOME, w/w carpet, refrigerator, stove, washer, air conditioned, drapes, walled, landscaped. Coleman, AX 9-0293 after 5 p.m.
- '53 MGTP SPORTS car, reconditioned, green, trade in accepted; two wheel 7' x 4' utility trailer, \$25. Martin, AX 8-2064.
- '59 CHESHMAN EAGLE scooter, all accessories, \$275. Nelson, AX 9-1959.
- BICYCLE, girls, 26", \$20. Platt, AX 9-0196.
- LAWN SPRINKLERS, Rainbird on stand, adjustable arc, \$4.50; rotating sprinkler with 2 adjustable nozzles, \$2.75. McGehee, 1024 Georgia SE, AL 6-3486.
- AUTOMOBILE AIR cooler, evaporative type, 12 volt, \$25; English lightweight bike, 20" girls model, \$18. Angel, AM 8-1837.
- '56 BUICK Special, 4-dr., white, R&H, original interior, \$850; air pressure pump, motor, spray gun, \$47.50. Welker, 8510 Flower Pl. NE.
- '56 VOLKSWAGEN, clean, \$1100. Basham, 2911 Cuervo NE, AM 8-1278 after 5 p.m.
- 3 BRM, 1 1/4 bath, built-in oven and range, carpeted LR, attached garage, landscaped, 4 1/2% loan, \$14,500, Northeast area, Geisler, AX 9-2168.
- POWER MOWER, 18" reel type, Craftsman, \$25. Claassen, AL 5-4347.
- 17" TV, Dumont console with doors, \$25; Maytag ironer, \$40. Robertson, 9909 Toltec NE, AX 8-1048.
- BOAT, 12 ft., motor, car top carrier, \$125. Suttman, 9806 Haines NE, AX 9-6754.
- '57 CHEVROLET, 4-dr. station wagon, one owner, 37,000 miles, new tires, \$1490 or will trade. Elliott, AL 5-8842.
- '57 FORD Ranch Wagon, \$100 for my equity and take over payments of \$57 a month. Bosworth, AL 5-5037 or AL 6-2836.
- CHINCHILLAS, registered, one male, two females. Will sell or trade for best offer. Cages included. Childers, 4713 Southern SE, AL 5-5302.

- SWIMMING POOL for child, rigid frame, 4' x 6', \$7.50. Russell, 7738 Robin NE, AX 9-6921.
- 3 BRM MANKIN between Los Altos Park and Base. Sprinklers, landscaped, patio, electric built-ins, finished garage, \$500. Rhodes, AX 9-9387.
- DINETTE SET, chrome and red, table 29" x 41", ext. leaf, 4 upholstered chairs, \$20. Woodley, ext. 46187 after 5 p.m.
- JEEP, very reasonable. Trujillo, 3408 Sixth NW.
- ROTARY POWER mower, 22"; Cooler, 2-speed, 2500 CFM; treadle sewing machine. Sweatman, 300 Espejo NE, AX 9-3256.
- 3 BRM HOME, 1 1/4 baths, Inez brick, fireplace, carpeting, drapes, AC, sprinklers. Either refinance or contract. Kantz, AX 9-5450.
- 3 BRM HOUSE, 1 1/2 baths. Eaton, AM 8-1107 evenings.
- CHINESE HOOKED cotton rug, 6' x 9', \$25; 9' x 12' all wool Mahawk rug, \$35; evaporative cooler with pump, \$20. McCord, CH 7-2774.
- '53 FORD, 2-dr., \$350. Justice, CH 7-8213.
- ELECTRIC TYPEWRITER, Underwood, pica type, '58 Volkswagen. Demaree, AX 9-0055.
- 3 BRM HOFFMAN brick, 1 1/4 baths, corner lot, sprinklers, landscaped, AC, dishwasher, garbage disposal. Thompson, AX 9-0092.
- GE AUTOMATIC washer, worth \$50 on trade for new washer, will sell for \$15. See at 1101A Louisiana SE, Maynez.
- '50 CHEVROLET business coupe, good second car, \$175 or best offer. Brett, AX 9-5325.
- 3 BRM HOME, h/w floors, w/b fireplace, dining room, utility, 4 1/2% GI loan, near Mark Twain, Monroe, Assumption, Plus. Russell, AL 5-5838.
- CHINA CABINET, mahogany, \$30; .38 S&W revolver, \$12; .35 Remington automatic rifle, \$65 or trade any above. Butler, 11009 Prospect NE, AX 9-5626.
- '51 OLDSMOBILE super 88, 2-dr., R&H, hydramatic, \$250. Fisher, AL 6-2569.
- NEW HOME, 521 Tennessee SE, 3 brm., AC, carpeted, draperies, landscaped, carpet, storage, no qualifying, \$1000 down, \$93.87 monthly. Roberts, BU 2-3496.
- SPINET PIANO, mahogany, \$300. Willson, AX 9-7187 evenings or AX 9-6628.
- '57 FORD Fairlane 500, 4-dr., automatic transmission, R&H, new tires. Cummings, AX 9-7187 evenings or AX 9-6628.
- ELECTRIC STOVE, GE, \$125 cash or will take old electric stove in trade. Osterby, AX 9-4606.
- PORTABLE EVAPORATIVE cooler, inside type for cooling one room. Foderaro, AL 5-3677.
- '58 PLYMOUTH Belvedere, 4-dr. hardtop, R&H, OD, ww tires, white and copper-tone, \$1525. Longfellow, AL 5-5334 after 4:30.
- '51 DODGE, 1/2-ton pickup, 6-ply tires, new clutch, new rebuilt motor w/written guarantee just installed, other improvements. Shaver, CH 2-2583.
- DRAPERY MATERIAL, 21 yards, modern pattern, cost \$2.50 will sell for \$1 per yd.; youth bed complete, \$30. Hoagland, AX 9-7097.
- 14' RUNABOUT with forward steering and controls, windshield, speedometer, and 25 hp electric start "Sea King", \$675. C. Longfellow, AL 5-5334 after 4:30 p.m.
- YOUTH BED, \$20; sidewalk bicycle w/training wheels, \$10; both items for \$30. Kohut, 3520 Piermont NE, AX 9-9092.
- '46 PONTIAC 4-dr. sedan deluxe, good second car for driving to and from work, \$90. Eichert, AL 5-2247.

