

SEASONS GREETINGS

SANDIA CORPORATION

K. Gilbert

Editorial Comment

A Clerk's Christmas Crusade

The seal you lick and stick on Christmas cards and gifts has raised more than a half billion dollars.

The man who conceived the seal, Einar Holboell, never dreamed of such box-car figures. He clerked for peanuts in a Danish post office. But in 1903, engulfed in the stream of Christmas mail, he had a brain wave. The idea:

"There are so many letters and packages," he said. "Just a penny seal on each one would bring in a lot of money to help sick and needy children."

King Christian of Denmark bought the idea, and the first issue bore the portrait of his late consort, Queen Louise.

One year later, the first Seal Sale took off in Denmark — in the same year that the National Tuberculosis Association was formed in this country. The Danes responded: The sale of 4,000,000 Christmas seals in post offices brought in enough kroner to build a children's tuberculosis hospital.

In 1907, a Miss Emily Bissell, secretary of the Delaware chapter of the American Red Cross, organized the campaign of the seal to help tuberculosis patients. The Red Cross did not sponsor that first project . . . but did allow its name to be used. Miss Bissell herself designed the seal. With the backing of Philadelphia's largest newspaper, The North American, the seals sold to the then merry tune of \$3000. In the next two years, the Red Cross sponsored the first nation-wide sales.

From 1910-1920, the National Tuberculosis Association joined with the Red Cross in the seal campaign. From 1920 on, the TB Association, through its state and local affiliates, alone has placed the seal with the bright red double-barred cross before the public.

In 1959, the seal contributions hit their all-time record, bringing in \$26,740,906 although last year's total was close — \$26,529,517. Since 1907, the contributions sales show a grand total of \$543,924,517.

In all those years, the Christmas seals never carried the mails — but the mails carried them. The Danish clerk did more than sort Christmas gifts. He created them.

It Happened on Christmas

Dec. 25, 1776 — George Washington led his troops across the Delaware River to Trenton, N. J., for a surprise attack on the Hessians.

Dec. 25, 1818 — "Stille Nacht, Heilige Nacht" (Silent Night, Holy Night) — composed the day before by Franz Gruber — was sung for the first time at Oberndorff, Austria.

Dec. 25, 1821 — Clara Barton, founder of the American Red Cross, was born in Oxford, Mass.

Dec. 25, 1868 — President Johnson proclaimed an unconditional pardon and amnesty to "all who directly or indirectly participated in the late rebellion (Civil War)."

Dec. 25, 1922 — Russia's Communist leader, Nikolai Lenin, referred to the party's general secretary, Josef Stalin, with these words: "I propose to the comrades to find a way to remove Stalin and appoint another man more loyal, more courteous and more considerate to comrades."

Dec. 25, 1936 — Mutinous war lords in China released Chiang Kai-Shek after having kidnapped and held him for 12 days.



Marcia Moor (4373)

Take a Memo, Please

Be on guard! That's one of the oldest and best warnings against potential accidents. Use common sense and caution to head off trouble.

Congratulations

Born to:

Mr. and Mrs. R. W. Dietzel (1311) a daughter, Esther Lee, on Nov. 28.

Mr. and Mrs. W. J. Meikle (1311) a daughter, Barbara Ann, on Oct. 5.

Mr. and Mrs. L. P. Theard (5313) a son, Michael, on Nov. 20.

Mr. and Mrs. Bobby Collins (3444-2) a son, Anthony Parrish, on Nov. 30.

Mr. and Mrs. E. I. Opland (3122-1) a son, Edwin Earl, on Dec. 10.

Mr. and Mrs. John Matsko (5132) a daughter, Christina, on Dec. 6.

Mr. and Mrs. John Sanchez (3462-3) a daughter, Regina Claire, on Dec. 1.

Mr. and Mrs. Louis Erne (3462) a son, Stuart Eugene, on Nov. 29.

Mr. and Mrs. A. C. Bustamante (7131) a son, Mark Albino, on Dec. 11.

Mr. and Mrs. F. L. Vook (5311) a son, Dietrich, Oct. 30.

Mr. and Mrs. G. L. Guerin (7242-3) a son, Paul Eugene, Nov. 21.

Ohio University Alumni To Meet at Sun Bowl

When Ohio University and West Texas State clash at the Sun Bowl in El Paso Jan. 1, a group of Sandians will be on hand to cheer for OU. Alumni of the University, the Sandians will participate in two days of planned alumni activities in El Paso.

