

SANDIA CORPORATION  
SANDIA BASE, ALBUQUERQUE, N. M.

To Sandia Employees:

Each of you will be receiving a payroll deduction card soon with which you can sign up for purchase of U.S. Savings Bonds. I recommend you seriously study the benefits of buying these bonds. At current rates of interest, investing as little as \$2.50 per week will accumulate savings of \$1150 in seven years and nine months which, incidentally, is the current period of maturity for U.S. Savings Bonds. On a monthly basis, \$6.25 invested for the same period will produce savings of \$661.

I hope you will all recognize the convenience and soundness of payroll savings and enroll in this payroll deduction plan or increase the amount you are already investing in U.S. Savings Bonds.

Sincerely,

*S. P. Schwartz*

President, Sandia Corporation

## Employee Escapes Flaming Auto

Frank K. Gordon (2341) is employed at Sandia's Los Angeles Field Office. On the morning of May 21, while he was driving on the Santa Ana Freeway near Anaheim, Frank was involved in an auto accident. Out of the accident came another testimonial for seat belts.

At one point on the freeway, a construction project narrowed the traffic lanes, where cars were temporarily halted before passing through the constricted area. Frank approached the area and stopped. Some distance behind him, an elderly woman drove toward the construction area at a moderate rate of speed. But she failed to notice that the traffic in the restricted lane was halted. Her car struck the rear of Frank's; his, in turn, struck the one ahead of him. In all, four automobiles were involved in the chain collision.

The impact threw the upper part of Frank's body forward; then, he was slammed backward. The back of the

front seat collapsed, and, as he fell backward, Frank lost consciousness for a moment.

When he came to, he was lying on his back. His seat belt was still secure, and he saw smoke rising from the rear of the car. Quickly, he unfastened the belt and kicked open the door on his side of the car. As he got out, he saw that the front of the car that had hit him was also on fire. He rushed to help the injured driver get her door open and escape.

Frank was uninjured in the accident, although he could have been seriously hurt. He had remembered to buckle his seat belt before starting to drive. It probably saved his life.

**SPECTACULAR CLIMAX**—Sandian Frank K. Gordon escaped the forward car moments before a passing photographer took this picture. Frank avoided serious injury in the fiery accident thanks to his auto seat belt.



SANDIA  
CORPORATION

# LAB NEWS

PRIME CONTRACTOR TO THE ATOMIC ENERGY COMMISSION / ALBUQUERQUE, NEW MEXICO / LIVERMORE, CALIFORNIA

VOL. 16, NO. 12 / JUNE 5, 1964



MICHNOVICZ, INC. — Mike Michnovicz (3465) invests in U. S. Savings Bonds regularly through payroll deduction. He has 15 good reasons for doing so: 14 members in the family plus the fact that U.S. Savings Bonds insure security for country. Oldest son, Mike, is not in the picture. He is attending seminary in Santa Fe. Sandia bond drive starts June 8.

## Bond Drive Launched at Both of Sandia's Labs

J. J. "Mike" Michnovicz (3465) has 15 good reasons for saving U.S. Savings Bonds. The reasons are his children—Mike, 15; Toni, 14; Andy, 13; Maria, 12; Jon, 11; David, 9; Stephanie, 7; Mark, 6; Paula, 4; Karla, 3; Matthew, 1½; and Patrick, two weeks. The children make an even dozen reasons.

Mike and Mrs. Michnovicz make two more good reasons. Everyone benefits from U.S. Savings Bonds.

So what's the 15th reason?

U. S. Savings Bonds are good for the country. In addition to providing for a secure future for families and individuals, U.S. Savings Bonds are used by Uncle Sam to provide a secure future for everybody. Bonds are an investment in freedom, security, and the future.

From the strictly personal point of view, U.S. Savings Bonds are a good investment. You get back \$4 for every \$3 you invest in just seven years and nine months. The interest is guaranteed, backed by the U.S. government.

You can get your money back whenever you need it.

Your U.S. Savings Bonds are replaced free if anything happens to them.

You can save automatically through the Sandia Corporation payroll deduction plan.

On Monday, June 8, you will receive an employee bulletin with a payroll deduction card attached. Just fill it out for a new deduction or an increase and send it to Payroll Organization 4131 at Sandia Laboratory and 8213 at Livermore Laboratory.

You don't really need 15 reasons to invest in U.S. Savings Bonds. Just one reason—your future—will do fine.

### PhD Degree to Be Conferred on Arthur E. Breipohl



Arthur E. Breipohl of Advanced Systems Studies Organization 9100 will receive his PhD degree during commencement exercises June 5 at the University of New Mexico.

His doctoral dissertation was entitled "Adaptive Communication System."

Mr. Breipohl came to Sandia in 1957 after receiving his Bachelor's degree in mathematics at the University of Missouri. He has since obtained a Master's degree in electrical engineering at the University of New Mexico under Sandia's Educational Aids Program.

**(Editorial Comment)**

## Two Sets of Driving Manners

The Case of The Split Personality has been presented to the **Lab News**.

It comes up, according to our informant, when many Sandia drivers leave Sandia Base. On the Base their motor manners are impeccable. When they drive off the Base . . . well, things are different.

A couple telephone callers recently asked us what happens to the driver when he enters city traffic. He too often loses his manners, that's what. But "Why?" We just don't know. But, as one caller put it, "It's a case of split driver personality."

## Teenage Drinking

The New Mexico Department of Public Health makes a report on teenagers and alcohol. Here are the Department's findings:

"Some studies show that most teenagers have tasted alcohol, with their first exposure generally taking place at the age of 13 or 14. Only two to five per cent of the teenagers who drink do so to excess and those who drink excessively are following adult patterns.

"To drink or not to drink has been shown to be a highly personal decision, influenced by family and ethnic or religious backgrounds. Highest rates of excessive drinking among young people occur in families where there is either complete and violent abstinence by the parents or where the parents are alcoholics."

## Money at Work

There are still some people who sew their money into a mattress—and there it lies peacefully sleeping. This isn't necessary, for Sandia (and most of the country's industry) has a handy payroll deduction plan which makes it possible for our money to stay awake and busy.

The payroll deduction plan for U.S. Savings Bonds gets our money to work in several ways. First, our money earns a good and guaranteed interest. It is safe, certain interest, backed by Uncle Sam himself. We get back \$4 for every \$3 invested in just seven years and nine months.

Secondly, we can defer the federal income tax on the interest until the time the bonds are cashed.

Third, we can get our money when we need it, and should our bonds be lost, destroyed or stolen they are replaced free.

There is another consideration for Sandia employees. When we buy U.S. Savings Bonds we are helping finance the only customer Sandia Corporation has. An important point to remember is that we are giving away no money. We are only investing. We profit and so does our country.

## Employee Develops New Mounting for Emergency Masks

Some changes in emergency equipment are best made by the users. Such was the case with employees in Sandia Laboratory's foundry and their use of air-pac masks.

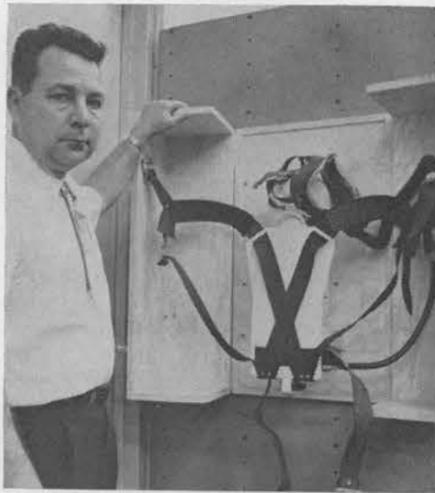
The air-pacs consist of a mask, connecting hose, pressure valve, and bottle of pure air. For easy movement, the air-pacs are packed (by the manufacturer) in suitcases. The units are located throughout the Laboratory for emergency use.

Chlorine (which is poisonous) is used in the foundry and, since the gaseous chemical element corrodes metal, a Scott air-pac is kept on hand for use in repairing the system or shutting it down in case there is a leak in a connection. On a recent occasion it took two men slightly more than two minutes to get the air-pac out of the suitcase and correctly fitted on one of the men.

Charles Riley of Pattern and Foundry Section 4221-4 thought this was too much time in an emergency. He talked over the problem with Alexander Jack of Environmental Health Division 3311 and B. C. McKay, supervisor of his section. As a result of the discussion, the pattern shop made a special wall-mounted cabinet to hold the air-pac. The mask is there to be grabbed first; the shoulder harness straps are ready to slip into; the bottle of air (which weighs about 28 lbs.) is self-supported until needed.

The foundry timed A. E. Hall, 4221 division supervisor, for his first try in getting into the rig—20 seconds flat.

The men are still working on changes, but plans call for additional cabinets to be made for this particular use. Mr. Jack said, "This development is important because it shows ingenuity on the part of employees using emergency equipment. The manufacturer of the mask has also shown interest in the cabinet."



A. E. HALL shows how the air-pac container, mask, and valve are mounted in the opened wall-hung box, then demonstrates how rapidly he can get into the safety gear.

## A quiz

# Know Your Fringe . . .

Sandia Corporation employees receive "something more than pay"—fringe benefits. Many of these benefits are well known. Everyone is aware of the vacation plan, sick leave benefits, insurance plans, and many others. Some of the benefits are not as prominent, but are nevertheless important. Some of these, such as disability pay, may never be received directly by most individuals. Yet, they are important for overall protection. All in all, the benefits provide protection, security, and pleasure for Sandians and their families. Sandians contribute to some of them. How much do you know about the total benefits package and its worth to you?

How about trying to answer the questions below? (You will find the answers elsewhere on this page.)

1. Employees accrue sick leave absence at the rate of one and one-half days per month. An employee with maximum sickness absence benefits can receive full pay for how many weeks of absence due to a major illness?  
.....35 .....20 .....25.