- SILVER MINIATURE poodle, AKC registered, only 1 left, \$125. Eskew, AX 8-1998.
- LIVING ROOM SUITE, 2-piece, forest green, \$75. Mares, AL 5-4273.
- KELVINATOR REFRIGERATOR, 9 cu. ft., 60 lb. freezer, complete with trays and butter keeper. Burbank, AX 9-1460.
- WANTED
HOMES FOR kittens, 2 red and 2 red and white, housebroken. Osterby, AX 9-4606.
- CAMP ICE box or ice chest. Baxter, DI 4-7601.
- TAPE RECORDER, Wollensak or equivalent. Will trade LM type freq. meter and 60' new tower with accessories. Robertson, 9909 Toltec NE, AX 8-1048.
- HOME FOR kittens. Reineke, DI 4-5138.
- METRONOME. Fite, AL 5-6943.
- FREE KITTENS needing good homes, fresh shipment. Tatum, CH 2-9021.
- RADIO for 1957 FOLKSWAGON, may be in any condition. Foster, ext. 27231.
- MODEL "A" car, also parts for Model "A" Pritchard, AM 8-6430.
- RIDER TO SHARE expenses and driving to Iowa. Lawrence on June 3. Whipple, ext. 47257.
- STUDENTS FOR ju jitsu class starting in June. Male adults only. Treon, AX 9-7212 evenings.
- SWAP TOASTMASTER automatic 2-slice toaster for 10 or 12" electric fan. Matlack, AL 6-7371.
- FOR RENT
3 BRM MANKIN home, SE Heights, 5 mins. from Base, carpeted, venetian blinds, water & garbage paid, \$125 month. McCoy, AL 5-6828.
- CAMPING TRAILER, opens into tent, everything furnished, ice chest, 3-burner stove, etc., \$12 week-ends, \$20 per week. Chase, 200 Gen. Bradley, NE, AX 9-7321.
- LOST AND FOUND
LOST—Man's brown frame glasses, black heavy knit sweater, 8 keys on ring. Lost and Found, ext. 26149.
- FOUND—Silver looper earring, 3 1/2 x 6" black notebook, man's wedding band, glasses with brown and gold frame found at Library. Lost and Found, ext. 26149.
- FOR SALE AT LIVERMORE
'60 RENAULT DAUPHINE, blue, low mileage, large heater, \$150 for equity and take over payments or loan. Gilliam, HI 7-0393.
- '55 CHRYSLER, power steering, power brakes, R&H, solex glass, \$695. Bjork, EL 7-1546.
- FREELER, Manitowoc upright, 18.5 cu. ft., reconditioned, new control, new F-2 freon charge, \$250. Von Steeg, HI 7-1678.
- SURF FISHING ROD, 13', 3-piece split bamboo. Fick, HI 7-3706.
- DINETTE SET, 5-piece chrome, \$35; table lamps, 28" high, white and green, 3-way switch, \$15. Cooper, JE 7-0280.
- '59 PONTIAC, Catalina, 2-door sport sedan, 325 hp, straight stick, heavy duty clutch, R&H, tinted glass, w/w tires, padded dash. Darmohrey, HI 7-3795.
- '53 SINGER, English sports car, new tires, new top, \$650. James, HI 7-4864.
- '55 FORD, Crown Victoria, V-8 Fordomatic, w/w tires, Naugahyde upholstery, R&H, \$900; '47 Mercury, V-8 coupe, radio, \$200. Truitt, HI 7-5207.
- '50 MERCURY, club coupe, \$150. Cracker, HI 7-4074.
- WANTED AT LIVERMORE
SMALL ADDING MACHINE, with tape. Janssen, HI 7-5235.