Anyone who attended Ohio University is invited to join the festivities, according to Herb J. Filusch (7124). Call Herb at AX 9-5932 for more details.

Merrill Murphy Has Knack of Revealing Beauty Secrets of Common Desert Rocks

As a boy, Merrill Murphy (1423) and his brother picked up interesting rocks they found in the vicinity of their home at Rifle, Colo. Their mother thought it was a phase all boys go through.

But Merrill continued to collect rocks, and eventually cut and polished the better pieces. "About eight years ago I began to wonder what to do with all those cut stones," he said. At that point he began designing jewelry and stone settings in silver and now has added faceting to his hobby.

His outstanding collection of semi-precious stones has collected ribbons at the New Mexico State Fair for the past 10 years. Each time the cabochon category has been offered, the Murphy entry has won. In addition, Merrill has won prizes in the State Fair art gallery show for his jewelry-making and also in Rocky Mountain Gem and Mineral Federation shows.

The stones have been acquired by trading, buying, and finding.

Used Petrified Bone

His regional cabochons (a stone cut in convex shape, polished but not faceted) include petrified wood from the Rio Puerco, obsidian from the Jemez country, Deming agate, a piece of petrified dinosaur from Utah in which the bone structure can be seen, and the center from a dinosaur bone which has turned a deep blue — a color seldom found in agates. Another polished piece appears to have minute sunbursts in its composition, actually crystallized uranium minerals.

Perhaps one of the most interesting items in his collection is a long, milky-colored piece of petrified palmwood probably "a few million years old." Merrill explained, "I also found this in the Rio Puerco area. The rock was about fist-size, but I could readily see what it would look like when cut and polished."

His jewelry collection includes a silver bolo tie slide set with smithsonite, a rare zinc carbonate stone found in the Kelly mine near Magdalena — one of the few known sources. This item was featured on the first colored photograph cover of the *Lapidary Journal* (May 1962) along with other pieces of smithsonite, including one faceted and believed to be the only one of its kind in existence. The cover photograph was taken by another Sandian, Bob O'Nan (1423-1). The issue also carried an article by Merrill on the "Kelly Blue-Green Gem."

Agate Necklace

Another favorite piece of jewelry is a silver and Mexican agate

Sympathy

To Robert Blount (4170) for the death of his mother in Artesia, N. M., Nov. 29.

To Santos S. Quintana (4513-2) for the death of his brother in Tucumcari, Dec. 6.

To John H. Franklin (4513-3) for the death of his brother in Missouri, Dec. 6.

To Billie Rogers (4514-1) for the death of his stepfather in Arizona, Dec. 3.

To Biliardo Sedillo (4575-3) for the death of his brother in Oregon Dec. 13.

To J. P. Suttman (3463-3) for the death of his father, Dec. 17.

Annual Luminaria Display Readied in Los Altos Area

The annual luminaria display in the section of Albuquerque known as Los Altos will be held again this year from sundown to midnight on Christmas Eve. Some 7,000 candles are used in this display. Los Altos can be reached by driving west on Bridge Blvd. to Coors Road, or west on Central to Coors Road and then south.

A number of Sandia Corporation employees live in the area.

necklace in which the natural design in the stone is followed in the silverwork.

"When I'm working on jewelry," Merrill said, "I usually outline the stone I intend to use, then doodle around it until I come up with a design that pleases me." He has had no formal art training.

The faceting step has also interested his wife, Jerry. Their main interest has been in cuts seldom seen in commercially-sold gems. These include a "square brilliant" Brazilian amethyst, a "step cut round" amethyst, "Don Diego" cut quartz, and "pseudo marquis" citrine (a yellow variety of quartz resembling topaz). They have cut both peridot and garnet found on northwestern New Mexico Indian reservations (these are

of top quality, too). From the Murphys' own claim in the Gila Wilderness came a moonstone, worked in a "Cardinal" cut, and a smoky quartz in the "bar hexagon" cut, which required about six hours to make.

The November 1962 issue of *Lapidary Journal* features an 8000-word article, "Turquoise in the Cerrillos Hills," written by Merrill. His extensive research on the subject brought forth many interesting bits of information about Mount Chalchihuitl, believed Indian for "where the green stone is found." It's estimated that 100,000 tons of rock have been removed from this fabled mountain turquoise mine north of Albuquerque since before the days of Columbus until the 1920s.



