

NMSPE to Observe National Engineers' Week at Convention

Santa Fe Chapter of the New Mexico Society of Professional Engineers will be host for the 12th annual convention of the Society Feb. 21 and 22.

The importance of professional engineers to society will be the theme of the convention, which will be held at La Fonda Hotel.

Guest speakers invited to address the group include Governor Edwin L. Mechem, Dr. Clark

A. Dunn, vice president of NSPE, Santa Fe's Mayor Leo Murphy and Toastmaster D. D. Monroe.

Program highlights include speeches, industrial exhibits, business meetings, and tours of the Santa Fe area. For the ladies an art exhibit, style show and teas have been planned. A smorgasbord Friday evening and banquet and ball Saturday evening are also scheduled.

Members of the Albuquerque

chapter of NSPE and their wives are invited to attend, it is announced by Bill Keeler (1282), who points out that baby sitters will be available at the convention.

Two Sandians were elected to office at the last meeting of the Albuquerque chapter, Bill reported. They are Asa C. Wilson (1282), vice chairman, and William Hereford (5241), treasurer.



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FEBRUARY 21, 1958

"Extend man's horizons"

Country Honors Engineers For Service to Mankind

Sandia Corporation's 1,700 engineers and scientists are among thousands of technical people across the nation being honored this week.

The occasion is National Engineers' Week, proclaimed by President Eisenhower for Feb. 16 to Feb. 22.

This year's observance comes at a time when more attention is being directed to engineers and their accomplishments than ever before. Scientists and engineers working side by side during the International Geophysical Year are providing new and important information on the earth and space around it.

The United States' satellite, "Explorer," is circling the earth every 114 minutes.

Nuclear reactors are providing power for entire communities.

Here at Sandia engineers and scientists are working to improve our weapons of defense.

All of these engineering contributions are making the world a better place in which to live.

To continue to advance our living standards and preserve our national security we as a nation must rely on a continuing source of highly-trained engineers and scientists.

Engineers Needed

Experts have predicted that our population will double within the next 50 years. They say that in 10 years industry must produce 50 per cent more than it does today. Whether this can be done depends largely on scientists and engineers.

To assure that we have a continuing supply of this vital talent Sandia scientists and engineers are working closely with local schools to encourage qualified students to pursue scientific careers.

Tours, such as the Edison Day tour of Sandia's scientific facilities last week, appearances on educational TV programs by Sandians, individual and group efforts by employees and technical societies working with scholastic and civic organizations, all help to attract qualified youngsters to scientific pursuits.

A whole new world of science and engineering will be open to these youngsters when they complete their formal schooling. A peek into this push-button age

THE WHITE HOUSE
WASHINGTON

NATIONAL ENGINEERS' WEEK

National Engineers' Week calls attention to the work of our engineers, especially their vital role in the success of the International Geophysical Year. By this great cooperative effort to extend man's horizons and to increase his knowledge of the world, our young people are inspired to choose the discipline of the engineering profession and render important service to our nation and the building of peace.



Garvin H. Dyer, P. E., President
National Society of Professional Engineers
2029 K Street, N. W.
Washington 6, D. C.

was provided recently by Brig. Gen. David Sarnoff, who predicted the future at a banquet honoring him for 50 years in radio, television and electronics.

Future Bright

General Sarnoff envisioned worldwide color television, aircraft traveling at speeds of 5000 miles an hour, freight and mail service by guided missiles, elimination of famine, human life span increased to 100 years, no more wars.

Here again is evidence that the world will need more and more technical people. There is little, if any, doubt that this need will increase as our nation progresses.

"It is obvious that the nation will need more and better engineers," says A. Burton Metzger (3210), national director of the Society of Professional Engineers, sponsors of Engineers' Week,

"but it is most important that we maintain a balance in the number of technical people and persons trained in academic professions."

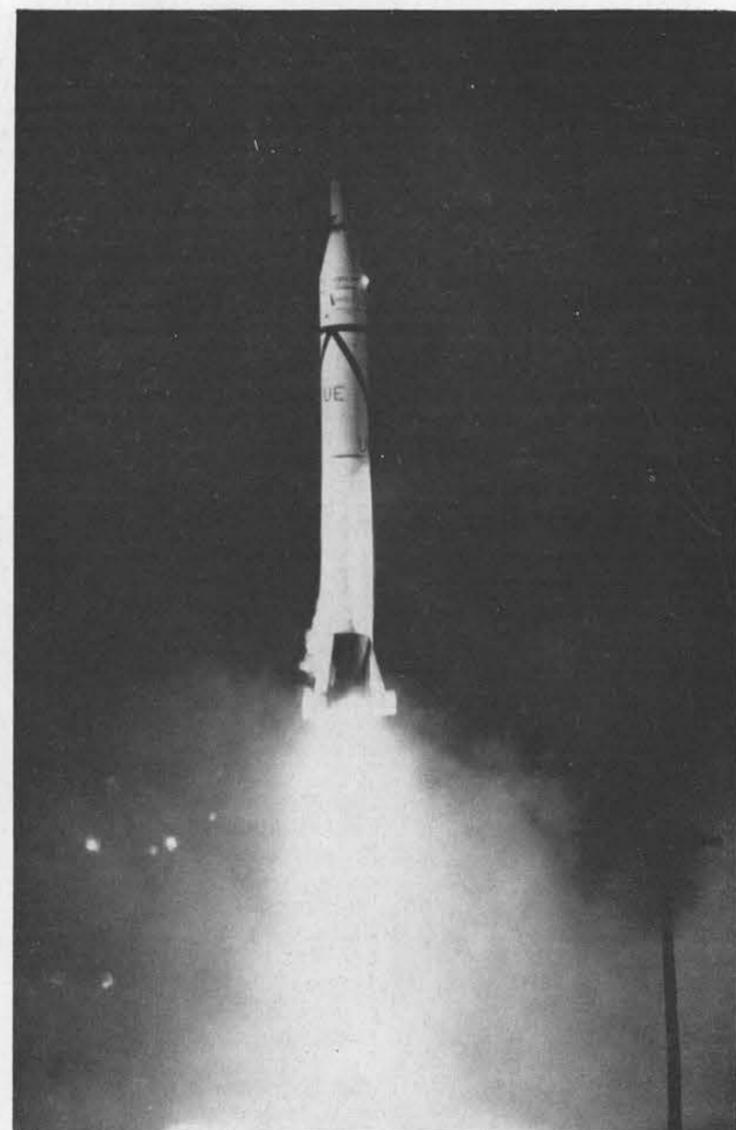
Mfg. Engineers Help Purchasing Choose Capable Sandia Suppliers

Part V of the series of articles on Sandia Corporation's place in the nuclear weapons program described the part played by manufacturing engineers.

The portion of the article on manufacturing engineers' participation in development of weapons explained the association between manufacturing engineers, design engineers and the Sandia Purchasing Organization.

For further clarification the following facts are provided by the Purchasing Organization:

"Before component designs are



LAUNCHING U. S. SATELLITE was culmination of months of effort on the part of American engineers and scientists. Achievements such as this help focus attention on Engineers Week.

U. S. Savings Bonds Offer Prime Investment at Guaranteed Earnings

Bell Labs Scientists At Sandia Symposium On Electronic Devices

A symposium on electronic devices was held this morning at the regular Sandia Colloquium with participants including five Bell Laboratories directors.

The subject was "New Developments in Electronic Tubes, Transistors and Masers."

The Bell Laboratories representatives were: J. A. Morton, Director of Device Development; W. J. Pietenpol, Director of Development, Solid State Devices (Transistors and Diodes); J. A. Hornbeck, Director of Development, Electron Devices; K. G. McKay, Director of Development, Solid State Devices (Ferrites), and O. J. Ebers, Assistant Director of Development.

All are from Murray Hill, N. J., except Mr. Ebers, who is from the Allentown, Pa., Laboratory.

G. A. Fowler Speaks at Mathematics Workshop At Eastern New Mexico

Glenn A. Fowler, Vice President, Research, will address a group of educators attending a mathematics workshop at Eastern New Mexico University Feb. 22. Title of Mr. Fowler's talk will be "Whither Mathematics?", a discussion of the teaching of math in public schools.

U.S. Savings Bonds are better than ever!

Series E bonds purchased since Feb. 1, 1957, pay 3 1/4 per cent interest, compounded semi-annually, when they are held to maturity. You now get back \$100 for every \$75 nine months sooner than that with E bonds purchased before that date. They now mature in 8 years 11 months.

The United States Treasury Department Savings Bond Division reminds persons who wish to save easily and steadily that savings Bonds are a prime investment—guaranteed as to principal and interest and protected against loss or theft.

If you save \$3.57 each week and invest it in U.S. Savings Bonds in three years you will have \$605, in five years, \$1,044 and in 8 years and 11 months \$1,997. After you sign up for payroll deduction Sandia Corporation does the rest . . . holds your savings in your name until you have enough for a bond, then buys it and turns it over to you.

Photography Finished At Sandia for Film 'The Sandia Story'

Work on shooting "The Sandia Story" was completed this week at Sandia Corporation in Albuquerque by a photographic team from Lookout Mountain Laboratory, Hollywood. Next week the crew will be at Salton Sea Test Base for final photographic coverage.

The 30-minute sound and color film will then go into final editing stages. When completed it will be shown to Sandia Corporation employees and their families and will also be available for recruiting and public relations activities of the Corporation.





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Telephones Sandia Base
Alpine 6-4411
Ext. 25253, 26135



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National Engineers' Week

Feb. 16-22 has been designated National Engineers' Week, observed across the nation in tribute to engineers and their achievements. It is particularly appropriate to take heed of the week here at Sandia Corporation where 1,700 engineers work to further our country's defenses through research and development in the field of nuclear weapons.

NATIONAL ENGINEERS' WEEK



Engineering Builds Broader Horizons
FEBRUARY 16-22, 1958

The week of George Washington's birthday is traditionally celebrated as Engineers' Week because our first President was an engineer. He designed and built canals, bridges and fortifications before the Revolutionary War.

Since Washington's day, engineers have played a major role in building a better world for all of us. We know more about the world we live in because engineering has given us the tools and instruments of modern science.

Engineers have developed the rocket fuels, the electronic devices, the atomic reactors and nearly all the other equipment which is being used to gather scientific information.

Working quietly behind the scenes, engineers are making our world a better place in which to live. Sanitation, river and harbor development, traffic control, greater food production — all these things are made possible through engineering.

This year's observation comes at a time when challenges on the international scene have focused attention on the vital contribution of the engineer to our way of life, not only to the advancement of our living standards, but also to the preservation of our security.

President Eisenhower, in proclaiming Engineers' Week, is saluting the contributions made by the engineering professions and at the same time is reminding the public of the shortage of engineers. One of the purposes of National Engineers' Week is to attract young people to this challenging and essential profession, which has contributed to our country's industrial progress and has helped give us the most advanced standard of living in the history of the world.



AWARD for religious service while a member of Boy Scout Troop 399 was presented John F. Simpson recently by Archbishop Edwin V. Byrne in Santa Fe. Medal winner is shown here with parents, Ruth (4140) and Jack (7423) Simpson.

New Women's Club

A tea to discuss organization of a new women's club will be held March 3 at 2 p.m. in the Coronado Club ballroom. Club membership will consist of members and wives of members of the Coronado Club, wives of Sandia Corporation and AEC employees, and others associated with Sandia Base.

Reservations for the tea may be made before Mar. 1 through Mrs. G. A. Fowler, ext. 34184; Mrs. W. B. Howerton, AX 9-6409; Mrs. C. B. O'Keefe, AX 9-4632, or Mrs. F. C. Rupp, ext. 31185.

Returned to Work

Recently returned to work is Fred Romero (7311-1), who had been ill for several weeks.

Also back on the job is Lawrence Stone (2121-3) after an extended illness.

Afternoon Bridge

Beginning in March, reservations will be required for the Ladies Afternoon Bridge Group meetings at the Coronado Club. Mrs. C. E. Ingersoll, AM 8-8532, will receive reservations until 10 a.m. Wednesday, March 5.

Club members are welcome to participate in this group. Members may bring a guest. Each person must bring their own partner but anyone who would like to play and needs a partner may call Mrs. Ingersoll for assistance.

P. G. Romero Dies After Brief Illness

Patricio G. Romero, 44, died Feb. 12 after a brief illness.

He came to Albuquerque from La Joya, his home, six years ago and had been a material handler in Sandia Corporation's Section 2112-3 during that period.

Survivors include his widow, Adeline, two sons, four daughters, his parents, three brothers and three sisters.



P. G. Romero

Weddings and Engagements

Mr. and Mrs. Herman Thomas of Fruitland, N. Mex., have announced the engagement of their daughter, Edith, to Pfc. Benjamin L. Kendrick.

Edith has been with Sandia Corporation since last April in 3152-3.

The wedding is set for March 1 in the Church of Jesus Christ of Latter Day Saints in Kirtland, N. Mex.

Honeymooning in Arizona and California are Dwight M. Hupp of LaPorte, Ind., and his bride, the former Frances Rinn.

The couple was married Feb. 11 in the chapel of the First Presby-



Mrs. Hupp

terian Church in Albuquerque. Attending the couple were Mrs. T. L. Haworth and James T. Brown (5511).

The bride has been employed by Sandia Corporation since September 1951 in 7211.



"NEVER A DULL MOMENT" reports Herman L. Calvery (2721) since he and his wife adopted Shirley, age 5, and two-year-old Linda, pictured here. The Calverys have already raised one adopted son, now overseas in military service. T. A. Allen (2231) snapped this family scene.

Congratulations

Born to:

Mr. and Mrs. Don E. Larson (5533) a daughter, Lois Jean, on Feb. 5.

Mr. and Mrs. R. A. Dickson (3125-1) a daughter, Deborah Ann, on Feb. 8. Nell is on leave from 7422.

Mr. and Mrs. Ernest D. Graves (1611) a son, Gary Irvin, on Feb. 10.

Mr. and Mrs. R. G. Foster (1611) a daughter, Katherine Diane, on Feb. 11.

Mr. and Mrs. Frank Keene (7423) a son, William Francis, on Feb. 12.

Sympathy

To Walter C. Hunter (1651) for the death of his father on Jan. 29 in Enid, Okla.

To E. W. Kersten (7113) for the death of his mother on Feb. 8 in New York City.

To Orlando Ulivarri (7241-4) for the death of his father on Feb. 9 in Albuquerque.

To Laurence Meissen (2153-2) for the death of his mother on Jan. 30 in Rockford, Ill.

To H. S. Wallis (7131) for the death of his father on Feb. 3 in Miami, Fla.

To Elmer Roisum (2711) for the death of his brother in Wisconsin.

To Bonifacio Lopez (2711) for the death of his father in Castro Valley, Calif.

To John Taylor (Coronado Club) for the death of his father Feb. 17 in an auto-pedestrian accident near Palm Springs, Calif.

Sandianotes . . .

Bottle-Loving Rabbit Takes Off For Wide Open Spaces of California



Thumper and Friend

Life at Livermore isn't all work. Mary Strickland (8212-4) reports this human interest story from the California installation.

The Lettrich family is feeling mighty low. Thumper has disappeared. Thumper is a jack rabbit discovered in a nearby field when he was a week old by Gary, 11-year-old son of Mike Lettrich (8211-1).

After being shown his new home, Thumper was given nourishment from a doll's bottle under Mrs. Lettrich's close supervision. He grew until he measured a foot long and consumed two full bottles of milk daily in addition to carrots and grass, picked especially for him.

He was given the garage for sleeping quarters while the family car remained in the driveway. Of course, Thumper had the run of the house, too.

Before neighborhood boys scared Thumper away while he was playing in the front yard with the family Dalmatian the other day, the Lettrichs had planned to plant a patch of special grass just for Thumper.

The Lettrichs still haven't lost hope. Thumper ran away once before but he came back the next day. Now he's bigger, but he's tamer. "He'll go berserk looking for a bottle," Mike said.

Sick List

Wishes for a speedy recovery are extended to Geri Whitman (2723-3).

Convalescing from a serious illness is Edwin A. Eisenhart, AEC chief of Personnel Security Division.

A quick recovery is hoped for Nabor Rael (2121-2), who recently was hospitalized.

Also hospitalized after a fall is Jerry Gibson (3154). Wishes are conveyed for his rapid recovery.

New Homes

Moving soon to their new home at 3401 California NE are Connie (3152-2) and Marvin Steputis (3152-3).

Also a new address for the Hal Paynes (2124-2), who now live at 9807 McKnight NE.

Getting settled in their new home at 1505 Betts NE are June (3125-1) and Jim Leonard (1247).

Recent transfer to Livermore, Mildred Whitten and her mother have moved into a new home at 723 So. "K" St.

Anniversary

Livermore co-workers surprised Walt Dzugan (8212-1) with a lunchtime cake on the occasion of his seventh anniversary with Sandia Corporation.

Insurance Office Staff

Minnesota Mutual insurance representative, Bob Glass, has been transferred to the firm's Detroit office. Taking his place at Sandia is Boyd B. Hoff, who is working with Bill Goodwin in the Insurance Councilor's office in Employee Services, Bldg. 829.



Joe Sanchez and Ruth Bauer
—Interviews, ads and features—

Speaking of Reporters

Joe Sanchez Has Six Years Service As Reporter for Sandia Lab News

This is another article telling of the volunteer reporters who contribute to the Sandia Lab News.

Lots of news about his co-workers has passed through the hands of Joe M. Sanchez during his six years as a reporter for the Sandia Lab News.

He started as a reporter for Division 7311 back in 1951. The last two years he has submitted news from Division 7329. Joe's job with

the Corporation is to coordinate shipments to sites.

A native of Albuquerque, Joe is married and has three children. He says, "My most important hobby is to stay home and enjoy my youngsters."

He holds the rank of Master Sergeant in the Air Force Reserves and is a Flight Leader for an NCO Flight in the 9865th Air Reserve Squadron. Tuesday nights find him instructing an NCO Leadership Course at the Albuquerque Air Reserve Center.

Hair-Thin Coil Wire Needs Skill, Patience in Winding

Take a copper wire so fine you can hardly feel it between your fingertips and imagine the problems involved in winding it thousands of times around a tiny core.

Although a power machine actually does the winding, it is Lois Donaghy's specialized job to thread the wire through the machine's shuttle, set up the powdered iron core, attach the lead-out wires and afterward solder them to the coil's terminals.

In Electrical Transformer Section (2133-2) there are four women and one man working in coil winding, however, Lois handles the smallest wire, which requires extremely nimble fingers. The production line of commercial manufacturers of transformers is the usual training ground for such jobs, but at Sandia all coils are custom wound. Many are amplifier coils for field test telemetering equipment, where the trend is toward miniaturization.

The smallest job Lois has handled was a sub-miniature toroid (closed loop shape) which had an inside finished diameter of less than 1/16th of an inch after it was wound with 7,000 turns of No. 50 wire and had 10 lead-out wires. No. 50 wire is about one-fourth the diameter of human hair, actually measuring 1/1000th of an inch in diameter. Each of the lead-out wires must be soldered on to a terminal. To accomplish this step the operator usually uses a magnifying glass but for such minute detail a jeweler's loupe is used.

After these steps are taken the coil is given a coating of epoxy resin to make it moisture proof and to increase the voltage rating.

Lois came to Sandia four years

ago from Standard Transformer in Chicago. There she was first a "tape girl," cutting lengths of wire for coil winders, and gradually worked her way into the more skilled field.

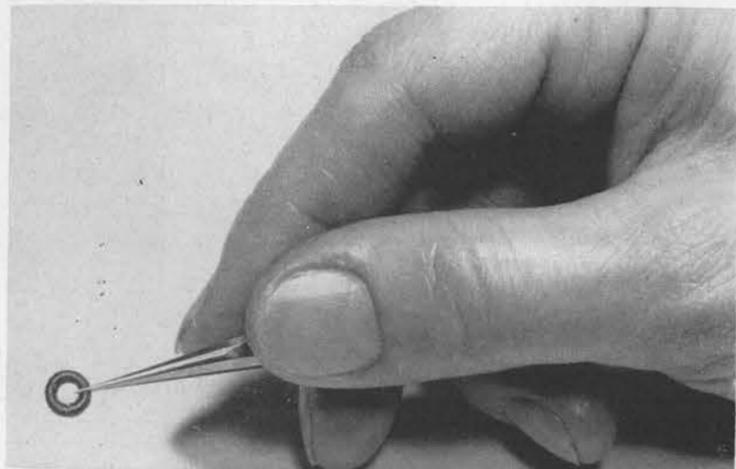
"It's tedious but also a challenge," she explains. "I used to be a dressmaker and actually, in many ways it's similar. The work is detailed and the power machine is sensitive."

One thing is sure: after concentrating for long stretches on a hair-thin wire, Lois doesn't read any fine print at night.

As in other miniature detail work it is often necessary to make special tools or gadgets. One of the most useful has been a continuity checker which will sound an alarm, should the wire break in winding. The wire then has to be spliced before continuing or the coil will be worthless.



MECHANICAL WINDER, operated by Lois Donaghy (2133), has already placed 900 turns of No. 50 wire onto a core. Six wires are attached and numbered.



INFINITE PATIENCE and tweezers are needed by Lois Donaghy to handle this tiny coil. Wire is 1/1000th of an inch in diameter.



WOUND COIL is mounted on heavy assembly jig for ease in soldering lead out wires onto terminals. A resin coating is added later.

Heat Treatment to Be Discussed at Feb. 27 Meeting of ASM

Members of the American Society of Metals will hear a talk Thursday, Feb. 27, on "General Practice of Heat-Treatment."

Eugene L. Kemper, Manager of Product Development, A. F. Holden Co., Detroit, will use visual aids to show the types and variety of equipment used in industry today.

Dinner will be served at 6:30 p.m. at La Hacienda in Old Town with the technical session at 8 p.m. Reservations may be made through Charlie Arthur (1624), ext. 42250, or Byron Wickert (1624), ext. 25163.



E. L. Kemper

Sandia Work With Printed Circuits In Packaging Receives Attention

An article written by George Volda (1462) for *Mechanical Design* and condensed in a recent issue of *Cannade*, tells of flexible printed circuits which have been applied successfully in electronic equipment packaging as a result of Sandia Corporation experiments.

Mr. Volda, section supervisor in the Electromechanical Development Department, wrote about the thin, molded circuits which are printed into supporting shells for electronic subassemblies.

Sandia experiments revealed that in forming the flexible circuits, copperclad epoxy resin laminates must be reinforced to give the necessary strength. They also determined that glass fabric is the best reinforcing material to be used. As a result of the Sandia work, a glass-epoxy resin laminate is now being manufactured commercially by one company.

Mr. Volda points out in his articles that the advantages of flexible printed circuits include high reliability in wiring and the ability to turn corners, fit around components, and conform to the available space. It may be twisted into a spiral if necessary to fit into cylindrically shaped assemblies and may be potted with a plastic material if extra strength is desired.

The benefits of the flexible laminates can extend beyond the weapons program, Mr. Volda

wrote. It may prove useful in such commercial items, as small radio transmitters and receivers miniaturized hearing aids and shields.

John England to Retire This Month

Retiring at the end of this month will be John England, an inspector in Mechanical Inspection Division 2722.



John England

He has been employed at Sandia since December 1948. Following a trip to the East Mr. and Mrs. England will make their home at 10308 Apache NE in Albuquerque. They have a daughter and a son, Jack, (who also works for Sandia Corporation in Division 7223) and five grandchildren, all here.

John plans to follow his hobby of cabinetmaking and also devote more time to hunting and fishing.

Supervisory Appointment

GEORGE D. HORNE, JR. to supervisor of Programming Division

4141, Electronic Data Processing Department.

A Corporation employee for seven and one-half years, George has been a section supervisor since February 1953.

He has worked in auditing, in vouchering as a disbursements auditor, and in cost and accounting.

Previously George was a student at the University of Colorado where he received a BS degree in business.

He served for a year and a half in the Army Air Force.

Promotions

Joe A. Chaves (2721) to Inspector
 Jack O. Travis (2711) to Inspector
 Thomas S. Mickey (2121) to Patternmaker
 Patsy V. Lane (2731) to Typist Clerk
 Aime J. L'Heureux (2461) to Document Clerk
 Martha S. Nader (2461) to Document Clerk
 Wilma R. Ash (2464) to Document Clerk
 Anna Marie Canavan (2461) to Document Clerk
 Lois H. Payne (4135) to Tab. Equip. Optr.
 Owen L. Buck (4135) to Tab. Equip. Optr.
 Shirley P. Renn (4135) to Tab. Equip. Optr.
 Joyce F. Carnes (4135) to Tab. Equip. Optr.
 Manuel G. Chavez (4135) to Tab. Equip. Optr.
 Robert P. Fjelsted (4135) to Tab. Equip. Optr.
 Palmer D. Landis (7411) to Draftsman
 Elbert O. Elliott (7411) to Draftsman
 Joselyn L. Fuller (7411) to Draftsman
 W. Kendall Gentry (7411) to Draftsman
 Donald W. Shadel (7411) to Draftsman
 Donald J. Ouellette (7411) to Draftsman
 Charles E. Wimmer (7411) to Draftsman
 Thomas M. Boltz (7411) to Draftsman
 Jack D. Burt (7411) to Draftsman
 Mac D. Weaver (7411) to Draftsman
 Paul L. Spencer (7411) to Draftsman
 Samuel D. Samuelson (7411) to Draftsman
 Frank R. Blair (7411) to Draftsman
 LeRoy L. Keck, Jr. (7411) to Draftsman
 James N. Volkman (7411) to Draftsman
 Raymond Pena (7412) to Draftsman
 Jack R. Meacham (7313) to Technical Asst.
 Howard M. Stuart (7316) to Technical Asst.
 Marlin C. Frettem (7322) to Staff Asst. Tech.
 C. A. Malenfant (7411) to Staff Asst. Drafting
 Juan Rey Abeita (7412) to Staff Asst. Drafting
 Manuel J. Apodaca (2462) to Reproduction Equipment Optr.
 Vicente C. Garcia (2473) to Truck Driver
 Orville T. Schurr (2413) to Jr. Tradesman
 Alfredo Pena (2462) to Pressman
 Joseph C. Wynn (2414) to Boiler Plant Optr.
 James R. Hollon (2413) to Carpenter
 William H. Lueders (2711) to Layout Optr.
 Ann L. Ercole (7225) to Sec. Steno
 Lillian M. Sanchez (7225) to Sec. Steno
 Armonia A. Gonzales (7225) to Sec. Steno
 C. Joyce Hemsing (7225) to Sec. Steno
 Carol J. Welborn (7225) to Sec. Steno
 G. K. Costick (4142) to Senior Clerk
 Anita E. Seaver (4142) to Senior Clerk
 Callie A. Chapman (4135) to Senior Clerk
 Jack R. Kidd (4135) to Tabulating Analyst
 Frank A. Maestas (8222) to Material Handler
 James G. Brock (7232) to Utility Operator
 Louis Peres (7232) to Utility Operator
 John R. Goff (7232) to Utility Operator
 Dominic W. Russell (7232) to Utility Operator
 Harriet D. Kenney (8212) to Receptionist (Medical)
 Judith R. Baca (7225) to Secretary
 Anna B. Pearce (7225) to Secretary
 Eunice B. Wyr (7225) to Sec. (Adm. & Tech.)
 William A. Sanchez (2462) to Ozalid Optr.
 J. Archie Lackey (2462) to Ozalid Optr.
 Lillian L. Balfour (7223) to Library Asst.
 Doris H. Kokkes (2721) to Record Clerk
 Donna L. Weldon (2721) to Record Clerk
 Esther M. Holloway (5513) to Data Reduction Clerk

Sandia Photographer Named New Mexico Representative to PSA

Bob Hall (2462) has been appointed district representative of New Mexico for the Photographic Society of America. The appointment was made at the Society's headquarters in Philadelphia, Pa.

Bob has been at Sandia since April 1957 and has been in photography work for 13 years. He is secretary of the Enchanted Lens Camera Club and is a member of the Professional Photographers of New Mexico. He is also the recipient of several camera club awards for outstanding photography.

F. F. Norris Awarded Master's Degree by Univ. of Nebraska

A Master's degree has been conferred on a Sandia Corporation employee by the University of Nebraska.

Frank F. Norris (2441) received a MS degree in Architectural Engineering and Civil Engineering. His Bachelor's degree was from the same school.

He began working for the Corporation last June after teaching architecture at the University of New Mexico for six years.

Honors Received by Radio Amateurs for Emergency Assistance

National recognition has been received by three Sandians for their parts in providing emergency communications for Albuquerque hospitals last fall.

Dean Snyder (2131), Jim Lareau (1626) and Carl Franz (1571), along with other members of the Radio Amateur Civil Emergency Service, helped set up the only communications link between doctors, police and ambulance services when a storm knocked out hospital telephone trunk lines for six hours.

On CC Committee

Sandia Corporation is represented by Vice President and General Manager S. P. Schwartz and Jack R. Spence (4335) on the Chamber of Commerce's Aviation Committee.

The committee was recently organized and at a meeting of the group on March 6 plans will be formulated for the year.

Welcome Newcomers

Feb. 3-14

New Hires Albuquerque	
Harkey Boling	2461
M. Roberta Brown	2231
Gerald T. Gay	2464
Richard A. Granger	4135
Wayne W. Grevning	2462
Mary S. Leary	2461
Florence K. MacPherson	7225
Aliene D. Risk	7225
Norma L. Simmons	7225
William E. Schuetz	2464
Kristen Waide	2731
Doris A. Weaver	7225

California	
Paul Hersey, Menlo Park	3123
Charles R. Moody, Walnut Creek	8212-1
Joan L. Sorensen, Livermore	8212-3
Joseph F. Smith, Fremont	8114-1

Illinois	
Charles L. Hopkins, Chicago	2464
Kenneth R. Tuma, Mt. Carmel	2713

Indiana	
William E. Goldrick, Lafayette	5223

Kansas	
Newton R. Anderson, Manhattan	1611

Michigan	
William M. Revnell, Beulah	2722

Ohio	
Kenneth K. Hykes, Akron	2442

Oklahoma	
Ethel L. Lonner, Oklahoma City	7225
Tommy A. Sellers, Norman	5222

Tennessee	
John C. Stathis, Memphis	4141

Texas	
Harry V. Fisher, Austin	5221
Eunice I. Goodman, Dallas	2553

Returned from Leave	
Helen T. Salazar	2461

Rehired	
Dorothy C. Newton	7221
Walter G. Perkins, Madison, Wis.	5242
Richard J. Rudolph	5232
Robert H. Ryan	5242
M. Joan Swing	2461

Service Awards - Ten Year Pins



Robert W. Durand
2163-3
Feb. 24, 1948



Cuvier J. McGarr
2200
Feb. 24, 1948



Byron C. Turner
5231
Feb. 24, 1948



Albert W. Fite
1264
March 1, 1948



Peter J. Cook
5532
March 3, 1948



Wallace W. Ives
2463
March 3, 1948



Ralph G. Carmichael
2711-3
March 4, 1948



Dorothy E. Holloman
7225
March 5, 1948

Five Year Awards

Feb. 21-27
 Norman F. Sinnott 5213, Mary E. Schutte 2544, Lee F. Parman 7223, and Eva J. Gallegos 7225.

Feb. 28-March 6
 Thomas G. Kinsley 1461, Floyd E. Forsythe 5242, Cecil M. Littleton 5511, Charles E. Morgan 1423, Madison E. Oliver 8111, Clarence R. Sandin 2514.
 Billy D. Pontsler 8124, Russell P. Asbury 2152, Orville F. Padilla 7231, Odes Caster 2474, Leoma B. McMillan 2462, Ordella M. Folkman 2721, and Kenney E. Loughlin 2713.

Two Year Certificates

Feb. 21-27
 Roland H. Cleveland 7412, James A. Leonard 1247, David G. Sample 7232, Roque Feliciano,

Jr. 2721, Thomas J. Raftery 5243, Billy B. Asher 4111.

Richard C. Wahlberg 7311, Kendrick Hens 7213, Richard Petersen 1261, Joseph C. Pelle-tier 7326, John A. Thomas 7313, Sally M. Herrera 7225, and Alice L. Brinkley 2231.

Feb. 28-March 6
 James M. Mesnard 8124, Donald E. Graham 3125, Milton R. Zimmerman 5131, John J. Benson 1624, Johnson C. Hays, Jr. 1451, Joseph F. Sladky 8112, Donald E. Yearout 1263.
 Albert D. Barton 2722, Rosemary A. Penn 2524, Josephus C. Weber 2463, Alden N. Tschaech 1626, Everett M. Click 2131, Charles R. Eisenhour 5241.
 Elias Gabaldon 2474, Ralph W. Carter 2462, Agnes F. Vigil 7226, Dorothy B. Case 4333, George C. Capes 2483, Donald J. Hosterman 7123, Fidel G. Gonzales 2474, and Richard Duran, Jr. 2462.

Coronado Club Bowling Champions

Coronado Club bowling leagues are hard at work all winter, but take time off from regular league play to stage a tournament early each year.

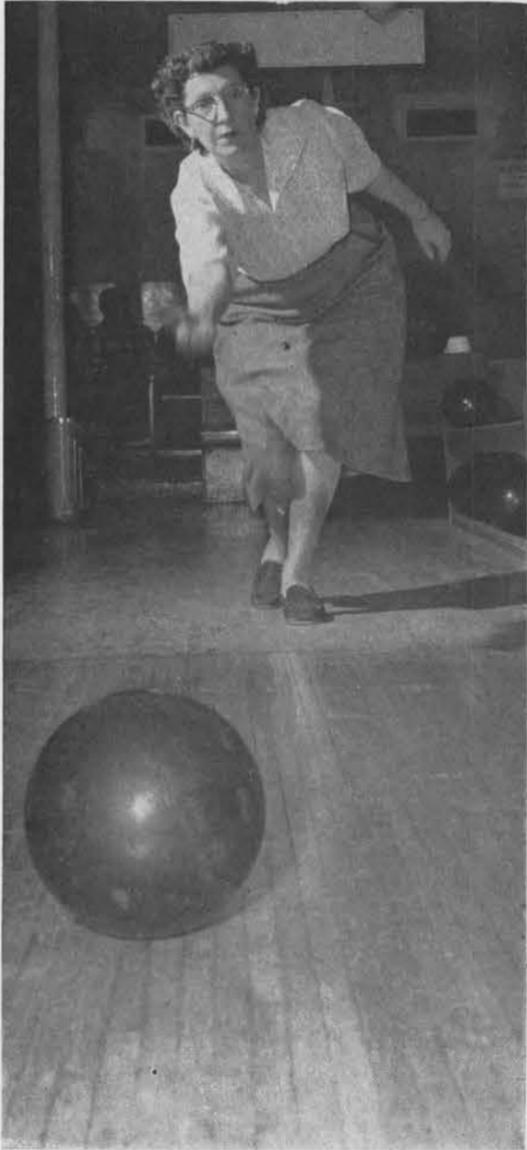
This is the time top form emerges and scores are the best. That is the story for the bowlers shown on this page. They are the winners of the tournament who posed for the **Sandia Lab News** photographer after earning their honors the hard way.

Of the hundreds of bowlers entered these turned in the best performances.

Congratulations to the winners.

HEADING FOR A STRIKE (left) is Marian Tillman (2133-1) who scored 585 points to win the women's singles crown.

REACHING FOR A WINNER (right) is Art Cohen (1455) who scored 1821 points to win the all-events contest in the Coronado Club bowling tournament held recently for members of the club.



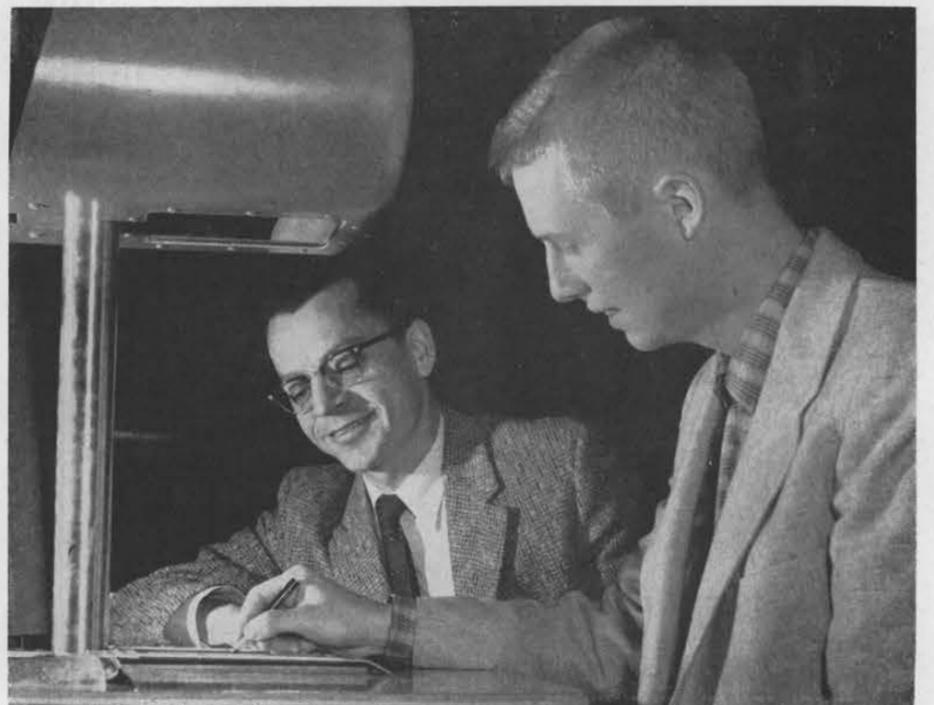
MEN'S TEAM WINNERS spell out their score. The winners (L to R) Bob Parker (1456), Bill Hess (5215), Art Cohen (1455), Jack Hinde (5255) and Les Shope (1455).



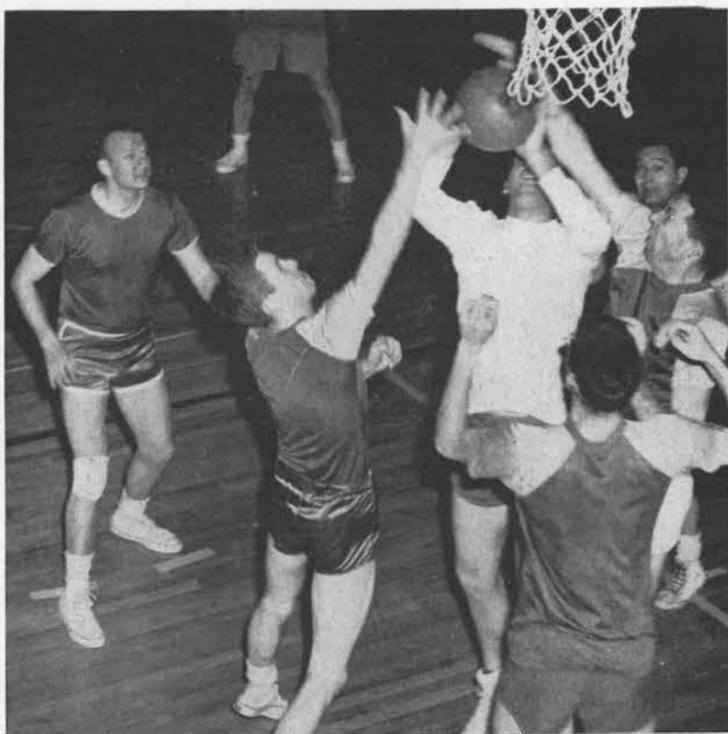
DOUBLES WINNERS Pat Horne (wife of George Horne, Jr., 4141) and Kendra Atkisson (2461-1) spell out their women's division winning score, an admirable 1189.



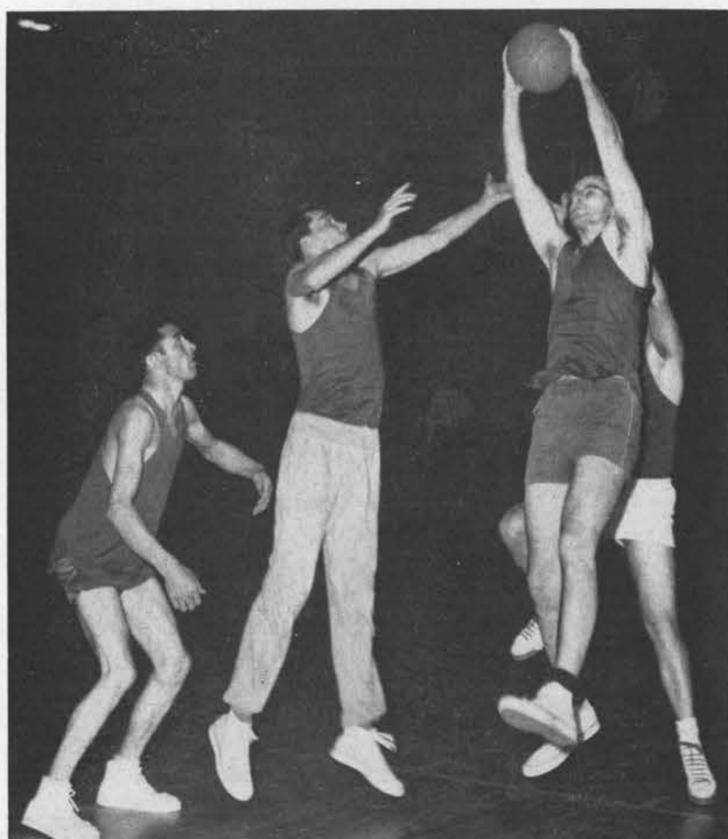
PREPARING TO BOWL is Marty Baldwin (2553-4) who won the women's all-events with her score of 942. She went on several nights later to bowl 600.



TOTALING SCORE are men's doubles winners Larry Johnson (1222) and H. A. Kiehl (2532). The twosome bowled 1224 points in the event to take the crown.



QUINTET FOR 1600-I gathers around basket to prevent Eugene Peirce (3152-3), center, from scoring. (Counter-clockwise from top) Oren Worden (7113), Malcolm Woodward (1614), Charlie Simpson (1614), Bob Hedges (1624), Vern Arnold (1621) and "Gene" Medina (1614). 1600-I defeated the 7100-3100-2700 team by a score of 29-21.



SHOT IS BEING MADE by Bob Isidoro (5513) as Juan Tafoya (2351), left, and Bill Hall (2352), center, try to block the throw. 5500 firmly trounced 2100-II by a lopsided score of 36-18.

Five Basketball Teams Remain Undefeated in First Week of Play

Five teams appeared to be top contenders in the Sandia Employees Basketball League as most quintets completed first week's play.

The standings as of Feb. 12:

Team	Won	Lost
5500	4	0
2400-II	3	0
2500	3	0
5100	3	0
7200	3	0
1600-I	3	1
2400-II	3	1
7400-I	3	1
5200	2	2
AEC	2	2
1200	1	2
2100-I	1	2
2100-II	1	3
7400-II	1	3
1400	0	4
1600-II	0	4
2200	0	4
7100	0	4

BASKETBALL SCHEDULE EMPLOYEES LEAGUE

Highland			
Tues., Feb. 25			
Court	Time	Team	Opponent
Court 1	6:45	7100	vs 2100-II
	8:00	2500	vs 1600-II
	9:15	5500	vs 7400-I
Court 2	6:45	1400	vs 2100-I
	8:00	5200	vs 7400-II
	9:15	1200	vs 7200
Lincoln			
Wed., Feb. 26			
6:45	1400	vs 1600-I	
8:00	2500	vs 2100-II	
9:15	AEC	vs 2200	
Wilson			
Wed., Feb. 26			
6:45	5500	vs 2400-II	
8:00	7200	vs 7400-II	
9:15	1600-I	vs 1600-II	
Lincoln			
Thurs., Feb. 27			
6:45	1200	vs 7400-I	
8:00	5200	vs 2400-I	
9:15	5100	vs 2400-II	
Wilson			
Fri., Feb. 28			
6:45	5100	vs 2200	
8:00	AEC	vs 2100-I	
9:15	7100	vs 2400-I	

City's Top Bowlers Include Sandia Corp., AEC Employees

The City Bowling Tournament held recently found an AEC-ALO employee and several Sandians in the running for honors.

Frank Abbott (AEC-ALO) won first in the singles with game scores of 209-237-226 for a total of 672. He placed second in the city tournament three years ago and previously had scored high in the Coronado Club events.

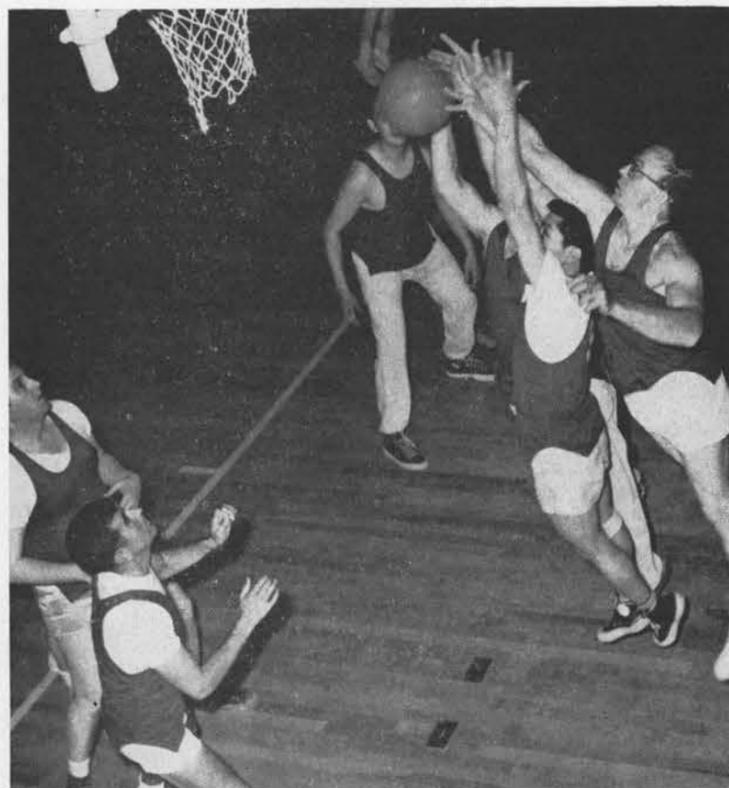
Also in the Class A singles Andy Blain (2232) placed fourth and J. F. "Pat" Donovan (1263) came in fifth.

In Class C, Neith Pollard (1413-2) scored third for totals and seventh in the singles event.

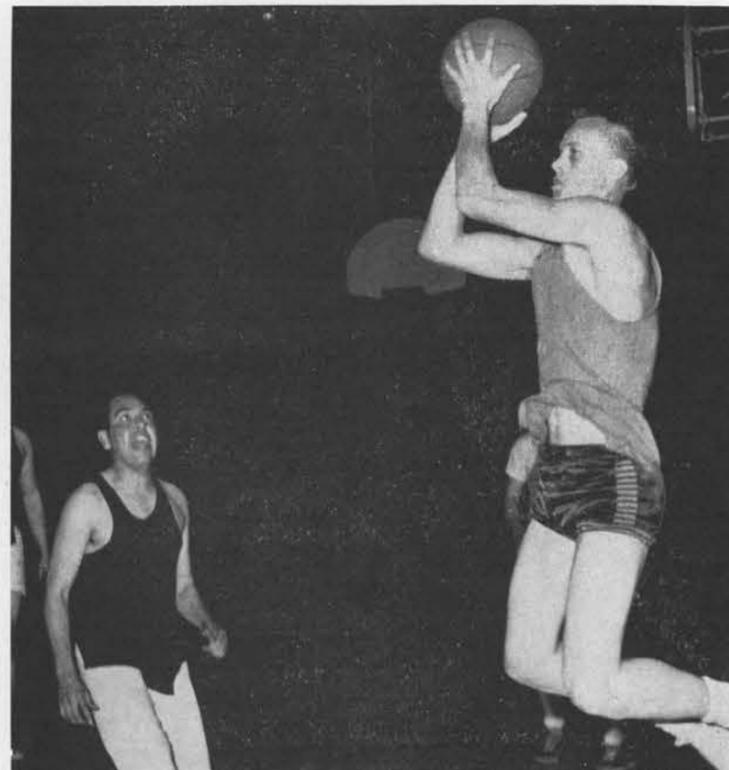
Livermore Loses

After a string of three wins Livermore Branch's basketball team was edged out of another victory by the Rad Lab Blues with a score of 48-41.

The loss put the Livermore quintet into a season standing of three wins and four losses.



FAST ACTION around basket finds members of 7200 and 2200 teams tense. (L to R) Marion Scott (2232), Charlie Chavez (7231), Amos Alire (2234) and Lyle Wheelhel (7214). 7200 won easily 57-25.



CARL DUIMSTRA (1472) jumps for a high one as Jimmie Olivas (6021) moves in to block basket attempt. The AEC-4100-6000 quintet edged out a 26-23 victory over a stubborn 1400 team.

SHOPPING CENTER

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CLASSIFIED ADVERTISING

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

RULES

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

FOR SALE

- VACUUM CLEANER, GE upright with attachments, \$15. Smith, AL 5-7991.
- ELECTRIC RANGE, Norge, \$55 or best offer. Everett, ext. 44162.
- HEATER for Crosley or small foreign car, \$10. Sealed beam spotlight, \$10. Laskar, AX 9-1024.
- SMALL SOFA, \$18. Wanted, wing chair and maple Boston rocker. Southwick AL 5-3312.
- '55 PONTIAC Catalina hardtop, red and cream, good tires, R&H, \$1,300. O'Neal, ext. 2-3156.
- ELECTRIC LOCKS for car door, never used, for six volt system, \$10. Hof, AL 5-5915.
- RIFLE, .22 caliber, \$7; another, \$12. Trade both for hand gun. Smitha, 8607 Menaul NE, AX 9-1096.
- '49 KAISER Traveler, two-tone green, sunvisor, 6 cyl., back end opens up, rear seat folds down, runs, \$90. Anselmo, AX 9-4668.
- DINING ROOM TABLE, modern mahogany, with four chairs, \$100 or best offer. Treadwell, AL 6-3018.
- HI-FI Cartridge, General Electric; 1 mil Jensen diamond needle; 3 mil sapphire, played 20 hours, \$12.50. Roth, CH 3-0522.
- 2. BR. furnished home, hardwood floors, redecorated recently, excellent NE location, \$9,950. Wilson, AL 6-7694.

PORTABLE TYPEWRITER, Smith-Corona, \$50. Silva, AX 9-6142 after 5:30 p.m.

TWO BOATS, 14 ft. fishing and 12 ft. run-about, each w/trailer; Selmer flute, used one school season only. Nissen, AL 5-5657 after 6.

ELECTRIC STOVE, 30" Frigidaire, French doors, automatic oven, timer, clock, \$200. Steputis, AL 6-9066.

METERS, one multimeter, Eico, one VTUM, and signal bar generator, \$30; Want second-hand motorcycle, must be under \$175. Garcia, CH 2-1182.

'57 PLYMOUTH, 4-door, Belvedere hard top, fully equipped, Hopsas, CH 3-2379.

DINETTE SET, 5 piece, wooden, w/extension leaf, \$25. Smith, CH 3-3936.

PIANO, Cable Nelson, walnut finish, \$125. Shelton, AL 5-1887, 416 Morningside Dr. NE.

'49 FORD, 2 door, priced to sell, Heath, AL 5-5418.

RUBBER BOOTS, children's size 6 1/2, 8, \$2 each; four 12" LP's, Craftsman lawnmower, 18" w/grasscatcher, \$15. Anderson, AX 9-4616.

AUTO TOW BAR, adjustable, \$25; TT gauge locomotive w/track, \$12; Bendix 6-volt electric fuel pump, \$10. Abrams, DI 4-8252.

AUTOMATIC WASHER, Maytag, \$35. Beck, AL 6-3350, 1033 Jefferson NE.

HALLICRAFTER S40V w/Heath Kit Q Multiplier, \$70. Huddle, AX 9-6603, 9708 Robin NE.

MOTOR SCOOTER, 5 hp '56 Cushman Pacemaker, \$145. Weber, AL 5-6811, 3117 Maderia NE.

BABY BED, large size, \$25 complete. Goens Ext. 26241, Box 224, Cedar Crest, N. M.

WILL SELL equity or trade two bedroom brick home in El Paso, Tex., close to shopping center, base, school. Sanchez, CH 3-5117.

'57 METROPOLITAN, made in England, R&H, two-toned coral & white, good second car. Preber, CH 3-6152.

21" TV, Admiral table model, \$80; side-walk bike, \$6. Pennypacker, AM 8-2114.

NEXT

DEADLINE

FOR SHOPPING CENTER ADS
Friday Noon, Feb. 28

TWO LOTS within city limits on Hilton Ave. Between Second NE and railroad tracks. 80' x 140' deep \$1,000, 60' x 125' deep \$900. Both for \$1,800. Terms, Montana, DI 4-3797.

PICKET FENCE, 100' long, including 2 gates, 3' high, as is \$10. Mack, ext. 2-8281 after 5:30 p.m.

ELECTRIC RANGE, large size, \$50. Everett, ext. 4-4162.

LIVING ROOM set incl. sofa, chair, tables, lamps. Spin dryer washing machine. Stewart, AX 9-7412.

'56 CHEVROLET station wagon, 210 series, 6 cyl. std. shift, 9,726 actual miles, factory air conditioner, R&H, \$2,000. Hill, 11717 Clifford NE.

MAYTAG WASHER, wringer type, \$35. Brown, AX 9-4755 after 5 p.m.

LARGE PLAYPEN, pad, \$7; baby seat-walker, \$2. Frenkel, AX 9-3258.

GAS RANGE, O'Keefe & Merritt, full size deluxe model, \$65. Goris, AX 9-2924.

'55 PONTIAC, black, fordor, sedan, R&H, \$1265. Miller, ext. 5-2194.

LARGE 2 BR house on large landscaped lot at 1827 Neat Lane SW, \$13,000 with \$1,500 down. Amonette, ext. 2-8236.

MOVIE CAMERA, 8mm Kodak magazine load with regular and telephoto F1.9 lenses. \$190 value for \$125. Busby, AX 9-6450.

3 BR HOME, redecorated, 1 1/2 baths, air conditioning, sprinklers, two patios, drapes, venetian blinds, dishwasher, disposal, soft water, \$15,950. Taylor, AL 5-8840.

VACUUM CLEANER, Montgomery Ward tank type with all attachments, \$10. Morris, CH 3-2637.

BABY BED w/innerspring mattress, \$15; horsehide jacket, size 38, \$7.50. Ross, AX 9-1526.

'51 CROSLLEY, R&H, '58 license plates; Speed Queen portable ironer, TV lamp. Dillard, AL 6-6039, 2729 Monroe NE.

2 BDR. HOME located in Colorado Springs, Colo. Will sell or trade for Albuquerque house. Lowe, AL 6-6793.

BABY CRIB, \$10; foot locker, \$5. Jones, CH 7-8642.

TV CONSOLE, 16" RCA-630, \$35. Hunter, AX 9-1089.

'51 FORD CRESTLINE, two-tone, brown, overdrive, R&H, dual pipes, rear speaker; '47 Buick Super, 2-door, R&H, \$95 or best offer. Leonard, AL 5-4825 evenings.

RADIO-PHONOGRAPH, Magnavox, contemporary style, needs new changer, \$35. Smith, DI 4-0126.

PORTABLE PHONOGRAPH, Webcor Holiday, 3-speed-automatic, \$25. Blum, AX 9-4655 after 5:30.

NAVY OFFICER'S Uniform, green gabardine, tailor made, blouse and trousers, matching cap cover, size 40, \$20. Read, CH 7-8763 after 5:30.

2 BDR. HOUSE, modern, adobe, w/one bedroom apt. rear, on 1/2 acre, 3804 Rio Grande NW. Sawtelle, 2231 Mountain Road NW.

'57 CHEVROLET, 210, 4-door, R&H, power-glide, tinted glass, reasonably priced. Wenrick, AL 5-7116, 3117 California NE.

CHEST HANDLES, 8 pair, Stanley no-pinch 4"x3", w/screws, 50 cents pair. Scranton, AX 9-4902, 2522 Gen. Bradley NE.

EXC. MODEL 75 Win. .22 Match Rifle w/sling and scope blocks, \$40. Kindley, AL 6-3915.

'52 CADILLAC, 62 series, 4-door, automatic transmission, R&H, \$950. No trade. Roehrig, AL 6-2015.

TRUNDLE BEDS, blond, w/mattresses; two Kirsch draw drapes rods, extend to 42 inches, all half price; gas range, \$15. Calkins, DI 4-5914.

RADIO AND TV tubes, less than wholesale, all new; older types at 1/2, 1/2 of wholesale price. Skinner, Ext. 4-9282.

'54 MOTOR SCOOTER, Italian, new rings, clutch, paint, brakes, license, 3 almost new tires, continental kit. Sparger, Ext. 3-5288 after 5.

DISHWASHER, GE Mobile Maid, \$120. Hess, AM 8-8558.

VANITY, skirt, glass top, bench, \$15; chest of drawers, portable radio, \$5; rocker, Rinn, Ext. 27285 after 5 p.m.

ENGINE, dual range, hydramatic transmission, doors, windows, windshield, etc. for '52 Nash Ambassador, 4-door custom. Schiess, AL 5-3242.

3 BR HOME, SE, near bases, carpeted, disposal, walled, landscaped, patio; children's piano, small, light oak, \$15. Hummel, CH 3-7997.

VOITLANDER Plate Back Camera, 10 cut-film holders w/accessories, \$50. Gregory, AM 8-2220 after 5.

WANTED

WILL TRADE one 12" and one 8" Jensen speaker for one 15" speaker or larger. Ezell, AL 6-4220.

WILL TRADE 1/2 hp, 3 phase electric motor for swords or guns. Pritchard, AL 6-5667.

TO BUY or trade for 2 1/4 cu. ft. concrete mixer. Gay, AX 9-5625.

BENCH SAW, 8" or 10" at reasonable price; also interested in concrete mixer suitable for home use. Downs, AX 9-5022.

FOR RENT

4 ROOM HOUSE, 6 acres w/several chicken houses, barn in Los Lunas, N. M. Myers, CH 7-8784 after 4 p.m.

2 BR. HOME, carpets, drapes, carpet, air conditioner, lawn, patio, wall, no children, \$95. Morris, CH 2-3391, Maderia Dr. NE.

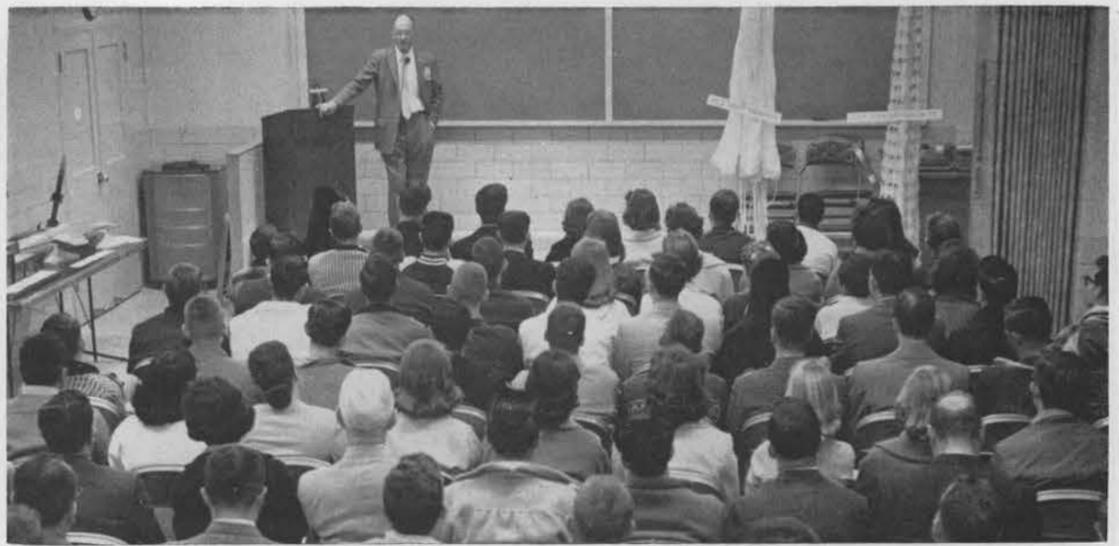
LOST AND FOUND

LOST—Man's light grey overcoat, lady's grey knit gloves, man's grey plastic raincoat; color prescription glasses w/horn rims in metal case w/initials B. P. LOST AND FOUND, Ext. 2-6149.

FOUND—Ford keys in brown case, Indian Scout boy's bike, 2 Jeco keys on chain, pearl bracelet w/mustard seed, gold ball drop earring, burnt wood and copper wire earring, keys on ring w/SC No. 366, keys on S. E. Hunaerford & Sons holder, nail clippers. LOST AND FOUND, Ext. 2-6149.



WIND TUNNEL DEMONSTRATION was set up at several high schools this year by Sandia Corporation to interest youngsters in science and scientific careers. Here Paul Rowe, 5141, (wearing tie) demonstrates portable tunnel to group at Albuquerque High School.



CAREERS IN SCIENCE—More than 100 New Mexico high school science students visited the Laboratories of Sandia Corporation on Edison's Birthday,

Feb. 11. S. C. Hight, Sandia's Director of Research spoke to the visitors telling them what they could expect if their choice is a scientific career.

Science Students Tour Sandia, Voice Their Opinions

More than 100 future scientists and engineers went back to their classrooms in Albuquerque and Belen last week with a vivid impression of what goes on inside Sandia Corporation.

The occasion was the second annual Edison Day Tour of scientific facilities of Sandia Laboratory. During the afternoon of Feb. 11, the students visited laboratories in Bldg. 860 and Bldg. 619, toured computer facilities in Bldg. 880 and saw tracking telescopes, radar and solar furnace facilities on the east mesa.

All students on the tour were selected by their teachers on the basis of their demonstrated interest in mathematics, physics and chemistry.

Several of the students were interviewed during the tour by a Sandia Lab News reporter to determine what careers they would enter when they completed their education.

Jack Hansen, a Highland High School physics student, hopes to continue in physics in college and beyond. "I like physics courses and I think that's what got me interested in the subject," Jack said. Jack, who is the son of R. J. Hansen (2100), commented that the Sandia tour was an excellent way of finding out "what you're getting into."

Tom Moffat, another Highland student, attributed his interest in physics to his father's work at Sandia Corporation. Tom's father



Raymond Baca
—to be chemical engineer—



Jack Hansen
—plans physics study—



INTENT LISTENERS—Dan Fenstermacher, of Sandia Corporation's Tracking Systems Division (5221), had full attention from science students who visited Sandia recently. Dan explained the 16-in. tracking telescope used by Sandia's Field Testing Organization

is W. T. "Bill" Moffat, Manager of the Test Data Department (5240). Tom plans to be an electrical engineer when he completes college. About the tour, Tom said, "I saw much more than I thought I'd see. It was quite interesting."

Raymond Baca, Albuquerque High physics student, said he is preparing for a career in chemical engineering. Ray interprets his interest in science to courses he is taking at Albuquerque High. During the tour, he expressed particular interest in seeing the radar trailers set up on the east mesa and his observations through the periscope in the trailer.

Pete Zimmerman, a Highland High School chemistry student, knew just when his interest in science began. "It all started when I read my first science fiction book, 'Rocket Ship Galileo.' Since then I've been an avid science fiction fan." Pete plans to go for his PhD in physics and work as a physicist. He thought that the demonstration of Sandia's work in Project Sherwood (controlled thermonuclear reactions) was "terrific."

Nancy Ordenez, senior at Harwood School, was fascinated by the



Don Birmingham
—to teach in sciences—



Nancy Ordenez
—interested in mathematics—

"overpowering" computers in Bldg. 880. Nancy has definite ideas about the future—she plans to attend Highlands University in Las Vegas and pursue the career of architecture. For this field she feels a "solid background" in mathematics and science is "definitely required."

Don Birmingham, a senior chemistry student at Albuquerque High, reports that science is his "major interest" in school. He is active in sports — football and baseball. He plans to major in theology in college and continue his science studies with the idea of becoming a teacher in the church. In Bldg. 860 Don enjoyed seeing the chemistry labs and radiation effects studies underway in the "hot cell."

David Finley, a junior math student at Menaul School, took his eyes away from the data-plotter in the computer room in 880 long enough to report that he was "enjoying the tour tremendously." Dave, with still a year to go before graduation, feels he still has time to decide about college and the future. Right now he "does his best" in math and could possibly become a mathematician. He is active in sports.



Tom Moffat
—saw more than he expected—



Pete Zimmerman
—will seek physics PhD—



David Finley
—future mathematician—

'Tool Engineer' Prints Feature Article by Corporation Authors

The magazine *The Tool Engineer* has as its feature article this month a technical paper written by two Sandia Corporation employees.

"Making Precision Measurements with Optical Tools," is the title of the article, written by J. C. Moody and J. M. Burch (both of 1651).

An illustration based on the article was used by the magazine for its three-color cover design.

The authors based their article on work they performed in the Physical Standards Division. It describes making precision measurements without the use of gage blocks or complex measuring equipment and shows how autocollimation and geometry can be applied in the shop as well as the laboratory.

L. E. Castle Writes Article on Overcoming Instruction Obstacles

Overcoming barriers in job instruction is the subject of an article written by Lynn E. Castle for the January issue of *Supervisory Management*, publication of the American Management Association.

Mr. Castle, who is supervisor of the General Training and Education Division at Sandia Corporation, says that no matter how simple a job is to the man who knows it, it does not look simple to the man who has to learn it.

The article lists learning difficulties and tells how to overcome them. The purpose in studying these difficulties is so that the employee who is new on a job may learn to overcome them and be fully productive quickly and easily.

ASME Members to See 'Atomic Physics' Film February 26

A film, "Atomic Physics," will be shown Feb. 26 at a meeting of a professional division of the New Mexico Section of the American Society of Mechanical Engineers.

The ASME's Nuclear Engineering Professional Division will see the film beginning at 7:30 p.m. in Room 2 of the University of New Mexico Mechanical Engineering Building. The film includes early discoveries leading to modern atomic physics and explains uranium fission and atomic weapons.

Magazine Publishes Article by Sandian

"An Application of Game Theory to Special Weapons Evaluation" is the title of an article written by a Sandian and a former employee which appeared in the winter issue of *Naval Research Logistics Quarterly*.

The authors, Howard Wicke (5126) and Jack Hale, former Sandian, based the article on their work in the Systems Analysis Department.

Retiring After 34 Years U. S. Service

Mrs. Margery M. Braden will retire Feb. 28 after 34 years of government service. She is with the AEC Personnel Security Division at the Sandia Area Office.

Mrs. Braden has been with the AEC since February 1953 and was previously in the Albuquerque or Tucson offices of the U. S. Forest Service.

Plans call for her remaining in Albuquerque where she has a son.