



COST IMPROVEMENT—E. F. Richardson, standing, and John Hoice discuss recent cases of cost improvement with A. D. Smailer, right, coordinator for the 2000 organization.

## Cost Improvement Cases Should Be Reported to Plan Coordinators

Cost improvement continues to be a concern of Sandia Corporation. The program, conducted by Value Engineering and Cost Reduction Division under Elmer Devor, was recently reorganized on a Corporation-wide basis. Coordinators for the program were appointed from each vice presidency. Their names are listed later in this article.

Purpose of the program is to reduce company operating costs while maintaining quality. The "ground rules" for true cost improvement are being prepared by the division and will be made available to cost improvement coordinators soon.

Cases reported under the new program will be similar to the two following examples of cost improvement.

A cost savings of approximately \$2660 will be realized in the next two years from a change of materials in a projectile used in a QEST tester. The tester produces impact shocks on weapon material and formerly used a plastic projectile to shape the shock wave.

Cost improvement analyses, performed by E. F. Richardson and Thomas Starr of Sandia's Systems Test Development Division II, determined that aluminum projectiles, in this case easier to machine than plastic, would perform the impact test without shorting the switches of the tester.

The plastic projectiles were difficult to manufacture, required extensive rework, and were short lived. In all cases, the new aluminum projectiles perform as well and

last longer. Each aluminum projectile costs \$15 compared to the \$100 cost of a plastic projectile.

In a second example of a cost improvement action, dollars were saved in an opposite manner from the case above. This case substituted plastic for aluminum.

As a result of a Value Engineering study of a timer switch, an estimated cost reduction of \$54,770 will be realized in the next two years. J. P. Hoice of Sandia's Electronic Development Division led the study which determined that replacing the aluminum cover of the timer switch with a plastic cover would result in significant savings without a loss in performance.

Drawings were prepared and bids obtained which verified this assumption. After amortizing the cost of tooling, the unit cost of the time switch cover was reduced.

Anyone at Sandia having a case of cost improvement should report it to the cost improvement coordinator for his organization. The coordinators are as follows:

Coordinator	Organization	Phone No.
E. W. Shepherd	1000	264-3063
A. D. Smailer	2000	264-7305
F. E. Bell	3000	264-1503
M. L. Coon	4000	264-8100
R. E. Gaeddert	5000	264-7409
F. C. Cheston, Jr.	6000	264-3554
D. M. McKnight	7000	264-6436
R. S. Cook, Jr.	8000	Liv. 2734
D. M. McKnight	9000	264-6436

## Clean Air Film Wins Golden Eagle For Cinematographic Excellence

"Clean Air Is a Breeze," a 16mm motion picture produced by Sandia Corporation, has been named a CINE Golden Eagle winner for 1965.

CINE, the Council on International Non-theatrical Events, is the U.S. coordinating and selection organization for more than 75 major overseas film festivals each year. The Golden Eagle award signifies a film is of excellent cinematographic quality and worthy of representing the United States abroad.

By considering the requirements of each festival and by recognizing outstanding films with its Golden Eagle awards, CINE seeks to afford U.S. film-makers the maximum opportunity to stand high among other producers of the world.

The Sandia production, a 16-minute color and sound film, was chosen from over 500 entries and is among a select group of slightly more than 100 award winners. It is a semi-technical picture which uses animation to explain laminar air flow principles.

Several types of laminar flow clean rooms and clean benches employed at Sandia are illustrated, along with their applications in industrial and medical research and development.

The Golden Eagle Award will be presented to Sandia at the Awards Ceremony and Exhibition of Films of Merit in Washington Nov. 10. Major international

prizes also will be awarded then and selected winning films will be exhibited.

CINE chooses its pictures for foreign festivals through 23 regional screening juries in 10 cities. The juries examine films in 19 categories to determine those which will best represent the U.S. in international film events.

The choices are then sent to Washington, where the pictures go through a semi-final and final judging.

Originally, U.S. film producers submitted their motion pictures directly to international festivals, but the point soon was reached where as many as 100 U.S. films were entered in a single event.

This flood of entries from one nation was too great to handle, so CINE was formed as a clearinghouse to impose order on the selection procedure. It is a voluntary, non-profit organization, which cooperates closely with the U.S. Information Agency, the U.S. Department of State, and other Federal agencies.

"Clean Air Is a Breeze" was the result of joint efforts by three Sandia organizations. Advanced Manufacturing Development Division supplied technical assistance, Technical Art Division provided animation and art work, and Industrial Photographics Division handled writing, direction, and photography.

The film has been given international distribution by the U.S. Atomic Energy Commission.

SANDIA CORPORATION

# LAB NEWS

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



VOL. 17, NO. 10 / MAY 7, 1965

## Sandians Moving Out Soon For South Pacific Eclipse Studies

Two groups of Sandians will be in the South Pacific later this month participating in various experiments to study the total eclipse of the sun. On May 30, the moon will pass between the earth and the sun, creating a night-like shadow which will sweep some 7000 miles starting northeast of New Zealand and ending off the west coast of South America. "Totality" will not reach above the equator and the eclipse will not be seen in New Mexico.

One group of Sandians will "chase" the shadow in a NC-135A "flying laboratory" loaded with various scientific experiments. The giant jet will fly at about 35,000 ft. above the water vapor, dust, and clouds. The second group of Sandians will launch several rockets carrying Los Alamos Scientific Laboratory x-ray detector instrumentation from the island of Rarotonga.

The flying laboratory will operate from American Samoa, flying out of Tafuna Airport at Pago Pago. The plane will chase the eclipse in the center of the shadow about 1000 miles east of Samoa and will be properly oriented for the critical observations for about four and one half minutes. The shadow will be traveling east at about 1000 mph and the aircraft at about half that speed.

Experiments scheduled for the Sandia aircraft observatory include photographing visible region of the coronal spectrum for streamers, monitoring pre-chosen spectral line and background intensities, television spectograph study of line intensities in infra-red, measurement of cosmic ray induced fast neutron flux, investigation of twinkling layer in atmosphere, air glow, and polarization and surface brightness measurements.

At Rarotonga, Sandia's launch complex will be established on a 135-acre coconut farm leased from a retired sea captain. First equipment was shipped last month and site preparation is underway now. Nike-Tomahawk rockets fired from Rarotonga will lift the LASL detectors some 200 miles above the earth where they will measure segments of the x-ray spectrum from the sun's corona.

Test manager for activities at Rarotonga is W. E. Walker of Carrier Development Division. A. A. Young of Projects Division is the technical team leader. Others and their assignments at the launch site will include G. L. Adkins and V. T. Strascina, rockets and launchers; G. M. Connell, aerodynamics; D. G. Westfall and Carl Cianciabella, ground electronics; D. R. Shafer and N. F. Sinnott,

attitude control systems; Adolpho Martinez and L. M. Stone, payloads.

D. P. Fifield of Field Test E&C Group is responsible for site engineering. P. D. Seward and A. R. Verardo of Logistics and Procurement Services Division are providing administrative support.

N. C. Anderholm of Electro Optics Division is scientific project leader for the flying laboratory. M. M. Robertson of Analytical Methods Division II is the Sandia experimenter for optical experiments. A. F. Hutters and W. B. Pafford of Diagnostic Aircraft Operations Division are mission coordinators.

Other Sandians who will participate in the fabrication, installation, and operation of the experimental equipment on the aircraft are J. T. Wright, A. D. Sayers, D. E. Lee, L. K. Porter, J. S. Llamas, P. D. Stang, D. L. Fastle, D. W. Miller, B. R. Stanton, C. A. Nelson, D. A. Greenwell, J. E. Truskowski, L. D. Gillette, M. J. Mattison, R. P. McKnight, and J. E. Keith.

J. M. Kelly and R. E. Hooker of Logistics and Procurement Services Division will provide administrative support.

H. H. Patterson, manager of Information Systems Department, will conduct an electromagnetic survey during the flight to and from American Samoa. Also participating on the expedition will be G. A. Fowler, 9000 Vice President, and L. E. Hollingsworth, Director of Field Testing.

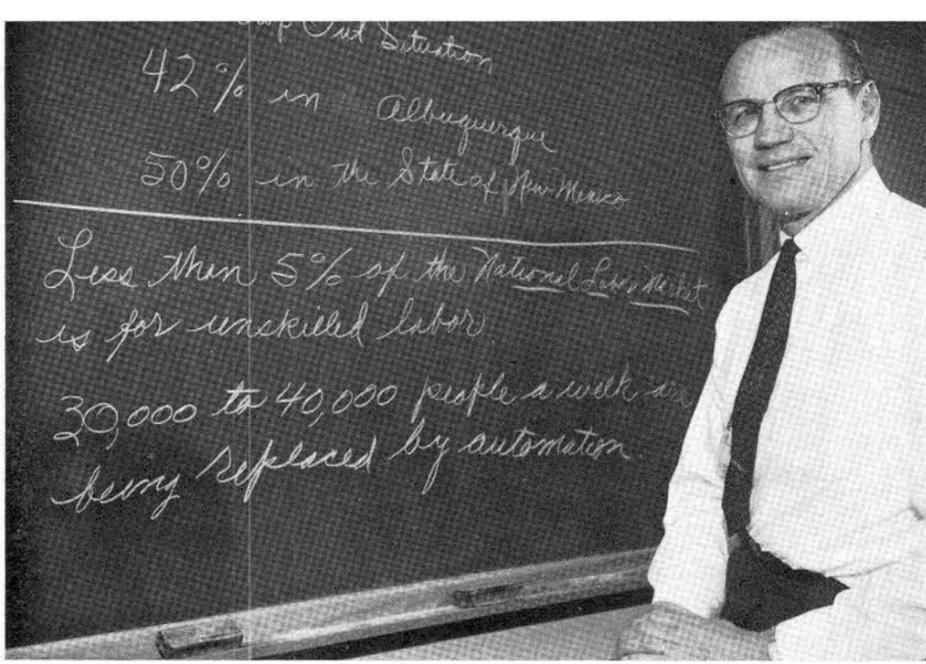
Along with the Sandia group, there will be experimenters from the University of Chicago, Naval Ordnance Test Station, and Edgerton, Germeshausen & Grier, Inc., aboard the aircraft.

The Sandia plane will be one of four aircraft flown for U. S. scientists studying the eclipse. The others will carry scientists from Los Alamos Scientific Laboratory, National Aeronautics and Space Administration, and the Air Force Cambridge Research Laboratory.

The National Science Foundation is coordinating the observations of the participating research institutions.

SANDIA FLYING LABORATORY, loaded with scientific experiments, will chase the shadow of a total eclipse across the South Pacific May 30. Other Sandians will study the sun's corona with rockets launched from the island of Rarotonga. In the background is the plane which will carry Los Alamos Scientific Laboratory personnel who will also perform scientific experiments during the eclipse.





STARK STATS—Mel McCutchan, supervisor of Technical Training and Education Division, draws attention to a few of the more startling statistics of the school dropout problem. Mel spends much of his after-hours time urging youngsters to further their education.

## Sandian Cooks Up Recipe for Jobs With Education the Vital Ingredient

Sandia's Mel McCutchan believes jobs without trained persons to do them are just as futile as trained people without jobs.

That's why the high school dropout rate in Albuquerque startles him so. It's an alarming 42 per cent.

Being a man of action, Mel isn't content to sit back and let others worry about it. Instead, he's giving vigorous leadership to efforts encouraging young people to stay in school.

In the long run, Mel uses a two-pronged plan of attack: 1) telling students of existing job opportunity trends and the stiff requirements demanded of applicants and 2) enlisting support by acquainting the business community with the untapped reservoir of potentially productive workers who drop out of school annually.