RARE SMITHSONITE, found near Magdalena, N. M., is mounted in bolo tie slide made by Merrill Murphy (1423). Necklaces, earrings, pins, rings, and ice tea spoons all demonstrate his talent as a designer and experience in working with silver and various semi-precious stones.



FACETING of semi-precious stones is a hobby enjoyed by both Mr. and Mrs. Murphy. Many of the cuttings are unusual on these native stones.

sandia corporation
lab news
albuquerque · livermore

Editor: Robert S. Gillespie
Sandia Corporation, Albuquerque, New Mexico
Editorial Offices

Sandia Laboratory
Albuquerque, New Mexico
Employee Publications
Bldg. 610
Tel.: 256-4411, Ext. 25253

Livermore Laboratory
Livermore, California
Publications & Public Relations
Bldg. 912
Tel.: Hilltop 7-5100, Ext. 2395

Permission to reprint material contained herein for other than governmental use, may be obtained from the Editor, Lab News, Sandia Corporation.

Sandia Employees Again Turn On Genuine Christmas Spirit

Christmas charity plans are beginning to mushroom at Sandia Laboratory as Dec. 25 draws nearer. Many of the voluntary projects are planned on an organizational basis.

Aerospace Nuclear Safety Department 7110 is repeating last year's Christmas program by collecting cash contributions from its members for donation to the All Faith's Receiving Home.

Members of Design Definition Section C IV, 4413-4 decided that often elderly persons are forgotten during the Christmas holidays. They contacted the Chapman Nursing and Convalescent Home and determined the needs of the 60 some individuals there. Last Thursday, members of the section and their families went caroling at the home, took individual gifts, and provided ice cream and cake. They are also mailing each person a Christmas card. Since there are only 20 Sandians in the section, many other members of Design Definition Department 4410 have contributed robes, blankets, and other items. Bertha Oliver was chairman for this project.

Help to a needy family remote from city charities and service organizations was the goal chosen by members of Classification Division 3422 and Technical Information Division 3423. Such a family was located by Father Wilkinson of Manzano village. The husband is in poor health and unemployed, and there are eight children. Clothing and other items are being collected at the home of Jack Davis (3423-4), and on Sunday will be delivered by Wright Van Deusen and Louise Patterson (both 3423-5). Jane Baltzell (3423-1) has also been assisting on the committee.

Disbursements Accounting Department 4130 has made plans to help both St. Anthony Home for Boys and an individual family. The family—father, mother, and six children—has been plagued by bad luck and ill health. To raise money for both projects, employees have donated items to be raffled off at 25 cents per chance. One person from each of the five sections in 4130 was selected to form a committee and formulate the plans for a successful drive. The goal—\$150 to \$200.

Employees of Military Liaison Organization 2300 have once again donated money to be used for the purchase of shoes for children attending the Riverview Elementary School. Principal Desi Baca has indicated that 39 boys and 35 girls at the south valley school are badly in need of shoes. Last year the "Shoes for Kids" committee raised over \$350, enough for the initial purchase of 72 pairs of shoes (at a discount price) and a reserve fund for buying additional footwear through the year. Lyle Newman (2313-2) is heading this year's drive, assisted by one representative from each division in 2300.

For the third year the three departments of Quality Assurance organization 7500 will be supporting the All Faith's Home. The group's contribution other years has averaged \$325. In addition to money, furniture, bedding, and similar items will also be contributed this year for the Home's new addition. Mary Pasko (7513) is the chairman for this charity project.

Members of Aero- and Thermodynamics Department 7130 are collecting money, used clothing, and other usable articles to be turned over to the Bernalillo County Office of the Department of Public Welfare for distribution to the needy.

The Child Study Center for Retarded Children will be the recipient of money, clothing, and toys donated by employees working in Electronic Data Processing Department 3450. This Center is not one of the United Fund agencies. Chairman for the drive is Jack Westbrook (3453-2).

Members of Printing Section 3462-3 are donating money, which will be given to a needy family.

The parents and seven children lost all of their belongings recently when their home burned.

A different approach is being used by Library Section 3421-1. Employees in that section will donate \$40 to the Volunteer Services organization at Bernalillo County-Indian Hospital to be used toward purchase of a resuscitator. Chairman for the project is Norienne Felter (3421-1).

