



SIGNING UP—D. E. Irvin (left), supervisor of Employee Benefits Division 3122, and Paul E. Brewer, Jr. (3122), enthusiastically endorse the new Second Supplemental Group Life Insurance Plan now offered to employees. They handled much of the arrangements for the new program.

Second Supplemental Group Life

New Insurance Plan Offered Employees

Enrollment period for the new Second Supplemental Group Life Insurance Program opens Monday, Jan. 3, when employees receive enrollment cards and a folder detailing provisions of the coverage.

This program is an extension of the present Supplemental Group Life Insurance plan.

In announcing the new insurance program, it was stressed that the purpose of the plan is to make available a supplement to private insurance. You may obtain life insurance equal to one year's salary (rounded to the next highest thousand) at very low cost, made possible by low group rates.

The rates are based on age. If the employee is under 40, his insurance will cost 20 cents per month per \$1000 of coverage. From age 40 to 50, the rate increases to 35 cents per \$1000, and from 50 to 60, the rate is 60 cents per \$1000. Coverage will cease when the employee reaches age 60.

The termination of insurance at age 60 helps keep the cost at a minimum, provides

additional protection during the period of peak need for most families, and is complemented by the spouse's benefit provisions of the newly-revised Retirement Income Plan.

Under the new provisions of the retirement plan, an employee's spouse will receive as a death benefit an annuity equal to one third of the employee's accrued annuity. This feature is automatic if the employee has attained age 55 and completed 15 years of active service. It provides a lifetime income for the surviving spouse.

An example of the new insurance plan follows:

An employee with an annual salary of \$6500 would be eligible for \$7000 coverage and would pay 7 x 20 cents or \$1.40 per month until he is age 40. If the employee is age 40 but less than 50, he would pay \$2.45 per month, and an employee with this coverage whose age is between 50 and 60 would pay \$4.20 per month.

Among the requirements for enrollment

in the plan is participation in the present Supplemental Group Life Insurance Program. About 95 percent of all Sandians are currently enrolled in this plan which provides life insurance coverage equal to the individual's annual salary with double indemnity coverage for accidental death. This present Supplemental insurance may be continued, in a reduced amount, after the employee retires.

Those employees who are not now enrolled in the Supplemental Life Insurance Program may enroll for both plans during the enrollment period for the Second Supplemental Plan.

The basic enrollment period will be Jan. 3-13, but enrollments will be accepted through Jan. 31. Employees who enroll before Jan. 13 will be covered without charge from Jan. 16 until the end of the month. A premium will be deducted for February coverage. Those who enroll after Jan. 13 will be covered effective Feb. 1.

No medical examination is required for employees who enroll now.

R. J. Blount Will Attend WE Training Course



R. J. Blount, manager of Budget and Disbursements Accounting Department 4130, has been selected to attend one of the most advanced training courses in industry — Western Electric Company's five-month Management

Training Program (MTP).

Mr. Blount will be starting the course Jan. 9 at WE Company's New York office building at 222 Broadway.

The purpose of the MTP is to provide a solid base of knowledge, skill, and values on which to construct a management career that will make a significant contribution to the business. Built into the program is the philosophy that growth and development are continuous processes, to be sustained for life.

The program is basically oriented to management of business, but it has sufficient scope to consider life goals and responsibilities of citizens in a free society.

The course will provide sections on personal development, labor relations, administrative policies and practices, business in the American economy, managerial controls, management science, and public affairs — community relations. Highlights of this last section will be one week in Washington, D. C., for first-hand observation of government in action, and a week with the Foreign Policy Association in New York studying foreign affairs.

Mr. Blount came to Sandia in July 1950 after receiving a Bachelor's degree in business administration from the University of New Mexico. He headed divisions in Technical Information, General Accounting, Budgeting, and Cost Accounting before promotion to his present position in February 1959.



SANDIA LAB NEWS

VOL. 18, NO. 26, DECEMBER 30, 1966

SANDIA LABORATORIES ALBUQUERQUE, NEW MEXICO; LIVERMORE, CALIFORNIA

OPERATED BY SANDIA CORPORATION FOR THE U. S. ATOMIC ENERGY COMMISSION

Group of 45 Potential Employees Visits Sandia for Interviews, Tours

Forty-five college students, potential Sandia Corporation employees, visited the Laboratory two days this past week. The group was here for job interviews and introductory tours of Sandia technical facilities and the Albuquerque community.

The visit was part of an employment program for the current academic year which calls for hiring 265 technical people and 35 administrative personnel.

"Competition for college graduates is keen," according to K. A. Smith, director of Personnel 3100. "In the 1965-66 school year, Sandia Laboratory hired 181 technical employees, including technical institute graduates, and 24 administrative staff members. Still, we didn't hire all that we needed because of the much tighter 'market' for the graduates. Today's graduate has a larger selection of job offers from which to make a choice.

"More industrial firms are now trying to recruit those students with the higher grade point averages," Mr. Smith said. "This has always been Sandia's goal, but

we are now faced with more competition in this area.

"In the 1950's," he continued, "Sandia was one of the few industrial firms which saw the value of technical institute graduates in research and development activities. Today, many firms are recruiting at the technical institutes."

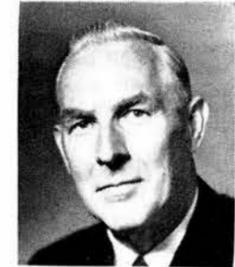
Having a group visit Sandia early in the academic year is one way of meeting the recruiting competition. A similar program may be conducted in early spring. The visit was made during the Christmas vacation from classes and was convenient for the students.

The group heard A. Y. Pope, director of Aero Projects 9300, describe Sandia's mission in the nuclear weapons program and some of the projects in other scientific areas now challenging the Laboratory. Mr. Pope spoke at an introductory session for the group at the Sphere of Science.

Following the session, the visitors toured the Wind Tunnel and Plasma Jet facilities, Environmental Testing Labora-

(Continued on Page Two)

H. I. Romnes Elected Chief Executive & Board Chairman, AT&T; Succeeds F. R. Kappel



H. I. Romnes, president of AT&T, has been elected chairman of the board and chief executive officer of AT&T, effective Feb. 1. Mr. Romnes will succeed F. R. Kappel, who is retiring.

Mr. Romnes was president of Western Electric Company and a member of Sandia Corporation's board of directors from 1959 until his election to vice chairman of AT&T's board early in 1964. He became president of AT&T on Jan. 1, 1965.

B. S. Gilmer will succeed Mr. Romnes as president of AT&T, and J. D. deButts will be vice chairman of the AT&T board.

ECP Contributions to Local Agencies Total \$241,645 for Year

Sandia Laboratory Employees Contribution Plan closed its fiscal year last week with the distribution of the November checks and allocation of the reserve fund. December ECP deductions begin the 1967 period.

A total of \$241,645 was contributed to the Albuquerque United Community Fund and the eight participating health and welfare agencies.

Final 1966 distribution of ECP funds was as follows:

United Community Fund\$200,173.73*
American Cancer Society 11,887.94
Bernalillo County Heart Association 8,456.39
Arthritis Foundation 4,122.67
N. M. Society for Crippled Children & Adults 6,791.10
Multiple Sclerosis 3,391.56
Cerebral Palsy 2,412.38
Muscular Dystrophy 2,909.39
Cystic Fibrosis 1,215.18

In addition to these amounts, Sandians contributed \$284.80 which was designated by the contributors for specific agencies.

Sandians have pledged \$261,532 to the 1967 Employees Contribution Plan.

*This year the reserve fund, \$1,205.18, was contributed to the United Community Fund, rather than to specified agencies.