Mel is supervisor of the Technical Training and Education Division, and he is chairman of the New Mexico State Manpower Advisory Commission and the New Mexico State Advisory Council on Vocational Education. He was recently appointed by Labor Secretary W. Willard Wirtz to the Mountain States Regional Manpower Advisory Committee.

He also headed a committee which investigated the need for a Technical-Vocational Institute in the City of Albuquerque. A comprehensive survey was made in Albuquerque and plans formulated for a wide-scale attack on the problem.

To illustrate the importance of urging young people on in school, Mel supplied answers to the following questions:

Q. Mel, what would you say causes a youngster to drop out of school?

A. "Fundamentally, it's for one of two complex reasons.

"The first is environmental. This type of dropout occurs when large numbers of youngsters from remote, impoverished areas of New Mexico come into Albuquerque for high school. Their early schooling often has left much to be desired, and once they enter the classroom in Albuquerque, they must compete with youngsters having sounder educational backgrounds.

"Soon they find themselves to be unfairly matched. Being unable to compete, they then become discouraged and disinterested. They either fail or leave.

"The second type—the attitudinal dropout—is even worse. He can come from any family, not necessarily a poverty-stricken one. He may have talent and ability, but for one reason or another he adopts an 'I don't care' attitude. Before you know it, he's missing from the class roll book.

"More often than not, his decision to drop out is rebellious—an immature, headstrong, arbitrary action, with no regard whatsoever for the consequences. Once that decision is reached, his life can be ruined."

Q. Exactly how significant is the Albuquerque dropout rate?

A. "Statistics show that 42 out of every 100 students presently enrolled in high school classes will not graduate. Projected enrollment figures, for example, reveal that 5520 students will be in ninth grade classes in the city next fall, and 2317 of them probably will not graduate from high school.

"The figures reflect the trend only in Albuquerque, which has one of the better records in the state. New Mexico as a state ranks second-highest in the percentage of dropouts. Only Mississippi has a worse record."

Q. What effect does this high dropout rate, and accompanying unemployment, have on a city like Albuquerque?

A. "The problem of untrained and unskilled people entering our labor force is a frightening prospect for our community, along with the many other communities which make up our nation. Some general characteristics which can be applied to the dropout are extreme mobility, floating from job to job, being last hired and first laid-off, being most likely to be at jobs that will be rapidly automated out, being unemployed during much of the year, having unstable marital patterns, and having high rates of crime and alcoholism. The problems are very real; their proportions are great."

Q. At what point in school, do you try to spread the "Stay in School" message?

A. "In my opinion, senior high may be too late. In order to adapt to the labor market, a student nowadays has to begin formulating his plans in junior high school."

Q. Specifically, what is Sandia Corporation doing to help expose students to existing job opportunities and requirements?

A. "In any number of different ways. With plant tours and visits to the Sphere of Science, where we can show first-hand the degrees of skill and training required of the people we hire. By visiting and maintaining close ties with technical-vocational institutions in the state. With a school liaison program which offers the schools an abundance of programs, demonstrations, and speakers. With science fair support and new teacher orientation programs.

"Technical seminars for high school teachers and students alike . . . lending of library facilities . . . participation in high school career days . . . through teacher exchange programs . . . and close working relationships with such agencies as the Employment Security Commission."

Q. How does a lack of education contribute to a high unemployment rate?

A. "At the present time, less than five per cent of the national labor market is for unskilled jobs, the obvious result being it's hard to put uneducated people to work. A person without a high school education falls permanently behind.

"Years ago, he could have found a laboring-type job, but these are disappearing quickly as a result of automation. From 30-40,000 persons a week are being replaced by automation. This a phenomenal figure.

"Then, there's the isolation of New Mexico schoolchildren from the urban experience and the technical society. This in itself constitutes a lack of education."

Q. In closing, Mel, what can the individual Sandia employee do to help lick this problem?

A. "The individual can help simply by becoming a better informed citizen. All he has to do is take a Sunday drive through some of the depressed sections of the city to see what the problem really is.

"Once he has a grasp of the situation, he can take a more active role. He can generate ideas. Any number of community organizations would welcome his thoughts.

"Then, people are needed to develop ideas, put them into writing, and get them into practical use.

"After all, our primary objective in this area is to help people to help themselves. We can't do anything to—or for—the oppressed. We have to do it with them, so they can better themselves.

"In that way, we can take the raw product, add education, and come up with a rosy employment picture. The jobs are available, but only if people prepare for them."

'Now is the time . . .'

## A Kind of Missionary Confronts Pre-Retirement Counseling Job

A former teacher, school administrator, beekeeper, salesman, and farmer, R. A. Quelle of Benefits and Services Division, Sandia Laboratory's retirement counselor, brings to the job a unique viewpoint and a positive "message" about the business of living.

"When I was a boy on a Nebraska farm," Bert says, "we didn't have the separation of the generations that we have today. It was a small rural community and the older people were a vital part of it. Some of my finest hours were the times when I listened to the stories told by Civil War veterans or the pioneers who came from various European countries to the then 'open' plains of the Midwest."

These reminiscences are not beside the point here. Bert has definite opinions on the roles of youth and maturity and how each relates to retirement. These insights have led to his recognition as an authority on retirement.

Last week Bert was in Washington, D.C., participating in the Fifth Annual National Conference on Aging sponsored by the U. S. Department of Health, Education, and Welfare. Earlier in April, he participated in a statewide conference on Economic Opportunity as a member of the Governor's Committee on Aging, spoke to the Los Alamos County Committee on Aging, and participated in a conference on social responsibility sponsored by the First Unitarian Church of Albuquerque. He has several additional speaking engagements on his calendar for coming weeks.

On the job, he conducts Sandia's pre-retirement counseling program with individual conferences with employees and group sessions every Tuesday night at the Coronado Club. More than 700 persons have attended the sessions since the program started in May 1960.

Bert's "message"—which is an approach to living—is many-faceted and varies with each individual. He works it in offhand, as an aside to another subject. He is not dogmatic nor a fanatic, but he is a missionary.

He tells stories, at appropriate moments, which are larger in meaning than the events related.

"We had a Sandia employee," Bert will say, "who retired at age 65. He was a good employee, dedicated to his job, and in good health when he retired. He sat in a rocking chair for 59 days and died."

Bert uses statistics too. He quotes the population figures that show of all the people in the history of mankind who have ever lived beyond age 65, one-fourth of them are living today. Bert points out that there are more than 13,000 people living today who are 100 years old or older.

Bert also tells about Sandia retired men such as Sterling McCollum, Art Russell, Ray Allen, Sten Persson, Francis C. Scott, Alfredo Montoya, Clark Read, and others who have been "retired" for several years but are as active or more so than ever before. These men are working for youth groups, for professional organizations, for churches, for hospitals, and for themselves. They are busy with plans, with classes, with hobbies, and with friends.

### Handicap Tournament Lures Large Field of Lab Bowlers

More than 222 individual bowlers and 45 five-man teams will compete in the first annual Sandia Lab Handicap Tournament, which gets underway this weekend at Holiday Bowl, 7515 Lomas Blvd. NE.

Winners will be determined over two weekends, with action winding up May 15-16.

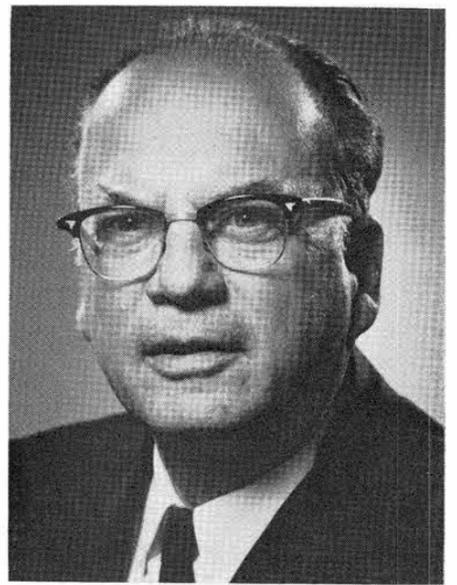
Trophies will be awarded in team events, singles, doubles, and all-events. Bowlers may participate once in each event.

Participants are sanctioned by the American Bowling Congress and will use 75 per cent handicaps based on 200.

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MAY 7, 1965



R. A. QUELLE

—"What do you look forward to?"—

They are vital, alive people, some of them 75 years old or older.

"These men were busy with many interests before they retired," Bert says. Then he pauses and looks intently at his listeners. "A man who never went swimming any time in his life probably won't jump in the pool after he retires.

"What do you do that gives you meaningful satisfaction?" Bert asks. "What is it that you do that gives you the most pleasure? What kind of self-expression, self-realization do you experience?"

The "things" themselves are not important, Bert believes. If doing them gives you pleasure, makes you excited, generates enthusiasm in others, then the "doing" is the vital life process. This is the difference between early death and a long enjoyable old age.

Bert urges early planning for the "mechanics" of retirement—income, insurance, residence—in other words, arrange for security. But these are just mechanics, Bert says. He emphasizes the intangibles that he feels are much more important.

"Ours is an impersonal culture," Bert says. "The individual can get lost, particularly in retirement. If your life is to be satisfying during retirement, then it must be satisfying now. The interests that will carry you into a century of living are those interests that you have now."

Bert sees a time when the culture will change. With more retired people, it will have to change. He envisions a new kind of community center, adjacent to high schools, which would serve the recreational, social, and educational needs of older people and provide a program of interaction between youth and age. The centers' purpose would be to emphasize personal worth.

Usually a confrontation with Bert results in a re-evaluation of your activities and your value system. This, in its most effective form, is pre-retirement counseling.

## SANDIA CORPORATION LAB NEWS



ALBUQUERQUE, NEW MEXICO • LIVERMORE, CALIFORNIA

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# LIVERMORE NEWS

## Livermore Notes . . .



Joe Sladky was victorious for reelection to the Livermore Elementary School Board for a second four-year term. He was first elected to the board in 1961, following his appointment the previous year to fill a vacancy.

Oliver Rohrbach won the first place trophy in the Sandia Employees Golf Club handicap tournament at Elkhorn Golf Club, Stockton, on Apr. 17. He scored a low net of 61. Curt Franklin and Joe Buchler captured the "blind partner" award with a combined net score of 58. "Ollie" Olivotti and Oliver placed second. A special award went to Charlie Anderson for coming closest to the pin at the 15th hole.

The success of the Apr. 23 Spring Cruise-Dance encouraged many to plan for the second cruise on June 11. Jim Henderson, who has been instrumental in the arrangements for both cruises, reports that an invitation to the cruise has been extended to LRL employees, and tickets are going fast. Additional information about the June cruise-dance is posted on bulletin boards.

## SCLL Photographers Participate in Almost Every Program at Livermore

If utility is the proper measure of value, the Photography Section at Livermore rates about as high as any organization.

Livermore photographers, under the direction of supervisor Hugh Odell, participate one way or another in nearly every program at the Laboratory and are on call for the many spontaneous photographic needs that arise during or after

## Pre-Retirement Counseling Program Underway At Livermore Laboratory

A pre-retirement counseling program is being offered at Livermore Laboratory for employees who plan to retire within the next five years. The program has been developed to help employees and their spouses prepare for retirement while they are still working.

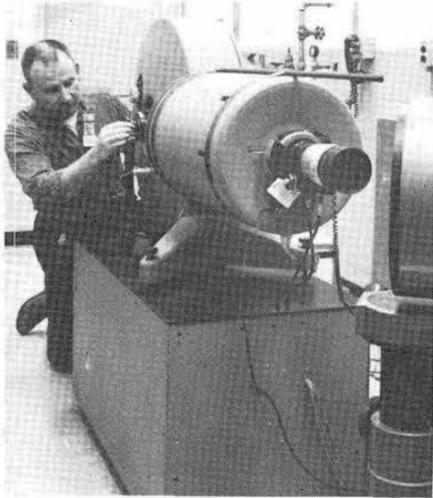
Arranged by Employee Benefits Division, the project will have five two-hour evening sessions held at the LRL cafeteria (East Ave.) from 7:30-9:30 p.m. on consecutive Tuesdays. The sessions will consist of lectures and question-and-answer periods.