A white elephant auction conducted by Organizations 3446-1 and 3441-1 raised \$253 which will purchase shoes, food, linens, and blankets for a widow and seven children. In addition, the organizations collected eight boxes of toys, clothes, and food for the family.

Auctioneers for the noon hour sales were Wally Boyes (3462), Nick Tarnawski (3444), Frank Taylor (3465), and Ralph Carter (3462). Margaret Wetzel, Dora Dyer, Ruth Redmond, Doris Welch, Cora Beckes, and Marie Stone of the sections handled arrangements for the auction. Delivery and purchasing of the items will be performed by a committee headed by Lorraine Torres and Mary Lang. Members include Ellen Jones, Billie Beckman, Dorothy Gray, Emma Benderman, Irene McGrew, and Jo Hayden. R. C. Smelich, 3446-1 supervisor, will play Santa Claus for the delivery.

Sandia Authors

Current or forthcoming articles authored by Sandia Corporation employees include the following:

W. J. Whitfield, J. C. Mashburn, and W. E. Neitzel (all 2564), "A New Way to Control Airborne Contamination," December issue, **Quality Assurance** magazine.

N. A. Mozley (3113), "Salary Surveys—After the Deluge," December issue, **Personnel Journal**.

J. A. Baldwin, Jr. (5314), "Flux Reversal in Three Rung Laddies," October issue, **Institute of Radio Engineers Transactions on Electronic Computers**.

Dorris M. Hankins (5412), "Observations From Some Gnome Seismograms," December issue, **Gnome Symposium, Bulletin of Seismological Society of America**.

Wendell D. Weart (5412), "Particle Motion Near a Nuclear Detonation in Halite," December issue, **Gnome Symposium, Bulletin of Seismological Society of America**.

Lynn B. Plumlee (3133), "Accounting for the Fluctuation in Test Scores," December issue, **Education Research Bulletin**, a publication of the New Mexico Society for the Study of Education.

Phyllis Swartz (3430), Edward G. Nolan, and Kenneth Tillman, "Value Variations in Fourth and Seventh Grade Students," October issue, **The Journal of Educational Research**.

F. M. Smits (5310), "The Degradation of Solar Cells Under Van Allen Radiation," first issue of 1963, the **IRE Professional Group on Nuclear Science Transactions**.

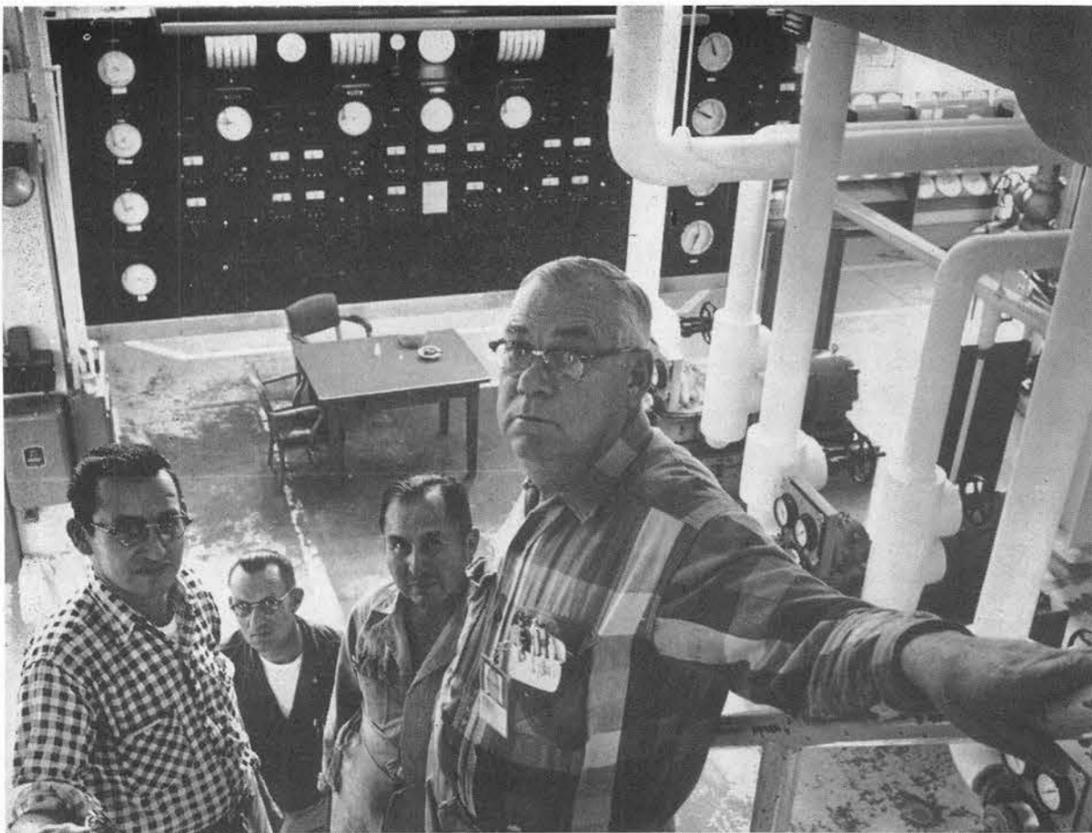
S. C. Rogers (5321), "Prediction of Radiation Damage to Satellite Electronic Systems," first issue of 1963, the **IRE Professional Group on Nuclear Science Transactions**.