Civic Chorus Presents 'Evening With Richard Rodgers' Tonight

The Albuquerque Civic Chorus will present its final concert of the season tonight at 8:30 at the Civic Auditorium.

The concert, entitled "An Evening With Richard Rodgers," is under the direction of Norman Russell Bell. Represented in the program will be well-known choral selections from Carousel, Oklahoma, The King and I, State Fair and South Pacific. Augmenting the choral renditions will be several ballet sequences, choreographed by Jim Taylor.

Among chorus members singing solo selections will be Peggy Howe,



Peggy Howe

soprano, who works in the Minnesota Mutual Life Insurance Company counselor's office at Sandia Laboratory. She will sing "Something Wonderful" from The King and I.

Peggy graduated from the University of Kansas with a Bachelor of Music degree in voice in 1956. While at the University she appeared as soloist with the University Chorus and A Cappella Choir and in various operas and oratorios. In Albuquerque, she has been a frequent soloist at the Central Methodist Church, and is a member of the Bel Canto Singers where she is a featured soloist.

Other soloists will be Myreen Nixon, soprano, Nita Ward, alto,

Gene Gardiner, tenor, Fred Lamb, baritone, and Ed Wolf, tenor.

During intermission at the concert, subscription tickets will go on sale for the 1960-61 season of the newly formed Albuquerque Theater Arts Center. The Chorus will be affiliated with the Center next season, along with three other performing groups—The Bel Canto Singers, Municipal Opera Company and Patio Players.

Tickets for "An Evening With Richard Rodgers" are on sale at Reidling's, Cleveland's, the Music Mart and at the auditorium box office. Price is \$1.50.

Promotions

Betty L. Vineyard (8212) to Staff Assistant Admin.
 Albert P. Disch (4516) to Office Machine Repairman
 Tony Gabaldon (4516) to Office Machine Repairman
 Philip L. Archuleta (4516) to Office Machine Repairman
 P. Susan Bishop (3126) to Typist Clerk
 Frank J. Milazzo (8225) to Stockkeeper
 Ann E. Ward (4411) to Draftsman
 Joseph A. Ruggles (4413) to Draftsman
 Frank Castillo, Jr. (2721) to Staff Assistant, Tech.
 Jay D. Anderson (4412) to Staff Assistant, Sr. Draftsman
 Clyde H. Hughes (4412) to Staff Assistant, Sr. Draftsman
 John S. Williams (4412) to Staff Assistant, Sr. Draftsman
 John P. Hoice (1422) to Staff Associate, Tech.
 Rodman N. Leach (5142) to Staff Associate, Tech.
 Ira T. Holt (5144) to Staff Associate, Tech.
 Thomas E. Dadian (8115) to Staff Associate, Tech.
 Lloyd C. Brewster (8122) to Staff Associate, Tech.
 Norman F. Jacobson (8152) to Staff Associate, Tech.
 Juan A. Doyen (8114) to Staff Associate, Designer
 Robert E. Hafford (8114) to Staff Associate, Designer
 James S. Gruver (8114) to Staff Associate, Designer
 Albert W. Fassel (8114) to Staff Associate, Designer
 Phillip F. Sites (8114) to Staff Associate, Designer
 Evangeline J. Boley (3126) to Typist Clerk
 Eleanor E. Smith (3126) to Typist
 W. S. Austin III (3466) to Senior Clerk
 Lois I. Sullivan (3421) to Senior Clerk
 Robert E. Baldwin (8225) to Stockkeeper
 Rita L. Brannon (8161) to Msg. Center Equip. Oper.
 Helen M. Bond (8224) to Record Clerk
 Stanley R. Kurovski (1612) to Laboratory Asst.
 Virginia G. Epps (8213) to Teller
 Dorothy M. Dempsey (3462) to Schedule Clerk
 Marian E. Knapp (3462) to Schedule Clerk
 Charles R. Walker (8223) to Assembler
 Robert J. Harks (8233) to Assistant Editor
 I. B. Jankowski (3463) to Record Clerk
 Sally L. Forrest (8224) to Record Clerk
 Mary Ellen Sisler (3400) to Secretary
 Paul R. Coronado (8115) to Staff Assistant, Tech.
 Paul W. Benson (2453) to Technician
 M. M. Stephenson (3466) to Document Clerk
 Doris L. Mortensen (2563) to Data Reduction Clerk

Supervisory Lateral Transfers
 D. M. Ellett from 1626 to 1631
 A. W. Snyder from 1628 to 1632
 A. J. Clark, Jr., from 1232 to 1633
 J. P. Cody from 1230 to 1320
 W. W. Arris from 5545-4 to 5535-4
 M. E. Bailey from 1263-2 to 2543-4
 A. B. Draper from 5541-1 to 2723-3
 G. H. Bradley, Jr., from 5547-1 to 5534-1
 J. W. Hughes from 4332 to 3231
 W. B. Davis from 4153-1 to 4153-2
 J. T. Dempsey from 6021-1 to 4153-1
 J. E. Birchfiel from 4153-2 to 6021-1
 J. S. Miller from 4113-1 to 4122 (Sr. Auditor)
 W. E. Lew from 4122 (Sr. Auditor) to 4113-1
 J. L. Colp from 1626-1 to 1631-1
 K. C. Humpherys from 1628-1 to 1632-1
 R. D. Statler from 5241 to 5261
 J. L. Hollenbeck from 1614-4 to 4611-5
 R. A. Richards from 2442 to 2422
 R. W. Roberts from 2442-1 to 2422-1
 A. C. Ellingson from 2441-1 to 2422-2
 D. Essad from 2422-1 to 2423-1
 R. S. Summers from 2451-1 to 2441-1
 W. C. Hunter from 2752 to 2442
 J. S. Maxon from 2444 to 2752
 L. A. Smol from 2444-3 to 2442-1
 W. W. Westman from 2441-3 to 2442-2
 J. A. Southwick from 2441 to 2444
 J. C. Cunningham from 2442-2 to 2444-3
 J. M. Phillips from 2451-3 to 2451-1
 A. J. Roth from 2422 to 2452
 G. Carl from 2442-3 to 2452-1
 G. H. Donaldson from 2422-2 to 2452-2
 W. A. Sherman from 5547 to 5511
 C. T. Toft from 2562-5 to 2621-1
 C. E. Dahl from 2562-2 to 2634-1
 C. A. Ashby from 2633 to 4173
 W. H. Myers from 2633-1 to 4173-1
 H. B. Durham from 1414-1 to 1422-2

'Boss of Year'

Paul House (3463-2) was given the title "Boss of the Year" during a dinner meeting of the Albuquerque chapter of the American Business Women's Association. The members of the association took this occasion to entertain their bosses. Paul's secretary is Ruth Cushman (3463-2).



MOTHER OF THE YEAR award was presented to the wife of Leo Gutierrez (8140) by the Livermore Chapter of the Fraternal Order of Eagles. Mrs. Gutierrez is mother of 9 children shown above.

Ray G. Cooley Retiring May 31

Ray G. Cooley will retire on May 31 after six years' employment with Sandia Corporation.



He has been a maintenance man in the Maintenance Trades Division 4581 since he went to work at Salton Sea Test Base.

Although his plans for the future are still undecided, Mr. Cooley expects to move to Idylwild, Calif., within the coming months.

Sandia Lab Hosts Meeting of Industrial Information Group

Sandia Laboratory was host last week for a two-day meeting of the Advisory Committee on Industrial Information. The meeting included briefings on Sandia activities and business sessions of the committee.

The Advisory Committee advises the AEC on ways to increase the flow of significant information to American industry through business and technical publications and assists the Commission in maintaining liaison with the business and industrial press.

Technical Information Department 3420 handled arrangements for the meeting.

Participants in the program included R. S. Claassen, Physical Sciences Research Department 5150; A. Y. Pope, Aerodynamics Department 5140; R. P. Stromberg, Advanced Development Division of Electromechanical Development Department 1320; M. K. Linn, Technical Information Department 3420, and T. B. Cook, Nuclear Burst Department 5110.

Memorial Golf Tourney Draws 80 Contestants

Approximately 80 Sandia and AEC employees have entered the first annual Fred J. Given Memorial golf tournament which will be held at the University of New Mexico course tomorrow.

The field will be broken into flights of 16 persons according to established handicaps. Low gross winner will be the recognized Sandia Employees Golf Association Champion for the year of 1960.

A large permanent trophy will be displayed in the trophy case in the lobby of Bldg. 802 with the winner's name engraved on it. The winner will receive a smaller individual trophy.

Trophies and prizes will be awarded in each flight for low net and low gross winners and runners-up, and four ball team (scratch).

Elmo Hubbard Will Retire This Month

Retiring at the end of May will be Elmo Hubbard, a machinist in Branch Shop Division 4252.



Mr. Hubbard has been at Sandia Laboratory since November 1948 when it was operated by the University of California.

"I have worked many years in my trade and hope to continue even after my retirement," he explained.

Mr. and Mrs. Hubbard are looking forward to a family reunion in August with their three children who live in Albuquerque, Biloxi, Miss., and Englewood, Calif.

The couple's home address is 2941 Jefferson NE.

Junior Engineers and Scientists Institute Scheduled June 12-25

Third annual New Mexico Junior Engineers' and Scientists' Summer Institute (JESSI) will be held at New Mexico State University, University Park, June 12-25.

The session is open to boys and girls entering the 11th or 12th grades in September and who have successfully pursued at least three courses (by the end of the 10th grade) to four courses (by the end of the 11th grade) of high school mathematics or science.

The two-week JESSI program is designed to remove the "guess" from school and college program and career decisions by giving interested high school juniors and seniors an academic insight into the pure and basic applied sciences, and some knowledge of the study programs and career opportunities in the science and engineering fields.

Further information may be obtained from high school mathematics or science teachers or from Dr. James E. Weiss, Department of Biology, New Mexico State University.

Duplicate Bridge Group Formed, Meet Mondays at Club

A Sandia Corporation Duplicate Bridge Association has been formed which is affiliated with the American Contract Bridge League.

Teams of four (or five) employees are now being organized and play will be held at the Coronado Club every Monday evening starting at 6:30 p.m. The fee will be 50 cents per person and ACBL awards will be given to the highest pairs every night and cash prizes on a yearly overall basis.

Any number of bridge teams can be accommodated and interested persons should contact either George Arnot (1422), ext. 36245, or Tom Laney (5241), ext. 45151, for further information.

Mountain Club Sets Three-Day Colorado Climb Next Week

A three-day climb in Colorado and a hike in the Pecos wilderness area are coming events for the New Mexico Mountain Club members and guests.

Irving Auerbach (5150) will be leader for the Memorial Day holiday trip to Blanca Peak, the fourth highest mountain in Colorado. Since the summit is at 14,363 ft. snow fields are expected to provide considerable opportunity for ice axe practice.

On June 5 hikers will leave their cars in the vicinity of Cowles and follow a scenic trail to Betty's cabin in the Pecos wilderness area.

During summer months all trips will start from Nob Hill at 7 a.m.

Noon Movie Schedule

Sandia Laboratory's noon movie schedule for the coming two weeks is:

May 31, June 1, 2

"Sign of the Pagan" with Jeff Chandler, Jack Palance, Rita Gam (color)

June 3

"Rockne of Notre Dame" (Prudential's Award Winning TV Series) (B&W)

June 6, 7, 8

"Raw Wind of Eden" with Esther Williams, Jeff Chandler (color)

June 9, 10

"The Treasure of Lost Canyon" with William Powell, Julie Adams (color)

All movies begin at 12:10 p.m. in the Sandia Base Little Theater which is located south of the military cafeteria on Main St. Showings last about 35 minutes.

Sandia's Safety Record

Sandia Laboratory HAS WORKED 11,371,302 MAN HOURS OR 314 DAYS WITHOUT A DISABLING INJURY

Livermore Laboratory HAS WORKED 3,194,950 MAN HOURS OR 1,560 DAYS WITHOUT A DISABLING INJURY



ADVISORY COMMITTEE on Industrial Information met at Sandia Laboratory last week. Shown discussing Sandia's technical information services is M. K. Linn, manager of Technical Information Department 3420, which handled arrangements for the committee's two-day meeting at Sandia.