The first session, on May 4, was devoted to the Sandia retirement plan, health care coverage, basic group life and supplemental group life insurance, and retirement annuity.

In future meetings, a social security field representative will discuss benefits relative to retirement planning, a State of California employment counselor will describe full and part-time employment possibilities, and a trust officer from a Bay Area bank will speak on trusts, wills, and other important financial matters. The last lecture will cover the health and medical aspects of aging, and social adjustment of retirement.

work hours. Their recent move into new, expanded quarters has enabled the photo lab to increase even further its quality of service.

Members of the SCLL Photography Section are Dave Abrahams, Jack Aydelott, Gordon Bennett, Elliott Dopking, George Hosoda, Ron Johnson, Ward Mitchell, Nick Sharp, Paul Van Dyke, and secretary Joan Kerns.



HE-TEST RECORD—This "streak camera" records the intentional detonation of high-explosive components at the Area 8 HE Test Facility. High-speed photography represents a large part of the work responsibility of Gordon Bennett, shown loading this research camera.



INSTRUMENTATION CAMERAS are checked by SCLL photographers Paul Van Dyke (on ladder) and Dave Abrahams at the test site in Mercury, Nev. Photography is an integral part of the test team for all field tests, and photographers from both Laboratories are called on to record many different events in varied test programs.

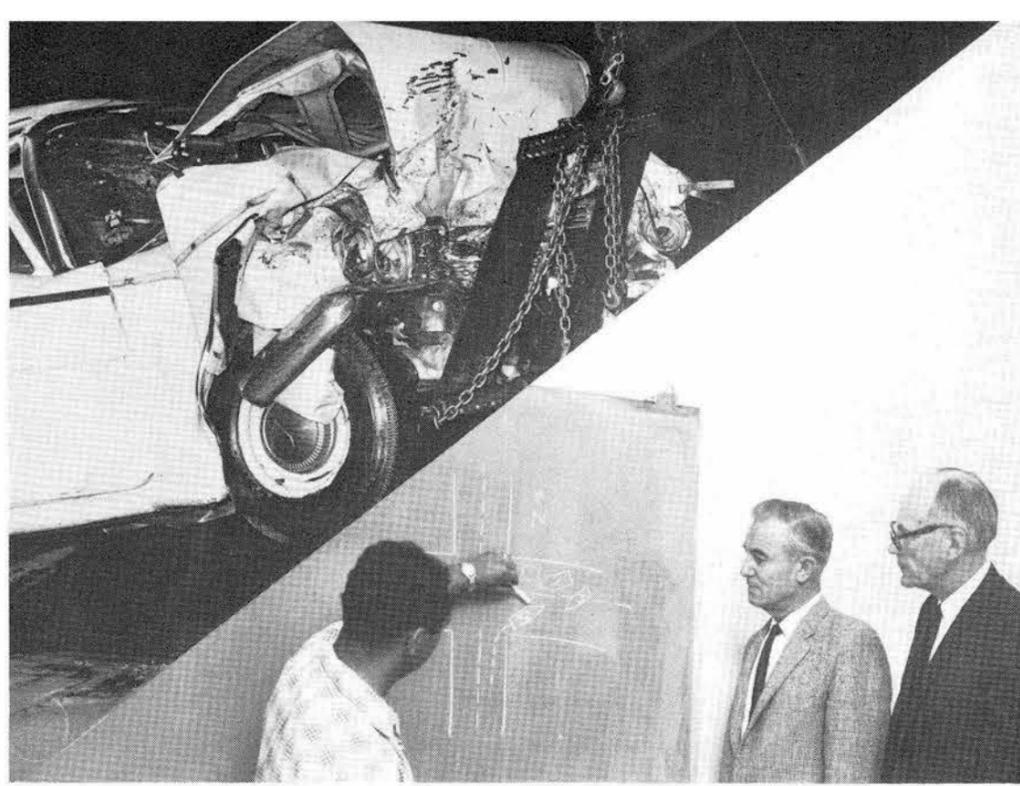


COPY CAMERA—Installation of this large process camera was the last step in consolidating all SCLL photography under one roof. For several years these varied photographic capabilities were housed in different buildings and in temporary trailers around the Laboratory. Putting the camera to use is Ron Johnson.

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IT COULD HAPPEN TO YOU. The recent highway death of a fellow Sandian serves as a grim reminder that traffic accidents are claiming more lives each year. Sandia equipment driver Don Giusti (left) discusses some of the typical situations he encounters while driving for Sandia with Safety Division Supervisor Gil Rhodes and Livermore Laboratory Vice President B. S. Biggs. The three are looking forward to "The National Safe Driving Test" to compare their driving ability against others throughout the nation. Sandia Corporation is actively encouraging all Sandians to participate in this forthcoming test to be carried on local CBS television stations May 24.

## Sandia Joins With Safety Council To Promote Safe Driving Education

It was raining, not heavily, but enough to impair vision and make road conditions hazardous. It was raining enough to require that extra degree of caution. Ned Tootle and his wife were returning from an evening of shopping, their car loaded with groceries. The Tootles were driving east toward Livermore on Highway 50. Farther east, another car entered the same highway from the Livermore exit, turned west and continued for about two miles—in the wrong lane of a fully divided highway. Such were the circumstances that led to the tragic death Mar. 26 of Ned Tootle, a Sandia employee for nearly seven years, and his wife.

It often seems to require the death of someone we know to bring the need for better driving practices into focus. We read daily the reports of similar accidents, but are lulled by the apathy of an "it-won't-happen-to-me" philosophy.

This month, Sandia Corporation will encourage employees to cooperate with the National Safety Council in one of the greatest attempts in automobile safety education to reach a mass audience. On Monday, May 24, at 10 p.m. (9 p.m. Mountain time zone) the Columbia Broadcasting System will present "The National Safe Driver's Test." Developed around a dramatic presentation on safe driving, this test for viewers can be used to determine driving judgment, knowledge, and perception.

This is not a show with preachments, nor is it for entertainment. It is a show that demands the participation of the viewer. As the viewer fills out his test form at home, he will actually be competing against the entire nation, and specifically against a carefully selected sample representative of all drivers in terms of age, sex, geography, and driving experience. Many of the same techniques found successful in the CBS News-IBM Vote Profile Analysis will be used.

Test answer forms will be supplied to Sandians by the safety organizations at Livermore and Sandia Laboratories on the Friday before the test and can be obtained in quantity for group participation. The questions will test judgment in two-car collision situations, knowledge of the rules of the road, and ability to perceive driving hazards. Film sequences will illustrate each question and will be shown both in slow motion and at normal speed to permit the viewer to share the experience of a collision or near collision. The show will last one hour.

According to National Safety Council President Howard Pyle, "Beginning Memorial Day, this nation will enter the most hazardous driving period of a year that is already breaking all records for traffic fatalities. More Americans will drive to their deaths this summer than in any three-month period in the entire history of the organized safety movement, unless something extra is done."

The National Safe Driver's Test is part of that "something extra," and will be the National Safety Council's opening shot of its biggest driver-education program. Sandians are strongly encouraged to participate in this effort to reduce the staggering accident rate.

## Blood Bank Drive Scheduled May 12

The annual Livermore Laboratory blood bank drive will be held Wednesday, May 12, at the LRL cafeteria (East Ave.) from 8 a.m. to 1 p.m. As in the past, free coffee, doughnuts, and orange juice will be served to donors.

Through the SCLL account with the bank, blood is available without charge to all Livermore Laboratory employees and their dependents. The account is operated on a pint-for-pint replacement basis, with the patient paying only the handling, storage, and administrative costs. These costs, per pint of blood amount to \$12, or, if the employee is covered by the Sandia Health Care Plan, only \$2.40.

Drive coordinator Jim Henderson of Employee Benefits says that since the supplementary drive last September, 23 pints have been withdrawn from the bank for employees and their dependents. Without the blood bank, blood would have cost an employee \$37.50 per pint including the administrative costs, or \$7.50 per pint if covered by the Health Care Plan. The blood bank is operated by the non-profit Alameda-Contra Costa County Medical Association.

## 'Bert's Bafflers' Take Bowling League Crown

The winter season for the Sandia Mixed Handicap Bowling League closed recently with "Bert's Bafflers" winning the first place trophy. Members of the champion team were Marion Burnett, Rita and Jerry Kowolik, Barbara Netherton, Irv Troyky, Bill McWhorter, and Bert Folks, captain. "The Tigers," captained by Roger Baroody, placed second in the 10-team league.

For the men, individual awards were presented to Kermit Cooper for his high scratch game score of 252; Joe Darginis for high handicap game, 290; John Anderson for high scratch series, 613; and Jim Rego for high handicap series, 703.

Taking honors for the women were Rita Kowolik for her high scratch game of 209; Mary O'Shea for high handicap game, 261; Dot Chappell, wife of Ken Chappell, for high scratch series, 555; and Marge Bell, for high handicap series, 701.

## Welcome Newcomers

Apr. 9-23

California	
Dolores E. Allen, Tracy	8244
Donna J. Bokanich, Livermore	8211
Charles E. Drury, Livermore	8232
Massachusetts	
J. George Clauveau, Essex	8144
Returned from Leave	
Robert G. Eastburn	8112

# Sandia Lab Apprenticeship Program Producing Highly-Qualified Craftsmen

Walter Myers is president of the Metal Trades Council.

Alvin Plant is an instrument repairman. Jake Gonzales is a precision machinist, former chairman of the Joint Apprenticeship Council.

John Hager is a layout operator in the Printed Circuit Shop.

Walter Mooney is a scholarship student at the University of New Mexico, studying to become an engineer. He is a Sandia consultant, teaching classes in the Apprenticeship Program.

The thing that these men have in common, other than proved abilities in their activities, is that they are all graduates of the Sandia Laboratory Apprenticeship Program.

Established in March 1958 through the joint efforts of the Metal Trades Council and Sandia Corporation, the program has produced a number of outstanding individuals and supplied Sandia's Development Shops organization with competent craftsmen, thoroughly skilled in the varied operations and complex equipment used in the machinist and electronics trades.

The machinist program began first and was augmented by the electronics apprenticeship program in March 1960. Both programs are alike in structure, requiring approximately 8000 hours of training to complete.

Included in the training are approximately 860 hours of classroom theory (studied in-hours); approximately 440 hours of related subjects like mathematics, physics, and drafting (studied out-of-hours); and approximately 6700 hours of shop skills. Academic requirements are high. The students spend about eight hours of home study on course subjects each week.

## Learn by Doing

While studying shop skills on the job, the apprentices are producing. Most of the on-the-job learning is in connection with regular Development Shops production work. They "learn by doing" with instructors showing the way.

Ken Dickerson heads the Apprenticeship Shop for the machinists. T. A. Allen guides the electronics apprentices. Technical and Trades Training Division provides instructors and facilities for classroom training and coordinates the program. Overall responsibility for the Apprenticeship Program rests with the Joint Apprenticeship Committee. Membership of the committee includes representatives of Sandia management and Metal Trades Council.

Of the 116 machinists at Sandia, 22 per cent are graduates of the Apprenticeship Program. Since the program started, 31 apprentices have been graduated to journeyman status, and 26 of these are still at Sandia. Twenty apprentices are currently enrolled in the program.

Seven have graduated from the Electronics Apprenticeship Program and 18 are currently in training.