R. O. Brooks (7325), "Shock Test Methods vs. Shock Test Specifications," **Shock, Vibration and Associated Environments Bulletin** for 1962.

Welcome Newcomers

Dec. 3-14

Albuquerque	
*Rosie Lee Cata	4623
Lynn M. Fairchild	3446
Claud A. Hickman	2341
Lawrence W. Huston	4413
Seledon Jaramillo	4574
*Alfonso Lujan	4631
L. Claude Morrison	4514
*William C. Randolph	4631
Shirley Raupach	4613
Ivan L. Wright	4574
Iowa	
James E. Schirber, Ames	5151
Kansas	
Robert L. Simpson, Jr., Kansas City	1113
Wisconsin	
Eugene L. Neau, Kenosha	5153
* Denotes rehired	



CHRISTMAS will be observed with "business as usual" at Sandia's heat plant. Part of the crew is shown above. From left are Mike Silva, Henry Austin, Warren Nilchee, and E. C. Temple. Heat plant is manned 24 hours a day.

'Christmas Is A Feeling' Says Man Working December 25

While the rest of Sandia Corporation employees are enjoying a Christmas holiday, 72 Sandians will be performing business as usual at the Laboratory.

As on any other non-operational day at Sandia Laboratory, three shifts of security inspectors will be on patrol, four men from Plant Maintenance Department will be on duty, and eight men will be operating the steam plant.

At Livermore Laboratory, 16 plant operators will be on duty.

For M. W. McMullen, first shift security inspector, December 25, 1962, will mark the eleventh consecutive Christmas he has worked. "That's the way the schedules work out," he says. "The job has to be done. Christmas is a special day, but it can be observed a little early or a little late."

Edmund G. Baca, a security inspector who will work the swing shift Christmas, feels that he will still have plenty of time at home. "You have to get up early Christmas morning," he says. "The kids, the tree, the presents, and everything. This is tough on the guys who will just be getting home from the graveyard shift. They won't be getting much sleep, but the swing shift works out fine. We'll have most of the day at home, Christmas dinner, and then go to work at three in the afternoon."

Four men from Pipefitting and Plant Operation Division 4513 will work Christmas. L. J. Price, electrician, and Conroe Wyman, pipefitter, will work from 8 a.m. to 4 p.m. and be relieved by Jack Carnohan, electrician, and James Meagher, pipefitter, who will work until midnight. These men per-



Edmund G. Baca (3234)
—"the swing shift works fine"—

form regularly scheduled work and are on call for emergency service if the patrolling security inspectors need them.

"Working Christmas is no problem," Jack Carnohan says. "Christmas is a feeling you have no matter what you're doing."

Eight men will split the three shifts at the Sandia Laboratory steam plant. They will be George Lester, Al Jiron, Joe Wynn, Salome Ramos, Henry Austin, Warren Nilchee, Mike Silva, and E. C. Temple (all 4514-2).

At Livermore Laboratory, A. J. Cowan, E. C. Deno, C. D. Crawley, N. W. Purington, G. E. Smith, and J. A. Culver (all 8222-1) will operate the steam plant.

To these men and the security inspectors whose names follow, the **Lab News** wishes a special Merry Christmas, whether a little early or a little late.

First Shift Security Inspectors

L. E. Colson, G. A. Uszuko, B. L. King.

J. B. Hiser, A. M. Watson, J. Q. Toler, R. E. Fair, J. Bashaw, T. J. Tangney, R. V. Crompton, G. H. Davies, E. S. Smith, F. Treon.