LUMINARIAS outlining Bldg. 800, Christmas lights in the evergreens, and decorations on the entrance mall give Sandia Laboratory a glow-

ing festive look these holiday evenings. The lights will shine through the rest of the week, welcoming the new year.

Editorial Comment

With the New Year, Take a Look

At year's end, many of us look back to evaluate ourselves and the events of the year. We then make resolutions to do better.

This is also an opportune time to look at what we're doing on the job.

Are we effective as individuals and as organizations? Are we making the best use of our abilities? Are our specific objectives sound?

Are we following a given procedure simply because "that's the way it's always been done"? Are we guilty of bad habits or awkward routines that should be corrected? Are we bogged down in some area that shouldn't be a problem?

Perhaps we'll find that all of our methods and objectives are valid. But a re-evaluation is still necessary and worth the time. Even a few improvements in the so-called "routine" procedures may save hours of wasted time and may dispose of needless chores.

It's worth a look.

Sandia's Payroll and Plant Assets Increase During Calendar Year

Sandia's payroll for the calendar year 1966 amounted to approximately \$81.8 million, including the \$9.6 million payroll at Livermore Laboratory. For 1965 the figures were \$78.9 million and \$9.4 million respectively.

During 1966, the number of persons on roll averaged about 8065, including 974 at Livermore. This compares with the 1965 average of 8091, with 971 at Livermore.

Assets of the Atomic Energy Commission installations operated by Sandia Corporation totaled about \$202.5 million at the end of 1966, compared to \$182.4 million in 1965. These figures represent undepreciated values of buildings and facilities at Sandia Laboratory, Livermore Laboratory, and Tonopah Test Range.

Purchases by Sandia in the State of New Mexico amounted to approximately \$22.4 million for the calendar year 1966, based on actual figures for the first eleven months and estimated for December. The figure does not include purchases from other AEC contractors. In 1965, purchases in the state amounted to about \$21.3 million.

New Mexico firms doing business with Sandia during 1966 numbered 1482. All but 27 of these are Albuquerque firms.

Events Calendar

- Dec. 30—Lobo Invitational Basketball Tournament (Texas A&M, Colorado State, New York Univ., UNM), UNM Arena.
- Dec. 31—Deer Dance, Sandia Pueblo.
- Jan. 1—Annual sloop up La Luz trail, a New Mexico Mountain Club tradition. Eastdale Shopping Center at 8 a.m., leader is George Steck, tel. 299-2313.
- Jan. 1—New Year's Day dances at Cochiti, Taos, Zia, and San Juan Pueblos.
- Jan. 6—King's Day dances at most Pueblos.
- Jan. 8—Snowshoe trip, area depends upon snow conditions. New Mexico Mountain Club, leader Robert Kyrilach, tel. 344-3083.
- Jan. 12—Albuquerque Symphony Orchestra, Eugene Istomin, piano soloist. UNM Concert Hall.
- Jan. 12—Golden Gloves Boxing Tournament, Civic Auditorium.

Congratulations

Mr. and Mrs. H. A. Pleumer (4254-2), a daughter, Luanne, Dec. 9.

Mr. and Mrs. Joseph Lucero (4254-2), a daughter, Deborah Theresa, Dec. 12.

Mr. and Mrs. David Moseley (1512), a son, David Scott, Dec. 12.

Sympathy

To Thomas Dawkins (4622-2) for the death of his mother in Albuquerque, Nov. 26.

To O. B. Trujeque (4573) for the death of his sister in Long Beach, Calif., Dec. 22.

Mrs. Leigh Hendricks Presents Best Paper at Tech Meeting



Mrs. Leigh Hendricks, a programmer in Advanced Techniques Division 9424, presented the best technical paper at the Users of Automatic Information Display Equipment (UAIDE) last month in San Diego, Calif.

Judges selected her paper over 23 others presented during the three-day meeting which was attended by some 250 members of UAIDE. Members of the organization are interested in information display equipment and in promoting the free exchange of information on the use of such machines.

Mrs. Hendricks' paper was entitled "Color Development for the S-C 4020."

The S-C 4020 is a computer-recorder capable of high-speed translation of coded data into complex annotated graphs and drawings. Binary or binary-coded-decimal codes, received from the magnetic tape of a digital computer are converted into printed line drawings, combinations of letters and numbers, and curve plotting.

The "converted" information is recorded on photo-recording paper or on 16mm or 35mm film. Mrs. Hendricks' progress report discussed the changeover from black and white film capabilities to color film prints.

'The Congress'

"The Congress," an album of three LP records is still available to employees. The album is the second in a series of "Dialogues on Democracy" produced by Western Electric's Public Affairs organization.

The first album of the series is on "The Presidency" and is also available. A read-along text is included in each of the albums.

Albums, \$1.50 each, may be purchased during the noon hour from Employee Services Division in Bldg. 610 (at Livermore, Public Relations office, Rm. 138, Bldg. 912).

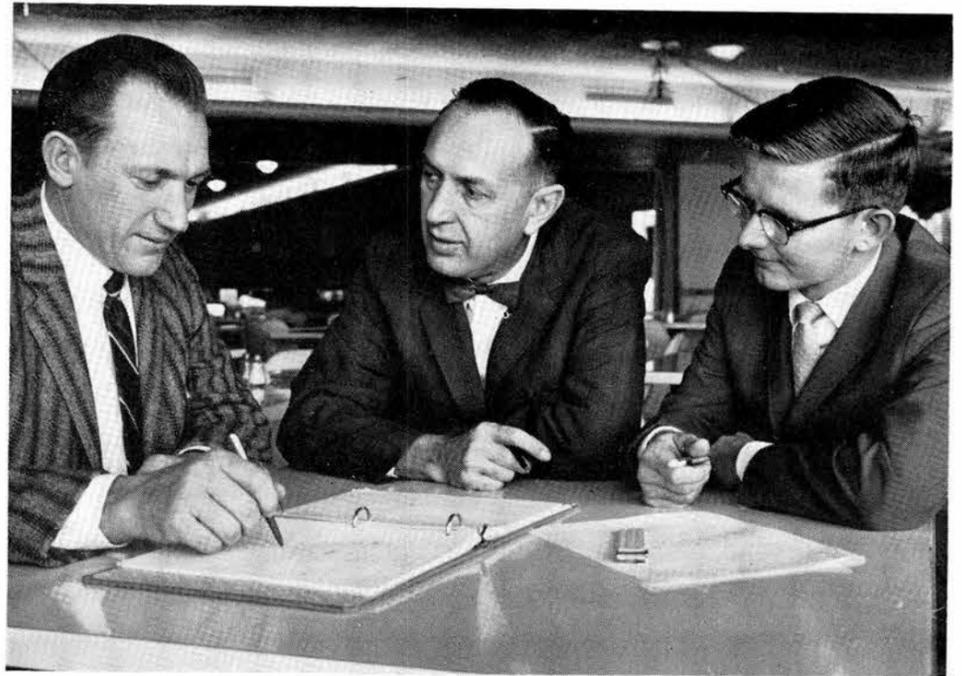
Death



Joseph Edward Eslinger, a painter in Plant Modification Division 4513, died Dec. 12 after an illness. He was 61.

He had worked at Sandia Laboratory since October 1950.

Survivors include his widow, two sons, two daughters, and seven grandchildren.



PLAN SYMPOSIUM—Discussing details of the Jan. 9 ISA Symposium on Shock and Vibration are (l to r) R. I. Butler (7342), symposium developer; F. J. Janza (UNM), ISA chairman; and J. E. Uhl (7321), program chairman.

Sandians Participating

ISA Symposium Set Jan. 9

A Symposium on Instrumentation for Shock and Vibration, sponsored by the Albuquerque Chapter of the Instrument Society of America, will be held Monday, Jan. 9, at the University of New Mexico. A number of Sandians are active in the planning for the symposium and will participate in the program.

Registration begins at 1 p.m. in the New Mexico Union building, UNM.

Four technical papers will be presented in the afternoon. Speakers and topics are:

"Transducers for Shock and Vibration Testing," R. I. Butler (7342).

"Circuits for Conditioning Transducer Signals," R. C. Dove, chairman, Mechanical Engineering Department, UNM.

"Frequency-Modulated Tape Recording," C. E. Lohman, Chief Instrumentation Engineer, Ampex Corporation.

"Effects of Filters on Transient Signals," J. L. Mortley (7334).

Following the afternoon session, a dinner will be held at the Silver Spur Restaurant.

Program chairman for the symposium is J. E. Uhl (7321). R. I. Butler is Symposium Developer. Sandia members of the chapter's executive committee include W. L. Jacklin (7334), J. H. McCutcheon (1334), J. D. Patrick, Jr. (7335), and T. S. Rathke (7334).

Frank J. Janza, UNM, is the ISA Executive Chairman.

A second symposium, "Advances in Dynamic Bio-instrumentation for Medicine and Research," is scheduled by the ISA Chapter May 15-17. This annual event promotes the art and technique of using instruments in obtaining physiological data in humans and animals. J. L. Mortley (7334) is serving as program chairman.

Retiring . . .



"You know, I've never been bored in my life."

Those words, spoken by George B. (Doc) Roberts, typify his feelings about his years spent at Sandia, and his approaching retirement.

Doc retires from Sandia today. He joined the Company in January 1955 and has worked in Specifications Division 2222 the entire time. His work has been in the area of specifications for electrical components. "I've maintained my interest in my work," he says, "because the work keeps changing—there are always new developments."

After he leaves his job, Doc and his wife plan some leisurely travel, "to look for a pleasant retirement spot." With this in mind, they recently purchased a travel trailer and are now adapting themselves to living in a smaller, more compact home. Doc says their pets—a dog and a cat—have already adopted the trailer as their new home.

The Roberts plan to visit their married daughter and other relatives and friends in California and Oregon, returning to Albuquerque next spring. Then they are going to travel to Pennsylvania and New Jersey. Their son, who was a Captain in the Army assigned to Viet Nam as an intelligence advisor, was killed in action about a year ago. Their daughter-in-law and four grandchildren live in Oklahoma, and they will spend some time there.

"The trailer and the traveling are an experiment," Doc says. "It's something my wife and I have wanted to do for a long time. We have no definite goal. The pleasant thing about retiring is not having to schedule our time."

"My 12-year connection with Sandia Corporation has been very satisfying, but this will be a new experience and we are both looking forward to it."

Continued from Page One

45 Visit Sandia

tory, Ion Plating facilities, and various laboratories.

Recent graduates of the visitors' schools, now employed at Sandia, were hosts to individuals of the group. Sandia directors met the students at a Coronado Club luncheon.

Employment Division 3151 made arrangements for the visit. John Wheeler, BS/MS college coordinator, scheduled and handled the program.

"There are several factors that we feel are distinctly in our favor in recruiting for Sandia Laboratory," Mr. Smith said. "Among these are the highly technical and viable climate of the Laboratory, the Albuquerque location, the outstanding Laboratory facilities we have here, and, of course, an excellent recruiting team."

"The enthusiasm of Sandians for their work and for New Mexico is also a great asset," he said.

SANDIA LAB NEWS



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LIVERMORE, CALIFORNIA

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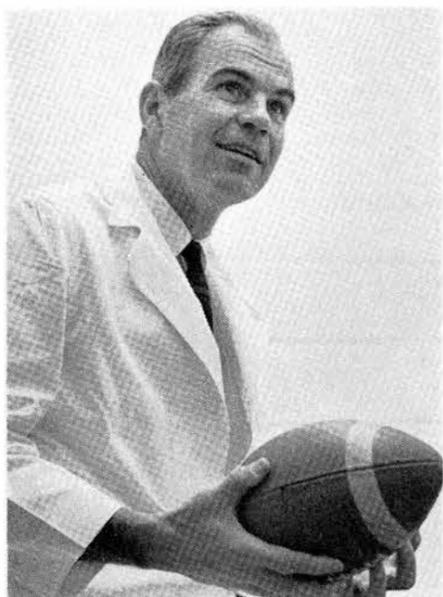
Staff: Cherry Lou Burns, Robert P. Gall,
Donald E. Graham, Bill Laskar

Public Information, Livermore, California
Rm. 138, Bldg. 912, Tel: 447-5100, Ext. 2387

William A. Jamieson, supervisor
Staff: Matthew J. Connors, Lorena Schneider

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SCLL Consultant Physician Named All-American by Sports Magazine



Dr. Max W. Biggs, SPORTS ILLUSTRATED magazine's All American.

Dr. Max W. Biggs, consultant physician for Livermore Laboratory and director of medical services at Lawrence Radiation Laboratory, has been awarded SPORTS ILLUSTRATED magazine's distinguished Silver Anniversary All-American Award.

Each year the magazine selects 25 men who played their senior year of college football 25 years ago (in this case, 1941) and who have accomplished extraordinary achievements since their graduation. The only other Californian winner is the late Frank Szalay of San Diego.

Dr. Biggs became a football star while attending DePauw University and was well known as DePauw's "glue-fingered" end. He also gained athletic fame when he made the all-Indiana team his junior year at the university. He won varsity letters in basketball and baseball.

Sailboat racing is now Dr. Biggs' favorite sport. He has been a crew member and navigator in all three of the major West Coast races: Honolulu, Acapulco, and Mazatlan. With his 36-foot sloop the "Hisbiscus," Dr. Biggs won second place in the L-36 class at the annual San Francisco Bay competition last summer.

He became interested in sailboat racing while a student at Harvard Medical School from 1941-45.

Upon completing his work there, he served in the U.S. Navy as Lieutenant j.g. in the Medical Corps.

Dr. Biggs earned a PhD in medical physics from the University of California in 1954, and has become a leading medical researcher in the fields of cancer and heart diseases. He has had 19 articles published in medical research magazines, including CIRCULATION and CANCER RESEARCH.

Some of Dr. Biggs' other achievements include fellowships from the Atomic Energy Commission, the American Heart Association, and the Arthritis and Rheumatism Foundation.

The year's Silver Anniversary All-American winners were featured in the Dec. 19 issue of SPORTS ILLUSTRATED magazine.

Sandians Organizing Chapter of ASCET

Two Livermore Laboratory employees, Jim Bauman (8111) and Loren Converse (8122-1), have been instrumental in establishing a local chapter of the American Society of Certified Engineering Technicians (ASCET). The chapter encourages participation in the engineering technician certification program sponsored by the National Society of Professional Engineers.

In order to become a member of ASCET, an engineering technician must have his technical qualifications and work experience certified by a national board. Jim Bauman notes that certificates are issued in three grades:

Junior Engineering Technician — requires either two years of elementary technical experience or graduation from a program accredited by the Engineer's Council for Professional Development;

Engineering Technician — requires certification as a Junior Engineering Technician plus the endorsement of two professional engineers that the applicant has had five additional years of technical experience;

Senior Engineering Technician — requires certification as an Engineering Technician plus the endorsement of three professional engineers that the applicant has had 10 additional years of applicable, progressive, technical experience.

According to Jim Bauman, 10 employees at SCLL are certified as Engineering Technicians, and many others have assignments which relate directly to the work experience needed to qualify for one of the three grades of certification.

All assignments must be performed for a professional engineer who is responsible for the activity.

Interested employees may get further information on the certification program and membership in ASCET from Jim Bauman or Loren Converse.