Electronics graduates fill such jobs as electronic inspection, electronic fabrication, instrument repair and calibration, printed circuitry, physical electronics, and standards technicians.

The five men mentioned in the opening paragraphs are perhaps the best kind of testimonial to the Apprenticeship Program. Typical of the graduates, they are all qualified in their areas, but bring "something extra" to the job.

## Applicants Tested

Sandia apprentices are selected from a large number of applicants. More than 100 applications have been filed for the six current openings in the machinist program. Before they are chosen, applicants must pass a number of tests and be interviewed by the Joint Apprenticeship Committee.

Sandia's Apprenticeship Program is recognized as one of the most comprehensive in industry. The training is thorough and maintains high standards throughout.

WALTER MYERS, who graduated from the program in 1960, considers the experience extremely rewarding.

"I learned a trade," Walt says, "and it's a good one. Machinists take great pride in their work. In addition to the fundamentals and skills learned in the Apprenticeship Program, you also become part of this tradition."

Walt, like most other Sandia graduate apprentices, can't shake the study habit.



**WALTER MYERS**  
—Metal Trades Council President



**JOHN HAGER**  
—Printed Circuit Shop Layout Operator—



**ALVIN PLANT**  
—Instrument Repairman—



**JAKE GONZALES**  
—Precision Machinist—

He has completed three semesters of the Out-of-Hours Technical Institute program in mechanical engineering technology. He is currently enrolled in a course covering operation of numerically controlled milling machines.

In addition to Council activities, Walt also participates in the U. S. Naval Reserve. He is a Machine Repairman, 1st Class, and is "working for Chief rating."

ALVIN PLANT started at Sandia as a janitor. After a year, he became an ozalid operator in Document Department. To qualify for the Apprenticeship Program, he had to earn the equivalent of a high school diploma. In 1958, he passed the GED (General Educational Development) test conducted at UNM and was accepted in the Apprenticeship Program in 1961. He took a cut in pay for the opportunity.

Alvin is now an instrument repairman, a top job in his field. And he is still studying—a correspondence course in electronics engineering technology from Capitol Radio Engineering Institute.

JAKE GONZALES believes that his apprenticeship training was "the next best thing to a college education." He appreciates the fact that he was able to earn while learning.

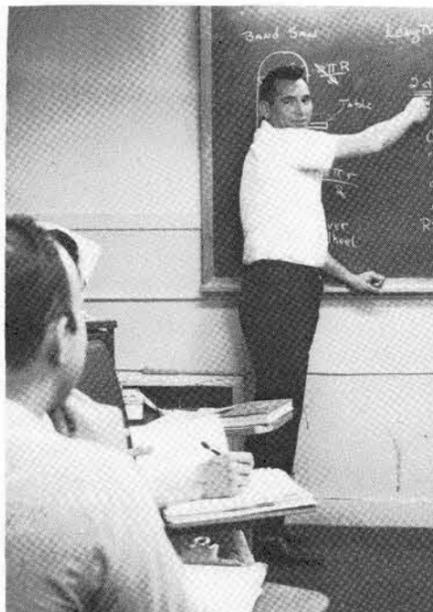
Jake was married and had three small children when he started the program in 1958.

He has completed two years in the Out-of-Hours Technical Institute course in mechanical technology.

JOHN HAGER held a variety of jobs in various parts of the country before starting at Sandia as a document clerk. About apprenticeship training, he says, "I wish I could have found it 10 years sooner."

John's current position is another top job in his field. It is a responsible position in the Printed Circuit Shop.

WALTER MOONEY started at Sandia in August 1957 as a helper in the Machine Shop. He graduated from the



**WALTER MOONEY**  
—Teaches Apprenticeship Classes—

Apprenticeship Program in September 1961. In the fall of 1963, he qualified for a four-year scholarship awarded by the International Association of Machinists and is now attending UNM.

"The apprenticeship training is an invaluable help in my current classes," Walt says. "I can visualize mechanical solutions to problems much more readily."

Walt is a Sandia consultant to the apprenticeship program and teaches shop theory at Sandia three afternoons a week.

On May 1, he was elected a member of Pi Tau Sigma, national honorary mechanical engineering fraternity. To be eligible for nomination to membership, a student must be in the top 25 per cent of his class.

## Take Note . . .

Jane Baker, Health Physics Division, has been installed as president of the Albuquerque Business and Professional Women's Club. Serving with her will be Margaret Potts, Administrative Programs Division, who was elected corresponding secretary. Both terms are for one year.

\*\*\*

D. S. Tarbox, Director of Security and Industrial Relations, has been named to the 13-member 1965 United Community Fund budget committee. The appointment was announced last week by Charles Steinger, committee chairman.

\*\*\*

H. W. Benischek, Purchasing Department II, officially represented Sandia Corporation at the dedication of a new engineering building at Oklahoma State University in Stillwater Saturday.

Mr. Benischek is a recruiter, and OSU is in his regular recruiting area.

## 11th VEEP Workshop Starting May 24

Sandia Laboratory's 11th Value Engineering Education Program (VEEP) will be conducted May 24-June 4, according to Elmer Devor, supervisor of Value Engineering and Cost Reduction Division. Personnel of the division conduct the 44-hour course with work divided between workshop and lecture activities.

Participants from various Sandia organizations will be assigned to project teams. The teams apply Value Engineering disciplines to various pieces of Sandia hardware or Sandia operations in an effort to achieve economy without compromising reliability, quality, or safety.

To date, 335 Sandians and 69 representatives of other organizations (such as AEC, DASA, and ACF) have attended the VEEP workshops.

## Title Chase Begins In Softball Leagues

Sixteen teams in two Sandia Lab softball leagues began the pennant chase in earnest this week.

Loop action in the eight-team slow-pitch league got underway Monday, while eight other clubs competed in fast-pitch league opens Tuesday and Thursday.

Slow-pitch play will continue each Monday through Aug. 11. Fast-pitch action is scheduled Tuesdays and Thursdays up through the playoffs, which begin July 13.

All games will be played at the C and D diamonds southeast of the Sandia Base gymnasium. Charlie Tucker, Design Definition Division C, is president of both leagues, which are coordinated by Benefits and Services Division.

## Congratulations

Mr. and Mrs. Raymond Chavez (3463), a son, Richard Julian, Mar. 21.

Mr. and Mrs. R. E. Knutson (2543), a son, Jon Martin, Apr. 18.

Mr. and Mrs. Tommy M. Simpson (4254), a daughter, Tessa Tawn, Apr. 25.

Mr. and Mrs. R. G. DeZeeuw (5122), a son, Curtis Todd, Apr. 20.

## Welcome Newcomers

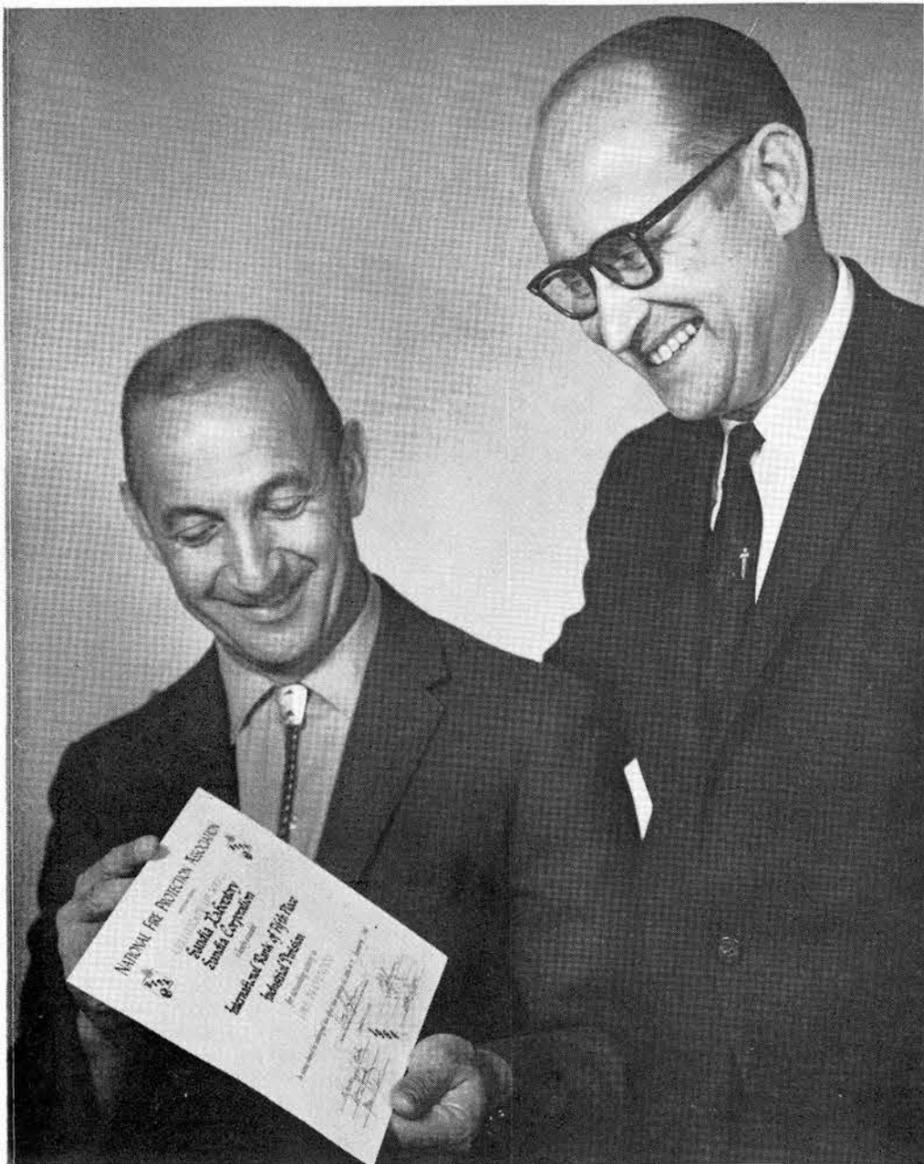
Apr. 2-30

Albuquerque	
L. Sue Cailteux	4135
Robert E. D. Woolsey	5256
New Jersey	
Eric D. Jones, Murray Hill	5151
New York	
Dean Buckner, Pittsford	5154

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LAB NEWS

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## Sandia Speakers

G. J. Simmons of Division II (5612), "A Generic Classification of Teaching Machine," National Symposium on Programmed Instruction, May 6-8, University of Pennsylvania; "Some Results Pertaining to Fermat's Conjecture," annual meeting of the Southwest Region, Mathematical Association of America, Apr. 2-3, Tempe, Ariz.

Elmer Devor of Value Engineering and Cost Reduction Division, "Value Engineers Create Roadblocks Too," 1965 national meeting of Society of American Value Engineers, Apr. 21-23, Boston, Mass.

K. S. Davis of Test Equipment Reliability and Engineering Design Practices Division, "Sandia's Role in the AEC Program," Project SETE (Secretariat for Electronic Test Equipment) meeting, Apr. 27, Tobyhanna, Pa.

R. E. Haymond and J. P. Brannen, both of Systems Analysis Division II, "Optimize the Location of Extrema," Rio Grande Chapter of the Association for Computing Machinery, May 13-14, Scottsdale, Ariz.

J. P. Brannen of Systems Analysis Division II, "An Application of Mechanics to the Location of Extrema," Rio Grande Chapter of the Association for Computing Machinery, May 13-14, Scottsdale, Ariz.

R. R. Prairie of Statistics and Components Division, "A Continuous Acceptance Sampling Procedure Based on Cumulative Sums," Iowa State University, Apr. 21, Ames, Iowa.

C. W. Jennings of Surface Chemistry and Adhesives Division, "Wear Testing of Plated Coatings," 10th Western Electric Interworks Finishing Conference, Apr. 27-29, Columbus, Ohio.

K. L. Goin of Experimental Aerodynamics Division, "Experiences with Uncooled Models in an Intermittently Operated, Heated Air Hypersonic Wind Tunnel," 23rd meeting of the Supersonic Tunnel Association, May 3-4, Farmingdale, N. Y.

G. H. Haertling of Ceramics Division, "Densification and Grain Growth of Hot-Pressed Lead Zirconate-Lead Titanate Ceramics Containing Bismuth," American Ceramic Society meeting, May 2-6, Philadelphia, Pa.

R. G. Kepler and A. C. Switendick, both of Physics of Organic Solids Division, "Diffusion of Triplet Excitons on Anthracene," Organic Crystal Symposium, May 10-12, University of Chicago.

G. L. Krieger of Tube Development Division, "The Indium Adhesion Test for

FIRE PREVENTION HONORS — Vincent C. Vespe, Director, Operational Safety Division, AEC/ALO (left), presents certificate to H. H. Pastorius, manager of Plant Engineering Department, honoring Sandia Laboratory's achievement of fifth place in the national fire prevention contest. Sponsored by the National Fire Prevention Association, Sandia was judged fifth best in the industrial category competing with 151 others.



INSTALLED MONDAY as officers of American Legion Carlisle-Bennet Post 13 were Sandians Flavio Gonzales (left) of Stock and Material Control Division, vice-commander, and Mike Silva of Plant Systems Division, executive committee member.

Surface Cleanliness," 1965 Spring meeting of the Electrochemical Society, May 10-14, San Francisco, Calif.

L. E. Terry and E. E. Komarek, both of Solid State and Thin Film Devices Division, "Structural and Electrical Properties of Vacuum Deposited CdS Thin Films," 1965 Spring meeting of the Electrochemical Society, May 10-14, San Francisco, Calif.

J. N. Shafer and J. D. Williams, both of Solid State and Thin Film Devices Division, "A Comparison of Substrate Cleaning Procedures," 1965 Spring meeting of the Electrochemical Society, May 10-14, San Francisco, Calif.

Eric D. Jones of Electron Structure of Solids Division, "Magnetic Properties of the Face-Centered-Cubic Antiferromagnet MnO," Solid State Seminars at the National Magnet Laboratory, Boston, Mass., May 5, and the Naval Ordnance Laboratory, Silver Spring, Md., May 6.

## D. W. Ballard to Present Technical Talk at Int'l. Meeting in Romania



For the first time, a Sandia Corporation employee will present a technical paper at a scientific meeting held in a Communist satellite country.

D. W. Ballard, supervisor of Manufacturing Research Division (2564), will participate in the International Atomic Energy Agency Symposium on Nondestructive Testing in Nuclear Technology, May 17-21, in Bucharest, Romania. His talk is entitled "New Frontiers for Nondestructive Testing in the Nuclear Age."

The invitation to participate in the unclassified symposium was issued through IAEA Director General Sigvard Eklund to AEC Headquarters in Washington. The AEC Division of Reactor Development recommended Mr. Ballard in view of his work at Sandia and his position in the Society of Nondestructive Testing (he was National President last year and remains on the SNT Board of Directors). The final selection of technical papers was made by IAEA officials in Vienna, Austria.

The other American representatives will be Gerold H. Tenney of Los Alamos Scientific Laboratory who will serve as Senior Member of the U. S. delegation; C. John Renken of Argonne National Laboratory; Daniel C. Worlton of Battelle Memorial Institute, Hanford Division; R. W. McClung of Oak Ridge National Laboratory; Warren C. Francis of Phillips Petroleum Company, Atomic Energy Division; Warren J. McConnagle of IIT Research Institute; and R. H. McKane of E. I. du Pont de Nemours and Company, Savannah River Plant.

Due to the sensitivity of the symposium's theme and the location of the meeting, the American delegation will attend a briefing in Washington prior to going overseas.

The International Atomic Energy Agency was created in July 1957, under the auspices of the United Nations, with 77 member-countries, including the USSR. Its major interest is furthering the peaceful uses of atomic energy.

Mr. Ballard's unclassified paper is of general survey nature, rather than a discussion in depth about a specific technique or method. He noted, "While the capabilities of well-known test methods such as radiography, ultrasonics, and electromagnetic testing are being greatly extended in an attempt to satisfy the accelerating technical demands for perfection, new testing concepts are being developed specifically to test both static and dynamic performance requirements. These high-speed, high-resolution methods are truly 'new frontiers' for nondestructive testing and constitute the basis for this paper."

Among the newer test methods discussed are infrared testing to determine the condition of welds; cineradiographic testing of structures during vibration testing to examine dynamic behavior; use of radioactive gas to detect leaks in sealed components; in-motion radiography; and cinesonography using ultrasonic imaging.

"My presentation will close with a discussion of fully automatic, high-speed equipment that has been developed for rapid scanning applications," Mr. Ballard added. Such systems incorporate several nondestructive test methods applied simultaneously.

"My source of material," he said, "was personal experiences with many companies during the past seven years of national service and association with SNT, and extensive quotes from previously published literature — some 32 references including Sandia reports, TIME magazine, American and British technical journals, and papers presented at the spring convention of SNT."

En route to Romania, Mr. Ballard will visit the Atomic Weapons Research Establishment in England, the International Institute for Production Engineering in France, the Societe Genevoise d'Instruments de Physique in Switzerland, and the headquarters and laboratory of IAEA in Austria. Mr. Ballard said, "Since Romania is considered one of the more progressive satellites, we hope that a visit to some of its laboratories and factories will be offered. All travel arrangements are being handled by a government-controlled tourist bureau named Carpati which is similar to Intourist in Russia."

Mr. Ballard came to Sandia in 1950 after five years experience in nuclear weapons development at Oak Ridge, Tenn., and Los Alamos in both the Army Corps of Engineers and as a civilian. Since 1960, he has supervised an advanced manufacturing development division which studies and proposes solutions to anticipated manufacturing, inspection, and testing problems. He holds BS and MS degrees in mechanical engineering from the University of New Mexico.

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LAB NEWS

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SANDIA GUN CLUB'S number one team, with three Sandia Laboratory members, duelled all season with the Kirtland AFB Gun Club. After tying for the league honors, the teams shot it out for the championship. Sandia took the final match 1091 to 1086. From left are George W. Hendricks, Gerald L. Scrivner, Richard W. Vivian of Joint Task Group Division, Ray G. Mosteller of A&F Field Support Division, and Dean H. Cranston of Design Definition Division C. Not shown is team member Edward C. Carpenter. Ray Mosteller finished the season with the highest individual score—274 out of a possible 300.





**BALANCING ACT**—Grade 10 millwrights in Plant Maintenance Department are practicing a balancing act these days, but it has nothing to do with vaudeville. Instead, they are brushing up on skills needed to balance rotating machinery parts. Pointing out some of the finer techniques to Allen J. Williams (center) and Dennis A. Doherty (right) is Instructor Dave Wilkinson.

### Millwrights Get Refresher in Precision Wheel Balancing

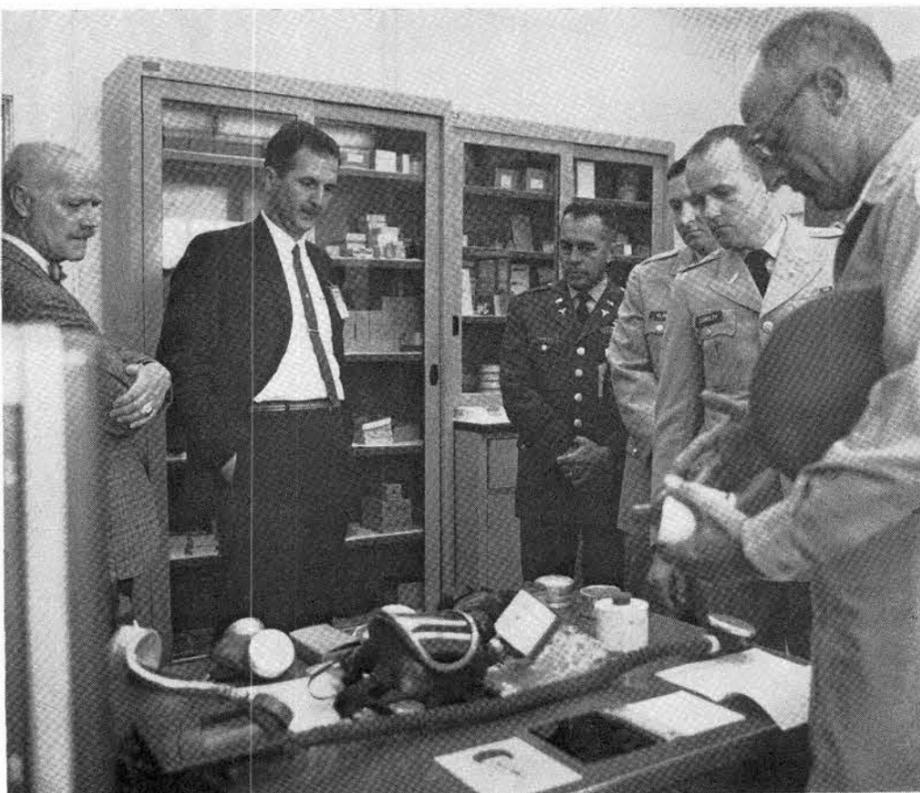
Precision balancing of rotating machinery parts—a skill required of grade 10 millwrights, but one infrequently used—is the subject of a 12-hour brushup session being given in Bldg. 887.

Seven men are in the group, and Dave Wilkinson, Field and Plant Operations Engineering Division, is the instructor.

Training consultant Wayne Trump, Technical Training and Education Division, said the refresher was established at the request of Plant Maintenance Department because wheel balancing skills are lost rapidly. Millwrights are not required to use the complicated precision balancing techniques on a regular basis; only when the need periodically arises to fix fans, blowers, motor armatures, lathes, or high-speed machine tools.

The process is similar to one used in garages to balance automobile tires dynamically. The men practice on a small, revolving drum which can be thrown out of balance purposely.

**ENVIRONMENTAL HEALTH SAFEGUARDS** at Sandia Laboratory were described by Dr. S. P. Bliss, Medical Director (left), and R. J. Everett, supervisor of Environmental Health Division, during a visit last month by (center to right) Col. John H. Tenery, head, Sandia Base Hospital; First Lt. R. S. Glou and Capt. K. E. Longley, both of the Army Environmental Hygiene Agency, Edgewood Arsenal; and Lt. Col. Samuel J. Foti, assistant to the staff surgeon for Field Command/DASA.



### Sandians Participate In Vacuum Science Symposium Today

A number of Sandians are participating in the First Annual Meeting on Vacuum Science and Technology today at the Western Skies Motor Hotel. J. F. McDowell of Advanced Manufacturing Development Division and D. G. Schreiner of Atomic Interactions Research Division are co-chairmen of the conference, which is sponsored by the New Mexico Section of the American Vacuum Society.

C. F. Bild, Director of Materials and Process Development, opened the conference yesterday with an introductory address. R. D. Snidow of Scientific Glass Section presented a talk on "High Vacuum in Glass."

Also on yesterday's program, K. D. Hardin of Solid State and Thin Film Devices Division discussed "Fabrication of Passive Thin Film Devices." J. D. Williams of the same division discussed "Fabrication of Active Thin Film Devices." D. L. Stewart of Electrical Division discussed "Physical Electronics."

Mr. Williams led a round table discussion on thin film fabrication during a session today. L. C. Beavis of Tube Development Division discussed "Partial Pressure Analysis" and G. M. Haughness of Evaluation Division A described Sandia's Leak Detection Laboratory.

W. E. Bergsten of Advanced Manufacturing Development Division is the newly-elected chairman of the Section and Mr. Schreiner is secretary-treasurer.

### Supervisory Appointment



**DAVID C. BICKEL** to supervisor of Track, Rocket Launcher and Guns Division, Environmental Research and Operations Department, effective May 1.

Dave has been in this same field of work since he came to Sandia five years ago.

His previous experience includes three years as a track supervisor for the Pennsylvania Railroad.

He has both BS and MS degrees in civil engineering (major in structure) from the University of Notre Dame and is a registered professional engineer in Pennsylvania.

For two years Dave served in the U.S. Army Corps of Engineers.

### H. L. Rarrick on Health Physics Board

H. L. Rarrick, supervisor of Health Physics Division, was elected to the Board of Directors of the Rio Grande Chapter of the Health Physics Society during a meeting of the group in Albuquerque, Apr. 23.

Other new officers are Dr. Robert G. Thomas, Lovelace Foundation, president; Edwin A. Bemis, Los Alamos Scientific Laboratory, president-elect; and W. D. Moss, Los Alamos Scientific Laboratory, secretary. The retiring president is W. H. Kingsley, manager of Environmental Health Department.

Guest speaker at the recent meeting was Dr. Howard L. Andrews, president of the National Health Physics Society, Bethesda, Md. Members attended from Los Alamos, Santa Fe, White Sands, Albuquerque, and other points in New Mexico.

### Service Awards

15 Years



Ray M. Hooper  
3242  
May 9, 1950



Brad L. Sanders  
4252  
May 15, 1950



Burl G. Duncan  
4152  
May 16, 1950



Benjamin D. Mills  
8252  
May 18, 1950



Nancy M. Sanchez  
3462  
May 19, 1950

10 Years  
May 7-21

Virginia T. Sims 4615, Avelina G. DuBois 2234, J. Lloyd Williams 2513, Jack H. LaFleur 2544, and Roch W. Bradshaw, Jr. 7331.



**BELL SYSTEM PAVILION** at the New York World's Fair is one of the more popular attractions. The giant "flying wing" structure houses 40 exhibits and features a 14-minute ride through a show that combines films and stagecraft to depict communications of the past, present, and future.

### High Scouting Award Presented E. L. Bolton

"It came as a very big surprise" was Ernest L. Bolton's reaction when he was presented the Silver Beaver, highest Boy Scout award the Kit Carson Council can award to an adult.

Ernie, supervisor of Purchasing Administration Division, was one of seven men from New Mexico and Arizona to receive the top honor during the Council's annual recognition banquet in Albuquerque Apr. 29.

He has been Scoutmaster of Troop 285 for the past 10 years. This group ranges in size from 50-60 members and during the past five years 18 of the boys have become Eagle Scouts.

Previously he was awarded the Scoutmaster's Key and Arrow Award, and is a brotherhood member of the Order of the Arrow.

Before becoming a Scoutmaster, Ernie was a Cub Scout committeeman for three years. "My interest in Scouting actually goes back to when I was a Scout in Massachusetts. In many ways, I think present day Scouting is returning to the kind of activities we had. There is more emphasis on hiking, and pack trips—things that tie in with the Physical Fitness Program," he concluded.

### Sandia Fair Visitors Can Avoid Lines At Bell Pavilion

When the New York World's Fair reopened recently, crowds once again flowed into the Bell System pavilion. Bell's communications exhibit, housed in a giant "flying wing" structure, was the scene of long lines waiting to tour the 40 exhibits and other attractions of the pavilion.

Sandia Corporation employees (including retired employees) and their families will be able to enter the Bell System pavilion without waiting in the general line if they show their Sandia identification card. Also, for their accommodation, the pavilion will be opened at 9:30 each morning, a half-hour before the regular opening.

Sandians vacationing at the Fair will also want to see the Sandia Corporation exhibit in the New Mexico pavilion. Prepared by Community Relations Division, the Sandia exhibit has proved popular with visitors in the adobe-style New Mexico pavilion.



## Look Closely— The Model May Be Your Secretary

Sandia women are being included among the professional models for the regular Wednesday noon fashion show at the Coronado Club.

Carmie Sanchez of Personnel Processing and Reports Division was the first local representative to model, and that day—Wednesday, Apr. 28—the number of lunch hour patrons reached a new high of 319, according to Club Manager John Ulling.

Maxine Ludi of Personnel Division II displayed several daytime costumes during last Wednesday's program. Forthcoming Sandia models will include Dodie McKelvey of High-Altitude Nuclear Burst Physics Department on May 12 and Sue Williams of Systems Analysis Division I on May 19.

If you would like to model, or would like to suggest a possible model, please contact Tom Morgan of Benefits and Services Division.

## Free Hearing Tests Offered During May

The Albuquerque Hearing Society will administer free hearing tests throughout May as part of its observance of National Hearing Month.

Dr. S. P. Bliss, Medical Director, said the free service will be available to all Sandia Corporation employees and their families, as well as the general public. Normal cost of the test, which determines a person's total hearing range, would be \$5.

The Albuquerque Hearing Society is a United Community Fund agency which receives continuing support from the Sandia Employees' Contribution Plan.

Persons wishing to take part in this preventive program may make advance appointments by calling the society, tel. 268-6412. Society offices are at 2000 San Mateo Blvd. NE.

# New 5000-ft. Rocket Sled Track Announced for Area III Testing

The Atomic Energy Commission this month will invite contractors to bid on construction of a high-velocity sled track facility in Tech Area III at Sandia Laboratory.

Bids are to be invited about May 19 and

opened June 18 in the Albuquerque Operations Office. Work completion is expected within 300 days after the contractor is asked to proceed.

The new 5000-ft. test track is budgeted to replace an existing low-velocity facility, which has been in use since 1954. It is designed to simulate environments of missile launchings, jet plane takeoffs, and catapult launchings, and to test capabilities of systems and components upon impact.

K. M. Timmerman of Environmental Testing Organization which uses the facility said the old 3000-ft. track was no longer suitable for certain testing operations. "It merely deteriorated from years of hard use," he commented.

While sleds on the old track reached speeds of up to Mach 2.3 or about 1700 miles per hour, engineers hope to attain Mach 5 (about 3700 mph) on the new sled track. Plans for the duo-track facility call for continuous rails which would eliminate section joints every 39 ft. such as were found in the old track. Proposals for the new track also provide for a 22-in. span between the rails. The old track is standard railroad gauge, 56 in. apart.

Project engineer George Power, Field and Plant Operations Engineering Division, said the project will include construction of the near-mile-long track with blockhouse for control operations, and access roads. Installation of instrument system components and utilities also is included.

For non-destructive tests of acceleration, the sleds are stopped short of impact by standard water-braking methods. On impact tests, the sleds are fired into targets such as wood, earth, metal, water, or reinforced concrete.

The rocket-powered sleds ride on horse-shoe-shaped clamps which grip the underside of the railhead, keeping the sleds from becoming airborne.

The AEC, in announcing the project, estimated cost at from \$950,000 to \$1.05 million.

## Deaths

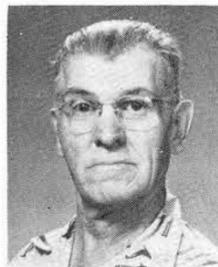


William O. Clark, a Livermore Laboratory mechanical engineer for over eight years, died suddenly in Sheboygan, Wis., on Apr. 24. He was 46 years old.

Mr. Clark was a staff member, technical, in Preliminary Analysis Division at the time of his death, but had worked primarily in project engineering organizations during his service with Sandia.

Memorial services were held in Sheboygan.

Survivors include his widow, Dorothy L.; a son, Jeffrey E.; and a daughter, Ann D.



Raymond W. Snyder, a retired Sandia Corporation employee, died Mar. 24 at Noblesville, Ind. He was 62.

While at Sandia, he worked in Janitor Service Division.

Survivors include his widow in Arcadia, Ind., and a nephew.

AN INTERESTED AUDIENCE greeted Carmie Sanchez of Personnel Processing and Reports Division as she joined the professional models for the Coronado Club's regular Wednesday noon fashion show.

## PAGE SEVEN

## LAB NEWS

MAY 7, 1965

## Sympathy

To Harry J. Blechinger (7323) for the recent death of his mother in Dresbach, Minn.

## SHOPPING CENTER

**CLASSIFIED ADVERTISING**  
Deadline: Friday noon prior to week of publication unless changed by holiday.  
A maximum of 125 ads will be accepted for each issue.

### RULES

1. Limit: 20 words
2. One ad per issue per person
3. Must be submitted in writing
4. Use home telephone numbers
5. For Sandia Corporation and AEC employees only
6. No commercial ads, please
7. Include name and organization
8. Housing listed here for rent or sale is available for occupancy without regard to race, creed, color, or national origin.

### FOR SALE

- 3-BDR. den. at \$17,500 FHA appraisal, sprinklers, carpeting, AC, walled, garage, caryort. DR, fireplace, near Nob Hill. Smith, 256-0375.
- MAGNAVOX TONE GENERATOR, one octave (plus harmonics), 132 transistors, \$50 or best offer or swap for FM receiver. Hansche, 255-2878.
- GOLF CLUBS, Wilson Crest, 5 irons, 3 woods, cart and bag, \$30. Cook, 298-8190.
- FURNITURE: bdr., living room, dinette; '64 Westinghouse washer; '62 Buick AC, stationwagon; also misc. items. Camp, 865-7839.
- THREE automatic washing machines, \$50, \$60, \$75; one apt. size refrigerator; one navy bedding roll; one R-1 lot. Dunaway, 299-1422.
- ROBERSON, 3-bdr. den at \$17,500 FHA appraisal, recently carpeted and painted. Everett, 299-6057.
- '59 BONNEVILLE HT COUPE, extra power, \$875 or best offer. Budge, 256-2002 weekends and after 6.
- WURLITZER blond spinet piano, \$495. Gonzales, 242-4012 after 6.
- '52 OLDS 98, R&H, \$50; '50 Jeepster, 6-cyl., OD, R&H, \$150; '61 Mustang motorcycle, \$50. Sieglitz, 268-8756.
- 16' CRIS-CRAFT, 16HP Oliver motor, trailer, elec. starter. Blakely, 299-5942.
- ROBERSON 3-bdr., 1 1/2 bath, separate DR, utility Rm, sprinklers, AC, patio, NE; Hotpoint electric range, 2-yr. old, '38" auto. oven. Scully, 299-9373.
- '54 BUICK 4-dr. sedan \$185; Schwinn bike, boy's, \$3; gas stove and refrigerator, both for \$45. Causey, 299-0089.
- SMALL MAPLE DINETTE SET, \$90; Polaroid camera, J-66 model, \$65; new card table and 4 chairs, \$35. Crumley, 299-5293.
- 80-155 FT. LOT in Unit No. 1 of Glenwood Hills. Schonberg, 298-6929 after 5.
- HAND LAWN MOWER, \$7, Sektan, 298-0373.
- SIMMONS HIDE-A-BED w/Beautyrest mattress, back and arm rests, all steel frame; also table and floor lamps. Nichols, 247-2564.
- SELL OR TRADE: 3-bdr. house, garage, N. Valley, w/w carpeting, or trade for home in the Heights. Montana, 344-3797.
- MAPLE HEADBOARD for single bed w/brackets for Hollywood frame, \$8. Fraueglass, 345-0119.
- SELL OR RENT: 3-bdr., study, carpeted, landscaped, walled, low down payment, \$10,000 total, 1608 Stanford SE. Lamberson, 298-5337.

## SHOPPING CENTER

- ALUMINUM (foam green) porch blinds; 2 pr., interlined kitchen drapes; medicine chest; 2 bathroom sinks; chair; card table; electric stove; highest bid. McMaster, 268-8062.
- GARAGE DOOR, metal. Garcia, 243-5117 after 3:30.
- SANDIA KNOLLS LOT 115, water, electricity available, lot can be used for a trailer home, make offer. Nogle, 299-3863.
- 4-BDR. BRICK, near Mark Twain School, shopping centers, mature trees, finished yard, \$1000 below FHA appraisal, \$20,900. Martin, 256-3384.
- 21' MAGNAVOX TV, new picture tube 1 yr. ago, \$40; Craftsman hand mower, \$10. Adkins, 299-1859.
- 26" SCHWINN bicycle, boy's. Johnson, 298-8623.
- '62 RAMBLER AMERICAN wagon, R&H, OD, \$825. Selph, 298-7635.
- WHEEL FOR GMC or Chev. 3/4-ton pickup, 8 hole, 17.5 tubeless, \$5. Souder, 282-3121.
- CAMERA, Rolleiflex 4x4 F3.5 Schneider portrait lens and misc. filters, GE exposure meter, \$60. Roth, 242-4636.
- RUSSEL WRIGHT casual china, white, five 5-piece place settings, \$15; folding ping-pong table and accessories, \$15; Sear's silent hand lawn mower, \$12. May, 299-2624.
- 24" TV, MAGNAVOX console, needs HV transformer, has auxiliary input jack to speakers, \$15. Walker, 299-6039.
- ENCYCLOPEDIA World Book Aristocrat, 20 vol., brand new edition, still in shipping carton, Cost \$190, sell \$170. Jenkins, 898-1507.
- 4-BDR., fireplace, covered patio, breakfast bar, carpeted, AC, small down payment to GI Loan. Priddy, 298-3626.
- '58 PONTIAC 4-dr., AC, VS, AT, R&H, 12,000 miles since overhaul. Randall, 256-1853.
- LATE MODEL KIRBY vacuum cleaner w/all attachments, \$75; baby car bed and child's tricycle. Wilson, 298-0049.
- '55 MERCURY Montclair HT, R&H, AT, 4-way seats. Dumond, 898-3155 after 5.
- 3-BDR. ROBERSON, FHA appraisal \$16,800, fireplace, built-in range, utility rm., AC, carpeting, covered patio, landscaped, double garage, sprinklers. Stiver, 1825 Propps NE, 298-0514.
- REGISTERED Half-Arabian yearling grey filly. Gentzler, 282-3425.
- TRAIL SCOOTER, HiLo range, payments \$15 mo. Armijo, 877-3857.
- ENAMELED FURNITURE, 2 chests of drawers, 2 small desks, 2 book shelves, \$35 for lot. Roberts, 255-9527.
- 3-BDR. modern house, located by ACF Ind.; sell, rent, or trade for land in Bernalillo. Gonzales, 299-7208.
- POSTUREPEDIC MATTRESS, box springs and new headboard, extra long; rebuilt Sunbeam toaster. Welchel, 299-1134.
- EIGHT PAIR women's shoes, size 4, name brands, 299-3851.
- 5 PIECE, western style den furniture, Villane, 299-4034.
- SHEET ROCK, 8 sheets 4'x8'x1/2", 1 sheet 4'x8'x3/8", \$1.50/sheet or make offer, all or any part. Fisher, 298-0526.
- TV, 16" small table model Olympic. Carter, 344-6563.

## SHOPPING CENTER

- 3-BDR. home, price reduced \$1000, pitched roof, walled yard, carpeted LR, 2 baths, attached garage, terms flexible. Berger, 298-4234.
- CRIB AND MATTRESS, \$15. Jacobs, 344-2534.
- CONLORD TAPE RECORDER, 6 tubes, w/2-5" reels, \$30. Wallace, 255-2368.
- POODLES, pups, black, miniature, registered. Precit, 299-3438.
- POODLES, black miniature, 6 weeks, \$40; heavy duty trailer hitch, \$5; free Bermuda soil. Everگرد, 256-6345.
- MOTORCYCLE, BSA, 350cc, bags, windshield, mirrors, \$390. Lewis, 299-7217.
- CAMPER, homemade for narrow-bed pickup, plywood constructed w/trailer windows which open, \$50 cash. Silva, 877-0983.
- 8" CEILING exhaust fan w/jack for flat roof, \$15; horizontal sliding aluminum window, 36"x60" w/frame, screen, \$15. Stamm, 255-2288 after 5.
- 3-BDR., next to Base, fully carpeted, corner lot, \$10,700. Sinerok, 255-6306.
- '63 PONTIAC CAT-SPT-sedan, power, factory air, 15,000 miles, original owner. Browning, 299-6384.
- BAR-B-Q, \$10; laundromat, \$25; chest freezer, \$50; Lenox Rose china, \$350; dining room set, Gasser, 255-4562.
- FOUR 7.10x15 6-ply tires and wheels, 50% tread left, fits '62 Ford pickup, \$40. Ward, 298-7250.
- LAVATORY, new, \$15. Bertrand, 268-4191.
- '61 CHEVROLET Belaire sports coupe, R&H, AT, dual speakers, price below book. Reynolds, 299-5157.
- NYLON RUGS, one 18x13; mahogany dining room set; children's play store and refrigerator. Jennings, 255-5950.
- '57 STUDEBAKER 6, R&H, 4-dr.; 15" Cadillac wheel. Brooks, 299-1884.
- PEMBROKE WELSH CORGIS, AKC registered, 10 weeks, sired by Champion Cote de Neige Candyman, permanent shots started, \$150. Dauphinee, 255-6367.
- WOODED LAND, Holiday Park approx. 20 mi. from Albuquerque, high overlooking Estancia Valley, near Route 217, \$400 an acre; terms. Miller, 344-8253 after 5.
- FLUTE, \$75 cash. Fisher, 265-0626.
- '53 FORD 2-dr. sedan, \$50. Biesterveld, 256-7983.
- 3-BDR. 1 1/2 bath, study, den, brick fireplace, attached garage, utility room, disposal, 1918 sq. ft., \$17,500 (\$500 below appraisal). Rush, 298-4849.
- 3-BURNER CAMP STOVE, \$15. Thayer, 299-3127.
- SEWING MACHINE, Graybar console, \$25. Taylor, 299-2281.
- '58 CHEV. 1/2-ton pickup, 4-speed trans., \$525. Glauner, 299-0277.
- '60 CHEV. pickup, 8-cyl., 8'-bed, 4-speed, \$895, \$100 under book. Corey, 865-7430.
- LEFT-HAND GOLF CLUBS, registered woods and irons, 1-4 woods, 2-9 irons, putter, \$50. Fornero, 299-4797.
- 17' MOBILE SCOUT TRAILER, self-contained w/shower, butane refrigerator and instant hot water, trailed less than 2000 miles, \$1350. Westman, 255-6048.

## SHOPPING CENTER

- KODAK CAMERA, 3 1/4x4 1/4, \$5; ten cartons 30-06 ammo, \$15; Quick-set tripod, \$10; carton .22 L.R. ammo, \$5. Alvino, 255-6339.
- '56 FORD without motor or transmission, \$27.50; cabin for mountain or lake lot 12'x16' main floor plus loft. Villella, 299-6261.
- 8 TOGGLE SWITCHES, 2 three-way and 6 regular, \$1.50. Hayes, 298-4682.
- ARMY CARBINE, 50 rounds 30 cal. ammo, 2 extra magazines, \$45. Parks, 268-0875.
- '52 MG-TD classic roadster, consider swap for '56-57 VW. Ludwick, 114 Mesa SE.
- CORRALES ADOBE, 3-bdr., 2 baths, studio, 3 fireplaces, beamed ceilings, brick floors, 3 secluded wooded acres, \$45,000. Brown, 898-1322.
- BABY FURNISHINGS, cradle, mattress, chair, warmer, stroller, etc. Porter, 2708 Alcazar NE, 298-3623.
- M-1 CARBINE .30 cal., \$40; Savage 12 ga. auto shotgun, \$45; Mannlicher Schouner barreled action chambered .308 Winchester, \$25. Svenson, 344-7700.
- 3-BDR. MANKIN in Bellehaven School District, no qualifying, small down, assume GI loan, \$85/mo., \$12,250. Evans, 298-0867.
- TWO MOUNTAIN lots on Pecos River at Cowles, N.M. Also have steel utility trailer. Collins, 268-3612.
- SWAN 240 Transceiver, AF-67 transmitter and factory P.S., \$50; F. W. Viking Valiant transmitter, \$115. Hansen, 344-8985.
- AQUARIUM, 10-gal. w/filter, other acc., \$5; Viking 85 tape recorder w/2 RP-65 record playback amplifiers, all in portable carrying case, \$150. Cope, 298-5864.
- 15 TUBE AMATEUR RECEIVER, Mohawk RX-1, 160-10 meters, CW-SSB-AM, cost new \$299.95, sell for \$179. Bassett, 898-1840.
- BRIDLE with forged steel bit, \$15; will throw in homemade too-high saddle rack. Taylor, 256-3774.
- '64 YAMAHA 60 motorcycle, low mileage; Magneto chord organ, best reasonable offer. Sandren, 299-5007.
- 1/2-TON utility trailer, galvanized steel box 44"x54"x9" deep, total volume w/frame and canvas cover is 40 cu. ft. Wilde, 344-6079.
- MATCHING MATTRESS and box spring for double bed, Rest-A-Pedic, \$25 or make offer. Rost, 298-3247.
- 2-BDR HOUSE and 2-bdr. apt. on corner lot, sell or lease, call Abeyta for complete details, 255-5369.
- REFRIGERATOR, apt. size, \$30; Ironrite mangle, \$30; ping pong machine, \$10; new roll-away-bed, 3/4 size, \$30. Browne, 344-9675.
- 3-BDR. AND DEN, 1 1/2 bath, utility rm., AC, carpeted, walled, corner lot 2 1/2 yrs. old, low equity, \$15,750. HUGHEN, 298-2900.
- 3-BDR., pitched roof, 2 baths, built-in kitchen, dishwasher, carpeted, \$500 under FHA appraisal. Holben, 345-1476.
- COMPLETE S.S.B. transmitter DX 100 plus S.B. 10 adaptor. McClure, 268-0720. evenings and weekends.
- '54 BUICK Special 4-dr., \$175; Simmons mattress, \$15; pr. table lamps, \$12; Lady Sunbeam hair dryer, \$10. Love, 298-6640.

## SHOPPING CENTER

- '61 CHEVROLET Belaire, 4-dr., 6-cyl., auto. drive, R&H, blue w/white top, NADA value \$1010. make offer. Harris, 268-7955.
- 3-BDR., 1 1/2 bath, AC, landscaped w/sprinklers, \$16,000 FHA, 1825 June NE. Jeffers, 299-8124.
- GAS RANGE, 4-burner, 36" wide w/storage space, \$15. Tiefa, 299-2763.
- NEW GOLF BAG, \$10. Nelson, 255-2364.
- OR TRADE for VW: '61 Pontiac, 2-dr. HT, AT, PS. Taylor, 299-5559 after 5:30.
- ITALIAN KNIT DRESS, black, size 13-14, never worn, original price, \$60, sell for \$30. Flower, 298-7943.
- WARD push mower; Woodstock typewriter; 14" Silvertone TV, make offer. Henry, 1933 Truman NE, 255-2536.
- '57 9-PASSENGER FORD station wagon, AC, PS, AT, \$250. McIlroy, 299-4977, 8907 Los Arboles Ave. NE.
- '59 PONTIAC B'ville, 4-dr., Vista, PS, PB, AT, one owner, \$895. Sandlin, 299-8786.
- REFRIGERATOR, w/freezer, \$95; single bed mattress, box springs, and metal frame, \$25. Hook, 255-1897.
- '55 PLYMOUTH 2-dr., station wagon, 6-cyl., OD, R&H, \$195. Duval, 299-8744.

## WANTED

- RIDE from Manzano and Los Arboles NE to Bldg. 802. Lundergan, 265-4990.
- 5500 C.F.M. evaporative cooler. Baxter, 344-7601.
- WILL TRADE well-built stock rack and refrigerator and/or cash for farm tractor. Gonzales, 299-7208 after 5.
- JUNGLE GYM. Sektan, 298-0373.
- SOMEONE TO share expense and use of camper jacks with. Upchurch, 299-5062 after 5:15 weekdays.
- LADY in Eubank-Menaul area needs ride from 10133 Propps Dr. NE to Bldg 800. Randolph, 299-2057.
- GASOLINE ENGINES suitable for go-carts for Explorer Scout activity. Pace, 298-1112.
- RIDERS: openings in car pool from vicinity of Inez Addition to the parking lot at Bldg. 800. Eifert, 299-3970.
- HOMES for kittens, 7-wks.-old, white or yellow, long hair. Wade, 299-2050.
- HOMES for housebroken kittens, blue, gray, red, beige, and six-toed calico. Johnson, 255-8851.
- SMALL, USED electric concrete mixer; 4" iron sewer pipe joints. Collins, 268-3612.
- HOME for 6-wk.-old kittens, Von Meter, 344-9570.

## FOR RENT

- FURNISHED HOUSE, 3-bdr., carpeted, AC, walled yard, att. garage, convenient SE location, \$145. Campbell, 256-1015 evenings, weekends.
- FURNISHED 2-bdr. AC duplex, near Sandia, special agreement or \$80/mo. no pets. Villella, 256-9729.
- FURNISHED, clean 1-bdr. apt., couple, no pets, 304 Wyoming NE. Lawrence.
- 2 APTS: Efficiency apt., \$55 plus utilities; 2-bdr. apt., \$80 plus utilities. Dalesandro, 2508 Candelaria Rd. NW, after 5.



WISE OWLS—Members of the new Sandia Corporation chapter of the Wise Owl Club of America accept membership certificates presented by Vice President C. W. Campbell, second from left, while Vice President R. B. Powell, far left, holds the club charter. The Wise Owl members, left to right, are Florentino Gabaldon, Ray Drury, Burrell Snelling, and Donald Quayle. All escaped eye injury by wearing safety equipment.

### Sandia Chapter Formed

## Four Sandians Escape Eye Injury, Earn Membership in Wise Owl Club

The National Society for the Prevention of Blindness has issued a charter to Sandia Corporation for a chapter of the Wise Owl Club of America.

Membership in the national organization is open to employees who save their eyes from injury or loss by wearing eye protective gear at the time of an on-the-job accident.

The Sandia chapter has four charter members—Florentino Gabaldon, Janitor Service Division; Ray Drury, Tube Development Division; Burrell Snelling, Machine Shop Division; and Donald Quayle, Specialties Division A. Through personal experience, each of them can attest to the importance of the Wise Owl Club efforts to encourage widespread use of safety glasses, goggles, face masks, and other eye protective devices.

For instance, Florentino qualified to become a Wise Owl when an unknown object sailed through the air and shattered a lens of his safety glasses as he relaxed during a break period in the Motor Pool Shop.

Force of the impact indicated serious damage would have been inflicted to unprotected eyes. Florentino comments, "It's sure a good thing I had my safety glasses on. You just never know when an accident can happen."

Burrell described his narrow escape by saying, "A half-inch closer to the machine and I would have had a 14-in. strip of sharp-edged aluminum slashing my face." He was trimming the end of a welded cylinder on a heavy machine when the weld snapped, flinging the aluminum through the air.

His safety glasses deflected the piece of metal and prevented injury to his eyes.

### Summer Recreation Program Offered for Children Of Sandia Parents

The Sandia Base Kindergarten-Day Nursery is offering a day-long supervised recreation program for children between 6 and 12 years whose parents reside or work on Sandia Base.

The summer program will run from June 7 to Aug. 27 and will include sports activities such as swimming, softball, volleyball, basketball, golf, and gymnastics. Classroom participation will be in music appreciation, arts and crafts, art appreciation, and sport clinics. Rest periods are required.

Registration will be May 10 with a limit of 75 children for the summer program. Tuition charges are \$50 per month per child, \$35 per month for a second child in the same family, and \$20 per month for a third child in the same family. Nursery facilities are open 7 a.m. through 5 p.m. daily, five days a week, and lunch will be served. An experienced physical education specialist will direct the program, assisted by two college physical education students.

Parents may place their children in the recreation program for not less than a four-week period.

Additional information may be obtained from the nursery, tel. 264-3720.

When a condenser overheated and exploded in Bldg. 880, the loud blast gave everyone a jolt—especially Ray who, thanks to his safety glasses, escaped injury. The blast spewed liquid electrolyte around Ray's workbench area, burning his face.

Had it reached the sensitive surface of his eyes, the chemical could have caused painful injury. Ray, who always wears his safety glasses on the job, testifies, "You never know when the unexpected will happen, and it's much better to be prepared."

Donald, the final member of the foursome, received first- and second-degree burns about his face and body when molten metal sprayed from a large crucible and showered him and two other foundrymen.

The safety glasses which Donald wore were credited with saving his eyesight. Fortunately the other two men received only minor burns.

The four charter members last week received lifetime enrollment certificates, gold-filled lapel pins, and shop badges from the national headquarters of the Wise Owl Club.

Any eligible employee who desires membership in the Sandia chapter may apply through his supervisor to the temporary membership committee. This three-man committee—Percy Wyly II and A. B. Banks of Safety Education Division and S. T. Mancuso of Medical Administration Division—verifies the accident history and then sends it to the national Wise Owl headquarters in New York City for evaluation and final review.

The temporary committee later will be replaced by a permanent Sandia committee composed of three Wise Owl members.



LINKS CHAMP—Dave Browning, Purchasing Administration Division, fired a sizzling two-under-par 34 down the back nine to capture the season-opening Sandia Lab golf tournament at Socorro recently. Dave, a former Oklahoma State University varsity golfer, carded a 39-34-73 over the par 72 New Mexico Tech layout to win both the low gross and low net honors. He scored an eagle and three birdies.

## Sandia Scoutmasters Ready to Escort Local Youths to Tampico, Mexico

A two-way road of understanding was established when in 1963 at an International Boy Scout Camporee a group of Albuquerque Scouts invited Tampico, Mexico, Boy Scouts to visit them. Now the courtesy has been returned.

Three Scoutmasters will accompany the 37 local boys when they travel to Mexico June 25-July 11. The adults are Gene Jeys and Carl Smith, both of Design Definition Division A, and Ernie Lovato of Tester Fabrication Division. Troop 4 will have 23 youths, from 11 to 16 years of age, on the trip. The other boys were selected from Troops throughout Albuquerque, and most of them are Senior Patrol Leaders. One Scout is from Los Alamos.

Last summer 23 Scouts from Tampico spent 12 days in Albuquerque as guests of local Scouts.

Gene Jeys explained, "One of the main reasons for this activity is the increase in interest being shown in Scouting by countries to the south of us. The U. S. has about five and a half million Scouts. All of Latin America has only about 30,000 Scouts, but the impact of the program is being felt strongly, especially in Mexico. Perhaps one of the best recommendations for Scouting is that the Communists hate it!"

Tampico, on the Gulf coast of Mexico, is a city roughly the size of Albuquerque, yet it has only 250 Scouts compared to about 7400 here.

"We found that last summer's visit helped dispel some misconceptions by both the Americans and Mexicans," Gene said.

### 'Bus Pool' Forms Being Pored Over By Transit System

The Albuquerque Transit System is studying 263 questionnaires submitted by Sandia Corporation employees, to see if the response warrants formation of any "bus pools."

A "bus pool" would permit groups of Sandians living close together to "charter" city-owned buses for the daily ride to and from work. A minimum of 25 riders in any single neighborhood is needed to start the plan, a bus company spokesman said.

Before being sent to the transit system, the forms were analyzed by Don Morrison and Bert Lindsay, Computer Mathematics Division. They singled out neighborhoods densely populated by Sandians wanting the service, and formulated recommendations to the bus company in accordance with their findings.

"We hope it will result at least in the formation of some 'bus pools,' even if they're run on an experimental basis," Don commented. "Or in the extension of regular bus service in areas where there appears to be demand for it."

Of the 263 persons returning questionnaires, 257 said they would use "bus pools," if the plan is put into operation. A large proportion indicated they would be willing to walk two or three blocks to the bus, spend 25-30 minutes riding one-way, and pay \$2.50 weekly for the service.

### Swim Wear Fashion Show Dinner Dance on May 15 Tops Coronado Club Slate

A swim wear fashion show and dinner dance on May 15 will highlight Coronado Club activities during the coming two-week period.

The evening's events will start at 5 p.m. with a social hour, and a steak dinner will be served from 6-8 p.m., followed by a preview of the latest in swimming and lounging fashions. Tommy Kelly's combo will provide music for dancing beginning at 9. Tickets for the dinner are \$2.75 each.

The last three major functions at the Coronado Club (the Wine Festival, Fisherman's Wharf Night, and German Hofbrau) were "sold out" several days before the scheduled date. Tickets for the May 15 dinner must be picked up by May 12 for reservations to be honored.

The Lamplighters will play during social hour tonight and a seafood buffet will be available. On Friday, May 14, the social hour will feature the Lee Sprague Combo and chicken buffet. Price of either buffet is \$1.25 for adults and \$1 for children.

The Club's two swimming pools will open on May 29.

"A few of our Scouts had expressed some doubts about the Mexican boys, but they found the visitors to be well-behaved, very clean, and good companions. Those same Scouts now want to go to Mexico."

Apparently some of the Mexican families also had reservations about how their sons would be received here, but many of the parents are now exchanging letters, and there were many tears shed by Albuquerque mothers when the Tampico boys they had cared for got on the train, Gene recalled.

"On the other hand," Gene said, "the Mexicans were under the impression that American Indians were discriminated against here, were not allowed to leave their reservations, and were not allowed to vote. The Governor of Santa Ana Pueblo and a representative of the All-Pueblo Council spoke to the Mexican Scouts and answered many of their questions."

The Tampico Scouts, before coming to New Mexico, believed that American Scouts on an outing drove to the campsite, pitched fancy tents, used gas stoves, and generally had a picnic. "Well," said Gene, "we took our visitors on a typical camp-out in the Pecos country. We darned near walked their legs off and they almost froze when it rained. They'll be getting even by showing us their different types of outings. We'll camp on the beach, on an island in the middle of a river, and in the jungle on a mountain 2000 ft. high."

The itinerary for the trip includes overnight or meal stops at Walker AFB (Roswell), Webb AFB (Big Springs, Tex.), Kelly AFB (San Antonio), and Brownsville, where the Scouts will be hosted by the Chamber of Commerce. Scoutmaster Ricardo Violante and some of the Tampico Scouts will meet the group at the Brownsville International Bridge for the eight-hour bus drive to Tampico. En route they will stop for lunch with the Governor of the State of Tamaulipas. The return trip will follow a similar route.

In getting ready for the tour, the Scouts have been studying Spanish for the past six months and W. A. Whitfield, also of Design Definition Division A, has helped them make plastic and ceramic gifts bearing a Tampico-Albuquerque design suitable for the occasion.

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LAB NEWS

MAY 7, 1965

## Sandia's Safety Scoreboard

**Sandia Laboratory:**

81 DAYS

2,835,000 MAN HOURS

WITHOUT A

DISABLING INJURY

**Livermore Laboratory:**

258 DAYS

1,324,000 MAN HOURS

WITHOUT A

DISABLING INJURY