2. Sick leave pay for the average Corporation employee cost a total of about \$..... last year?  
.....\$105 .....\$115 .....\$125

3. About how many people (employees plus dependents) are covered under the Health Care Plan?  
.....18,000 .....21,000 .....24,000

4. In 1963, the Health Care Plan paid a total of \$..... toward Health Care expenses of enrolled members?  
.....\$860,000 .....\$1,098,500 .....\$988,000

5. How many benefits payments were made in 1963 under the Health Care Plan?  
.....11,067 .....8,521 .....12,350

6. Currently employees contribute 3.625% of their first \$4800 of income each year to Social Security. The Company contributes an additional sum which amounts to what percentage of the employee's first \$4800 of income?  
.....2.58% .....3.85% .....3.625%

7. Employees are paid for time involved in voting and court attendance, and receive a differential allowance for military duty and election duty. The average Sandian received about how much

in pay for time spent in such activities last year?  
.....\$65 .....\$80 .....\$85

8. An employee enrolled in the Retirement Income Plan for 35 years, who has received an annual salary of \$6,000 and who retires at age 65, will receive about how much per month from the Plan for the rest of his life?  
.....\$228 .....\$236 .....\$262

9. About how many persons had Health Care claims in excess of \$500 in 1963?  
.....204 .....112 .....188

10. An employee retires at age 65. During his employment at Sandia, he contributed \$3,600 to the Retirement Income Plan and is now receiving retirement income from the Sandia Plan of \$1,200 per year. About how much is the total expected annuity worth?  
.....\$15,000 .....\$12,000 .....\$18,000



Nettie Windsor (4432)

## 7300-I Goes Through Volleyball League Season Undefeated

Team 7300-I walked undefeated through league play to earn the championship of the Sandia Laboratory Employees Volleyball Association. After downing 1500-I four straight in the finals, 7300-I went on to play in the Intra-Base All Star Tournament. Defeated in finals against Kirtland AFB, the Sandia team placed second.

The champs are R. M. Workhoven (7323), D. W. Bauder (7311), J. V. Otts (7324), W. R. Kampfe (7323), R. L. Peabody (7324), W. V. Hoffman (7323), and H. J. Blechinger (7323).

Members of the 1500-I team, which took the Redbird league with an eight-won, one-lost record, are V. J. Roh (1532), G. O. Moe (1532), D. E. Hightower (1522), J. V. Willems (7254), J. J. Lang (1543), J. T. Black (1542), W. T. Holmes (1541), R. L. Flury (1542), and H. E. Morris (1531).

## Midwest Retirement Projects Not Connected With Bell System

Western Electric and other Bell System companies have no connection with two organizations in the Midwest which are attempting to recruit members from telephone people across the nation.

According to press reports, an organization in Madison, Wis., "The National Telephone Employees Home Club, Inc.," has taken an option on 1600 acres of land near Cassville, Wis., which it says it plans to develop into a recreational center for active and retired employees of the telephone industry.

In Illinois, an organization called "The Rural Retirement and Development Foundation" is attempting to interest telephone people in a "Telephone Employees Country Club," which it proposes to develop west of Joliet, on land presently owned by the federal government.

**Benefits Quiz Answers:**  
1. 25; 2. \$115; 3. 24,000; 4. \$1,098,500; 5. 11,067; 6. 3.625%; 7. \$80; 8. \$262; 9. 188; 10. \$15,000.

## Take a Memo, Please

Show good safety sense by being alert to your surroundings as well as to the job at hand.

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JUNE 5, 1964

**SANDIA CORPORATION**  
**LAB NEWS**



ALBUQUERQUE, NEW MEXICO • LIVERMORE, CALIFORNIA

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## There's No End to Care Given Sandia's Precious Metal Stock

In an obscure corner of Bldg. 894, in an anonymous-looking but thoroughly locked and monitored storage vault, lies a small store of gold, silver, platinum, and a dozen-odd other precious materials. They're being used at Sandia for a variety of special scientific jobs.

The materials are handled by Storage and Stock Section B, 4611-4, where they're the exclusive charge of Dorothy Washburn of Sandia's Precious Material Records Accountability Station. She processes orders for precious materials received from various laboratory users, and keeps accountability records for the stock of such materials being kept at Sandia.

Orders for precious materials require written authorization by the requestor's department manager. "The materials are most often shipped by rail," Dorothy explains. "Each accountability station must sign for the material, but the package isn't opened until it reaches us."

The material is carefully counted on its arrival at Sandia. It's weighed by stockkeeper Jim French (4611) on a massive analytical balance located in the storage vault before being passed on to the requestor. Occasionally, after the material has been used, it's returned to Section 4611-4, in which case, it's again carefully weighed. While in use, it's accounted for by the using organization. Periodic and frequent inventories are conducted to assure that the stocks of precious materials are in control.

Once it reaches Sandia, the precious

material is put to work in numerous ways. Anodes of platinum, silver, and gold are used by Sandia's plating shops and printed circuitry sections. Crucibles, mesh, and wire made of precious metals are used throughout the laboratory. Special items like platinum thermocouple wires are often needed on short notice by Sandia's environmental testing laboratories and others. Delicate foils and discs of pure gold are used by Sandia's research scientists. And materials such as boron-10 and hafnium are used by the reactor groups.

Much of the precious material is used in the form of laboratory ware: crucibles, beakers, tubing, and wire. Nearly all of the precious materials are metals: gallium, gold, iridium, osmium, palladium, platinum, rhodium, and silver. Beryllium, hafnium, and zirconium are the special reactor materials.

The largest share of precious materials is ordered from outside suppliers. "We keep certain items—especially those needed quickly—in stock," Dorothy points out. "Other material, everything from platinum mesh to iridium needles, is ordered."

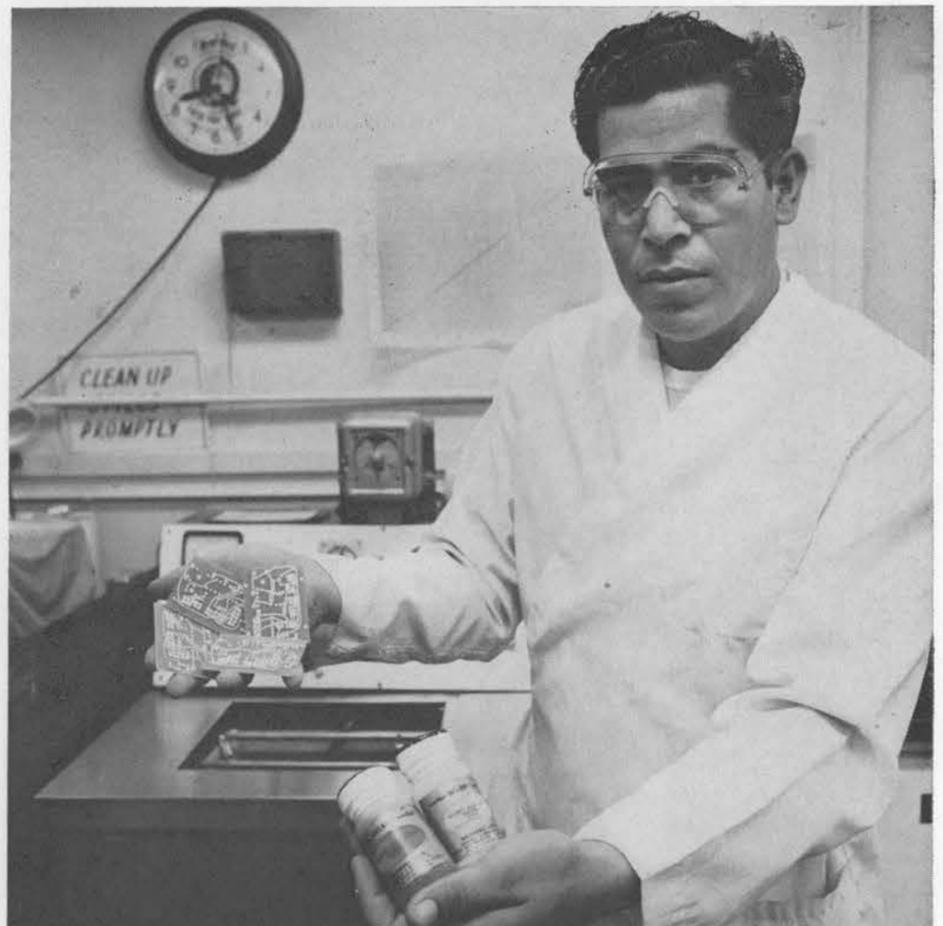
The materials are precious only in a relative sense. "The Atomic Energy Commission determines which materials are in the 'precious' category," Dorothy concludes. "But monetary value isn't a primary consideration. It's mainly a matter of government control of the material." At Sandia, the value of the materials lies in their usefulness in performing certain scientific jobs.



PRECIOUS MATERIALS are put to a variety of scientific uses at Sandia Laboratory. Some of the materials, in the form of precious metal alloys, are used for brazing purposes. Mayme Brunacini (4233) prepares tiny coil of gold-silver-copper brazing alloy.

PRINTED CIRCUITS are prepared for special purposes at Sandia by electroplating gold on fiberglass substrates. Gold has desirable corrosion resistance, qualities of solderability not found in other metals. Richard Chavez (4233) holds small gold printed circuit boards in his right hand, bottles of gold replenishing solution in his left. Solution is used to replenish the electroplating bath.

ANALYTICAL SCALES are used by Stockkeeper Jim French (4611) to weigh platinum crucibles (on left pan), bars of silver (foreground), small bars of gold (he's holding one), and other materials in vault of Precious Materials Accountability Station, Section 4611-4.



## Radiation Protection Standards Posted for Sandia Employees

New copies of the Atomic Energy Commission's "Radiation Protection Standards" were posted in various areas of Sandia and Livermore Laboratories this month. No new information was contained in the posting—radiation exposure standards have long been known and observed in AEC installations. The posting was another reminder of the continuing concern for the health of people employed in radiation-related work.

The AEC maximum recommended dosage for radiation exposure for "occupational" workers such as Sandia personnel to the whole body, head and trunk, lens of the eye, and active blood-forming organs is three REM for any 13 consecutive week period and an average of five REM per

year.

A REM is a unit of radiation measurement. Three REM would be an amount about equal to 100 chest X-rays at a typical hospital. (X-ray machines differ.)

Film badges worn by Sandia personnel near radiation environments provide an accurate way to measure radiation exposure. The badges are developed at least every four weeks by the Health Physics organization. The optical density of the film after development indicates the radiation exposure. Neutron radiation records as small dark tracks on the film.

A cumulative total of radiation exposure is maintained for each employee.

In addition to the whole body radiation standards, surface radiation exposure

standards are set by the AEC. Radiation from external sources to the skin of the whole body or thyroid should not exceed an average of 10 REM per year. Radiation from external sources to the hands, forearms, feet, and ankles should not exceed 25 REM in any 13 consecutive weeks or 75 REM per year.

Formula for computing total cumulative radiation exposure is  $5(N-18)$  REM, where N is the age of the individual. In other words, a person who is 35 would have a limit of 85 REM as a cumulative total of radiation exposure.

Any employee will be notified immediately of any radiation exposure which exceeds the limits specified by the AEC standards. Any employee will be advised, upon writ-

ten request, of his occupational radiation exposure as indicated in the exposure record.

Inquiries should be addressed through a supervisor to Health Physics Division 3312 at Sandia Laboratory and Environmental Health Section 8242-2 at Livermore.

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LAB NEWS

JUNE 5, 1964

# New Company-Wide Alerting System Passes First Test

The insistent ringing of 379 telephones throughout Sandia Laboratory on May 26 at 9 a.m. marked the first widespread testing of the new Group Alerting and Dispatching System.

This initial test originated in the office of Sandia's top management. Other dispatching centers are in Patrol Division Headquarters, and in the Area III Administration office.

The system provides an immediate way to transmit simultaneously by regular telephone instruments any information of high importance or instructions concerning local emergencies.

"We're very pleased with the system," said George O. Thorne, the Emergency Planning Coordinator (3245). "It means we can alert everyone throughout this extensive laboratory complex of buildings. It should be a very reassuring thing to everyone."

As a result of the initial test, several changes are being made. The "on-off" ring is being speeded up to sound more staccato and distinctive. The procedure for the dispatcher is being modified so that the message is on the line immediately rather than delayed a few seconds. Helping coordinate the test were W. C. Garcia, H. E. Thomas (both 3244), W. T. Huntsman, and N. W. Scott (both 3243).

A maximum of 480 lines can be tied into the system and it is wired so that any one or any combination of the following groups can be alerted: Large and Small Staff; Department Managers; Areas I and II (all buildings); Area III, V, Coyote Test Field (all buildings including those in the Lovelace Areas and the USC&GS Seismology Laboratory); Emergency Force, and Security Force (guard headquarters and all gates and posts).

The system was developed through Emergency Planning Section 3245-1 (J. N. Timmons, and his successor, Mr. Thorne), and represents considerable co-

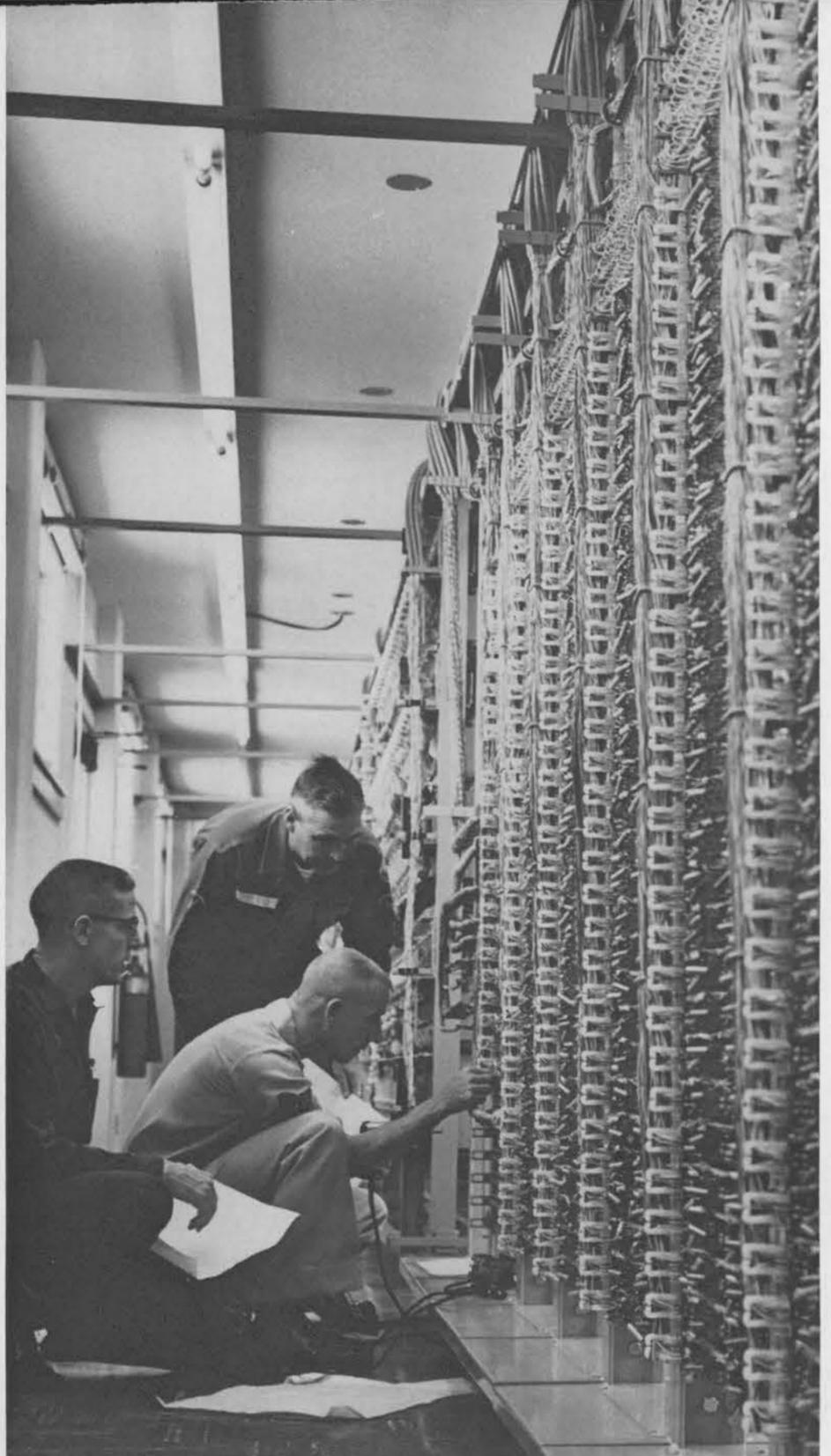


THE FIRST laboratory-wide testing of Sandia's Group Alerting and Dispatching System originated from the president's office with Rosalie Crawford giving the message.

operation between Sandia Corporation and the Sandia Base Signal Corps.

R. O. Samuels, Signal Corps central office foreman, noted, "At the time negotiations were begun for this system, the only existing similar arrangement was at SAC headquarters in Omaha. The principal advantage of this system over other types is that separate or additional telephones are not required." The system took existing personnel in the Signal Corps office five months to install and wire.

"We tried to allow for any type of technical failure or difficulty which might be



BASE SIGNAL CORPS men (l to r) Roy W. Lasswell, T/Sgt. Carl Carper, and SP5 J. S. Kirkland were responsible for most of the wiring and installation of Sandia Laboratory's new Alerting/Dispatching System.

encountered while dispatching a message," Mr. Thorne said.

Some buildings already have intercom or public address systems. These systems would be inoperable during a power failure. This was one of the considerations in deciding to cover all buildings by telephone. In case of a power failure, the Signal Corps center maintains dry cell batteries which immediately take over until a diesel-powered emergency system is in operation (a matter of seconds).

Each master control at the three dispatching centers has regular and alternate wiring.

At the present time, if a telephone line is in use when the Group Alerting and Dispatching System goes into operation, the special ring is heard only after the present call is terminated. After a future modification, the distinctive ring would be heard over the conversation.

"We feel that the Corporation areas in Albuquerque are well covered, including at least one telephone in special test facility buildings which are occupied only for short periods of time," Mr. Thorne said.

One thing of importance to the system is that key phone personnel notify the Emergency Planning Coordinator if there is any change in location or number of a telephone tied into the system.

REPLIES RECEIVED from 379 key Sandia Laboratory personnel as a result of the recent Group Alerting and Testing System trial are carefully gone over by Emergency Planning Coordinator George Thorne (3245-1), left, and H. M. Willis, supervisor of Security Standards and Operations Dept.

## AEC Announces Two Construction Jobs for Sandia

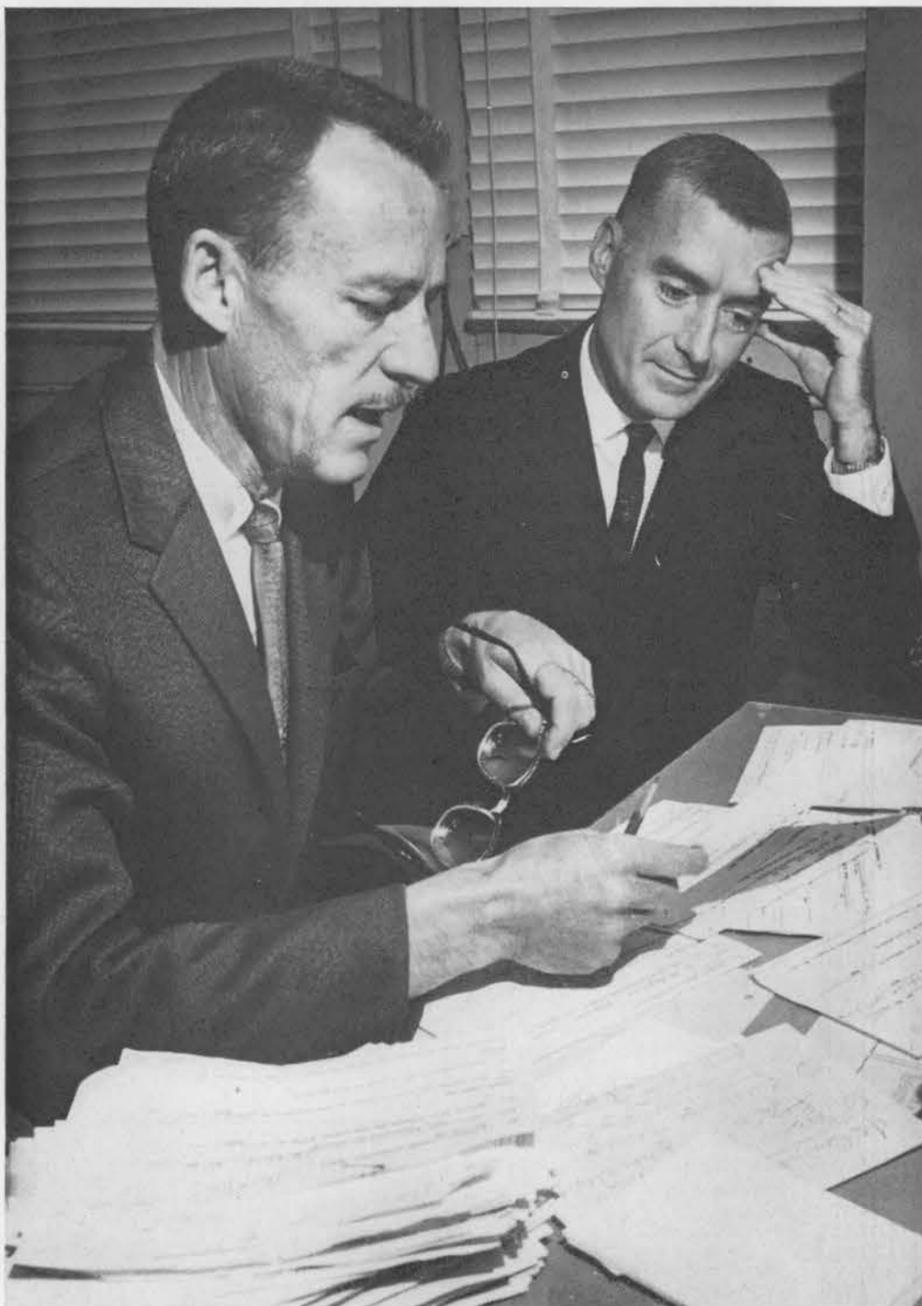
A remodeled cafeteria in Sandia Laboratory's Tech Area I will be constructed soon, according to an announcement by the AEC. Bids will be invited this week to modify the Bldg. 839 employee cafeteria. A 700-sq.-ft. addition to the building will provide an entrance lounge and rest rooms. The interior will be completely remodeled in a modern design.

Temporary facilities will be provided for lunches during the period of construction.

Bids are scheduled to be opened June 30. The work, set aside for small business firms, is to be completed within 90 days after the contractor is advised to proceed by the AEC. Plant Engineering project engineer is Frank Scheer (4543).

Apparent low bidder for a second project at Sandia Laboratory was also announced last week by the AEC. Styron Construction Company of Albuquerque is the apparent low bidder to construct a radiation-measurement laboratory in Sandia's Reactor Area V. Work includes demolition of an existing concrete slab and construction of an 800-sq.-ft. masonry wall building complete with heating, air conditioning, plumbing, electrical services, and utility connections.

Work is to be complete within 90 days after the contractor is notified to proceed. Mr. Scheer is the Plant Engineering Department project engineer.



## Guard Force 'Shapes-Up' After Full Year of Physical Training

How would you like to lose 21 lbs.? Grow one in. in height? Increase your chest measurement by three and three-fourths in.? Lose five and one-fourth in. from around your waist?

Regular exercise is the answer. The above records were set by Sandia Laboratory security inspectors after a year of off-duty physical fitness training program.

Since last June, the Security Department has provided a continuous physical conditioning program geared to the individual participants and their progress. Progressive calisthenics, weight lifting, and activities such as swimming were part of the program.

On the average, the inspectors lost eight and one-half lbs., gained three-tenths in. in height, added four-tenths in. to their chests and lost one and one-half in. around the waist. At the beginning, the group average for pushups was 10. At the end of a year, the group average is 21. These figures represent just one of the activities that went into an overall physical fitness rating. This rating started at 15 and increased to 71 by the end of the year.

Sgt. John Ethridge set the weight loss record. He took off 21 lbs. Inspector Noel Kent "grew" one in. in height, which he

attributes to better posture. Del Giles added three and three-fourths in. to his chest measurement, and Dave Sanchez lost five and one-fourth in. from around the waist.

Fifty-five Security personnel now participate in the program regularly, putting in at least two hours per week. Others work out at the Sandia Base gym on a less regular schedule.

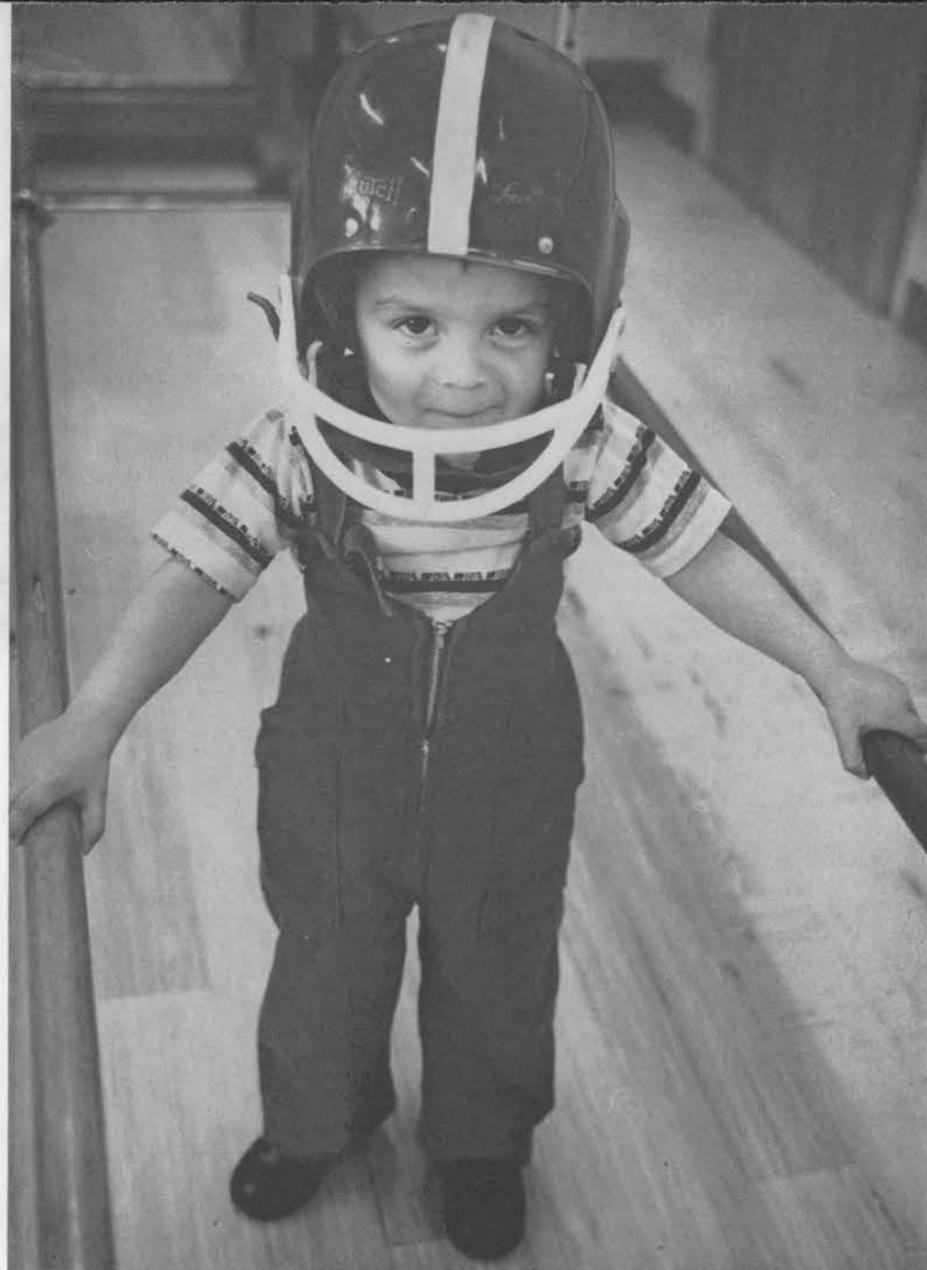
The program was developed by Walt Troy of Security Standards Division 3243. Frank Treon (3432) is the physical training instructor.

### Wendell Nelson Medalist In Memorial Day Tourney

Medalist of the Sandia Laboratory Employees Golf Association Memorial Day Tournament was Wendell Nelson (4137). His score of 75 beat 126 participants, largest ever entered for a SEGA tourney. E. H. Copeland (7331) was the low net winner with a 63 after handicap.

Next tournament of the Association is the annual Fred J. Given Memorial to be played June 20 on the University of New Mexico course.

SMALL PATIENT at the New Mexico Rehabilitation Center enjoys a protective helmet purchased with Employees Contribution Plan reserve funds. The 1963 reserve fund of \$1676 was distributed last December among nine agencies with special needs. Of the total, \$466 went to the Rehab Center to buy helmets, parallel bars, shower chairs, and other equipment.



### Sandia Speakers

Following is a list of speakers, titles, and places of presentation for recent talks by members of Sandia Corporation.

D. E. Munson (1124), "Dynamic Stress-Strain Behavior of Metals," local chapter, American Society for Metals, May 6, Los Alamos.

R. E. Stewart (2564), "Improving Supplier Performance," American Society for Quality Control Conference, June 12, New York City.

R. A. Hill (5153), "Isotope Effects in Hydrogen Selenide," Molecular Spectroscopy Symposium, June 15-19, Columbus, O. The co-author is T. H. Edwards of Michigan State University.

J. W. Guthrie (1413), "Mass Spectrographic Analysis of Rare Earth Metals," American Society for Testing Materials, Committee E-14's Twelfth Annual Conference on Mass Spectrometry and Allied Topics, June 7-12, Montreal, Canada.

G. V. Lemmon (7311), "Development of Two Pure Fluid Timers," Fluid Amplification Symposium, May 26-28, Washington, D.C.

A. D. Swain (1443), "The State of the Art in Human Factors Reliability Techniques," Fifth National Symposium on Human Factors in Electronics, May 5, San Diego, Calif.

W. A. Doyle (3151), "Sandia Corporation, Its Work and Its Opportunities," student chapter of American Society of Tool and Manufacturing Engineers, Arizona State University, May 5, Tempe, Ariz.

R. E. Hopper (4500), "Updating the Maintenance Department at Sandia Corporation," meeting of Plant Engineers of Integrated AEC Contractors, May 4-5, Tampa, Fla.

S. E. Whitcomb (5136), "Atomic Energy," Ernie Pyle Junior High, May 14.

D. J. Jenkins (3130), "Management Know-How for Engineers, Scientists, and Professional Personnel," American Management Association Seminar, May 18-20, New York City.

J. R. Garcia (3133), "Volunteer Efforts in Community Planning and Action," Albuquerque Community Council, May 21.

T. L. Beckley (8212), "Preparing Yourself for Industry," students of design arts and industry at San Francisco State College, May 21.

### AEC Chairman Speaks . . .

## 'Brainpower--Precious Natural Resource'

Recently, Dr. Glenn T. Seaborg, Chairman of the U. S. Atomic Energy Commission, participated in ceremonies launching a television program "Science All Stars." This program, which features teen-age scientists, prompted Dr. Seaborg to make the following remarks on young people and careers in science.

Many scientists enter their chosen fields because of some spark that was struck in them early in their lives. For example, I am a chemist today, largely through the influence of an inspiring high school teacher, and I know of many other instances of the same nature. For this reason, what happens to the potential scientist in his formative years is most important.

We know of men who have gone on to significant accomplishments as a result of an early interest. What we do not know is how many potential Einsteins or Fermis or Lawrences may have been lost to the world because there were no favorable circumstances to lead them into the paths of scientific achievement.

There have been considerable improvements in the teaching of science and mathematics in the high schools in recent years, but much remains to be done. Curricula still are in need of improvement to take into account the great advances in knowledge over the last decade or so.

In too many instances, courses such as chemistry, biology and general science are taught by people without college degrees in science. There still is little incentive for able and well-trained persons to teach science in the high school, since the status and monetary rewards of such a career are small compared to those of other fields you can enter.

The late President Kennedy in his speech at the Centennial celebration of the National Academy of Sciences made an eloquent case for the need of our country to foster pure science. It has become quite obvious that modern scientific developments warrant large expenditures of money. We now know that the search for new knowledge, if not restricted to subjects of

foreseeable and immediate practical importance, results in an unexpected increase in our understanding of physical or biological phenomena.

These increases, in turn, give rise to far-reaching practical applications which could not have been anticipated from the original basic research. Our scientific knowledge and technology are advancing at an explosive rate. The time lag between the discovery of a fundamentally new scientific principle and its application in engineering or medicine is now very short, and these rapid developments are changing the lives of all of us in many ways which we only dimly perceive.

An equally basic requirement for scientists and technological growth is an adequate number of able scientists to supply new ideas and to direct them along fruitful lines of research. Money alone will not produce scientific excellence; our progress depends on a relatively small number of creative and persistent people. We cannot afford to lose the talents of any such person through lack of proper educational opportunities.

There is another requirement that, in our democratic society, is perhaps as important as the training of scientists and engineers. This is the need for increasing the non-scientist's understanding of the basic principles and purposes of science.

As I have said before, we are in the midst of a Third Revolution—the Scientific Revolution—which will have as profound effects on our lives as the American Revolution which laid the foundations for our Nation, and the Industrial Revolution which made it a world power. Increasingly, our important national decisions are based on scientific considerations. If our Nation is to continue to operate successfully as a democracy, the voting public must have some basic understanding of what science is about.

Therefore, we need the scientific education given to the great majority of students who will become scientists, as well as that given those who will undertake scientific or engineering careers. Courses directed specifically to this end should become part of the college and university curricula throughout the Nation.

Available studies indicate that there will be an increasing shortage of scientists and engineers unless careers in science are made more attractive to the young people now in our high schools and elementary schools. Various things can be done to achieve this objective.

For one thing, we can show by our attitudes that we recognize and value the work of the scientist and engineer. I suspect that today a good football player still has considerably more status in school than the good science student. I don't mean to imply that I am anti-football, because I am not, but I do feel that scientific excellence should be valued at least as much as athletic excellence. Similarly, the high school teacher should be respected and honored as one who makes a really valuable contribution to our society.

As I have stated, we need further improvement in the science curricula, both for those students who are potential scientists and those who will enter other fields. We need to find ways to fire able students with enthusiasm for scientific endeavor early in their lives, rather than making them feel that science and mathematics courses are drudgery. And we need to find ways to keep more able students—both in the sciences and in other fields—in the high schools and colleges so that they will not add to the already-alarming number of half-trained and "drop-outs."

We live in an age in which for better or worse, the influence of science is pervasive and revolutionary. It is a part of our culture which is shaping nearly every aspect of our lives and our institutions. Properly nurtured and employed, science can provide us with marvelous tools for the solution of many of the weighty problems of our physical and social world. Because of our growing and inescapable dependence on modern science and technology for our defense, our national growth, our economic well-being and social freedoms, we must regard trained brainpower as a precious natural resource and carefully nurture it. The promise of the future lies in the hands of the dedicated and the educated.

## Supervisory Appointments



**GEORGE V. PORTER, JR.**, to supervisor of University Relations Division 3134, Personnel Research, Training and Education Department.

George has been at Sandia since November 1956 and has worked in supervisory training and university relations functions the majority of the time. He was assigned to Benefits and Services Division 3122 for a year and a half. In May 1958 he was promoted to section supervisor.

His previous experience includes seven years as a mathematics instructor and football coach at the U.S. Military Academy at West Point and eight years in similar capacity at a Colorado Springs (Colo.) high school.

George has a Bachelor's degree in math from the University of Nebraska and a Master's degree in education from Columbia University.

He served eight years in the Army infantry.



**JOHN M. BRIERY**, to supervisor of Materials Application Division 8115, Livermore Laboratory.

Jack has been engaged in work on organic materials since coming to Sandia at Livermore in December 1959.

He was promoted to section supervisor in 1962.

Before joining Sandia, he was professor of chemistry at McNeese State College, Lake Charles, La., for six years. He also taught chemistry for two years at Southeast Missouri State College, Cape Girardeau, Mo.

Jack received his BS degree from Cornell College, Mt. Vernon, Ia., in 1947; his MS degree in chemistry from the University of Iowa in 1948; and was awarded his PhD in chemistry from Iowa State University in 1953.

Jack served two and a half years in the Marine Corps during World War II.

He is a member of Sigma Xi and Phi Lambda Upsilon, honorary societies.

PRESENTATION of project team results by participants of Sandia's first Value Engineering Education Program was made to a group of Sandia management personnel on May 15. Elmer Devor, supervisor of Product Data Division 2563, introduced speakers from the teams during the presentations, and explained Value Engineering concepts. Slogans typify progress barriers to new techniques and emphasize need for exercising good human relations.



## Take Note . . .

Stan Harvey (4151) was awarded a "Certificate of Service" by the Albuquerque chapter of the National Association of Accountants on May 21 in appreciation for his work on the organization.

The presentation was made during a dinner meeting attended by some 70 members.

Stan has served as director of attendance and chairman of the special activities committee, and has been outstanding in recruiting new members for the organization.

Members of the local chapter of the National Defense Transportation Association elected Jack R. Spence, supervisor of Traffic Division 4335, president for the coming term during a meeting May 26. Travel reservations clerk Doreen Westfall (also 4335) was appointed secretary and treasurer.

All natives and former residents of Pennsylvania take note:

First annual "Pennsylvania Day Reunion" is scheduled Saturday, June 14, at the Fraternal Order of Police Park, 2800 Decker Road. Activities will get underway at 9 a.m. and continue until sundown. A family picnic, swimming, baseball, horseshoes, and other recreation are planned, according to John Sarkis (4412), member of the planning committee. Additional information is available from John, tel. 264-7364.

Members of the Sandia Archers organization will participate in the 1964 National Industrial Recreation Association Archery Tournament, to be held Aug. 2-Sept. 5. Each participant will shoot a total of 80 arrows weekly at the archery range located east of KAFB.

The Archers are seeking new members, and offer a program of training, tournament competition, and hunting. Further information is available from A. D. Swain (1443), tel. 265-0098.

The New Mexico Eye Bank, sponsored by the Albuquerque Lions' Club, is seeking amateur radio operators who will participate on a volunteer basis in the Bank's communications network. Amateurs who volunteer should be familiar with single-side-band operations in the 40-80 meter bands. Volunteers should contact Carl Franz (1321), tel. 299-7773.

Dorothy Capes (5320) and Paul O'Brien (5332) earned trophies as the top pair in a recent Open Pairs Bridge Tournament of the Sandia Laboratory Employees Bridge Association. Twenty-four pairs competed for the Laboratory crown. The tournament was played May 14 and May 21 at the Coronado Club.



CHAMPS — Winners of the 1964 Laboratory-wide table tennis doubles tournament admire their trophies. Eugene Chavez (7332), left, and Ernie Hurele (7332) emerged tops out of 350 participants. They defeated T. A. Kelly (1551) and H. E. Morris (1531) in final playoffs.

## Service Awards

### 15 Year Pins



L. H. Stradford  
1552  
June 3, 1949



Willie B. Baca  
4623  
June 6, 1949



Howard H. Cole  
8124  
June 9, 1949



Alfredo Trujillo  
4575  
June 10, 1949



Malcolm H. Groll  
4151  
June 13, 1949



K. E. Weidner  
2113  
June 13, 1949



W. H. Reese  
4232  
June 15, 1949



W. P. Thomas  
2542  
June 15, 1949



C. L. Johnson  
2123  
June 17, 1949



Bonnie H. Lyke  
2111  
June 17, 1949

## Retiring . . .



Henry Carrejo, a Sandia employee for 12 years, retired the end of May. He worked in the Processing Salvage Division before going on leave of absence (due to illness) a year ago.

The Carrejos have 13 children and 24 grandchildren living in New Mexico, California, Oklahoma, and Arizona. One son and a daughter live at home. The family home is on two and a half acres of land in Los Chaves (north of Belen). Mr. Carrejo plans to raise some calves. He already has fruit trees and a garden.

"I'm also going to try fishing," he said. "I've never been before."

His mailing address is Route 1, Box 271, Belen, N. M.

## Welcome Newcomers

May 18-29

Albuquerque	
*Ann D. Eaves	4342
Evelyn Sue Mordka	5426
Edward P. Sanchez	4574
Juan B. Serrano	4574
California	
John C. Culbertson, San Diego	7243
Illinois	
George C. Emkes, Chicago	1314
Missouri	
Howard E. Gipson, Kansas City	7221
Oklahoma	
James R. McCaskill, Tulsa	4370
Virginia	
Wesley N. Turner, Norfolk	2135
Temporary Summer Hires	
*Arthur V. Houghton, Albuquerque	1112
Murphy J. Landry, Las Cruces, N.M.	7435
*Ronald P. Miller, Tucson, Ariz.	7624
Gerald R. Weiss, Ann Arbor, Mich.	7420
*Denotes rehired	

## 10 Year Pins

June 6 - 19

John G. Wimpling 2341, Eric R. Steinig 4412, Richard L. Shaum 7222, Richard G. Jones 2132, Eugene F. Schroeder 1431, Pablo J. Garcia 4613, Wilber G. Grisham 2311, Edward G. Latimer 2341, Martin K. Rhoads 2341, Sherrill O. Woodall 4111, Nick J. Kasnic 4224, G. H. Bradley, Jr. 2113, and Paul A. Chavez 4253.

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LAB NEWS

JUNE 5, 1964

# Child Poisoner Found in Nearly Every American Home

A common medicinal product which can be found in almost every home in the United States poisoned more than 100,000 children last year, killed 144, and is only one of 250,000 potential poisons easily available from neighborhood stores, according to a folder on childhood poisoning just published by the Children's Hospital Medical Center in Boston.

"How to Prevent Childhood Poisoning . . . a New Approach" claims that aspirin is "by far the most common poison—responsible for 100,000 childhood poisonings in the U.S.A. each year."

A bottle of 50 baby aspirins can kill a two-year-old, as can a lesser amount of adult aspirins, according to the folder which was written under supervision of pediatricians at the famed institution for child care.

The high incident rate of poisoning of children by baby aspirin is explained by the fact that such aspirin is candy flavored, and that many parents in getting their toddlers to take an aspirin refer to it as a "candy." Children not only will eat it if it is lying around, the folder says, but will search it out on high shelves or in medicine cabinets.

The folder also calls special attention to the inherent dangers of lead paint and boric acid.

"Lead paint tastes like candy and is poisonous if swallowed in small doses over a long period," the folder says. "Poisoning occurs because children chew on window

sills or other painted areas. If your child 'chews on everything,' check with your doctor because lead poisoning must be treated before any symptoms appear," it warns.

The folder disputes a long-believed theory that boric acid is useful in treating diaper rash, as an eye wash, etc.

"Boric acid is not the best treatment for diaper rash or any common ailment," the folder says. "Poisoning occurs because it is mistaken for a baby's formula mix, or used to treat diaper rash. Do not keep boric acid in the house."

An important point made by the doctors at Children's Hospital is that toddlers will eat or drink anything, without regard to the taste. Mouthing, the child-care specialists explain, is part of a child's normal growth and a way of learning about things.

The folder was produced with the intent of preventing poison accidents before they occur, and lists 50 common household products which can be poisonous to children.

Modeled after the highly successful "Accident Handbook" which was produced by Children's Hospital last year, the new "Childhood Poisoning" folder stresses that poison accidents—like those of other types—occur at times of family or individual stress.

The folder is available from the Department of Health Education, The Children's Hospital Medical Center, 300 Longwood Avenue, Boston 15, at a cost of \$.10 each to cover handling.



BILL GARCIA (3244) discusses "The Black Lady," story of the U-2, at a recent meeting of the Free-Lance Orators. The group meets every Thursday during the noon hour in room 125 of Bldg. 836. Clem Gragg (1522) will discuss "The Most Misunderstood Textbook" June 11 and Bertha Grant (2563) will report on "Oral Magic" June 18. Anyone interested in improving his public speaking is welcome to attend.

## Death



Robert D. Brammer, a Sandia employee for 13 years, died May 16. He was 39.

Mr. Brammer worked in Electronics Division 4231.

Survivors include his widow, his parents, and a sister, all residing in Albuquerque, and a brother in Middleton, Ohio.

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LAB NEWS  
JUNE 5, 1964

### 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
8. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

#### FOR SALE

- HEATH HI-FI system: chairside enclosure, 20 watt amplifier, preamplifier, FM tuner, Garrard four-speed changer, speaker w/enclosure, \$100, terms. Bear, 298-2744.
- WOODEN screen door, 3' x 6'8", with metal grille and hardware, \$5. Fisher, 265-0626.
- '64 CHEVROLET Impala convertible, all power, AC, 8000 miles, bank finance—\$3,218, make offer on down payment. Lipinski, 247-9668.
- UPRIGHT piano, \$125. Trujillo, 817 So. Edith, CH 3-7413.
- TRAILER hitch for 1961-62 Buick Special, Olds F85, or Pontiac Tempest, \$8. Reed, 299-7425.
- 2-FAMILY home, southeast area, rent half for \$95, loads parking, \$6500 equity for \$4700, assume \$14,183 (or trade). Hole, 3518 Crest SE, AM 8-3240.
- '56 MERCURY 2-dr. hardtop, engine and trans. worth asking price, \$110. Moculesski, 256-7609.
- BY OWNER, 3-bdr., AC, walled yard, carpets throughout, built-ins, near bases, low downpayment. Smith, 299-1665 after 5.
- SHOTGUN, Ithaca featherlight, 16 gauge model. Curzi, 299-6896.
- MAGNAVOX FM-AM table radio. Harrison, AL 6-0216.
- OXYGEN gauge with humidifier and oxygen tank cart, \$67; low Simons hospital bed, \$85; commode chair, \$20. Brammer, 268-9606.
- GIRL'S 24" coaster brake bicycle, \$25. Mattina, 1808 Blume NE, 299-7060.
- TWO BURNER Coleman camp stove, \$5. Halliday, AL 6-6685.
- POODLE puppies, miniature, AKC registered, black or silver, \$110. Ingram, 299-6194.
- '56 LINCOLN Premier, lt. brown & white, PW, PB, PS, factory air; 1960 Valiant. Terms. Jockle, CH 2-3740 after 5:30.
- REFRIGERATOR w/large freezer compartment; gas range; plywood wardrobe. Schultheis, 268-0573.
- UMBRELLA tent, 9 ft. x 11 ft., Sears, \$25. Allen, AX 9-9075.
- 400 NEW bricks (simulated used brick). You pick up \$12, I deliver, \$16. Wilson, 282-3225.
- '59 FORD, cheap, 4-dr. Morgan, 256-7994.
- MAGNAVOX Console phonograph, removable legs, blond finish, Collara 3-speed changer, \$50. Betz, 264-2864.
- BUNDY B-flat clarinet, \$50; children's play house, \$40. Marsh, 243-2767.

- ADULT Scout uniform, size 15 shirt, 29/32 trousers, hat, make offer. Adjustable dressmaker's form, \$8. Lewis, 299-7217.
- KENMORE automatic washer, 1957, new drive gears, pump, and filter, \$35. Can deliver if needed. Northrup, 877-1591.
- TAN VINYL bolster back couch, armless, \$18. Hart, AL 6-2811.
- FREE: three kittens, mother cat to family who will give them a good home. Kittens are six weeks old. Frauenglass, 345-0119.
- TAPE-A-THON tape player, continuous music, 3 3/4 IPS monaural, convertible to 7 1/2 IPS stereo, portable, \$85. Walters, 299-6276.
- BAND SAW, 3 wheels, 12" throat, \$15; Honda motor scooter, 50 cc, 4-cycle engine, one year old, \$250. Hayes, 268-1596.
- '51 SUNBEAM Talbot 90 conv. or parts 1956 Ford HT. Armijo, 852 Riverside SW.
- BY OWNER, 4-bdr. house near schools, LR and hall carpeted, located in Carlisle Plaza. Howell, 299-6296.
- '60 FORD Starliner Superstock, 352 cu. in., 360 hp, 3-speed and overdrive. Kishbaugh, 256-6770 after 5.
- '270 FN, custom presentation stock w/scope mounts, \$125; temporary power pole, FHA inspected w/meter loop and breaker box. Nect, 282-3607.
- '22 RUGER Bearcat revolver, one box of shells and cleaning equipment, \$30. Miller, 298-8598.
- YORK refrigerated air conditioner, room size, \$50; Kelvinator electric range, \$50. Salomon, 299-3558.
- MOSSMAN STARDDUST SKIES 3-bdr., den, sprinklers, landscaping, built-in storage, near schools, patio, occupancy to suit buyer. Mobie, 298-1535.
- MERCEDES '59-220S, black, wsw tires, R&H, AC. Harshman, CH 3-4369.
- GREAT DANE PUPS, nice litter of all-black males and females, one fawn male, champion blood lines, AKC registered. Halt, 299-5943.
- SWING SET, slide, 2 swings, parallel bar, teeter-totter, \$9; swimming pool, 10' x 24" deep, \$6. Weber, 344-5183.
- 1 TON Mitchell refig. air conditioning unit, \$50; 1 pair men's roller skates, size 8 1/2, has case, \$15. Hodges, 256-6875 after 5.
- '62 VOLKSWAGEN CAMPER, complete w/stove, refrigerator, extras, elevator roof, sleeps 6, 53 hp engine. Capaldi, 318 Mesilla NE.
- '59 VW SEDAN, radio, seat belts, new paint, recent engine overhaul. Kidd, 299-0035.
- IMMEDIATE POSSESSION, hobby room 3-bdr, den, LR, fireplace, 1 1/4 bath, many built-ins, patio, bomb shelter, double garage, by owner, \$15,500. O'Nan, AX 9-1803.
- WILSON BASEBALL SHOES, size 10 1/2, \$5; \$14 Nokomis catcher's mitt, \$5; tennis shoes, size 8 1/2, \$1.50; new face protector, \$1.50. Costello, 256-9702.
- '63 DART GT, automatic transmission, guaranteed for 30,000 miles, sell or trade for '56-57 model. Baumgardner, 268-9695.
- TWO-BDR., den, landscaped and walled, near Sandia Base, \$10,500. Williams, 898-1746.
- SHOPSMITH MARK V w/jigsaw, dados, routers, other accessories; 30.06 bolt action rifle; .22 Ruger pistol. Jones, 268-2935.
- AUTO COOLER, 12V, floor type, idler, \$17.50, used one month. Monahan, 299-4081.
- SELL, LEASE, TRADE—4-bdr., 1 1/4 baths, den w/fireplace, dbl. garage, sprinklers, 10820 Cordova NE. Burns, CH 2-2407 after 6.

#### NEXT

## DEADLINE FOR SHOPPING CENTER ADS Friday Noon, June 12

- CAB over camper, \$125. Stronach, 1831 Bridge SW.
- '57 CHEVROLET PICKUP, 4-speed V-8; '62 17' self-contained fan travel trailer, equalizing hitch, other extras, all for \$2300. Hertweck, 299-7793.
- ROTOTILLER, \$50; bedroom set, \$40; dining room table, 4 chairs, \$15; Philippine lawn chairs (3), \$25; baby bed and mattress, \$15. Watt, 298-0595.
- REFRIGERATIVE AIR CONDITIONER, Well-bilt Mighty-Mite, 7 1/2 amp, 115V, 1 hp. 6400 btu, fits casement or double-hung windows. Clark, 299-4819.
- '58 INTERNATIONAL 3/4 ton pickup, 4-wheel drive, low mileage, \$795. Frettem, AX 9-1588.
- 3-BDR HOUSE, AC, carpeting, sprinklers, walled yard, landscaped, SE Heights near Base, \$12,500. See any time. Sanchez, AL 6-1064.
- 15' FIBERGLASS Whitehouse boat, 60hp Mercury, tach, speedometer, spotlights, gas tanks, new windshield and top, trailer w/15" wheels, \$650. Cupp, 299-8724.
- STEEL CASEMENT (opens) and frame window with glass, approx. 56 x 48". Dollahan, 299-8107.
- PUREBRED German shepherd puppies, 8 weeks old, reasonable. Black, 282-3451, Cedar Crest.
- EXACTA Camera, Penta prism and waist level viewer, 35, 50, 135mm lens, extension tubes, \$230. Exa camera body. Denny, AM 8-0004.
- '58 LAMBRETTA motorscooter, \$75. Jackson, 268-9571.
- SINGER 3/4 head straight stitch machine w/cabinet, carrying case and buttonholer, \$70 or best offer. Durgin, 298-3581.
- BOWLING ball, 15 lb., used one season. White, 255-9479.
- LIVING WIG, campaign blonde, carrying case, \$65; Storey & Clark spinet mahogany piano, \$500 or best offer. Foor, AX 8-4980.
- 3-BDR, pitched roof, built-in range & oven, disposal, walled yard. Pay owner equity and take over GI loan, \$61 payments. Oard, 247-9924 after 5:30.
- LADY'S brown bathing suit with matching jacket, size 12, \$10 or trade. Nevin, 298-0383.
- '61 RAMBLER American station wagon, stand. trans., overdrive, AC, new tires. Dyer, 299-5324.
- '57 STUDEBAKER, R&H, automatic V-8 engine, \$275 cash or trade, terms. Villella, 299-6261 early or after 5.
- '63 CHEVROLET Biscayne 4-dr., stand. trans., desert beige, 6800 miles, owner moving east. Halperin, 265-0352.
- '58 CHEVROLET 2-dr., 6 cyl., stand. trans., damaged left fender and windshield, \$175. Stomp, 298-3824 after 5.
- '60 FORD Falcon 4-dr., stand trans., \$450. Prekker, 299-6468.
- BAY WINDOW, prefabricated, 2 ft. high x 4 ft. wide, suitable for mountain cabin or penthouse, make offer. Roberts, 344-3780.
- 3-BDR, 1 1/4 bath, 2-car garage, carpeting, drapes, AC, walled yard on closed circle street, cash to 4 1/4% GI loan or new appraisal. 4901 Goodrich NE. Rosenberger, 344-2563.

- TWO-CUSHION easy chair, \$25; temporary 60-amp electric service equipment, \$15. Judd, 299-6536.
- DACHSHUND, purebred, 8 weeks old, small type, \$25. Wistor, 255-1943.
- MINIATURE poodle, apricot, 4 mo. old, AKC registered, \$35. Arvin, 243-6286.
- ROBERSON 3-bdr. and den, 2-car garage, all built-ins, AC, sprinklers front and back, 1821 June NE. Hare, 299-7137.
- AFGHAN HOUND, striking blond female, one year old, very affectionate. Crosby, 898-0705.
- NORTHWEST district, 3-bdr., den, fireplace, 2-car garage, AC, complete built-ins, dishwasher, 2 baths, carpeting, intercomm, \$1000 below FHA. Johnson, 242-8758.
- CONTAX IIIA, 35mm camera with built-in meter, accessories. Gosset CB rig, Johnson Viking mobile rig, .22 cal. automatic rifle. Laskar, 299-1024.
- 2-PC. sectional, matching chair, green nylon covered flexsteel, \$99.50; upholstered chair w/hassock, \$19.50. Make offer. Woodall, 298-4658 after 5.
- ELECTRO LS 12" speaker and tweeter, \$45; Collara changer, RC440, GE cartridge, \$25; queen-size headboard, box spring, mattress, \$40. Cleveland, 298-3647.
- GE 11 ft. refrigerator, \$80; clarinet, \$75; 3-4' 4-tube fluorescent fixtures, \$35 each; .22 wrf pump 200 rounds ammo, \$37.50; AC, \$40. Scott, 298-1554.
- WASHER-DRIER combination, GE, 3 years old, guaranteed, \$75. Requires 220v. Elliott, AL 6-7909.
- ALUMINUM sports liner for short wheel base and bed Chevrolet or GMC pickup. make offer. Benson 268-5597.
- MODERN HOME, Tijeras canyon, 3-bdr., 1 1/4 bath, acre lot, oversize garage and patio, all appliances, carpet, drapes. Shanka, 299-4002.
- DINING ROOM set, blond, all hardwood, dropleaf table, four chairs, \$40. Rarrick, 299-9371.
- 2200 CFM air conditioner, \$25. Libby, AX 9-0344.
- HALLICRAFTER S-38 shortwave and standard broadcast receiver, \$28; speaker, 8" in enclosure, \$8; advanced calculus text by Kaplan, \$5. McIntire, 298-6145.
- REFRIGERATOR, used last 10 years as freezer, \$25. Steck, 299-2313.
- GUINEA PIGS, two, mature, cage, and food, all for \$2. Cejka, 299-2441.
- TWO ROOMS plus lot and utilities, located at 610 Edith SE. Henderson, 242-7189, after 5.
- 5 ACRES land near Placitas with exclusive privileges, \$750 per acre, 20 per cent down, \$30 month. Stueber, 299-2414.
- PIANO, modified upright w/stool, \$125. Amos, 298-4470.
- '63 T-BIRD, metallic blue and white, complete power equipment, original owner, 18,000 miles, cost \$5400, will take \$3750, no trade. Buchanan, CH 2-5066.
- BOY'S 26" bicycle, '60 Higgins; girl's 26" bike, '56 M.W.; both for \$25. Shaffer, 242-6507.
- MEN'S GOLF CLUBS, bag, and cart, \$25; Keystone 8mm turret type w/filter, \$25. Reinman, 256-9737.
- WASHER-DRIER, \$49, needs timer work; Simons coil bedsprings, twins, \$8 ea.; blond end tables, \$4 ea. Jennings, 299-5965.
- GIRL'S 20" bicycle w/training wheels, \$20. Conrad, 299-2432.
- '56 CHEVROLET BELAIR 2-dr., R&H, \$375. Sanchez, AL 6-1064.

- 3-BDR. HOME, good NE location, large walled yard, priced to sell. Workhoven, 282-3246.
- BATHROOM WINDOW, frosted, 2 x 2 pane opening. Brown, 299-5405.
- TV "55" Magnavox table model, completely rebuilt w/new picture tube, 2 yrs. ago, needs some repair, \$25. Lissotto, 298-6211.
- TWO 8:50x14 tires, Firestone narrow band w/w, approx. one half tread, \$10 ea. Lotz, 299-2804.
- 21" TV blond table model, needs repairs \$25; 8' x 10' brown rug and felt pad, \$10. Duval, 299-8744.
- BASSETS AKC, \$75, excellent papers, champion backgrounds, 1 yr. black-coated male and 3-yr. tri-colored female. Seeley, 298-0607.
- ACCORDIAN 120 bass, 18" keyboard, blue/white, \$175. Bradshaw, 268-8708.
- 3-BDR., separate dining room, heated workshop, Bandler school, \$11,700. Rudeau, 256-2380.
- '57 CHEVROLET station wagon, manual transmission, recently rebuilt V-8, new brakes and shocks, \$595. Johnson, 255-8998.
- MOBILE TRANSCEIVER 3.2 to 3.9 MC, make offer; motor from '50 Studebaker, \$30, will trade. Pritchard, 268-9618.

#### WANTED

- .45 AUTO PISTOL in any condition. Cranston, 256-1662.
- USED SET of "Childcraft" book. Kuchl, 299-5842.
- JOIN CAR POOL from Northdale Shopping Center to 802 or other nearby location. Roberts, 344-3780.
- OLD PICKUP TRUCK in trade on '60 Plymouth, need some cash, call early or after 5. Villella, 299-6261.
- FAIRLY LATE EDITION of Encyclopedia Britannica or Americana, w/current and preceding annuals, must be reasonably priced. Ashby, 299-5451 after 6.
- TO RENT 3-bdr., den and 4-bdr. house, located in NE or SE heights. Geronimo, 256-2925.
- HOMES of 3 kittens, housebroken, weaned, free delivery, also free white rats. Tatum, 877-0997.
- HOMES for many, many kittens—several colors, styles and dispositions. Housebroken and happy. Johnson, 255-8851.

#### FOR RENT

- WILL share 3-bdr. furnished home with two other males at \$50 per month ea., location 2 blocks from Princess Jeanne Shopping Center. Wynant, 344-3328 after 7.
- 2-BDR. unfurnished house, carpet, LR carpeted, stove, Belair location, near schools, shopping and bus, water paid, available June 15, \$85. Austin, AX 9-8598.
- 15' TRAVEL TRAILER, sleeps 5, this is my personal trailer that I rent to selected persons. Colp, 268-8035.
- LARGE NEW 2-bdr. apt, carpet, drapes, private patio, electric kitchen, near new First National Bank Bldg. Hughes, 256-1229.
- 2-BDR. DUPLEX, electric kitchen, water and garbage paid, \$85 month. Fink, 268-3283 after 5, 507 Texas NE.

#### LOST AND FOUND

- LOST—Prescription safety glasses, gold cuff link, black notebook, 5 keys on ring. Sheaffer FineLine pencil. LOST AND FOUND, tel. 264-2757.
- FOUND—1/2" metal disk "D-2", silver cross, 6 keys on ring, pair tan wool men's gloves, GM car keys, ladies wrist watch. LOST AND FOUND, tel. 264-2757.

# Sandia Corp. Launches Cost Reduction Program

H. E. Lenander, Sandia Corporation's Director of Manufacturing Development 2500, will head the Policy Committee for a Corporation-wide Cost Reduction Program being implemented at Sandia.

Also serving on the committee will be directors from each of Sandia's Vice Presidents' organizations. Purpose of the committee will be to establish policy for implementing the Atomic Energy Commission's Cost Reduction Program at Sandia.

"Some time ago, a formal cost savings program was established in Organization 2000, and other Sandia organizations conducted cost-savings activities," Mr. Lenander said. "Under the proposed program these activities will be combined, and the program will be implemented on a Corporation-wide basis."

The Policy Committee will establish a system for reporting the results of Sandia's cost savings activities to the AEC. Twice yearly, Organization 2500 will prepare a Sandia Corporation cost reduction report for the AEC's Albuquerque Operations Office, which, in turn, will report the information, along with that of other installations, to AEC Headquarters in Washington. A Commission-wide report will then be prepared and presented to President Johnson.

Under the AEC program, Sandia Cor-

poration and other government installations are called upon to "accelerate, intensify, and expand . . . efforts to conduct Government business and administer approved programs at the lowest possible cost consistent with maintaining essential high standards of quality and performance."

Cost reduction activities to be implemented under the program by AEC installations and other government agencies include the following: conducting approved programs on a more austere basis; specifying or utilizing less expensive materials and components, and materials and components which will achieve a desired and verifiable increase in reliability or performance at no added cost; buying at minimum cost consistent with program needs; accelerating installation of technological and process improvements designed to reduce operating costs; curtailing, reducing, or eliminating sub-programs or projects or installations of low utility; and improving management methods.

Cost reduction results will be reported to the AEC on the basis of these activities.

## Sympathy

To Virginia Potter (100) for the death of her mother-in-law in Merchantville, N. J., May 18.

To Seferino Sanchez (3311) for the death of his 17-year-old-son in Belen, May 17.

To Alvin Brazda (7243) for the death of his father-in-law in Nebraska, May 27.

## New Mexico AIIE Earns High Honors At Conference

The New Mexico Area Chapter of the American Institute of Industrial Engineers was honored at the 1964 Annual Conference held in Philadelphia, May 14-16. F. J. Johnson, the Institute's National Director of Chapter Development, presented the Award of Excellence for the New Mexico Area Chapter to J. D. Ramsey (4441), incoming Chapter president, and A. D. Smaller (2563), outgoing president.

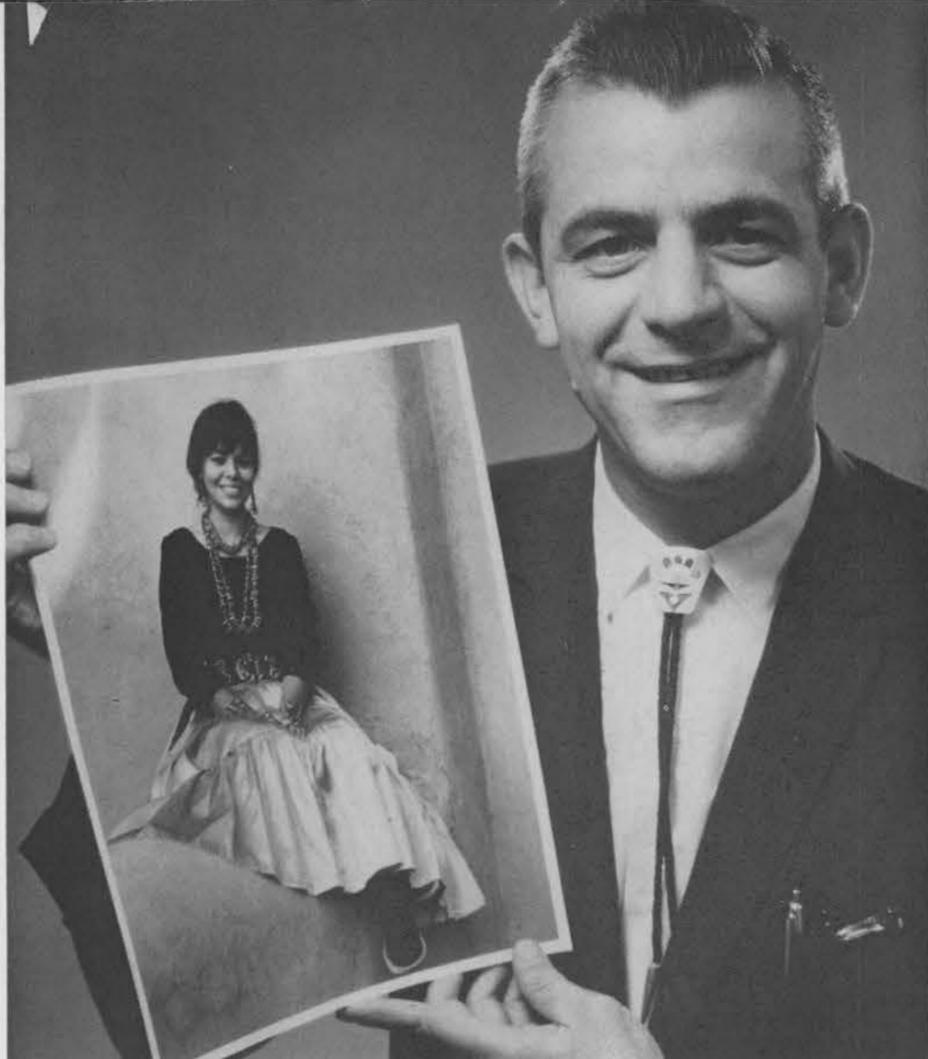
The Chapter Development Program has been designed to measure the activities of a chapter of AIIE that renders professional training, service, and education to its members and promotes the welfare of the chapter. The Award of Excellence indicates a high degree of activity in the areas of organization, education, affiliation, public relations, and membership.

The award plaque will be retained for one month by each of the chapter officers, and then will become the permanent possession of the 1963-64 president, A. D. Smaller.



TROPHY WINNERS in the Sandia Laboratory Women's Golf Association's first tournament of the year were (left) Rose Hainlen (4152), low gross, and Marion Sliwinski (2642), low net. Rose and Barbara Harwi (7431) were tied at the end of 18 holes and a "sudden death" playoff was necessary. The tournament was held May 23 at the Rio Grande Estates Golf Club in Belen.

AWARD OF EXCELLENCE, presented to J. D. Ramsey (4441), center, for the New Mexico Chapter of the American Institute of Industrial Engineers at the AIIE's 1964 Conference, will be retained for one month by each of the chapter officers, then will become possession of the 1963-1964 president, A. D. Smaller (2563), at right. Mr. Ramsey is the incoming Chapter President.



THIS PRIZE-WINNING colored photograph by R. F. Casper (1511) will hang in the Kodak Pavilion at the World's Fair in New York City during the 1965 season.

## Sandia Camera Fan Honored for Work By Fair Exhibitor

If there's a pretty girl who is willing to have her picture taken, start clicking the shutter—you may get a prize-winning photo.

In the case of R. F. Casper (1511), the girl was Helen Hardin, an Indian artist, appropriately bedecked in Navajo jewelry, squaw dress, and leather boots. The locale was the Inter-Tribal Indian Ceremonial at Gallup.

Mr. Casper has been interested in photography about 15 years and in recent years has been an active member of the Enchanted Lens Camera Club. He was pleased with the colored slide of Miss Hardin and entered it in the Kodak International and entered it in the Kodak International Competition (his first try in a national contest).

His photograph is one of 500 to be displayed during the World's Fair in New York City. This year 300 photos will be on exhibit (including 50 from the United States). During the 1965 season, 200 photographs from the United States (including Mr. Casper's) will be on display in the Kodak Pavilion. All of the photographers received equal recognition—a silver medal and \$100. The competition was open to both amateur and professional photographers.

## Safety Record Tops One-Million Man Hours At Sandia Laboratory

For the first time this year, Sandia Laboratory's safety record topped one-million man hours. The record was established June 1. Last lost time accident occurred Apr. 28.

"The message here is obvious," L. M. Jercinovic, Manager of Safety Engineering Department 3210, said. "Sandians can and do work safely."

Mr. Jercinovic urged a continuing emphasis on safety by all Sandians in performing any task. "And take safety home with you," he said. "Let's promote safety everywhere, all the time. Summer is a particularly hazardous time of the year. Children are home for a three-month vacation and many outdoor activities are planned for the whole family. Keep safety in mind always."

## Army Reserve School Receives Superior Rating

The 4153rd U.S. Army Reserve School in Albuquerque has received its second consecutive Superior Rating, made on the basis of an annual inspection of school personnel, facilities, and operations. Notification of the rating was received from the 8th Corps Commanding Officer, Maj. Gen. William R. Calhoun, on May 19.

Assistant Commandant of the school is D. E. Irvin (3143). Other Sandia personnel on the staff and faculty include F. A. Baczek (3427), D. M. Ellett (1541), L. A. Fisher (1543), N. E. Harrell (1511), R. P. Lambert (2123), F. A. Leckman (3153), J. C. McCollum (4232), S. H. Peres (3133), and H. D. Sivinski (7311).

The 4153rd Reserve School presents a variety of training courses to officers of Army Reserve Units located throughout the state, including air defense, medical service, engineering, and command and general staff training.

## Sandia's Safety Record

**Sandia Laboratory**  
HAS WORKED  
1,215,000 MAN HOURS  
OR 35 DAYS  
WITHOUT A  
DISABLING INJURY

**Livermore Laboratory**  
HAS WORKED  
719,000 MAN HOURS  
OR 133 DAYS  
WITHOUT A  
DISABLING INJURY