Congratulations

Mr. and Mrs. Lou Talleric (8152), a daughter, Nicole Marie, Dec. 3.

Mr. and Mrs. Ted Sneddon (8118), a son, Dec. 20.

Mr. and Mrs. Ed English (8132), a daughter, Katy Sue, Dec. 14.



BASKETS of glazed fruits, dates, and nuts distributed to Livermore Laboratory employees who were ill at Christmas time are displayed by Cindy Moore, division secretary in Employee Benefits Organization 8214, as she adds a few finishing touches.

LIVERMORE NEWS

Livermore Notes

L. S. Ostrander and J. F. McManus of Graphic Arts and Presentation Services Division 8233 briefed three faculty members of the San Ramon Valley Unified School District, Danville, Calif., at Livermore Laboratory recently. They discussed the kinds of equipment and techniques involved in the preparation of slide/tape presentations. The visitors were investigating how slide/tape presentations could be prepared and effectively adapted to classroom use.

Discount tickets are available to SCLL employees for the California Seals hockey game with San Diego the evening of Jan. 13 at the new Oakland-Alameda County Coliseum. For tickets on a first-come, first-served basis, contact Employee Benefits.

John Dini (8133) presented a technical paper before the Plating organization in the Electronics Industry Symposium held by the American Electroplaters Society, Inc., in Newark, N. J., Dec. 8 and 9. The paper, co-authored by John and Paul Coronado (also 8133), was entitled "Thick Nickel Deposits of High Purity by Electroless Methods."



Donna L. Lindbloom (8235)

Take A Memo, Please

Safety is always in season at Sandia—it's a year 'round thing. But in winter, ice, snow, and mud can create additional dangerous conditions for both pedestrians and drivers. So, TAKE HEED, AVOID A "WINTER" ACCIDENT!

H. H. Patterson to Address Livermore Colloquium Jan. 10

H. H. Patterson, manager of Information Systems Department 9230, will speak at the Livermore Laboratory Colloquium on Jan. 10. He will discuss current activities of Department 9230.

Mr. Patterson joined Sandia in March 1949. He was promoted to division supervisor in 1952 and department manager in 1955. Before assuming his present position in 1964, with responsibility for development of Vela Satellite logics systems, he headed departments in electronic systems, field test, and strategic systems.

He holds a patent on a detector for modulated and unmodulated signals and is the author of several articles published in electronics and trade journals.

Mr. Patterson received his BS degree from Tennessee Polytechnic Institute and during his military service attended U.S. Navy Radar Schools at Harvard University and Massachusetts Institute of Technology. He is a member of the IEEE and American Association for the Advancement of Science.

Further information concerning the colloquium will be posted on Laboratory bulletin boards the week of Jan. 9. Tickets are required for admission. D. E. Gregson (8130) is serving as host for the colloquium.

Retiring . . .



8222-1 since he joined Livermore Laboratory in October 1960.

Before joining Sandia, he was a cattle and sheep rancher in the Livermore Valley for almost 15 years. His 160-acre ranch was located on the Patterson Pass Road about two miles from the Laboratory. He can recall renting land which is now the SCLL parking lot for grazing his sheep. At that time it was a permanent pasture. He also worked six years for Coast Manufacturing Company in Livermore.

Prior to coming to the Livermore Valley, Nathan worked 22 years for the Southern Pacific Railroad Company in Oakland.

His plans for retirement are indefinite. "I've done a lot of hunting and fishing over the years," he says, "but for the immediate future I think I'll spend most of my time working around the house." Some of his co-workers suspect, however, that Nathan will eventually be back in the cattle and sheep business.

Nathan and his wife will continue to reside at 758 South "N" Street in Livermore.

J. L. Rowe Named An Apprenticeship Committee Member



J. L. Rowe, manager of Plant Services Department 8220, was elected to membership on the State of California Joint Apprenticeship Committee at a quarterly meeting held in Fresno, Nov. 18.

Each company which has established a program under the state apprenticeship program is entitled to representation on the committee. In addition to membership from management, the committee consists of officials of union locals whose crafts are apprenticed by the State of California.

The committee is not an enforcement body, but makes recommendations which are generally accepted by the State. These recommendations usually concern program standards, curriculum, and eligibility requirements.

At Livermore Laboratory, an apprenticeship program was established in August 1966 when three Sandians were selected as apprentices and enrolled in the first class. The program provides training for young men interested in becoming journeymen machinists. The four-year program consists of 8000 hours of on-the-job training including 400 hours of shop theory.

Mr. Rowe who has served in various capacities involving the development of trades and industrial arts has taken an active part in apprenticeship programs. For several years he has been a member of the Machine and Metals Advisory Committee for the Shop Technology Department of Chabot College in Hayward. He has also served as chairman of the Industrial Arts Curriculum Committee for the Livermore High School District for two years. Several of the recommendations of this committee were adopted and have been implemented in both local high schools.

PAGE THREE

DECEMBER 30, 1966

SANDIA LAB NEWS

Welcome Newcomers

Dec. 2-15

California	
James G. Ninger, Livermore	8241
*Norman N. Sirnic, Berkeley	8254
Hawaii	
Walter A. Nuncy, Waiānee	8116
New Jersey	
David J. Havlik, Laurence Harbor	8131

*Denotes rehire

1966--A Year in Review

Accomplishments, awards, and new assignments highlighted the year at Sandia as the Laboratories continued to develop new skills and capabilities. Among the noteworthy events were these:

January

Sandia was given new responsibilities in the AEC's space isotope power program. The assignment included technical review of space isotope power component and system designs; environmental and field testing; preparation of technical requirements; establishing quality standards and reliability evaluation. A new department was formed to carry out the responsibilities.

Two Sandia-developed remotely operated instruments were used at Project Dribble site in Mississippi to study a cavity created by a nuclear detonation in a salt dome. The instruments were a heat and radiation resistant TV camera and an optical surveying instrument.

Fire losses at Sandia Laboratory during 1965 totaled \$717. There were six fires resulting in loss or damage of property.

Scientists, engineers, and technicians were en route to Hawaii to fire another series of rockets for continuing studies of winds at high altitudes.

February

The NC-135A flying laboratory, with Sandians aboard, flew over the North Atlantic from the equator to the Hudson Bay area to gather cosmic ray data. A LASL-manned NC-135A carried out similar measurements in the Southern Hemisphere. The scientists were interested in measuring simultaneously the distribution of intensities of cosmic rays over wide ranges of latitude.

Employees at Livermore Laboratory pledged over \$62,000 toward an \$800,000 fund drive for a \$2.2 million expansion of Livermore's Valley Memorial Hospital.

The Albuquerque United Community Fund recognized 28 Sandia organizations for outstanding support through the Employees Contribution Plan. Each organization had 90 percent or more participation in ECP and at least 75 percent "Fair Share" contributions. Silver plaques were presented to directorate coordinators.

A group of 150 scientists, government, and military representatives—members of the Pacific Planning Board—met at Sandia Laboratory. The board is involved in operational planning for the nation's nuclear testing readiness.

March

Livermore Laboratory marked its first decade. The facility has grown from a handful of employees located in an old wooden barracks on the grounds of LRL to a modern research installation valued at \$21 million, occupying almost 75 acres, and employing about 980 people.

CDC 3600 computer facility was installed at Livermore Laboratory, bringing all of SCLL's computer needs under one roof. The new system uses four random-access disk file units to store frequently updated information.

AEC/Sandia Area Office presented a safety award to Sandia Laboratory in recognition of 5,678,680 man-hours worked without a lost time accident. The period covered was June 26, 1965, to Dec. 1, 1965.

Personnel of Systems Evaluation Department 9210 were in Arkansas installing instruments at the test control center and instrumentation packages at ground sites in preparation for the June 1 start of JTF-2 target acquisition tests. Targets for the low-flying aircraft were simulated bridges, airfields, fuel dumps, and radar sites.

April

Sandia received national attention for the part its personnel played in helping to locate the missing nuclear weapon off the coast of Spain. A nuclear safety team from Albuquerque conducted on-site investigations of the accident to determine conditions prevailing at the time the two military aircraft collided in mid-air. Trajectory computations at Sandia Laboratory aided in pinpointing the recovery site.

A third major safety award was presented to Livermore Laboratory at the 14th Annual California Safety Congress sponsored by the National Safety Council Chapters in the Bay Area. SCLL attained the lowest accident frequency rate in both the 1,200,000 to 2,000,000 man-hours-worked group and in the newly established Research and Development category.

The 1966 U.S. Savings Bond drive started April 26 and its goal of 90 percent participation by employees was achieved. Employees' annual purchase of U.S. Savings Bonds will total \$1,122,000.

May

An unmanned seismic observatory, developed by Sandia, was installed in a 90-foot borehole near Fairbanks, Alaska, to evaluate the effect of permafrost on the instrument package. The prototype was developed for DOD's Advanced Research Projects Agency for detecting, locating, and identifying underground nuclear detonations.

C. T. Ross, Jr., was named to succeed F. C. Cheston, Jr., as Sandia's General Attorney, Secretary and Treasurer, effective May 1. Mr. Cheston returned to Western Electric Company's Legal and Patent Division as Assistant General Solicitor. Mr. Ross was formerly attorney at WE Headquarters, New York City.

Sandia-designed rocket sleds set new speed records on the four-mile-long track at Naval Ordnance Test Station, China Lake, Calif. The sleds represented new designs in the development of supersonic sleds and carried pressure sensing conical cylinder payloads. One sled reached 6300 feet per second or Mach 5.7; the following day, a second sled achieved a velocity of 6600 feet per second or Mach 6.

The Company hired 80 students, ages 16 through 21, to work during the summer in clerical, manual, and other job assignments under President Johnson's Youth Opportunity Campaign. This was the second year Sandia cooperated in the program which is designed to provide meaningful work for the students and to assist them financially in continuing their schooling.

Eva Adams, Director of the U.S. Mint, presented Sandia employees with the U.S. Treasury Department's "Minuteman" flag in recognition of their outstanding participation in the U.S. Savings Bond payroll deduction plan.

June

A Nitehawk-12 rocket launched from Barking Sands, Kauai, "piggybacked" the experiments of several Utah scientists with Sandia's own experiment. The project was part of Sandia's program of cooperation with the Rocky Mountain Science Council. The Utah professors were interested in investigating air glow, a faint light that exists at high altitudes.

A new tape-controlled lathe was placed in operation in the Development Shops. The machine can reduce lead time through its superior production capacity and unique tooling capabilities.

Sandia's SNARE Reactor, a pool-type,

low-power research tool, was presented to Louisiana State University by the AEC. SNARE was transferred here in late 1963 from the AEC's National Reactor Testing Station in Idaho where it had been operated as a shield facility in the aircraft nuclear propulsion program. The transfer to Louisiana State was part of the AEC's program of providing nuclear education and training assistance to colleges and universities.

July

Announcement was made of the resignation of S. P. Schwartz as President, effective Sept. 30, 1966. Mr. Schwartz served the Company in that capacity for six years. He announced plans to continue as Vice President of Western Electric Co., Inc., and to serve in an advisory capacity to Sandia until Oct. 31, 1966, at which time he planned to retire.

John A. Hornbeck, President of Bellcomm, Inc., was named by Sandia's Board of Directors to serve as Executive Vice President of Sandia during September, and to assume the Presidency on Oct. 1. Mr. Hornbeck was also elected a Director of Sandia Corporation and a Vice President of Western Electric.

W. J. Howard was elected Vice President, effective Aug. 1. For the past several years he had been on leave of absence from Sandia, serving in Washington, D.C., as Chairman of the Military Liaison Committee of the Atomic Energy Commission and Assistant to the Secretary of Defense for Atomic Energy.

For the second year, 10 students were hired at Livermore Laboratory for temporary summer jobs in support of President Johnson's Youth Opportunity Campaign.

Construction of a fluid testing facility was completed in Livermore Laboratory's Area 8. The new facility supplements SCLL's environmental testing capability by providing, in one location, the means for submitting materials and components to hydrostatic tests under high pressures.

New, improved logic systems for the fourth pair of Vela nuclear detection satellites were shipped to TRW Systems in Redondo Beach, Calif., for installation as payloads in satellites to orbit 60,000 miles out in space. The original three pairs of satellites continued to far exceed their design life of six months in space.

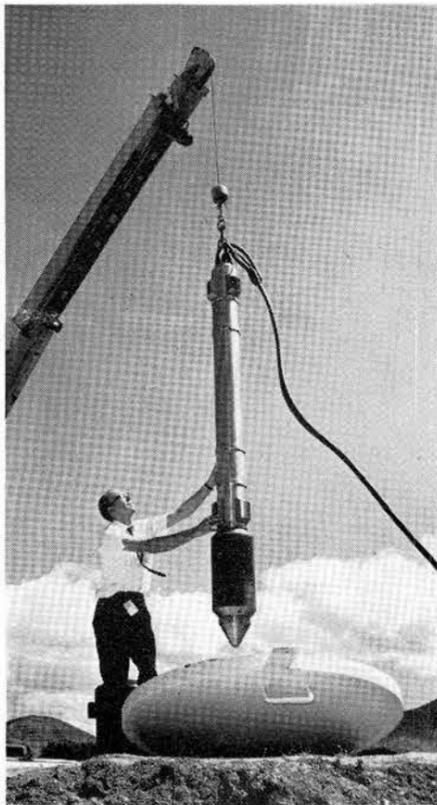
August

For some 250 employees, the big move began. Building 807, under construction

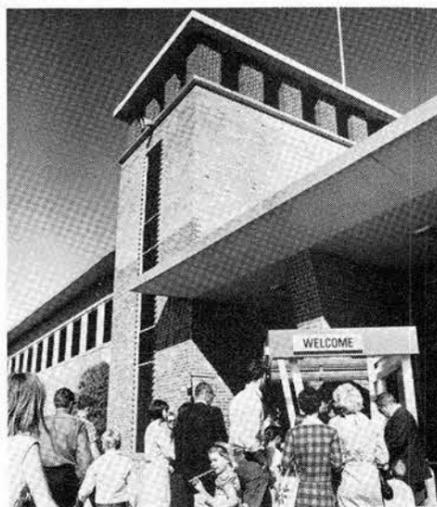
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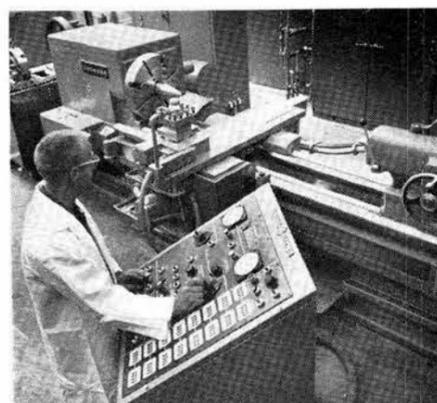
MINUTEMAN FLAG was presented to Sandia employees for record purchases of U.S. Savings Bonds.



UNMANNED SEISMIC OBSERVATORY was evaluated in different environments.



FAMILY DAY attracted more than 17,000 persons.



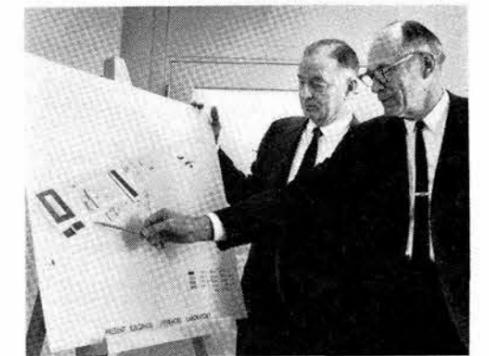
TAPE-CONTROLLED LATHE was installed in the Development Shops.



LIVERMORE'S LIBRARY adopted an automated circulation system.



MACHINIST APPRENTICESHIP program was initiated at Livermore.



LIVERMORE LABORATORY marked its tenth anniversary.



DEVICE FOR SLEEVING cables was designed at Livermore.

1966 Sandia Highlights

since November 1964, was completed and occupancy was scheduled over a two-month period.

A series of detonations of 1000-pound conventional high explosives was underway at Coyote Test Field to aid in the study of air blast and cratering phenomena. The experiments were part of the Plowshare Program to investigate applications of nuclear explosives for peaceful purposes.

James H. Scott was appointed Director of Special Projects 9200, effective Sept. 1. Most of his work at Sandia has been associated with full scale nuclear weapons testing in Nevada and in the Pacific. He was Sandia deputy commander of high altitude operations for the Dominic test series.

Three employees were selected for the first class under Livermore Laboratory's newly established machinist apprenticeship program to be administered by the State of California Joint Apprenticeship Committee. The four-year program consists of 8000 hours of on-the-job training including 400 hours of shop theory.

A device for sleeving cables was designed at Livermore Laboratory. This pneumatic sleeving device provides cables needed for attaching connectors and for other applications in electronic units.

Employees at Livermore Laboratory were honored by the U.S. Treasury Department for patriotic service in support of the local U.S. Savings Bonds Program. Mrs. U.S. Savings Bonds for 1966 presented the award.

September

A Livermore Laboratory engineer designed a special slide rule to aid other engineers and test technicians in determining mechanical shock test parameters. Computing the same information which formerly took an hour or more under the old method now can be accomplished with the shock pulse computer within minutes.

Joint Task Force Eight conducted a joint Department of Defense-AEC non-nuclear safeguard exercise in the Pacific area from mid-September through mid-October. Approximately 125 Sandians participated, some of them assigned to ground and ship operations, others aboard the NC-135A diagnostic aircraft. Acting commander of Task Group 8.1.4 was H. E. Viney.

Enrollment in Out-of-Hours courses, offered by the Laboratory, reached 1500, with many classes limited in size by available classrooms. The offerings were all job-related subjects.

The Unified Science and Engineering (USE) program entered its second year. The six-week concentrated study program includes in-depth surveys of rapidly expanding areas of modern engineering and science. Ninety-eight technical management personnel attended the first year's sessions.

October

John A. Hornbeck assumed the Presidency of Sandia Corporation Oct. 1.

More than 17,000 employees and members of their immediate families visited Sandia Laboratory during a second family Day on Oct. 21. (The first was held in 1959.) Special exhibits and demonstrations in Tech Areas I, III, and V fascinated one and all. Families got a chance to see work areas and laboratories normally closed to the public.

The Atomic Energy Commission, in special ceremonies at AEC Headquarters, Germantown, Md., presented a citation and symbolic medallion to S. P. Schwartz in recognition of his "outstanding leadership" of Sandia Corporation, "significant contri-



PROTOTYPE BALLOON was used to support air blast pressure gages during HE detonations at Coyote Test Field.

butions" to the national defense, and "use of imaginative and creative techniques" in management of a laboratory.

Employees in Albuquerque pledged more than \$261,000 to the Employees Contribution Plan. Average gift of contributing employees was \$42.41, up from \$39.61 the previous year. The ECP funds were distributed to the United Community Fund and eight other health and welfare agencies.

The Sandia Laboratory Research Colloquium presented Dr. Edward Teller, world renowned scientist, who spoke before a capacity audience on the subject, "Quasars."

A Livermore Laboratory Colloquium series was inaugurated to keep the staff informed on recent advances and interesting topics in the applied sciences.

The technical library at Livermore Laboratory adopted an automated book circulation system, part of a continuing effort to automate SCLL's library operations wherever possible.

Employees at Livermore Laboratory contributed a record \$19,490 to the United Bay Area Crusade.

November

Scientists, rocket personnel, and members of Sandia's diagnostic aircraft team conducted solar eclipse studies off the coast of Brazil. Initial data acquired from the experiments were encouraging, although true evaluation of the information will take months, perhaps years. The flying laboratory "chased" the moon's shadow at 600 mph to stretch the total eclipse time from less than two minutes on the ground to three minutes, one second. Three Nitehawk-9 rockets carrying experiments to measure the solar x-ray source functions were launched from Rio Grande, Brazil, during the eclipse.

The Government's Committee on Employment of the Handicapped presented Sandia Laboratory an area award for its outstanding record in hiring handicapped persons. Some 111 physically disabled persons, plus 900 others with minor handicaps, were included in the Laboratory's work force of 7000. Since 1949, the only criterion for employment of a person with disabilities has been whether the individual can effectively perform the job for which he is being considered.

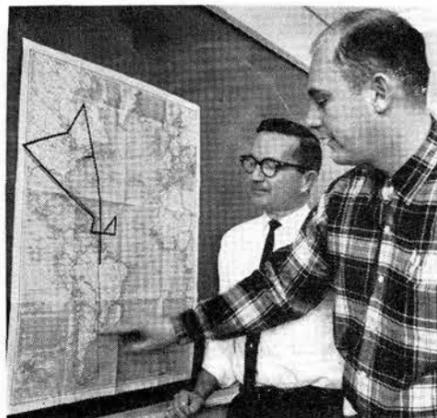
Educational Aids Program marked its 10th anniversary. Since its start, nearly 3000 employees have completed credit courses under Sandia's college-assistance plan. Administrators of the program described it as the major means by which members of our staff have maintained technical vitality in an advancing and enlarging technology.

A third employee at Livermore Laboratory was welcomed into the Wise Owl Club. Members must have prevented eye injury by wearing safety equipment.

December

Several Sandians participated in an underground nuclear experiment, called Project Sterling, near Hattiesburg, Miss. The 350-ton yield nuclear device was detonated in the cavity formed in the Tatum Salt Dome by a previous underground nuclear explosion in October 1964. The experiment was part of the Vela Uniform program to develop improved methods of detecting, identifying, and locating underground nuclear detonations.

The luminarias were on the Administration Building roof, the lights were on the evergreens, and Sandia organizations and union groups were busy with Christmas charity projects.



COSMIC RAY EXPEDITION from Sandia made studies over the North Atlantic.

Service Awards

20 Years



B. C. Brown
4224

E. E. Hurt
2434

15 Years



R. G. Brooks
4213



W. N. Bullock
4514



J. M. Bunch
2411



Jacob Castillo
2554



M. S. Chavez
9414



D. A. Easton
4512



L. A. Eversgard
4513



E. C. Filsinger
2411



Lorenzo Garcia
4212



Flavio Gonzales
4212



J. D. Herrera
4573



B. J. Hussey
3242



D. G. Irving
8112



E. F. Johnson
9331



L. J. Johnson
4611



R. M. Lujan
2526



G. G. Martin
2213



J. F. McGriff
7232



W. R. Mitcham
4544



H. D. Moody
7232



W. R. Moore
7231



J. K. Patterson
9414



P. D. Pewe
3113



J. R. Piri
4213



T. A. Reinhardt
2545



Florence Smythe
4234



E. J. Steinkraus
9323



C. B. Taft
2551



Stanley Urevitch
4212



Dorothy Wall
2232



C. C. Whitcomb
4544



O. W. Williams
4632



Ruth D. Wood
4315

10 Years

Dec. 30 - Jan. 12

R. U. Acton 1134, C. E. Johnston, Jr. 1422, J. T. Risse 1542, A. R. Hyllton 2211, R. G. Fueger 2552, T. I. Baggett, Jr. 3462, L. B. Balint 4615, D. K. Hoffheins 4622, G. W. Perkins 8241, Delfido Gonzales 4252, L. C. Chavez 4611, B. L. Shelton 3126, V. D. Smith 3462, A. E. McMurray, Jr. 4253, W. E. Seaburn 4253, W. A. Hunt 4613, K. A. Cooper 8252, Lois H. Payne 9411, L. D. Lindsay 1422, R. E. Brooks 4211, R. D. Brooks 7531, W. F. Huebner 4362, D. W. Bauder 7342, Joycelyn L. Fuller 2211, E. G. Thuman 9426.

SHOPPING CENTER

FOR SALE

- '61 CHEV Greenbrier, 4-spd., R&H, spotlight, rear speaker, bunk beds, cabinets, 3000 miles on complete overhaul, 800 San Pedro SE. Gabaldon, 255-1929.
- BUNK BEDS, maple wood, complete w/box springs, but no mattresses, \$25. Duvall, 299-8744.
- 3-BDR. HOME, SW valley, cyclone front fence, cyclone corral, 3 barns, 3 wells, storeroom, large den, carpeting, \$500 down and take over payments. Wallace, 877-4428.
- AKC registered German shepherd puppies, champion bloodlines. Riley, 256-9722.
- MINIBIKE, McCollough engine, centrifugal clutch, short wheel base, \$75. O'Neill, 255-6355.
- BICYCLE, 10 speeds, new, men's 26", \$56 cash. Eaves, 299-7728 after 5.
- '50 4-dr. OLDSMOBILE V8, Hydramatic, R&H. Marceau, 255-2343.
- HAWTHORNE Jr. pool table, \$18. Jeffries, 255-2953.
- BOY'S ski boots, size 8, \$15; Holton trumpet, \$50. Craig, 299-7892.
- SMALL SWIVEL ROCKER, light avocado, \$25. Harley, 898-0594.
- RUGER, single-six convertible revolver, (22 & 22 Mag.) w/hand carved leather belt & holster, set is new, \$95, 1313 Marron Cir. NE. Alexander, 298-8881.
- 3 ACRE exclusive residential lot, off Rio Grande Blvd. NW, beautiful old trees, easy terms. Stein, 242-2967 after 7 and weekends.
- WEBCOR monaural tape recorder, records both directions, \$50. Hiltunen, 6500 Cochiti Rd. SE.
- SCHWINN boy's bicycle, \$20; girl's CCM ice skates, size 8 1/2, \$5. Lynch, 298-7817.
- '64 FALCON convertible, \$300 and take over \$58 payment. Chacon, 898-3166.
- CIVIL WAR sword, brass hilt, \$15; early European sword, \$12.50; want old hunting knives, will pay cash. Smitha, 299-1096.
- MODEL A pickup body and frame, best offer. Shaw, 299-5557.
- REFRIGERATOR, GE, 14 or 16 cu. ft. w freezer and ice trays, \$70. Tichenor, 298-0192 or 255-6125.
- TWO porch ceiling light fixtures, coach style, black w/frosted glass, \$2.25 ea. Allen, 243-7085.
- VOLKSWAGEN 1500 cyl. heads w/valves, one valve burned, no springs, \$35 for both. Souther, 282-3841.

'59 STUDEBAKER V8 wagon, \$295 or will trade for roto-tiller, 2" well pump, or what have you. Long, 1-636-2655.

'57 BUICK sedan, R&H, AT, PS, one owner, \$300. Nelson, 265-1072.

'60 BUICK Electra 4-dr. HT, power, factory air; portable belt sander; AM-FM tuner, requires amplifier. Scussel, 265-0543.

COLLIER'S Encyclopedia set, reasonable, year books included. Mueller, 299-1079.

REMINGTON RAND Duchess electric shaver, light blue, new, reasonable. Loeper, 265-0472.

'63 PONTIAC Bonneville, PS, PB, AC, radio, new tires, new battery, 29,000 miles. Rex, 298-1055 after 5.

BELL & HOWELL movie camera, f1.9 lens, 16mm. electric eye, w/case, will discuss price. Alvino, 255-6339.

REFRIGERATOR, electric, 9 cu. ft., International Harvester, \$50. Warner, 298-1746.

VOX AMPLIFIER w/two 12" speakers, piggy-back model, Epiphone guitar, dual pickup w/tremelo arm, both for \$795, \$1180 value. Schildknecht, 298-3968.

WANTED

CONCRETE MIXER; 10' table saw; and building materials in trade for '57 Buick super w/all power features. Lewis, 296-4422.

RIDE to Bldg. 800 from 9100 Guadalupe NW, will share expenses. Poteet, 898-2545.

DATSUN pickup, reasonable condition and price. Netz, 282-3607.

REVOLVER, air compressor, roto-tiller, salt water fishing gear, or fertilizer. Will trade alfalfa hay. Shafer, 898-0132.

RIDE from 3409 Cuervo NE (near Aztec) to Bldg. 802. DeWitt, 268-5910.

.45 AUTO. pistol and M1 carbine. Zaluga, 344-1564.

RIDE from 4300 San Pedro NE to Bldg. 802. Bowers, 298-1992 after 5:30.

CHEST of drawers, 5-drawer. Colgan, 243-4882.

LOST AND FOUND

LOST: Taken by mistake, my dark green hat, size 7, at Bldg. 632 on 12/12/66 noon-hour. Fields, 299-6242.

FOR RENT

2-BDR. unfurnished apt. near Sandia, stove and refrigerator included, water paid, \$70 or discount for yard care. Vilella, 298-7955.



DRAFTING AND DESIGN students from Eastern New Mexico University recently toured some of the Laboratory's drafting facilities and heard discussions on techniques used at Sandia. A. D. Bridegam (2211-5), right, is shown explaining the capabilities of the automatic drafting machine used in precision graphics generation.

JTF-2 Ends Low-Level Flights At Hunter Liggett Reservation

A number of Sandians, members of Systems Evaluation Department 9210, returned to Albuquerque Dec. 14 after participating in Joint Task Force Two's low-level flight test at Hunter Liggett Military Reservation in central California.

More than 1500 low-level sorties of jet aircraft were flown during the project. Purpose of the tests was to investigate the vulnerability of low-flying combat aircraft to simulated ground fire and the tracking effectiveness of air defense guns against fast, low-flying targets.

The tests were conducted jointly with the U.S. Army Combat Developments Command Experimentation Command.

C. S. Sonnier of Test Planning and Evaluation Division 9213 headed Sandia's Test Project Group. Field instrumentation pod operations were under C. E. Ingersoll of Test Operations and Facilities Division 9214.

Sandia provided scientific support for the operation. The test aircraft carried Sandia - designed instrumentation pods. The mass of data collected — some 30,000 aircraft-gun encounters — will be analyzed

at Sandia. The information gathered is expected to provide valuable data for planning future needs and tactics in low-altitude aerial warfare.

All sorties in the test project were completed without accident or incident. The test included a three-day period of supersonic flying, early in November, by Air Force F-4C Phantom jet fighter bombers. The final tests were flown by the Navy's A-4 Skyhawk.

In addition to the Phantom and Skyhawk, two other types of aircraft made flights over the five instrumented courses which were laid out for the test at Hunter Liggett. These aircraft were the Air Force's F-100 Super Sabre fighter and the B-52 Stratofortress bomber.

Representative air defense guns used to track the low-flying aircraft ranged from the M-14 rifle to the 57mm cannon.

This was the third in a series of low-altitude field tests, and the second this year, completed by JTF-2 since its activation in August 1964. JTF-2's mission is to plan, direct, and evaluate low-level penetration tests using combat aircraft from all military services. The task force also conducts tests on defensive weapons used against aircraft attacking at low altitude.

Sandia provides scientific assistance to JTF-2 operations with the bulk of the Sandia activity centered in Systems Evaluation Department 9210.

Welcome Newcomers

Dec. 12-23

Albuquerque	
LaRue B. Dignan	4312
John A. Garcia II	3433
Milton George, Jr.	4574
*Patricia J. Gutierrez	3151
Glen L. Heston	4574
Charles Z. Mitchell, Jr.	3122
David C. Offerdahl	5613
*Deanna B. Rawlinson	5633
Benjamin F. Snow	4543
James R. Yoder	2432
Arizona	
*Jerald K. McDowell, Phoenix	4234
California	
Lawrence H. Howes, Santa Barbara	1114
Iowa	
Larry R. Rollstin, Ames	9324
New Jersey	
Robert O. Woods, Trenton	5241
Tennessee	
William B. Leisher, Manchester	7332
*Denotes rehire	

Department 2210 Food Baskets Among Sandia Christmas Projects

Reports continue to come in of Christmas projects which Sandia organizations traditionally undertake in lieu of exchanging Christmas cards with friends and co-workers within the Laboratory.

For the ninth year, personnel in Design Definition Department 2210 donated money to be used to purchase Christmas baskets of food for needy families. This year the fund totaled \$405, including \$101 donated by employees of Barnes and Reincke, a drafting sub-contractor. The money went to purchase 32 food baskets (each containing about 100 pounds of foodstuffs), which were distributed by the Salvation Army.

Chairman for the drive was Gene Jeys (2211-1). Solicitors for the many sections included: Dorothy Martin, S. T. Gladis, Milton Waite, G. T. Hermann, Henry Harado, Jay Anderson, Gene Lisotto, Larry Young, George Urish, Charles Arning, Charles Duvall, Alice Smith, Carrol Ma-

Coronado Club Activities

New Year's Party Manana; Casino Night Jan. 14; Social Hours Resume

Tomorrow night, wrap up 1966 with the biggest party of the year as the Coronado Club welcomes 1967. The gala New Year's Eve party starts at 9 p.m. with the Club furnishing hats, noisemakers, and confetti. Included in the admission price are a bottle of champagne and breakfast after the New Year is welcomed at midnight.

Dance upstairs and downstairs with McCoskey's All Stars and Tommy Kelly's combo. Tickets — \$3.75 for members, \$5 for guests—must be picked up at the Club office by 9 p.m. tonight.

Social Hours

With the holiday parties for organizations concluded, a full schedule of regular activities at the Club resumes Jan. 3. The Club will be closed Jan. 1 and 2. Social hour on Friday, Jan. 6, will feature the popular Coronado Club chicken buffet priced at \$1.25 for adults and \$1 for kids. Tommy Kelly will make the happy music.

On Friday, Jan. 13, Rex Elder will be on the bandstand. The big chuckwagon beef and shrimp creole buffet will be served. Price is \$1.75 for adults, \$1.50 for children.

Casino Night

First big party for the 1967 social season will be Casino Night Jan. 14. Play money will be issued at the door and the object of the evening is to break the bank. Big winners will collect real prizes.

Elton Travis will make Western music for dancing from 9 to 1 a.m. Sandwich service will be available. Admission is \$1 for members, \$2 for guests. No reservations needed, for this one.

El Toro Nights

Beginning Jan. 9, the Club will offer El Toro Nights from 5 to 7 p.m. in the main lounge. Social hour prices will prevail for ladies, solo musicians will entertain — guitar, piano, singers—and a new variety of daily entree special will be offered.

In the dining room, menu service will be available in a supper club atmosphere. A daily entree special will be offered.

Now, who wants to fight the traffic rush? El Toro Nights are scheduled each week, Monday through Thursday.

Sandia Speakers

R. L. Park (5123), "Isotopic Mixing in the Oxidation of Carbon Monoxide on Palladium," Symposium on Fundamentals of Gas-Surface Interactions, Dec. 14-16, San Diego, Calif.

P. D. Thacher (5142), "Thermal Effects in Ferroelectrics and Antiferroelectrics," American Physical Society Meeting, Dec. 28-30, Palo Alto, Calif.

A. R. Sattler (5211), "Elastic and Inelastic Scattering of Fast Neutrons from Natural Silicon," American Physical Society Meeting, Dec. 28-30, Palo Alto, Calif.

C. D. Taylor (1425), "Electromagnetic Scattering by Inhomogeneous Circular Cylinders," Fall UNSC/URSI Meeting, Dec. 9, Palo Alto, Calif.

R. I. Ewing (5241), "Electron Emission from a (100) Tungsten Surface under Proton Bombardment," American Physical Society Meeting, Dec. 1-3, Nashville, Tenn.

J. M. Peek (5121), "Inelastic Scattering of the Hydrogen Molecule Ion," University of Chicago, Dec. 15, Chicago.



CASINO NIGHT at the Coronado Club Jan. 14 will feature games of chance with play money, prizes for winners. Elton Travis will provide western music. Lady Luck is Joni Buccheri (3126).

Dance Classes

The Coronado Club's popular adult dance classes will begin Jan. 9. The 10-week course will feature instruction in both American and Latin dances. The basic class will meet 7 to 8:30 p.m. on Mondays followed by the advanced class from 8:30 to 10 p.m. Cost for either course is \$20 per couple. Students should enroll at the Club office prior to the first meeting.

Bridge Instruction

Basic and intermediate instruction in bridge will be offered at the Club on Tuesday evenings. The basic class will meet at 7:30 to 9 p.m., the intermediate class from 8 to 9:30 p.m. Class sizes will be limited. Enrollment fee is \$10 per person for the eight-week course.

Sanado Club Luncheon Scheduled January 10

The Sanado Woman's Club will meet for a sherry luncheon at the Coronado Club at 1:30 p.m. Tuesday, Jan. 10.

Norma Manson will discuss "Interiors Unlimited."

For reservations, call Mildred Bylander, tel. 344-7994.

Sandia's Safety Scoreboard

Sandia Laboratory:

29 DAYS
1,015,000 MAN HOURS
WITHOUT A
DISABLING INJURY

Livermore Laboratory:

64 DAYS
316,540 MAN HOURS
WITHOUT A
DISABLING INJURY

Supervisory Appointments



CHRISTOPHER E. DALTON to supervisor of the newly-created Shilling Management Division 1516, effective Dec. 16.

Since joining the Laboratory in November 1956, Chris has worked on mechanical designs of weapons systems in system design groups.

From October 1954 to October 1956, he was a project officer at the Air Force Special Weapons Center at Kirtland AFB. Before that he was on the engineering staff of General Electric's Gas Turbine Division in Evendale, Ohio, for four months.

Chris received his BS degree in mechanical engineering from Kansas State University in May 1954. He has also done some advanced work in mechanical engineering at the University of New Mexico.

He is a member of the American Society of Mechanical Engineers, Pi Tau Sigma, Sigma Tau, and Phi Kappa Phi.



CHARLES C. BURKS to supervisor of Systems Engineering—Joint Firing Program Division 1524, effective Dec. 16.

Charlie joined a Sandia project group in systems engineering in July 1954. In 1956 he

was granted a leave of absence to serve with the Army Signal Corps for six months. He transferred to advanced systems development in 1962 where he has worked on hardware development and systems studies.

Charlie received his BS degree in electrical engineering from the University of Missouri in June 1954. He also did some graduate work at the same university.