E. A. Raney, R. L. Byrd, M. W. McMullen, J. F. Rabold, C. Carrell, G. L. Dingman, T. L. Mead, T. Varoz, W. L. Dowd, H. L. Bigley.

Second Shift Security Inspectors

T. R. Wright, T. J. Chiado, J. S. Hinson, V. R. Morrison.

E. H. Cox, C. L. Cox, L. Bryant, F. L. Gillespie, R. G. McBride, C. L. Jackson, H. L. Turk, D. C. Werme, H. M. Courtney, L. F. Avila.

E. B. Noel, R. W. Dyer, J. P. Chandler, J. C. Ivey, C. Hale, W. R. Lewis, C. W. Hansen, E. G. Baca, R. R. Hamilton.

Third Shift Security Inspectors

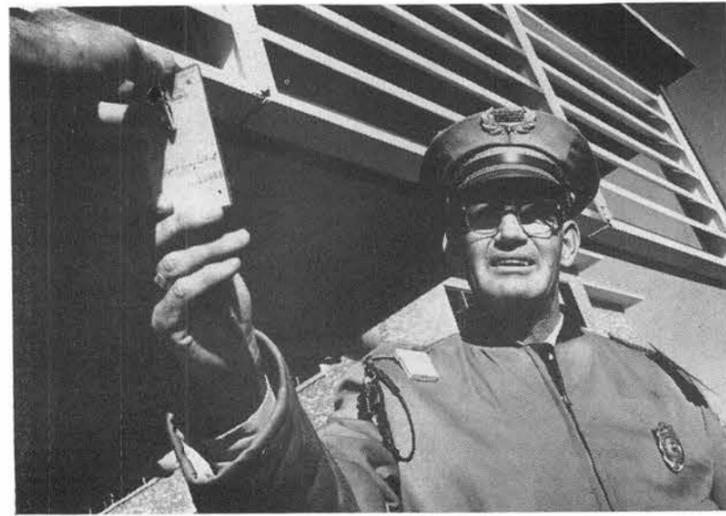
G. H. Dance, L. T. McKenzie, B. J. Hussey.

J. E. Rich, M. D. Adams, F. J. Shingola, S. Rodocovich, R. A. Kelley, V. W. Moore, E. Chavez, R. Humes, D. R. Giles, R. W. Cruzen.

H. Flores, H. M. Hadlock, T. W. Sandoval, L. Archuleta, W. L. Pritchard, E. P. Bernard, H. L. Brownson.



PLANT MAINTENANCE men James M. Meager, Jack Carnohan, and Conroe Wyman will be working Christmas, on call for emergency service.



M. W. McMullen (3234)
—"you can observe it a little early or a little late"—



WELCOME TO SANDIA, MR. PRESIDENT — A smiling Jack Kennedy, the first President to visit the Laboratory, was greeted by several thousand employees. Accompanying pictures record his Laboratory visit.

Sandia Greet's President Kennedy

Chief Executive Given Nuclear Weapons Briefing

For a brief time Friday, Dec. 7, and Saturday, Dec. 8, the White House of the United States was in Albuquerque. To reach the Albuquerque White House by phone, all you had to do was dial 265-1241.

It all came about when President John F. Kennedy made a fast visit to Sandia Laboratory, Los Alamos Scientific Laboratory, Nevada Test Site, and Strategic Air Command Headquarters in Omaha.

The President appeared at Sandia Laboratory in the early dusk of Dec. 7. It was cold and clear. Several thousand Sandians stayed after work to greet the President. Then he went into a classified briefing in the training area of Bldg. 892.

His day had been long. It started in Omaha with a tour of underground facilities of SAC. The afternoon was spent at Los Alamos Scientific Laboratory. Then came what NBC news called "... the most important part of his trip..." the Sandia Laboratory briefing.

Recorded here are some of the events as captured by photographers of the Industrial Photographics and Employee Publications Divisions.



ROUSING WELCOME to Sandia Laboratory pleased the President and Sen. Clinton P. Anderson. Both rode bareheaded through the chilly winter air on the roundabout route to Sandia, past thousands of admirers.



PRESIDENT'S GREETING was received by thousands of Albuquerqueans who lined the streets driven by the presidential limousine. Seated in the front seat is Gerald A. Behn, Chief of White House Secret Service.



FIVE O'CLOCK didn't mean employees went home. By the time the President appeared in Sandia Lab Technical Area the streets were lined even deeper with admiring onlookers. Many remained until he left again.



PRESS CORPS briefing by G. A. Fowler, Vice President, Development, was held in Bldg. 800, Sandia Laboratory, while the President was hearing S. P. Schwartz, Sandia Corporation President, in Military Liaison Area.



WHITE HOUSE PRESS POOL briefing took place a few doors from the room where President Kennedy was hearing a discussion of weapons. R. W. Henderson, Vice President, Weapon Programs, spoke to newsmen.



U. S. REPRESENTATIVES Thomas B. Morris (center) and Joseph M. Montoya also were Sandia visitors. Left is H. M. Willis, Manager of Sandia Security Department.



SMILING PRESIDENT greets the public as the executive car enters Sandia Laboratory Technical Area. With him is Sen. Clinton P. Anderson. Senator Anderson rode with the President in his slow motorcade from the Albuquerque airport via East Central Ave. to Sandia.



WEAPON EXPLANATION — Glenn T. Seaborg, Chairman of the Atomic Energy Commission, discussed weapon capabilities with the President. S. P. Schwartz is at left. The event took place in the Training Area of Sandia Laboratory's Military Liaison organization in Bldg. 892.



NUCLEAR WEAPONS TALK — Kenner F. Hertford, Manager of Albuquerque Operations of the Atomic Energy Commission, spoke to the President and assembled officials in the Military Liaison Training Area of Sandia Laboratory. Front, L to R: Dr. Harold Brown, Director, Defense Research and Engineering; McGeorge Bundy, General Manager, Atomic Energy Commission. Standing right is Dwight A. Ink, Assistant Special Assistant to the President for National Security Briefing by Sandia President S. P. Schwartz followed.



PLEASANT GREETINGS were exchanged between the President, Senator Anderson (back to camera), S. P. Schwartz, and K. F. Hertford, Manager, AEC/AEO. In the rear is Security Inspector Benny Anaya with whom the President chatted.



WHITE HOUSE Press Corps members were busy filing stories during their short stay at Sandia. Mrs. Cherry Lou Burns, Public Relations Department, assisted these newsmen while others attended briefings.



PRESIDENTIAL CONCENTRATION — President Kennedy listens to an explanation of a weapon's function given by S. P. Schwartz.

W. J. Prokosch to Retire from Sandia After Long Service

William J. Prokosch will retire the end of December after 14 and a half years at Sandia.



He worked seven years as a taxi driver for the motor pool, and presently is assigned to Ordering and Tool Control Section 4212-1.

Mr. Prokosch came to Albuquerque in 1918 from Chicago. "I made one trip back, but it was 20 below zero and there was a foot of snow," he said. Before joining Sandia, he had been with the Albuquerque Fire Department for 15 years.

"I intend to wait until after the holidays to decide on my plans," Mr. Prokosch said, "but after driving all my life, I'm not interested in travel."

Mr. and Mrs. Prokosch and their son, Donald, live at 704 Palomas Dr. SE. They have a married son who also lives here.

Safety Engineers Recognize Paper by William W. Allison

William W. Allison (3211-2) was awarded first place in the recent Technical Paper Awards Program of the American Society of Safety Engineers. The paper, which was published in the Society's Journal, was entitled "Safe Practice Guide for Zirconium, Zircaloy and Hafnium."

The prize-winning article deals with fire and explosion hazards associated with zirconium, its alloys, and hafnium.

A Sandia employee since Nov. 13, Mr. Allison was formerly supervisor of safety engineering for the Bettis Atomic Laboratory, Pittsburgh, Pa. He has served as a member of the Executive Committee of the National Safety Council Chemical Section and is a member of the American Nuclear Society, American Industrial Hygiene Association, and the Veterans of Safety. He attended Bethany College and the University of Pittsburgh.

Andy Blain Heads Sandia Golf Assn.

Sandia Employees Golf Association recently elected officers for the 1963 season. Andy Blain (4614) is president; Ralph Campbell (3241), vice president; and Wendell Nelson (4152), secretary-treasurer. Directors are Lew Larsen (2344), Charles Runyan (4220), and Cliff Taylor (4254).

The 1963 season will start in April. Applications for membership are available from Benefits and Services Division 3122, Bldg. 610, ext. 29157.

Sandia Speakers

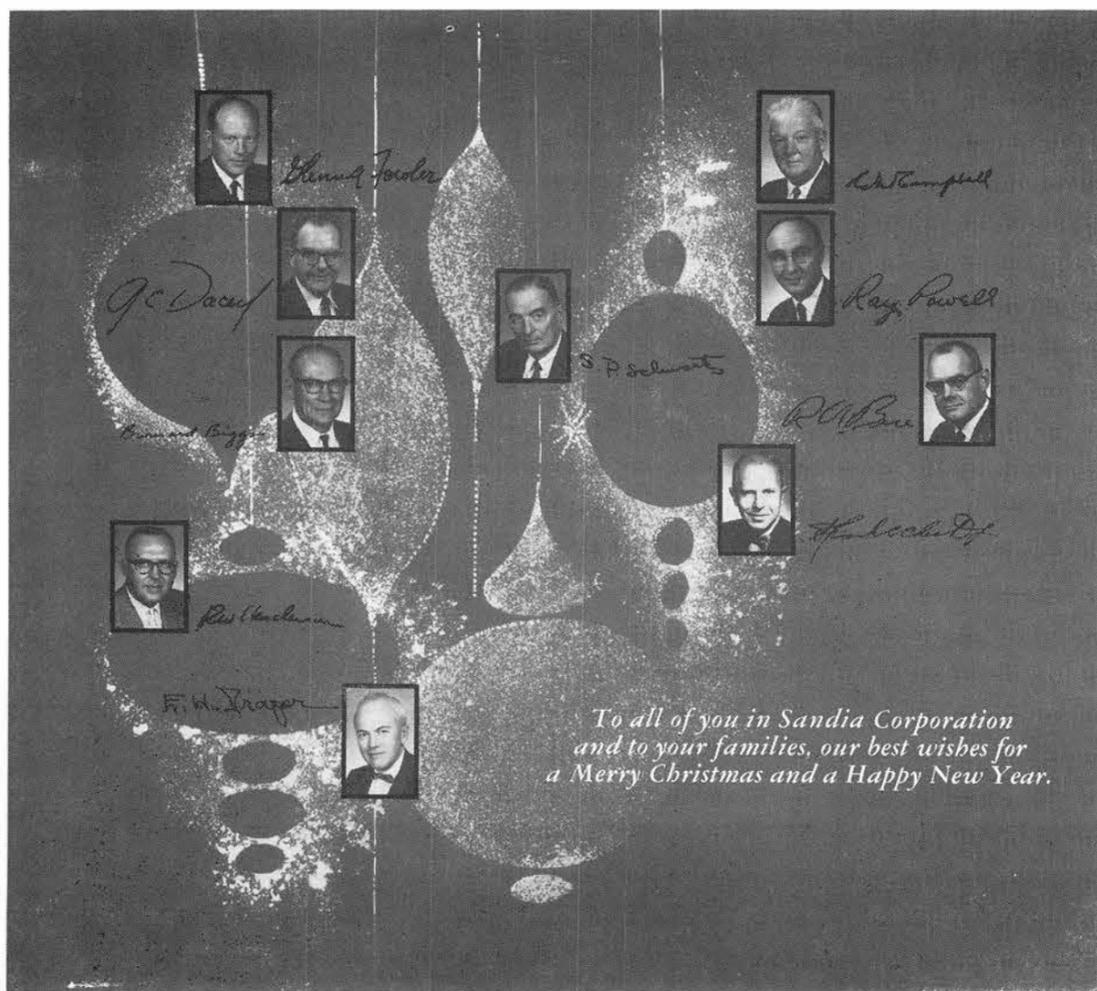
Following is a list of speakers, titles, and places of presentation for recent talks by members of Sandia Corporation.

J. M. Wiesen (1440), "Analysis of Errors in Measurement," South Texas Section of American Society for Quality Control, Dec. 12, Houston, Tex.

Max McWhirter (7324), "Methods of Simulating Shock and Acceleration and Testing Techniques," Pennsylvania State University in cooperation with the Institute of Environmental Sciences, Dec. 3, Philadelphia, Pa.

T. M. Gemberling (6041), "Some Legal Aspects of Nuclear Engineering," Albuquerque-Santa Fe chapter of the American Nuclear Society, Dec. 13, Santa Fe.

F. M. