

# S. P. Schwartz Assumes Duties As President Sept. 1



**S. P. Schwartz**  
President  
Sandia Corporation

S. P. Schwartz will become President of Sandia Corporation effective Sept. 1, succeeding J. P. Molnar, who will return to Bell Telephone Laboratories.

The Board of Directors of Western Electric Company has also elected Mr. Schwartz a Vice President of that company.

He has been at Sandia since 1957 as Vice President and General Manager.

After receiving his degree in electrical engineering from Lehigh University, Mr. Schwartz went to work as a cadet engineer with the Public Service Electric and Gas Company, Newark, N. J. In 1927 he joined the Western Electric Company as an engineer in general installation in New York City.

He subsequently was supervisor of methods and results in Washington, D. C., district superintendent of installation for Virginia and West Virginia, assistant superintendent of Kearny Works and district superintendent of installation for Washington and Oregon.

In 1945 Mr. Schwartz returned to Washington, D. C., as division superintendent of installation and the following year was appointed labor relations manager at the company's installation headquarters in New York City.

He has served as manager of the Eastern zone, Central zone and Eastern installation.

In 1954 Mr. Schwartz was appointed Assistant Project Manager in defense projects. He resigned three years later to accept the Sandia position.

## Two Sandians to Serve Newly-created State Personnel Board

Two Sandians will be industrial representatives on the new State Personnel Advisory Board. The group will work out personnel legislation for the state to be presented to the State Legislature in February.

J. A. Smith and S. H. Peres (both 3133-1) will serve on the eight-man board. The other members will be appointed by the state from the legislature and from among members of the New Mexico Press Association, the Association of University Women and the League of Women Voters.

S. P. Schwartz, Vice President and General Manager, will become President of Sandia Corporation Sept. 1 replacing J. P. Molnar who has resigned to become Vice President of Bell Telephone Laboratories.

Mr. Molnar, who will become Executive Vice President of Bell Telephone Laboratories Dec. 1, will continue to serve as a member of Sandia's Board of Directors.

Further Sandia Corporation appointments have been announced as being effective Sept. 1.

R. W. Henderson, Vice President, Development, will assume the newly created position, Vice President, Weapon Programs. In

addition, Mr. Henderson has been elected a member of the Sandia Board of Directors.

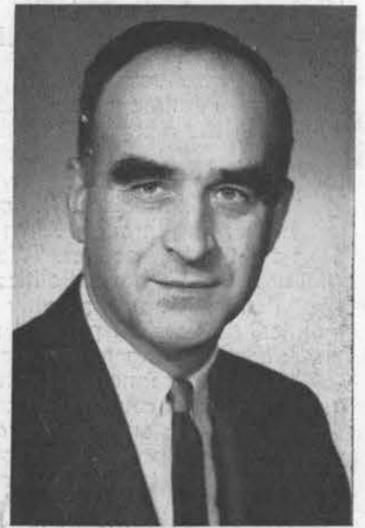
Reporting to Mr. Henderson will be Vice President R. E. Poole, head of Sandia's Livermore (Calif.) Laboratory; Vice President Glenn A. Fowler, presently in charge of Research, but who will become Vice President, Development; Vice President Bernard S. Biggs, presently Director of Sandia's Materials and Testing Laboratories, who has been promoted to Vice President, Development; and Richard A. Bice, head of Sandia's Engineering for Manufacture Organization.

C. F. Quate, Director of Research, has been promoted to Vice

President, Research, and will report to Mr. Schwartz.

Other promotions include R. S. Claassen, Manager of Physical Research Department, who will become Director of Physical Research; C. F. Bild, Manager of Materials and Process Department, who will become Director of Materials and Process Department; and William A. Gardner, Manager of Test Laboratory Department, who will become Director of Environmental Testing.

Vice Presidents R. B. Powell (3000), C. W. Campbell (4000), and F. C. Childs (6000) will report directly to the President of Sandia Corporation.



**J. P. Molnar**  
Executive Vice President,  
Bell Telephone Laboratories

J. P. Molnar will return to Bell Telephone Laboratories the end of this month to become Vice President. He has served as President of Sandia Corporation since October 1958. Upon the retirement of Estill I. Green, BTL's Executive Vice President, on Dec. 1, 1960, Mr. Molnar will assume that position.

Before coming to Sandia Mr. Molnar was a Vice President in the Bell Telephone Laboratories, Whippany, N. J., and was in charge of one of the research areas devoted to military programs.

Mr. Molnar received an AB degree from Oberlin College and a PhD degree from Massachusetts Institute of Technology in 1940. He worked for a few years for the National Defense Research Committee and the Gulf Research and Development Company before joining Bell Laboratories in 1945.

He was first concerned with research in physical electronics and the development of microwave tubes. In 1955 he was appointed director of Electron Tube Development and later that year he undertook responsibility for guided missiles.

In February 1957 Mr. Molnar was appointed Director of Military Development for the Laboratories and six months later was named a vice president.

Mr. Molnar is the author of a number of papers on atomic physics and is a member of the American Physical Society, the American Optical Society and the Institute of Radio Engineers.

## H. W. Maglidt to Speak at Meeting of Photo Management

H. W. Maglidt, manager of Graphic Arts and Classified Records Department, will speak on "Photographic Department Management" at the opening session of a photographers' meeting in Chicago, Aug. 8.

The occasion is the eighth national Industrial Photographic Conference and the 69th annual exposition of Professional Photographers, both under the auspices of the Professional Photographers of America.

# Sandia Corporation LAB NEWS

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**R. W. Henderson**  
Vice President, Weapon Programs

R. W. Henderson has been appointed to the newly-created position, Vice President, Weapon Programs, and has been elected a member of the Board of Directors of Sandia Corporation.

Since August 1957 he has served as Vice President, Development, 1000.

After receiving his BS degree in mechanical engineering from the University of California in 1937, he worked three years for Standard Oil Company of California as a design engineer. The following two years he was with Paramount Pictures in Hollywood as design and development engineer and was assistant to the chief engineer at the time he left.

In 1942 Mr. Henderson joined the University of California Radiation Laboratory staff as a senior engineer and two years later was heading an engineering group at Los Alamos charged with the task of locating and developing a site, facilities, and techniques

(Continued on Page Three)



**C. F. Quate**  
Vice President, Research

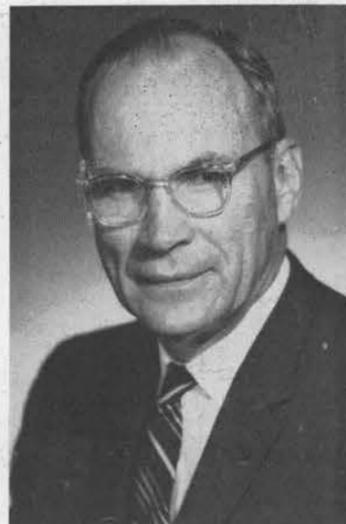
C. F. Quate, Sandia's Director of Research, 5100, since December 1958, has been promoted to Vice President, Research.

Mr. Quate was transferred to Sandia Corporation a year and a half ago from Bell Telephone Laboratories where he had been Assistant Director of Electronics and Radio Research for the previous year.

He had been with the technical staff of the Bell Telephone Laboratories since 1949 and was engaged in research on microwave tubes. In 1952 he was appointed supervisor of a group making studies in the field of microwave electronics.

A graduate of the University of Utah with a BS in electrical engineering, Mr. Quate also holds a Master's degree from the same school and a PhD degree from Stanford University.

He is a member of the Institute of Radio Engineers, Sigma Xi, science research honorary, and Tau Beta Pi, engineering honorary.



**B. S. Biggs**  
Vice President, Development

B. S. Biggs was elected Vice President, Development, during the recent Sandia Corporation reorganization. He has been Director of Materials and Standards Development, 1600, since January 1958.

Mr. Biggs came to Sandia two and a half years ago on loan from the Bell System, which he joined 23 years ago. He had been Assistant Chemical Director-Development, of the Bell Laboratories, Murray Hill, N. J., before his assignment to Sandia. In this capacity he was in charge of polymer research, and rubber and adhesives development. During his years with the Bell System Mr. Biggs was granted a number of patents.

He has an AB degree from Southwest Texas State Teachers College, an AM degree from the University of Texas, and a PhD degree in chemistry from the University of Texas.

# FY '60 Construction at Sandia Lab Is Over \$7 Million

A significant amount of AEC construction was completed at Sandia Laboratory during Fiscal Year 1960.

A total of \$7,825,000 was spent for new buildings, additions, and modifications to existing buildings and facilities. This figure also includes money spent on construction of new electrical systems, street and parking improvements, drilling of a water well for Area III and improvements at Tonopah Test Range.

A total of 10 new buildings were constructed at Sandia Laboratory during this period.

Among the largest were the Materials and Standards Laboratory Bldg. 861, Reclamation Bldg. 870 and the just completed Machine Shop Bldg. 841. These three buildings accounted for \$3,622,000.

There were 140,490 square feet added to Sandia Laboratory in the new buildings.

Additions and major modifications to existing Sandia Laboratory buildings cost \$1,262,625. This amount includes such projects as a 5180 sq. ft. addition to the Wind Tunnel Bldg. 865, a 1310 sq. ft. addition to the Van de Graaff Bldg. 803 and modifica-

tions to Bldg. 849 to house Sandia's metallurgical laboratory.

Tonopah Test Range construction and improvements amounted to \$1,141,000. This project included construction of a concrete target pad, several camera stations, three rocket assembly buildings and a concrete launch pad.

Sandia's new environmental test facilities in Area III contributed to a large part of the construction cost. Four new facilities — Complex Wave, Hot Gas, Radiant Heat and Acoustic — amounted to \$1,546,700. Additions and modifications to the Centrifuge and Vibration facil-

ities in Area III amounted to \$241,875 and a new field headquarters and laboratory for the Coyote Test Area cost \$74,000.

Projects under construction at the present time include two reactor facilities. The Sandia Engineering Reactor Facility, which will cost \$3,185,000 when construction is complete and equipment is installed, is scheduled to go into operation by the summer of 1961.

Sandia's Pulsed Reactor Facility, which will cost \$550,000, will be in operation in January 1961.

Several projects are still in pro-

positional stages. Construction now scheduled for fiscal year 1961 includes the new Research Bldg. 861-Phase II and a new 10,000 ft. sited track facility in Area III.

All contracts for Sandia Laboratory construction are administered by the Atomic Energy Commission. Plant Engineering Department 4540 prepares preliminary plans and specifications and performs liaison with the architect engineering firms employed by the AEC. Plant Engineering personnel also perform inspections of the construction projects prior to acceptance by the AEC.

## Editorial Comment

### Is Politics the Bunk?

Two strenuous political conventions have occupied considerable TV time recently. Even more air time will be occupied in the next few months by candidates for office, high and low.

Already there are squawks about too much network time going to the politicians. The comics, cowboys and private eyes are not getting through. Already there are protestations that TV fans are tired of politics. "We're going to vote," they protest, "let us have our shows. Politics is the bunk anyway."

Politics is the bunk only to those who do not understand politics, do not feel political responsibility and refuse to seek this understanding and responsibility.

A citizen cannot understand the nature of political events until he studies candidates, knows their platforms, their promises and their stands on issues. Being a voter does not mean fulfillment of political responsibility. A voter is responsible only if he is an informed voter.

So while we'll now and then miss our favorite programs chances are good we'll profit from their political replacements which will be carried by the networks as they carry out their responsibilities of "equal time" for major candidates.

There's always too much at stake in any general election to vote blindly. This holds true more than ever this year. Politics is the bunk only to the voter who slights his political duty of being an informed voter.



**POSTER GIRL AT LIVERMORE LABORATORY** for August is pretty Sharon Kenney (8212-3), daughter of Harriet Kenney (8212-5). Security poster she holds says, "The shaft of the arrow had been feathered with one of the eagle's own plumes. We often give our enemies the means of our own destruction" . . . Aesop's Fables. Art work was done by the Technical Illustration Section.

## Weddings and Engagements

Dolores D. Van Noy (8211-4) was married to Phil E. Baker on July 18 at Zephyr Cove, Nev. "Dody" has been with Livermore Laboratory since May 7, 1958. Phil is employed by the California Farm Insurance Company as a field training supervisor in Berkeley, Calif.

Congratulations are extended to Eldon Lorraine Wooton (3452) and Dave Miller (1432) on their recent marriage. The couple exchanged vows July 9 in the Reorganized Latter Day Saints Church in Albuquerque.

Lorraine has been at Sandia since April 1959 and Dave has worked here for eight years.

### Take Bridge Honors

Frank Cupps (8233-1) and his wife Jane captured the 1960 Open Pairs Bridge Championship for Livermore recently. They competed with 14 other couples. The special tournament event, held July 17 at the Lawrence Radiation Laboratory cafeteria, was sponsored by the Livermore Duplicate Bridge Club.

Other Sandians participating in the event were Mr. and Mrs. Robert Frost (8162-2) and Mr. and Mrs. Frank J. Maloney (8163).

### Speaks at UNM

T. A. Rosenwald, who handles fire prevention activities for Plant Engineering's Inspection 4542-1, spoke last week at a University of New Mexico custodial workshop. His subject was "Using Correct Fire Extinguishers."

## Scholarship Awarded Sandian's Son for Model Automobile Design

A \$1000 university scholarship has been awarded William C. Hope, 17-year-old son of Voris (3463) and Don Hope, for his design of a model automobile.

Bill's prize winner in the state automotive design contest was pictured and described in the March 4 issue of the Lab News.

The scholarship is one of a number awarded by the Fisher Body Craftsman's Guild to young men throughout the country for outstanding styling concepts.

Bill's entry was an ivory white station wagon with an unusual rear deck treatment.

A senior at Highland High School, Bill hasn't decided yet where he will study automotive design.



**SECURITY SPOTLIGHTS** are attracting attention at Gates 1, 2 and 3. Above, Security Guard Sam Baca doubly emphasizes the importance of making sure classified documents are put in locked safes at night.

## These Didn't Get Away

On previous vacations, Sue Matthews (8234-3) and her family found that they should have been at the fishing spots either "the day before we arrived or the day after we left." Disappointed by two "fishless" days during their vacation this year at Big Stone Lake, Minn., they decided to stay over "the day after." Result—over 100 blue gills, crappies, sunfish and great northern pike.

## Sympathy

To Dick Stammer (8123-2) for the death of his father in Bancroft, Neb., July 1.

To Irma Olson (8212-3) for the death of her father in Waukon, Iowa, July 10.

To Edward Grymkoski (4253-3) for the death of his mother in Waukegan, Ill., July 18.

To Jack O. Travis (2714-3) for the death of his father in Sarcocixie, Mo., July 25.

## 15 Years Service In WE Completed By H. G. Jeblick

H. G. Jeblick, supervisor of Field Inspection Division 2713,



will mark 15 years with the Western Electric Company today.

He has been on loan to Sandia Corporation for the past six years. His initial job with Sandia was setting up the East Coast area office for field inspection. Two years later he moved to Albuquerque to head his present division.

During his years with Western Electric Mr. Jeblick was at the Merrimack Shops in Massachusetts, Kearny, N. J., and at various locations in New York City. He was with the supplies inspection organization in New York City, served as a planning engineer for the distribution house, and was a section supervisor for inspection and salvage materials organizations at Kearny.

### New Homes

John E. Church (4252-4) has moved recently to 1223 Mariano Trail SW.

There's also a new address for Zachary R. Ortiz (4243-1) — Route 6, Box 86.

Elmer A. Kraft (4253-1) has moved into a new home at 3103 Manzano Drive NE.

Liveo Olivotti (8143-1) has moved into his new home at 4089 Pomona Way in Livermore.

Cherry Lou Burns (3431-1) and husband, Bob, are settled in their new home at 1820 Cornell SE.

### Red Sparger Wins

D. B. "Red" Sparger (8223-5) won the semi-finals first place in a regional bowling tournament sponsored by a local newspaper recently. Given a 46-pin handicap, Red attained a score of 640 scratch with games of 214, 203, and 223. Elimination contests run at 13 bowling alleys in the area provided contestants for the tournament. He went on to compete in the grand finals of the Southern Alameda County contest July 23, in which he placed third.

### Section 8121-3 Picnic

A section picnic for 8121-3 was held July 17 at Arroyo Park near Livermore. Arrangements were made by Dick Read, who reports an attendance of about 45 adults and children.



Joanna Boose (1283/3126)

## Take a Memo, Please

Before tinkering with a power lawnmower always disconnect the spark plug to prevent accidental starting.



—Dick Shaum and father—

## Dick Shaum Shares Retiring Father's Last Run as Railroad Engineer

When Dick Shaum's (5222) father retired as a railroad engineer this month, Dick received special permission to ride in the cab with him on his last trip from Albuquerque to Las Vegas, N. M.

"I rode with him about 20 years ago in a steam locomotive and it was quite different from today's diesel engine," Dick recalls. "The steam locomotive was much noisier and we seemed to be going a lot faster than we did in the diesel."

Going through Bernalillo about 90 miles an hour, Dick said that an old man pulled out onto the track with his tractor, but backed off again in time.

Dick expressed surprise about how busy his father was on the trip.

## Pool and Patio May Be Obtained For Private Parties

Coronado Club members can obtain the swimming pool and/or patio for private parties during evening hours, Harold Schulte, president of the Club's board of directors, has announced.

Cost for use of both is \$12.50 for the first hour and \$5 per hour thereafter. Limit is 75 persons. For a patio party only, fee is \$5 for the entire evening if attendance is under 100, and \$7.50 for more than 100 persons.

Members wishing to schedule an event should contact the club office.

Two Saturday night dances are slated for weekend entertainment. Ernie Ricardo's combo will play on Saturday, Aug. 6, and Al Hamilton's band will take over on Aug. 13. The dances last from 9 to 1 and tickets are 50c for members, \$1 for guests.

Keep in mind that a "Hawaiian Night", featuring a Luau, entertainment and dancing, will be held on Saturday, Aug. 20. Cost for this will be \$2.60 for members, \$3.60 for guests.

### Welcome Back

Fellow workers in Division 8222 welcome back Buddy Hilgers following recent surgery.

### Sick List

Departments 2540 and 2560 wish their secretary, Vera Antuna, a speedy recovery. Vera is in Las Vegas, N. M., recuperating from an illness.

Hopes for a speedy recovery are extended to Marie Ryan (3462-3) who is in the hospital. Marie broke her hip in a fall at her home.

"He was always changing speeds, blowing the horn, watching signals and working with levers during the two and one half hour trip."

A lot of the trip was through mountains and Dick was quite impressed with the scenery.

When the train pulled into Las Vegas, his father climbed down from the cab for the last time after 45 years on the same run.

## Two-Cigar Event

Fred Mitchell, Sr. (4131-4) has reason to be doubly proud —he became a father and a grandfather on the same day!

On July 25 Mrs. Mitchell gave birth to a son. The same day their daughter, Mrs. Linda Holcombe, also had a son. The two mothers shared a room at St. Joseph's hospital. The Mitchell baby was named Terry Lee, and the Holcombe baby, Ricky Lee.

The Mitchells have two other daughters and two other sons, but this was their first grandchild.

## Congratulations

### Born to:

Mr. and Mrs. Joseph G. Teague (1332-3) a son, Mark Wallace, on July 15.

Mr. and Mrs. Donald L. Davis a son on July 9. Cynthia is on leave from Division 2451.

Mr. and Mrs. Tom Harrell (2562) a daughter, Landie Lee, on July 3.

Mr. and Mrs. P. J. Cook (5532) a daughter, Anita Gail, on July 21.

Mr. and Mrs. Edgar P. Cave (3111-1) a daughter, Teresa Ann, on July 3.

Mr. and Mrs. L. H. Wilhelmi (4411-6) a daughter, Deborah Lynn, on July 25.

Mr. and Mrs. Fred Mitchell (4131) a son on July 25.

Mr. and Mrs. Antonio Saavedra (4254-2) a daughter, Catherine Ann, on July 17.

Mr. and Mrs. K. E. Johnson (4232-3) a daughter, Sarah Joanne, on July 19.

Mr. and Mrs. W. M. Sigmon (1612) a daughter, Margaret Ann, on July 26.

Mr. and Mrs. Glen Oberst (1423-2) a daughter, Debra Therese, on July 26.

Mr. and Mrs. Dave Salas (4611-2) a son, Alan Gregory, on June 15.

Mr. and Mrs. Benny Garcia (4611-2) a son, Anthony, on July 19.

Sandia Corporation  
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**William A. Gardner**  
Director of Environmental Testing

The appointment of William A. Gardner to the newly-created position of Director of Environmental Testing was announced recently. He previously was manager of Test Laboratory Department 1610.

Mr. Gardner has been at Sandia Laboratory since September 1948 and he became a division supervisor in 1950. During the past five years, as a department manager, his organizations have included handling equipment development, structural analysis and weapons facilities.

Mr. Gardner obtained his Bachelor's degree in mechanical engineering from the University of New Hampshire and has taken advanced study in mathematics and aerodynamics at New York University.

Before military service he worked a short period as a junior engineer for Wright Aeronautical Corporation in the testing of Cyclone aircraft engines.

From 1941-45 he served in the Coast Artillery and Army Air Corps. As a fighter pilot he flew 176 combat missions, is credited with destroying eight enemy aircraft, and holds the Silver Star, two Distinguished Flying Crosses, and eight Air Medals. At time of discharge he was operations officer for the Eighth Fighter Group.

After discharge Mr. Gardner went to work for Curtiss Propeller Division of Curtiss-Wright Corporation as an engineering test pilot. He was promoted to supervisor of flight test and chief test pilot during his two years there.



**R. S. Claassen**

Director of Physical Research

Richard S. Claassen has been appointed Director of Physical Research, a new position with responsibility in the fields of physical research, physical sciences research and nuclear burst physics.

Mr. Claassen has been manager of Physical Sciences Department 5150 for the past three years.

He joined Sandia Corporation in March 1951 as a staff member in the Electromechanical Division of the Research organization. In December 1952, after being promoted to division supervisor, his responsibility was with the same group and later with the new weapons program.

In 1950 he received a PhD degree in physics at the University of Minnesota, where his study was mainly in the field of nuclear physics.

Mr. Claassen obtained his MS degree from Columbia University in 1947 and his BS in physics from Cornell University in 1944. He took undergraduate work at Hamilton College.

After obtaining his Bachelor's degree, Mr. Claassen worked two years for the Manhattan Engineering District, New York City, as a research assistant in a program for gaseous diffusion study.

He is a member of the American Physical Society.



**C. F. Bild**

Director of Materials and Process Development

C. F. Bild, manager of Materials Standards Department 1620 for the past four years, has been promoted to Director of Materials and Process Development.

Mr. Bild joined Sandia Corporation in January 1951 and the following year was promoted to a supervisory position. His work was principally in component development from 1951 to 1956.

Previously he was with the Naval Ordnance Laboratory in Silver Spring, Md., for eight years. He worked on development projects in mines, depth charges, projectiles and rockets.

From 1943-46 Mr. Bild was in the Navy and his duty included supervising test and assembly work on naval ordnance at the Naval Ammunition Depot in Hawthorne, Nev.

He held a research fellowship at Lehigh University from 1939-40.

His MS degree in metallurgical engineering is from Lehigh and his BS degree in mechanical engineering is from the University of Virginia.

Mr. Bild is a member of Tau Beta Pi, engineering honorary, the American Society of Metals, the National AEC Welding Committee and he is a registered professional engineer in New Mexico.

## AEC Receives Bids for Three Sandia Laboratory Projects

The Atomic Energy Commission has announced apparent low bidders for two moving and equipment installation projects for Sandia Laboratory and has called for bids for a third construction project.

Brown-Olds Plumbing and Heating Company of Albuquerque is apparent low bidder for the job of moving and installing equipment in the recently completed Development Shops Bldg. 841.

The project consists of dismantling some equipment now located in various Sandia buildings and storage yards and moving and installing in Bldg. 841. The project includes connections to mechanical and electrical service and miscellaneous work in Bldg. 841 to accommodate the equipment for a

foundry, sheet metal, painting, plating and welding shops. Project engineer for Plant Engineering Department is Jim Reid (4543-3).

The firm's bid was \$71,000.

Universal Grading Company of Albuquerque is apparent low bidder for installation of a heat exchange system in Bldg. 860. The project will consist of the installation of two government-furnished cooling towers on a single combination reinforced concrete foundation plus equipment pit and warm and cold tank system.

Installation of chemical feeders, valves, gauges, piping, electrical control equipment and other related items are included. The firm's bid was \$35,000.

Plant Engineering Department project engineer is E. L. Drake (4543-2).

### R. W. Henderson

(Continued from Page One)

for proof firing the first atomic bomb. He also assisted in the design of the bomb and explosives processing equipment.

He was in charge of all weapon engineering from late June 1945 until January 1947 when he headed all operations of the Sandia Branch of Los Alamos Scientific Laboratory. In the fall Mr. Henderson returned to Los Alamos to serve as Assistant Scientific Director of the 1948 series of test firings in the Pacific.

Upon conclusion of those tests he became Technical Associate Director at Sandia and remained in that position until 1949 when Sandia Corporation was formed and he was named Director of Engineering. Mr. Henderson was later Director of Systems Development.

Mr. Henderson is a member of the Technical Advisory Panel on Atomic Energy, the Ad Hoc Group on Aircraft Damage Assessment and Vulnerability, Technical Advisory Panel on Ordnance, Scientific Advisory Committee on Ballistic Missiles, and the American Society of Mechanical Engineers.

Bids were invited this week by the AEC for reroofing Bldg. 892.

The work will include removing the existing roof and replacing it with a gravel-surfaced roof requiring approximately 652 squares of three-ply, built-up material.

Work is to be completed within 45 days after the contractor receives notice to proceed from the AEC. John Snowden (4543-3) is the Plant Engineering Department project engineer.

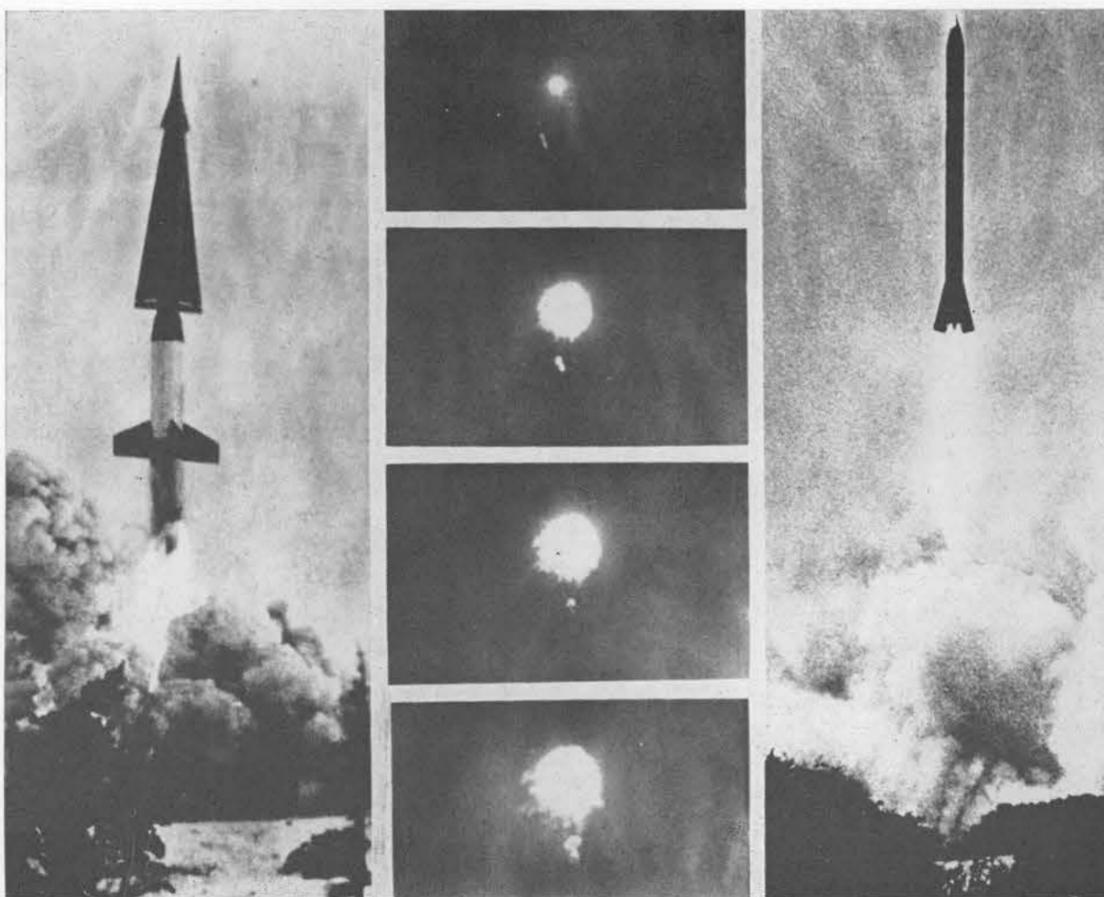
### Research Seminar Program Given for Three Meetings

"Acoustic Behavior of Synthetic and Modified Quartz" will be discussed by James C. King, Bell Telephone Laboratories, at a Research Seminar on experimental physics Tuesday, Aug. 16 at 1:30 p.m.

Donald Hall, of Texas Instruments, will speak on "Semi-Conductor Power Converters" at a Development Seminar on Thursday, Aug. 18, at 9:30 a.m.

All meetings are held in Bldg. 815. For further information contact Craig C. Hudson (5113), ext. 32267, chairman.

## Nike Hercules Makes First 'Kill' of Guided Missile at White Sands Range



**NIKE HERCULES**, the Army's new improved weapon (shown at launch, left) intercepts and destroys another supersonic guided missile, the Corporal (right). This is the first known kill of a guided ballistic missile by another guided missile. The shot employed improved radar guidance systems that can reach out farther and more accurately than similar Hercules equipment of today.

An improved Nike Hercules scored the first known "kill" of a guided ballistic missile by another missile recently, when it caught a Corporal ballistic missile and demolished it high above the desert testing range at White Sands, New Mexico. Armed with a high explosive warhead, the Hercules intercepted the Corporal during an engineering feasibility demonstration.

Earlier this year, a low-level anti-aircraft Hawk guided missile destroyed an Honest John short-range unguided artillery rocket at White Sands.

While the Corporal has much less range and speed than the Intercontinental Ballistic Missiles, the test yielded valuable information pertinent to the development of an anti-missile defense, according to the Army. The Corporal, the free world's first operational ballistic missile, is a liquid-propellant weapon with a range of 75 miles. It was fired over a shorter trajectory for this test.

The Corporal target was launched southward down range by Army troops of the 40th Artillery Group, First Battalion. The Hercules was fired north.

The missiles closed at speeds of thousands of miles an hour terminating in a flaming intercept.

The target presented by the incoming Corporal was smaller in radar reflectivity than that for which the original Nike Hercules System was designed. The improved ground equipment guided the

missile to the kill.

An operational solid-fuel guided surface-to-air missile, Hercules employed improved equipment such as acquisition, tracking, and guidance radars. The new radars can reach further and more accurately than any similar Hercules equipment operational today. The improved Hercules elements were developed under cognizance of Western Electric, and were turned over to the Bell Telephone Laboratories by the Army Ordnance Corps for demonstration.

Ground guidance and control equipment, and the electronic guidance package for the Hercules are manufactured by W.E. at its Burlington, Greensboro and Winston-Salem plants in North Carolina.

Douglas Aircraft produces the missiles, including their associated launching and ground handling equipment, and shares with Bell Telephone Laboratories the job of research and design for the Nike missile family.

Hercules, currently operational as an air defense weapon, is a second generation Nike missile, newer and bigger than Nike Ajax, the Army's first air defense guided missile which has been in operational use since 1953. Nike Hercules' range is in excess of 75 miles, its altitude capability greater than 20 miles. Nike Zeus, a third generation of the Nike Air Defense Weapon's System, is under development by the Army as a defense against intercontinental ballistic missiles.

## Supervisory Appointments

DONALD W. ARQUETTE to supervisor of Component Section II, 2542-2, Electronic Components Division.

During his four years with Sandia Corporation Don has been working the entire time in the Manufacturing Development Components Department.



He came here from Oklahoma State University where he received a Master's degree in industrial engineering and management. His Bachelor's degree in electrical engineering is from Michigan State University.

He served two years in the Army Ordnance Corps before attending school in Oklahoma.

Don is a member of the Institute of Radio Engineers and the American Institute of Industrial Engineering.

DONALD W. BAUDER to supervisor of Shock Section 1615-3, Area III Laboratory Division.

Don has been a staff member in Project Division 1613 since he was hired by the Corporation in January 1957.



Immediately prior he served nearly two years in the Army in weapons testing at Fort Benning, Ga.

Before military service Don worked two and a half years for Convair Aircraft Company as an engineer in the design of components on systems connected with jet engine installations.

He received his BS degree in mechanical engineering from the University of Colorado in 1952.

ROBERT C. DOUGHERTY to supervisor of Preliminary Design Section (8141-1), Livermore Laboratory.

Bob has been in preliminary design work since he joined Livermore Laboratory two years ago. Before his employment with Sandia he was an instructor of mechanical and electrical engineering for two years at the University of Idaho. While serving as an instructor, Bob earned his MS degree in mechanical engineering. He also received his BS degree in mechanical engineering from the same school in 1953. During the Korean conflict Bob spent three years in the Navy. He is a registered professional engineer in Idaho.



MICHAEL J. NORRIS to manager of Mathematical Research Department 5120.

A Corporation employee for seven years, Mike was promoted to supervisor of Systems Analysis A Division five years ago and later was transferred to Applied Mathematics Division.



Prior to his coming here Mike taught mathematics for seven years at the College of St. Thomas in St. Paul, Minn.

He was awarded a PhD from Harvard University in 1944 and earlier received his Master's degree from Harvard and his Bachelor's degree from the College of St. Thomas. All are in mathematics.

He is a member of the American Mathematical Society and the Mathematics Association of America.

Mike served two years in the Navy, half of the time teaching and the remainder of the period on a destroyer.

HAMILTON H. MABIE to supervisor of newly-created Studies Division II, 1342, Electromechanical Studies Department.

"Ham" worked for Sandia Corporation from July 1958 until August 1959 while on sabbatical leave from Cornell University and returned here in June.



At Cornell he was an associate professor of mechanical engineering for 19 years. During that time he worked on a number of research projects and co-authored a book entitled "Mechanics and Dynamics of Machinery" which has been adopted as a textbook by 66 schools. He is presently making revisions for a second edition.

Several summers Ham worked for machine tool industries in Vermont and Ohio.

He received his PhD from Pennsylvania State University, his MS degree in mechanical engineering from Cornell and his bachelor's degree from the University of Rochester.

Ham is a member of Tau Beta Pi, engineering honorary, Sigma Xi, science research honorary, Phi Kappa Phi, scholastic honorary, the American Society of Mechanical Engineers and is a registered professional engineer in New York state.

DONALD S. PITTS to supervisor of Specialties Section 2543-2, Power Devices and Specialties Division.

Don has been working in the 2000 Engineering for Manufacturing organization since he was hired at Sandia Corporation eight years ago.



Prior to coming here he was a consulting engineer for a year and a half with the Albuquerque firm of Tynes and Loftin.

He received his BS degree in electrical engineering from the University of New Mexico.

Don served two years in the Army Air Corps as a public relations photographer.

He is a member of the American Institute of Electrical Engineers, the National Society for Professional Engineers, and is a registered professional engineer in New Mexico.

ELMER L. DEVOR to supervisor of Quality Control Division II, 2563, Manufacturing Development Quality Control and Administration Department.

Elmer has been at Sandia nearly two years and has been supervisor of Quality Control Engineering Section 2561-2 since last January.



Previously he was a supervisor of quality control and inspection for General Electric at Decatur, Ill. During more than eight years with GE he was also at their plants in Ohio and Massachusetts.

Elmer worked a similar period for U.S. Rubber Company as an industrial engineer in New York City.

For two years he was an assistant professor of industrial engineering at Syracuse University and also worked a short time for Western Electric at the Kearny Works.

Elmer holds a Bachelor's degree in industrial engineering from Pennsylvania State University. He is a member of Tau Beta Pi, engineering honorary, Pi Mu Epsilon, mathematics honorary, the Society of Plastics Engineers, the Society for Advancement of Management and the American Society for Quality Control.



### C. J. Baumgartner Completes 30 Years With Western Electric

C. J. Baumgartner, manager of Security Operations Department, was honored last month for 30 years service with the Western Electric Company.

Mr. Baumgartner was with the accounting organization at the Hawthorne Works in Chicago for 18 years. He then transferred to the installation division in Chicago to work in field accounting for two years before coming to Sandia Corporation.

During his 10 years at Sandia Mr. Baumgartner has been a department manager since March 1955 and has headed various organizations such as Cost Accounting, Reclamation, Assembly Department, and for the past 16 months Security Operations.

### Bob Sylvester Earns Toastmaster Highest Honors

Sandia Toastmasters Club 765 at their last meeting presented the "Toastmaster of the Year" award to club president Bob Sylvester (2543).

### Smokefilled words

# Special Lexicon Necessary to Understand Campaign Jargon

With the Los Angeles and Chicago conventions tucked away, modesty, too, has served its purpose and candidates across the country are running hard for political posts ranging from President of the U.S. to local constable. To describe their doings, the nation's press, every four years, speaks a lusty jargon.

Members of the "Old Guard" like to "caucus." "Dixiecrats" do too. "Bandwagons," "dark horses" and "steam rollers" come back into their own as the durable and certain vehicles upon which our political parties choose to travel. "Favorite sons" sponsor "straw votes," dig up "grass roots," "mend their fences," and throw their hats in the "ring."

We've heard these terms, and others like them. But what do they mean, anyhow? Who thought them up? And why?

As a starter, let's look at 11 popular political expressions; weary, perhaps, with conventionitis, but slated for a lot more duty between now and November, when we go to the polls.

**BANDWAGON** — the imaginary vehicle controlled by a candidate moving toward victory, onto which politicians are wont to hop for fear of being unable, after the goal is won, to share in the fruits thereof.

**CAUCUS** — A meeting of a sectional or party group, drawing away from the main body or meeting; such as a state delegation or all Senate Republicans meeting in caucus. The caucus was used as the first method of nominating candidates for the Presidency. It was a secret meeting of a party's members in Congress. The caucus stemmed from

### 35 Years Service In WE Observed By K. S. Spoon

K. S. Spoon, Purchasing Agent, 4300, last month observed 35 years with the Western Electric Company.

Mr. Spoon joined the Sandia Corporation staff in 1951 as Contract and Traffic Department Manager and Assistant Purchasing Agent. He has held his present position since 1954.

His first WE job was in Hawthorne Merchandise after graduation from the University of Wisconsin. The following year he transferred to Supplies Service Division in New York and served as field representative for the southern states.

In 1928 Mr. Spoon was transferred to San Francisco to set up a West Coast office for Supplies Service Division.

He returned to New York in 1936 as Department Manager for Supplies Service and four years later was transferred to General Purchasing Department where he remained until 1941. For the fol-



lowing four wartime years Mr. Spoon was Assistant Purchasing Agent in the Radio Division at Kearny, N. J., and was in charge of all purchasing for the 54th Street radar plant.

He was again with the Supplies Service Division in San Francisco before coming to Sandia.



NEW OFFICERS for the New Mexico Council of Technical and Scientific Societies are shown seated above. From left are Corry McDonald (2530), president; Frank Clinard (1621), vice president; Joe Calek (5524), secretary; and Mike DiBella (5323), treasurer. Standing are retiring officers Gene Copeland (1611), past president; Orville Graham (3211), past vice president; and Leon Wilson (1282), former treasurer. Not shown is John Cowan (5323).

**GRASS ROOTS** — Politically speaking, grass roots means close to the rank and file rather than political leaders. Sen. Albert J. Beveridge of Indiana, keynoter of the 1912 Bull Moose convention, said: "This party comes from the grass roots. It has grown from the soil of the people's hard necessities."

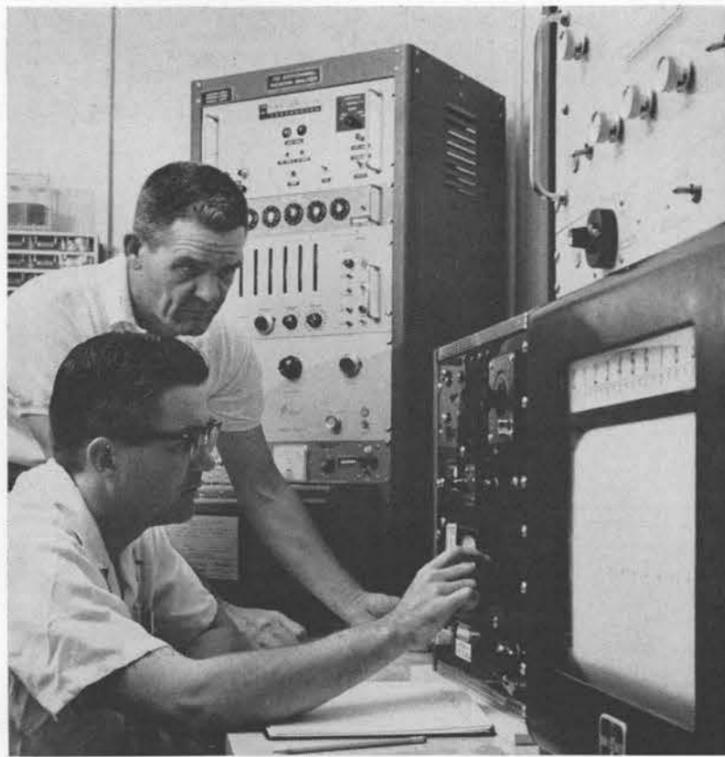
**HAT IN THE RING** — This expression originated with Theodore Roosevelt in 1912. He told reporters: "My hat's in the ring. The fight is on and I'm stripped to the buff."

**MENDING FENCES** — This expression originated with John Sherman, Rutherford B. Hayes' Secretary of the Treasury, in 1879. Sherman, on a visit to his home in Ohio, made a speech which began: "I found when I arrived in my old home that the papers said I came West seeking the nomination for governor. I came purely on private business—to repair my fences and look after neglected property." Sherman later wrote in his memoirs: "The reporters seized upon the reference to my fences and construed it as having a political significance. The phrase, mending fences, became a byword, and every politician engaged in strengthening his position is still said to be mending his fences."

**OLD GUARD** — First applied to the Republican stand-patters in 1880. Sen. Roscoe Conkling, placing Gen. U. S. Grant's name in nomination, said: "Pull no skulkers from under the ammunition wagon; take the tried and true old hero—with the Old Guard behind him . . ." Delegates who supported Grant for a third term adopted as their slogan, "The Old Guard dies, but never surrenders."



**MONITORING ACTIVITIES** include checking amount of radiation emitted from this nuclear cell battery which Ed Gooden (1631) is using. Milt Tucker reads the geiger counter while Harold Rarrick (right), section supervisor, watches.



**CHECKING RESULTS** of air samples on this electric computer are Dick Womelsduff, seated, and Don Coleman. The two men designed most of the equipment used for counting samples.

## Proper Techniques Make Safe Handling of 'Hot' Material

Just as the sun's rays can be harmful if you are overexposed to them, so can radiation be harmful if proper safeguards are not taken.

Helping people work safely and correctly with radioactive material at Sandia is the job of Health Physics Section 3311-2, headed by Harold Rarrick.

With laboratories and offices located in Bldgs. 868 and 830, the section uses monitoring, dosimetry, accountability and electronic equipment to perform its job.

Duties of the monitoring group include checking and providing proper procedures for handling and storing radioactive material, and obtaining samples of work environments to determine the amount of radioactive material present in the air or as contaminants on personnel, equipment, or the facility in general.

The team also obtains natural environmental samples, decontaminates equipment and facilities so they can be returned for useful purposes, and designs facilities for radiation producing devices and sources.

### Monitoring Team

Members of the monitoring team are George Harwood, George Saviteer, Milt Tucker, Tom Taylor and Jim Wheeler. Assisting them are Tony Juskiewicz and Seferino Sanchez.

The dosimetry group provides film badge service for all personnel who come in contact with radioactive materials while performing their jobs, and maintains accurate and current records of personnel radiation exposures. Approximately 2500 employees work with radioactive material. All of these people have been issued film badges, either beta-gamma or neutron, and permanent records are kept for each month's exposure.

The developed beta-gamma film shows which type of radiation the person has been exposed to, and then the film is read for amount of exposure.

A film evaluation system, to be in operation shortly, will automatically read the film density of beta-gamma exposures through four filters and punch this information into IBM cards. These cards are then run through a computer which converts and records the exposures.

The developed neutron film is magnified approximately 800 times in a micro-projector in order to determine the number of neutron tracks on the film. This total is then converted to neutron exposure.

George Tucker, Dave McGiboney, Rita Hodgden and Jane Baker make up the dosimetry team.

### Electronic Equipment

The electronics group maintains and calibrates existing electronic equipment which is used to monitor radioactive equipment, count air samples and other metal or environmental samples as requested. Dick Womelsduff and Don Coleman have designed and developed several pieces of equipment that are not commercially available to meet new requirements.

The two men also assist the radiation standards group and the research and development organizations with the fabrication and measurement of special sources.

Alvie Barrett works in the secondary standards laboratory in Bldg. 868 calibrating survey meters which are used for monitoring purposes.

Responsibility of the accountability group, composed of Russ Hall and Marie Blythe, is to maintain an accurate control of radioactive material while in the custody of Sandia Corporation. They also report to the AEC on status of all source and special nuclear materials in the Corporation. This job includes storing, issuing, and maintaining records of all radioisotopes and irradiated materials brought into Sandia, and arranging for disposal of expended, excess and surplus SS materials.

### Lab in Bldg. 868

Facilities for handling certain types of radioactive materials are available in Bldg. 868. This includes hot lab facilities, machine shop and chemistry lab. These facilities are available to any Sandia employee who needs to use them.

Similar services are performed at Livermore Laboratory by Medical and Safety Section 8212-4, located in Room 122, Bldg. 913.

"Besides providing all these services for Sandia," Harold Rarrick says, "we work with Sandia Base, Kirtland Air Force Base, AEC couriers, license inspection and materials accountability personnel providing monitoring, dosimetry service, training and consultation."



**KEEPING ACCOUNTABILITY** records of all radioactive materials at Sandia is the responsibility of Russ Hall and Marie Blythe. Above, they are checking records which show prevailing status of all material signed out to various organizations.



**NEUTRON TRACKS** are easily read on this microprojector which has magnified the film almost 800 times. Rita Hodgden, who is counting the tracks, uses this information in determining neutron exposure.

## Fred A. Thurow Died July 25

Fred A. Thurow, Jr., a senior draftsman in Design Definition Division C, 4413, died July 25 after a month-long illness. He was 39.

Mr. Thurow had been with Sandia Corporation nearly six years.

Funeral services were held in Albuquerque followed by burial in Sunset Memorial Park.

Survivors include his widow and two sons.

A good safety record's not enough. One accident is too many. A perfect safety record means nobody gets hurt.

## Lab All-Star Team Named, Will Play Sandia Base Aug. 8

Selection of Sandia Laboratory's all-star softball team was made this week by officials and team managers of both Sandia softball leagues.

The all-star team will play Sandia Base all-stars Monday, Aug. 8 at 8 p.m. on Diamond A. This will be the second game of the Sandia Base Invitational Softball Tournament between Sandia Base, Sandia Laboratory, Kirtland Air Force Base, and Manzano Base.

Games of the tournament will be played at 6:30 and 8 p.m. each night next week through Thursday.

Members of the Sandia Lab all-star team are Cliff Rudy (4543), Cliff Taylor (4254), Dale Landis (4413), Carl Longerot (1432), Clyde Hughes (4412), Bill Caudle (5144), Jim Kelly (2632), Vince Arroyo (5543), Ken Flynn (1264).

Julian Lovato (4411), Dick Coleman (5521), Frank Duggin (4314), Joe Costales (4153), Jim Fjelseth (3461), Ray Fisher (1225), Dick Govig (2544), Dan Boultinghouse (4412), Roy Hansen (5523), Dan Grimm (2534), Pat Sanchez (3464), Leo Chavez (3464), Bob Gevirtzman (4113) and Art Aube (1611).

Manager of the all-stars will be Vic Roh (1264). Coaches are Joe Bradshaw (1612) and Bob Evans (4412).

## Funeral Services For Caffo Family Held in Albuquerque

Funeral services were held last week in Albuquerque for L. A.

Caffo (8114-2), his wife Betty, and three children who were killed in an automobile accident while on vacation near Placerville, Calif., July 20.

Lone survivor of the crash was their only daughter, Deborah, age 7, who received minor injuries.

The 34-year-old Staff Assistant, Senior Draftsman, joined Sandia in 1951 and transferred to Livermore in January of this year. The three children who died from injuries in the accident were Ronald J., 10, Richard, 1 and John, 2.

## Jack K. Dobson Died July 23

Jack K. Dobson, a layout operator in Warehouse Services Division 4612, died suddenly July 23. He was 44.

Mr. Dobson had been at Sandia eight years.

Funeral services and burial were in Houston, Texas.

Mr. Dobson is survived by his widow and two daughters.

You're better off at work

# Nonwork Accidents Are Called Our No. 1 Challenge to Safety

Nonwork accidents, a major boobytrap for Americans, were cited recently as a "veritable Fifth Column" in our midst.

The National Safety Council maintains that reducing the nonwork accident toll is the "No. 1 challenge to safety in the 60's."

What are the facts about this "Fifth Column"?

1. Nonwork accidents—those occurring in the home, on the highway and in public places—account for about 6 out of 7 accidental deaths in the United States. The toll in 1959 was 77,200 nonwork accidental deaths of workers and members of their families, 13,800

deaths in work accidents.

2. Home accidents alone brought death to 26,000 persons last year. Nearly 1 out of 4 victims was a child under 5 years of age, and about 1 out of 2 victims was more than 65 years old.

3. In public places, drownings, including boat accidents, killed 5,300 persons last year. Air transport accidents involving all kinds of aircraft killed 1,200. Firearms took 900 lives. Falls claimed 3,600 victims.

4. Workers suffered 2,250,000 disabling injuries off the job in 1959 as compared with 1,950,000 disabling injuries on the job.

5. The cost of off-the-job accidents to industry was 550 million dollars in 1959—and three billion dollars to workers and their families.

The National Safety Council believes that accidents of any kind can be prevented if enough people really want to prevent them.

Industries that are members of the Council have cut their work injury rates to workers on the job by more than half in the last 25 years.

Safety shouldn't be left behind when we leave the job. Safety should be everywhere — all the time.

## Summerhouse Theater Holds Over Comedy For This Weekend

Auntie Mame, hit comedy now playing at the Summerhouse Theater, has been held over this weekend, with performances starting at 8:30 tonight, tomorrow and Sunday.

The boxoffice will continue to honor season tickets for the hold-over nights or tickets may be reserved by telephone.

Because of the additional performances, the remaining productions have been rescheduled. They are The Innocents, Aug. 10-14; The Rainmaker, Aug. 17-21; The Little Hut, Aug. 24-28, and The Four Poster, Aug. 31-Sept. 4.

# Sandia Papers Will Be Presented At Western Electronic Convention

Four Sandians from both Albuquerque and Livermore Laboratories will participate in the technical program of the 1960 Western Electronic Show and Convention in Los Angeles Aug. 23-26.

WESCON is expected to attract more than 35,000 industry leaders to the new Sports Arena in Los Angeles.

The Sandians and titles of their papers are:  
William C. Kraft (2450), "The Engineering Contribution to Product Quality."

Paul A. Lux (8122), "Determination of the Optimum Antenna Pattern for a Signal Burst Communication System."

G. E. Reis (5224) and C. E. Land (5223), "An Improved FM Discriminator-Detector for Airborne Telemetry Receivers."

## M. J. McLaughlin Retires from Sandia

Michael J. McLaughlin retired July 31 after more than eight years with Sandia Corporation. He worked in Electrical, Refrigeration and Air - Conditioning Division 4511.

Mr. McLaughlin professes that he is not going to retire from working, but "I am going to throw away my alarm clock!"

A native of West Virginia, Mr. McLaughlin first came to Albuquerque to visit a hometown friend. Now there are about 50 persons from his former community living here.

After selling their home, Mr. and Mrs. McLaughlin plan to make their home with their son, James, at 6212 Aztec Road, NE. Another son also lives in Albuquerque.

## Jasper W. Mason Retiring August 31 With 9 Years Service

Jasper W. Mason will retire Aug. 31 after nine and a half years with Sandia Corporation. He is a staff assistant in Mechanical Assembly Section 5214-2.

"I have my work cut out for me starting Sept. 1. My wife wants me to paint our house inside and out," he explained. Their home is at 123 Stanford SE.

After that Mr. Mason hopes to do lots of hunting and fishing—but not like the other week-end when he was caught in a snow-storm and a cloudburst all in one day.

The couple has two sons and 10 grandchildren.

## Warren A. Moore, Jr., Retiring August 31

Retiring Aug. 31 will be Warren A. Moore, Jr., a staff assistant in Components Section 1614-1.

Mr. Moore has been at Sandia Laboratory for nine and a half years.

He and his wife intend to remain in Albuquerque (at 6500 Cochiti SE) since they have a step-daughter here and many friends. Their son lives in nearby El Paso.

Although they have no definite plans, the Moores hope to visit their grandson and nieces in California and perhaps travel to their former home in Ohio.



COME ON! LET'S GO! shouts the driver as his car pool members come a-running. These people are taking advantage of driving only once a week, thereby cutting car expenses greatly. They also realize that sharing-the-ride decreases driver fatigue and helps the traffic and parking situation.

## Are You Registered?

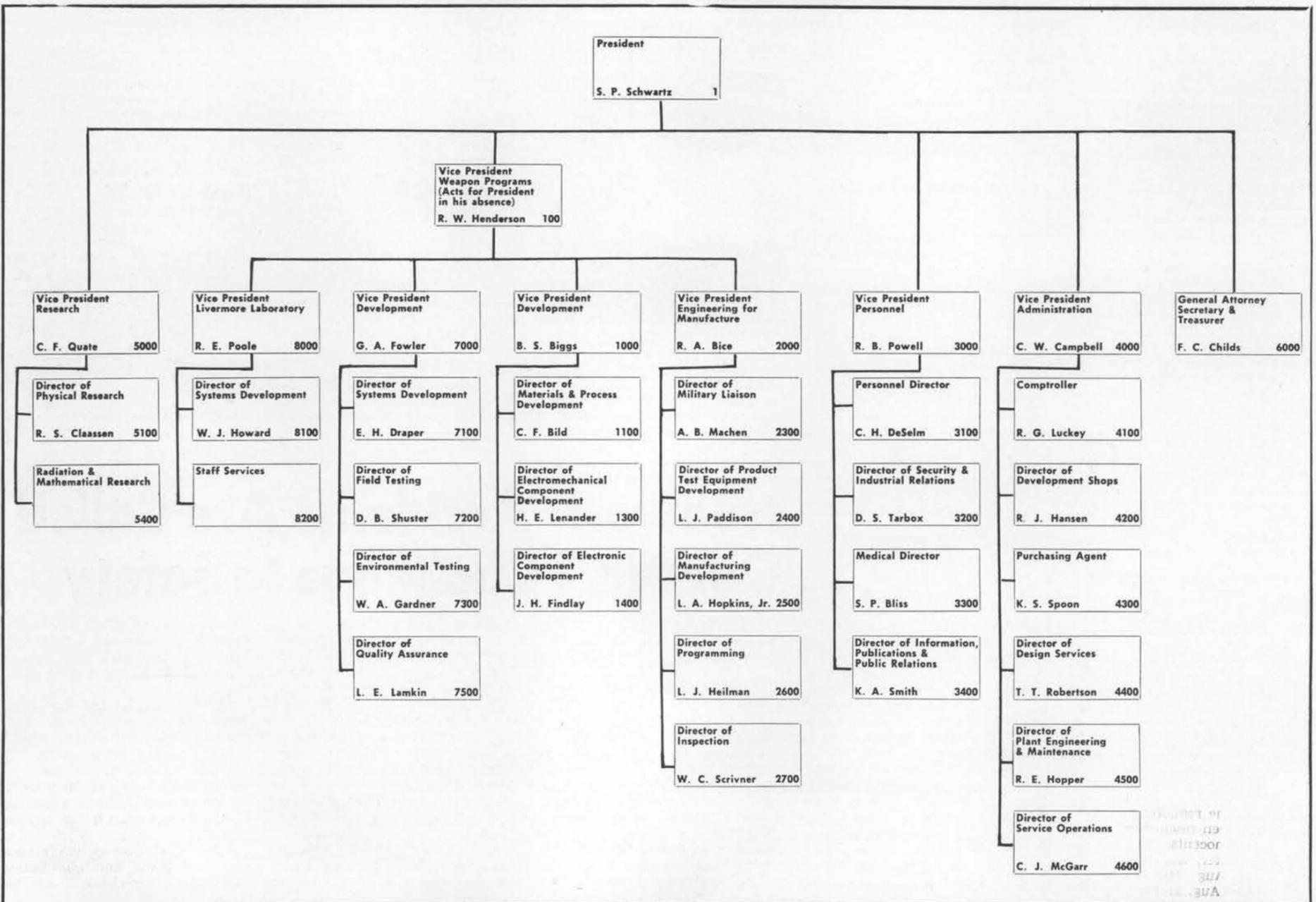
Are you a registered voter? Have you voted in at least one of the last two general elections (held every two years)? If you haven't, your registration has been cancelled. Have you moved recently thereby changing your precinct? Have you changed your name? Have you changed your party affiliation?

Employees may register to vote or fill out an application to change registration certificates during noon hours in Services and Benefits Division, 3122, Bldg. 829. This may be done up to 30 days before the Nov. 8 election.

## Welcome Newcomers

July 18-29	
Arizona	Oscar L. Oren, Jr., Fargo ..... 2532
Terry L. Beckley, Tempe ..... 4111	Ohio
Arkansas	Robert F. Gentzler, Mason ..... 5243
Jon H. Barnette, Fayetteville ..... 5143	Pennsylvania
California	Owen R. Berg, Wilkes-Barre ..... 4411
Ralph R. Craig, Fremont ..... 8114-4	William J. DeLong, Tyrone ..... 4412
Catherine F. Edmiston, Hayward ..... 8212-5	Frederick W. Gibson, Abington ..... 4413
*Sharon A. Kenney, Pleasanton ..... 8212-3	Richard A. Kull, Altoona ..... 4411
Donald J. Knaple, Livermore ..... 8232-4	James E. Hasson, Phoenixville ..... 4412
Janice Y. Long, Livermore ..... 8212-5	John D. Simchock, Atlas ..... 4412
Albert W. McKinney, III, Pleasanton ..... 8141-3	Texas
Glen R. Osborn, Los Angeles ..... 3465	Jimmie L. Bauman, Fort Worth ..... 8123-1
Lucinda Reeves, Livermore ..... 8212-5	Herbert H. Kothe, Arlington ..... 8116-1
Clarence Rogers, Livermore ..... 8222-1	Utah
*James F. Schon, San Bruno ..... 8114-2	John W. Turk, Salt Lake City ..... 8114-4
Lester C. Simons, La Mesa ..... 8114-1	Virginia
John Unger, Sherman Oaks ..... 8114-1	Ernest R. LeDuke, Charlottesville ..... 1631
Georgia	Washington
George W. Stone, Jr., Atlanta ..... 5144	Jerry M. Carter, Seattle ..... 8124
Idaho	Donald A. Clarin, Seattle ..... 8141-1
Gerald J. Rohwein, Moscow ..... 8121-1	Thomas F. Meagher, Seattle ..... 8121-2
Gary R. Waymire, Moscow ..... 8153-2	Charles H. Seaborg, Seattle ..... 8121-2
Illinois	* Denotes rehired
*Jack E. Marceau, Elmhurst ..... 2421	Returned from Leave
North Dakota	Elizabeth A. Larrick ..... 3462
John A. Milloy, Wahpeton ..... 2541	Harriette J. Melton ..... 3461

# Sandia Corporation Organization Chart





Benny Anaya  
3242  
Aug. 7, 1950

10  
Year  
Pins



Tony Gabaldon  
4516  
Aug. 7, 1950



Walter L. Smith  
4542  
Aug. 7, 1950



Robert M. Hines  
4412  
Aug. 8, 1950



Curtis P. McMurtrey  
3242  
Aug. 8, 1950



Vaughn B. Atkins  
4511  
Aug. 9, 1950



Harry M. MacNeill  
4412  
Aug. 14, 1950



John Platero  
4518  
Aug. 14, 1950



Oscar M. Fligner  
1247  
Aug. 14, 1950



John P. Logan  
3451  
Aug. 14, 1950



Elizabeth L. Frost  
1442  
Aug. 15, 1950



Pedro Ortiz  
4518  
Aug. 15, 1950



Francis H. Treon  
3242  
Aug. 14, 1950



Harry C. U'Ren  
4135  
Aug. 14, 1950



Jacobo T. Peralta  
4212  
Aug. 15, 1950



Blanche Calaway  
3153  
Aug. 16, 1950



James M. Murray  
4421  
Aug. 18, 1950

Softball Standings

Five Year Pins

Aug. 6-19

Christine Baca 4113, James Carmody III 4135, Marjorie E. Endres 5125, Robert A. Stewart 4224, Geoffrey J. Lynch 5513, Patricia Garcia 4575, Charles D. Herndon 5332.

Pedro S. Ortega 4212, M. Q. Fortenbury 4423, Robert L. Parker 1424, S. Joanne Myers 3461, Vlasta E. Hruska 5130, Stoughton Bell II 5122.

American League		
Team	Won	Lost
4100-4300	15	3
6200-5300	13	5
1200-II	12	6
1600	8	10
2400	6	12
3400	4	14

National League		
Team	Won	Lost
31-42-4500	13	9
2500-5100	13	9
4400	13	9
1300-1400	12	10
2700-5500	12	10
1200-I	8	14

Organize Bowling

An organizational meeting for Coronado Club league bowling will be held Monday, Aug. 8, at 7:30 p.m. at the club. Representatives of groups interested in forming winter leagues are urged to attend. All club members are eligible to participate.

For additional information contact Jim deMontmollin (1262), ext. 32158.

Jim Leonard Wins Memorial Tourney at UNM Golf Course

Playing a consistent golf game, Jim Leonard (1247) won the third annual Spec Stewart Memorial tournament at the University of New Mexico course recently.

On the first 18 holes, Jim was three strokes off the pace with a 73. His 74 the next day placed him in a three-way tie for the lead.

Jim shot another 73 on the last 18 and finished two strokes out in front in the championship flight. Besides receiving a traveling trophy and a smaller trophy for himself, he won a new set of irons.

Fred Silva (5521), who came in second in the fourth flight, received a set of woods. John Olson (4424) came in fourth in the first flight.

Connoisseurs of Salad Dressing Liberated from Toils by New Discovery

Gourmets who have vigorously shaken bottles of vinegar-base salad dressings to mix the ingredients, only to have them separate again immediately, can now rejoice over a discovery by Ralph Richards (8141-1), an amateur chef who found a way to keep them mixed longer.

"The magic emulsifier is methyl cellulose," says Ralph, "which is tasteless and harmless."

The "secret" formula calls for crushing and dropping half a 5-grain tablet of methyl in six to eight ounces of dressing. Tablets are sold in all drug stores without prescription.

Boy Scouts Led By Sandians Appear on 'Wide World 60'

Boy Scout Troop 78 appeared last Saturday on the national television show "World Wide 60." The program presented the troop performing various scout activities at the national Jamboree at Colorado Springs. The Albuquerque troop was chosen from hundreds attending.

E. L. Bolton (4361) is scoutmaster of the troop and James Brown (5513) is assistant scoutmaster.

Trailer Club Members Plan Weekend Outing

The Thunderbird Travel Trailer Club is planning a week-end outing Aug. 6-7 to the junction of the Pecos and Mora Rivers.

According to recently-elected President Walter L. Kurlfink (4252), the trip will start promptly at 8 a.m. tomorrow from the Alameda interchange on New Mexico highway 422.

Other Sandians who are active in the trailer club are Roland Cleveland (4412), N. Arthur Cordova (4233), Mary Mayginnnes (4251), J. C. Wardlow (1224) and J. C. Zimmerman (1262).

Sandia Engineer Guest Instructor At Coaching School

A Sandia engineer will be guest wrestling instructor at the 16th New Mexico coaching school to be held Sunday at the University of New Mexico campus.

Dick Govig (2544) was a Big Ten Conference and NCAA 123-lb. division wrestling champion in 1956 while he was attending the University of Iowa.

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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

- AQUARIUM, 5-gal. with all accessories, \$12. Gross, AL 5-7327.
- FOOTBALL SHOES, size 8 1/2, worn only three days, \$7. Anderson, 3027 General Chenault, AX 9-2575.
- DOBERMAN PINSCHER, male, 14 mo., AKC papers, has some obedience training, \$75, terms available. Rivera, AL 6-9526 after 5 p.m.
- ON CITY water, no longer need Fairbanks-Morse 1 hp water pump, 82-gal. tank, air volume control, \$100. Galbreath, DI 4-4306.
- MAPLE BED, single, complete, and maple dresser; portable steam bath. Kostka, AM 8-8793.
- BUNK BEDS, limed oak, \$25, mattresses included if desired. Clark, AM 8-7414.
- '49 CHEVROLET, runs well, \$125 or make offer. Shadel, AM 8-1846.
- 2 BR home, w/w carpet, covered patio, fruit, air conditioner. Roughton, AX 9-3347.
- PORTABLE AIR conditioner, Marvelaire, 2-speed 24" x 19" x 15" with stand; almost new, \$40. Moser, AM 8-8738.
- TRUMPET, B-FLAT Ambassador made by Olds. Ideal for beginning student, \$65, terms arranged. Kirby upright vacuum, unused attachments, \$25. Kubiak, AL 6-1513.
- '58 FORD fordor Fairlane 500, Thunderbird engine, Cruisomatic, factory Selectaire conditioning, many extras. Preston, AX 9-1948.
- LIONEL TRAIN, "O" gauge, engine, 9 cars, 2 pair remote switches, 75' track, station, many accessories, \$52.50. Anderson, AM 8-4188.
- 2 BR, basement, stove, refrigerator, dishwasher, air conditioner, water softener, carpets, sprinklers. McKay, AL 5-5658.
- FRIGIDAIRE 9' refrigerator, \$30; TV table model 16", \$10. Class, AX 9-6648.
- DRESS FORM, Jr. size 9-15, \$5. Cox, AX 9-4288 after 5 p.m.
- CAMP TRAILER, canvas top, sleeps five, boy's Schwinn 24" bike. Houghton, AX 9-3386.
- '49 FORD 1/2 ton pickup, 4 speed, \$300. Trujillo, AX 9-4911.
- '49 FORD, flathead motor, V-8. Martinez, AX 9-1918 after 5 p.m.
- '54 FORD Crestline, F-O-M, R&H, WW, 4-dr., tutone yellow-white. One owner, 46,000 miles. Best reasonable offer. Hosterman, ext. 3-9182.
- GREEN BROADLOR rug, 9 x 13; round 2' wall mirror, 2 scones; framed print, fall scene, best offers. Baldwin, AM 5-0778.

GOLDEN HAMSTER and steel cage complete with exercise wheel and self-serve water bottle, both for \$5. Herndon, AM 8-8269.

'50 STUDEBAKER Champion 4-dr. sedan, \$150; practically new 30-30 Winchester 94, peep sight, recoil pad, \$60. Shinn, ext. 4-9153.

JEEP w/TRAILER, 4WD, complete overhaul of motor and body. Has cab, 6 new tires, hubs, towbar, accessories. Etherton, CH 7-9645.

CURTAINS, no iron, white, two pair 40" x 85", two pair 60" x 85", \$10 for the four pair. Smith, AX 9-6873.

WINCHESTER MODEL 94 30-30, carrying case, sling and shells, \$55. Precit, AX 9-3438.

3 BR HOUSE, attached garage, walled back yard, grass front and back, sprinklers front, shrubs, trees. Wickham, AL 5-4800 after 5 p.m.

REDWOOD PICNIC table, 5', with separate benches, \$15 or best offer. Wagner, AX 9-2347.

LUGGAGE TRAILER, one wheel w/2 universal hitches, all steel body, both canvas and plywood covers. Whitford, AX 9-4271.

PRINCESS JEANNE 3 BR stucco, garage, patio, lawns, drapes, stove, \$13,500; cash down \$500. GI loan, \$74 month. Forbes, AX 9-4383.

STAUFFER POSTURE couch. Be your sylph; make an offer on my Stauffer. O'Neill, 514 Amherst SE, AL 5-6355.

GE PORTABLE 17" TV \$50; 4 basket chairs \$10. McMaster, AM 8-8062.

3 BR HOME, w/w carpeting, garage, sprinklers, screened patio, reasonable down payment. Glaze, 8802 Woodland NE, AX 9-4340.

AKC BEAGLE puppies, excellent markings, champion background. Mead, 1305 San Pablo NE, AL 5-3403.

'53 CADILLAC, Fordor, R&H, \$495; 16mm B&H magazine camera F1.5; Mahogany console AM-FM TV, 3-speed, new diamond. Hueter, CH 2-1620.

MANKIN, 3 BR, forced air heating, hardwood floor, walled yard, built-in range and oven. GI loan. Robinson, AX 8-2244.

21" SILVERTONE TV with stand, \$60. 17" Stromberg Carlson, old but works well, \$30. Wyant, AX 8-0371.

QUEEN SIZE bed with bookcase headboard, box springs, beautiful taffeta bedspread almost new, will discuss price. Mier, AL 6-4790.

PICNIC TABLE, \$3; sandbox, \$4; display cases for small items or dolls, \$3, \$4; 1.9 movie camera, \$29. Villella, AX 9-7915.

1959 ALLSTATE motorcycle 125 cc, recently overhauled; Pan American clarinet of light violin wood. Costello, 1828 Blume NE, AX 9-0563.

BOAT, 12' aluminum, with 1960 Scott 7 1/2 hp motor, skipper's chair, cushions, oars, loader and cartop carrier, \$395. Pappas, AM 8-0781.

GOLF CLUBS, 3 woods, 8 irons, putter, nylon bag. Risse, AX 9-5002.

POWER MOWER, electric rotary, 16" blade \$15; folding clothesline frame, \$5. Randall, AX 9-3935.

GASOLINE ENGINE, "Onan" 2 cylinder 4 hp, 4 cycle, \$35. Tarbell, AL 6-1322.

NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Aug. 12

KNOTTY PINE gate with 2 x 6" posts, ready to hang on black wall or fence, \$15 cash. Cook, 11109 Morris Place NE, AX 8-0851.

ROSE TRELIS, 8', fan type, very sturdy. Lacey, 5801 Arvilla, AL 6-1338.

WADING POOL, Doughboy sunline, 13' diameter, 30" deep. Will help install, \$135. Smith, 3712 Alvarado NE, AX 9-8676.

WINCHESTER MODEL 50 shotgun, 12 gauge, lined case and cleaning kit. Used once. \$150 value for \$70. Stark, AM 8-6282.

ELECTRIC STOVE, apartment size, 4 burners, Frigidaire. Blasyk, AL 5-2218 after 5 p.m.

TAPE RECORDER, Viking '85, and 2 Viking RA 72 recording amplifiers. Willard, AL 5-2429 after 5:30 p.m.

NORTH VALLEY home, 2 BR on large lot, trade for small farm acreage with one or two BR home out of city limits. Haley, DI 4-3919.

2 BR home, air conditioned, landscaped, walled, hardwood floors. Near bases and University. Vigil, 1420 Wilmore SE, CH 3-1817.

STAUFFER COUCH, deluxe model, slightly used, \$100. Mancuso, AX 9-5252.

BOOKCASE, BLACK and gold wrought iron. Hardly used. \$5. Moyer, AX 8-1778.

TWO NEW auto oil filter inserts, Sears' replacement for Fram F-4. \$2. Pardee, AL 5-1998.

21" GE console TV, blond mahogany cabinet, no marks or scratches, concealed casters for easy moving, \$100. Knight, AX 9-2700.

LADIES SUITS, dressmaker, size medium; swim suit, gold metallic blue satin, size 12. Tendall, ext. 2-3195.

GIRL'S BICYCLES, 2 J. C. Higgins, 26". Callahan, AX 9-3273 after 5 p.m.

MUSIC METRONOME, Seth Thomas 40-208 beats per minute, \$5. Signal corps beacon receiver, BC-1206A, 200-400 KC, detrola, \$7.50. Deeter, AL 5-5789.

DELTOX RUG, 6 x 9 grey and black, \$5; set shower and window curtains for bath, blue and white, \$3. Harper, AX 8-0146.

TANK VACUUM, Kenmore, with attachments, \$15. Sargent, AX 9-0427.

MOTOR SCOOTER, Allstate, good tires, \$65 or best offer. DeZeeuw, 3526 Thaxton SE, AL 6-0205.

REMINGTON 513T .22 cal. target rifle, Redfield micrometer sights, \$40; new safety shoes style 1613, \$5. Bierly, AL 6-7780.

AUTOMATIC WASHER, ABC, \$30. Hopkins, 413 Mesilla NE, AM 8-0885.

BATHROOM WASH basin, complete with fixtures, \$7.50. Hansen, 1104 Monroe SE, AL 6-1216.

'55 BUICK convertible, clean, with cont. kit; must sell. Keller, AL 5-9805.

OUTBOARD MOTOR, 3 1/2 h.p., Atwater, \$37.50. Kutzley, AL 5-3572.

PUPS, 6 weeks old, Cocker and Toy Collie result of indiscretion, males only, ready to love, \$7.50 each. Elliott, AL 6-7909, 4809 Madison Ct. NE.

MAYTAG WASHER, wringer-type, w/pump, \$25 or best offer. Jones, DI 4-9393.

SWIMMING POOL, brick home, 1 1/2 baths, 3 bedroom, 12x18 service porch, den, w/fireplace, peach trees, FHA financing or terms, \$21,000. Lambert, AL 5-9630, 5910 Hannett NE.

3 BR HOME, 1 1/2 baths, brick, Hoffman, corner lot, sprinklers, air conditioned, dishwasher, garbage disposal, \$800 down. Thompson, AX 9-0092, 2702 Mesa Linda NE.

'58 PONTIAC, 4-door Catalina, white wall tires, power brakes, air conditioned, \$1100. '54 Chevrolet, 2-door, R&H, \$385. Kingsley, AX 9-1226, 9630 Elvin NE.

TUBE TESTER, Superior TR11, will trade for hi-fi equipment. Gabaldon, CH 7-2672.

'49 STUDEBAKER, 4-door, 6-cylinder, overdrive, \$200; pump, deep well, submersible, 1 hp, cost \$440, sell \$300. Harrington, BU 2-3114, Edgewood, N. M.

BABY BED, double drop side, w/mattress, \$22; Cosco metal high chair, \$8; nursery chair, \$2. Benischek, AL 6-7869.

'51 FORD pickup, V-8 engine, 4-speed transmission, body is a little roughed up but runs perfect, \$125. Gonzales, CH 2-5084, 5943 Eucary SW.

'53 CHEVROLET Bel Air, 4-door, R&H. Fisher, AL 6-2891.

COMPLETE BED, twin size, \$25; rocking horse, \$5. Harrison, AL 6-0216.

SHOES, size 5AAA, one pair white sandals, one pair black heels. Gurule, AL 5-7371 after 5.

AUTOMATIC WASHER, Kenmore, and Windsor dryer, both for \$190; 8-piece blond dining room set, \$125. Murray, DI 4-5289.

ELECTRIC RAZOR, new Schick, men's, almost new, \$10 or best offer. Martinez, AX 8-1665.

SMITH CORONA standard typewriter, 1957 deluxe, pica type, \$60; man's 26 in. English bicycle, \$25. Sherwin, AL 5-8866.

ALLSTATE MOTORCYCLE, 1959, 5 h.p., 1100 mi. \$200. Calvery, AM 8-0351.

'60 MOTORSCOOTER, Cushman Eagle, 8 hp, \$495 value, will sacrifice for \$295. Alsip, 3121 Country View Rd. SW, CH 2-1316 after 6 p.m.

MOSSMAN HOME, two years old, only \$17,500. 1420 sq. ft. living space, many extras, excellent neighborhood. Hersey, AM 8-5950.

FOR RENT

- HOFFMAN ROYAL, brick, 3 BR 1 1/2 baths, attached garage, landscaped, convenient to schools, rent or lease. Craig, AX 9-8719 after 5 p.m.
- 3 BR 1 1/2 bath, air conditioned, built in range and oven, drapes, fireplace, hardwood floors, central heat, sprinklers. Bell, AX 9-5254.
- 2 BR HOME, completely furnished, water and garbage paid, \$95, available after Aug. 1. Pitti, AL 6-1629.
- 3 BR HOME, 1 1/2 baths, near Sombre del Monte, Madison, Sandia schools, water garbage paid, \$125 per month. West, Ext. 24254, 9301 Alta Monte NE.
- 3 BRM HOME, Princess Jeanne, 11,300 Constitution NE. Montoya, AX 9-8967 after 5:30.

WANTED

- RIDE WANTED from 4600 block Trumbull SE to 880 parking lot. Burgess, AL 6-0723 after 5 p.m.
- RIDE WANTED from vicinity of Moon Street and Candalaria to Bldg. 836. Burroughs, AX 9-1851.
- RIDE WANTED from 2817 Carol NE to Bldg. 844; will walk to Candalaria and Eubank. Carlson, AX 9-6610.
- RIDE WANTED from vicinity of 2723 Madison NE (1 1/2 blocks north of Menaul) to Bldg. 800. Besser, AM 8-5194.
- RIDERS WANTED from vicinity 1700 Lead SE to Gate 4 of Corp. Checchio, CH 3-6351.
- RIDE WANTED from 721 Marcella NE to Bldg. 800. Gonzales, ext. 4-3254.
- BARBER TYPE heavy duty hand massage vibrator. Hurley, AL 5-6956.
- OLD HUNTING knives of any kind and Nazi short swords. Will pay cash. Smith, AX 9-1096.
- SPECIALIZED CHILD care in my home. Licensed. Balanced lunches and planned activities. Ages 3-4. Whitlow, 2913 Florida NE, AM 8-1142.
- TRADE EQUITY in three bedroom home for large house trailer in good condition. Gray, ext. 52147.
- RIDERS WANTED who work near gate 4 or 5 and live in vicinity of Riverside south of Bridge. Selph, CH 3-2332.

LOST AND FOUND

- LOST—Safety prescription glasses; glasses in brown and white case marked Everett; red and black pencil marked Auto Paint; pearl and chain screw-type earring; safety sun glasses in old brown case; golf club lost on parade ground; Scheaffer pencil, wine colored; black Scheaffer pen and pencil set. Lost and Found. Ext. 26149.
- FOUND—1960 license plate No. M-6050; key for '55 Ford; black button earring with gold rim; single key on ring; safety glasses; gold double square tie tack. Lost and Found, Ext. 26149.

LIVERMORE FOR SALE

- RADIO, SW, BC 348R, rectifier mounted in chassis, \$50. Beers, HI 7-2572.
- BOAT HULL, Glen L. "Hot-Rod", black, mahogany deck, bottom glassed, no hardware, woodwork finished, trailer, \$800. Reitz, HI 7-4291.
- '59 FORD, Galaxie convertible, black, 225 hp, Cruise-O-Matic, power steering, VW tires, R&H, 19,000 miles. \$2,595 or reasonable offer. Juckeland, HI 7-6199.
- '60 RENAULT DAUPHINE, low mileage, take old car for equity; paint sprayer, electric, 1/2 hp, accessories, sell or trade. Gilliam, HI 7-0393.
- UTILITY TRAILER, two wheel, spare wheel and tire, \$40. Guerin, HI 7-0726.
- AUTOMATIC WASHER, G.E., completely overhauled, \$85. Wedgewood gas range, \$15; Muntz TV, 27 inch, \$125. Henderson, HI 7-4417.
- CAMERA, 35mm, Minolta "A", f3.5-f22 to 1/300 sec., leather case and strap, Coronet B light meter, \$40 or best offer

# Hazards of the Hills Should Cause Sandia Father Worry

If you are a typical Sandia father, the odds are good that sometime this summer you will hear cries of:

"Let's go on a picnic!"  
"Why can't we camp out tonight?"

Or — "Let's go to the mountains."

Chances are very good you'll wind up doing one before the week is out.

Living where you do (near to the great out-of-doors in New Mexico, California, or any of a number of locations throughout the country) you all know the ins and outs of picnicking and camping. If you don't the National Safety Council is worrying about you. They want to point out a few cautions which can mean the difference between an unpleasant outing and an accident-free time of fun.

Because hiking and camping are largely unorganized activities, few national accident statistics are available. But reports filtering in from across the nation indicate that two major hazards are poisonous plants and poisonous reptiles.

Most persons are immune to the effects of the majority of the 60 kinds of U. S. plants that can cause skin irritation. But nearly everyone who touches poison ivy, poison oak or poison sumac is affected somewhat.

Poison ivy is either a low shrub or a climbing or creeping vine. Plant leaves, which may be notched or smooth, are arranged in groups of three on short stalks of unequal length. The leaves are shiny, dark green in summer, brilliant orange or scarlet in fall.

Found in woods or in the open, in dry or moist locations, along fence rows, paths, roadways or in places where birds roost, and in

every state except California and Nevada.

**Poison oak**, similar to poison ivy, is usually a shrub but sometimes a vine. The leaflets (which resemble small oak leaves) occur in groups of three, are deeply lobed and somewhat hairy.

**Poison sumac** (aliases: poison ash, poison dogwood, poison elder and thunderwood), a shrub, may be found as a tree 20-30 feet tall. Its leaflets are sharply pointed, smooth and oily. Has smooth, cream-colored "berries" growing in loose clusters along the side of the branch or stem.

Best way to avoid getting ivy poisoning, says the Council, is to stay away from the poisonous plants.

Now as to snakes:

The 20 species of poisonous snakes fall into four major groups: coral snake, rattlesnake, copperhead and water moccasin.

**Coral snake**, slender with

smooth, glossy scales, usually is less than three feet long. Color: wide red bands bordered by narrower bands of yellow or white.

**Rattlesnake** (21 varieties in the United States alone) varies in length from 15 inches to eight feet. One similarity between the varieties: the rattle at the end of the tail, which warns when the snake's been disturbed.

**Copperhead**, pale brown, pinkish or light reddish brown with a copper-colored head, usually is three to four feet long. Can be spotted by a series of large blotches (usually a rich, chestnut brown) on its sides.

**Water Moccasin**, an aquatic serpent, lives along streams, lakes or in swamps, grows to a length of six feet. Colors: dull brown or olive.

Precautions: Give a snake—even one you think is harmless—a way out. Seek immediate medical attention if attacked.

## 'Take Me Out to the Ballgame' Has More Meaning in Game Like This

Umpires in Sandia's softball league almost dropped their rule books recently when 3400 and 4100-4300 teams started play.

There was no need to because Joe Mickey, manager of the 3400 team, used a convenient loophole in the rules as basis for a stunt to drum up more team members for 3400.

It seems that after a normal warmup period the umps called "Play Ball." Instead of the regular crew of men that made up the 3400 team, an entirely new nine-

man team hit the field. "Nine-man" is the wrong word. "Nine-woman" is correct.

Headed by Ruth Cushman, the women took to the field and did a creditable job for a couple of innings. Members were Babe Gallegos, Mary Mickey, Doris Weber, Marilyn Douglas, Rebecca Maglidt, Ordia Jolley and Dorothy Ord.

"I think we may be able to get a little more male participation for the team after this," manager Mickey said. "If not, the girls can do the job."



DISAGREEMENT HERE between the overwhelmed umpire and the irate women is the legality of their substituting for the regular members of 3400 softball team. Through a loophole in the rules, the women played. They are from left Janet Jenkins (whose face is barely visible), Kathy Gilbert (with

bat), the center figure is a double exposure of Marilyn Douglas and Ruth Cushman, Marilyn appears next with a clenched fist and on right is Becky Maglidt. All work in 3463. Oreste Ganzerla (3463) took the gag picture. The women played 4100-4300 which took the contest by a score of 21-7.

### Sandia Clean Room Featured in Magazine 'Test Engineering'

Sandia Laboratory's "clean room" in Bldg. 802 was featured on the cover of the June issue of *Test Engineering*.

Various devices limit dust particles to 8,000 or less per cubic foot when the environmental room is unoccupied. Members of Advanced Development Section II, 1322-2, when working in the room, wear special nylon smocks, hoods and plastic boots to keep the dust count low.

The facility is utilized by different Sandia Corporation organizations.

## Sandia's Safety Record

**Sandia Laboratory HAS WORKED 13,735,000 MAN HOURS OR 383 DAYS WITHOUT A DISABLING INJURY**

**Livermore Laboratory HAS WORKED 3,519,000 MAN HOURS OR 1,629 DAYS WITHOUT A DISABLING INJURY**



EASY ACCESS TO THE "innards" of Sandia's new high resolution mass spectrometer is shown in photograph above. Racks of components fold out for rapid checking such as J. W. Guthrie is performing. The instrument was the first commercially available one.

## Mass Spectrometer Placed In Lab Of Advanced Development Division

A new high resolution double-focusing mass spectrometer was recently installed in the Advanced Development Division 1413 laboratory in Bldg. 802. The first commercially available instrument of its kind, the Sandia mass spectrometer provides a variety of ion sources and ion detection systems for materials research.

Included in the instrument's accessories are a radio frequency spark ion source, a high voltage gas ion source, an isotope ratio detector system including an electron multiplier, a five galvanometer recording oscillograph and a photographic plate ion detection system.

Masses from atomic weight 7 through 238 can be recorded with high resolution on the photographic plate on a single setting.

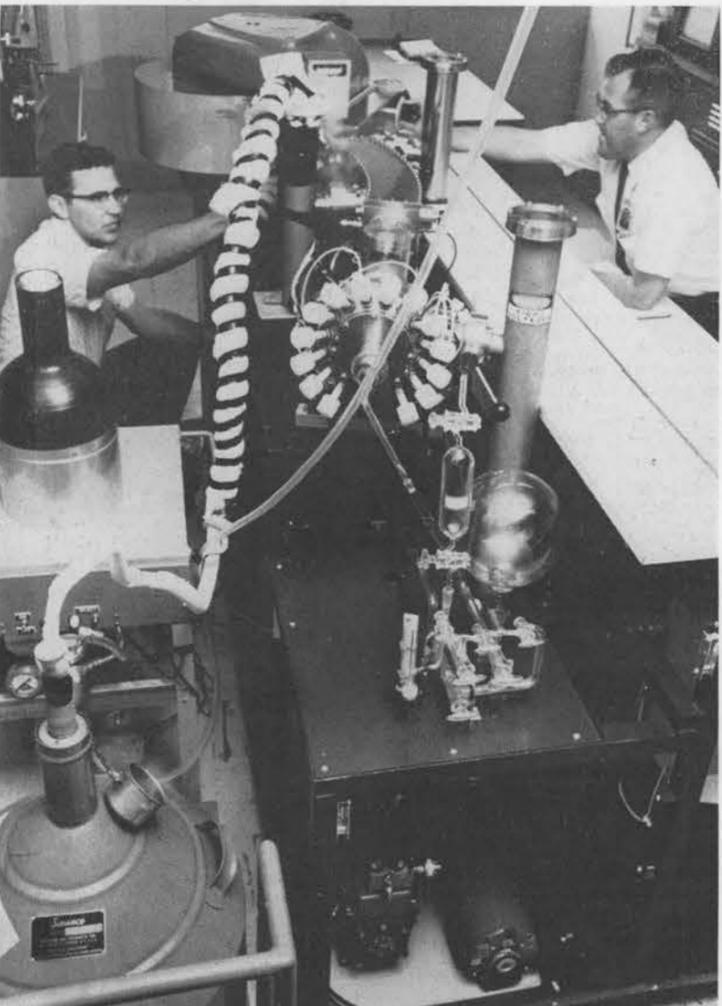
Analysis projects to be conducted with the mass spectrometer in-

clude ion beams produced by special purpose ion sources, trace bulk impurities in metals and non-metals, residual gases in special vacuum tubes, dissolved or chemically combined gases in solids, surface contaminants on various materials and critical analysis of process gases used in special purpose electron tubes.

In addition, studies involving adsorption and desorption of gases in the ionized state on metal and glass surfaces are planned as well as analysis of the vapor phase of various metals as they are being evaporated.

The instrument was built by the Analytical and Control Division of Consolidated Electrodynamics Corporation, Pasadena, Calif.

J. P. Shoup is supervisor of the Advanced Development Division 1413. J. W. Guthrie will be in charge of operation of the new mass spectrometer.



SANDIA'S NEW MASS SPECTROMETER is shown in its installation in the laboratory of Advanced Development Division 1413. Making preparations to operate the instrument are T. C. Bryant, left, and J. W. Guthrie. It is a double-focusing instrument.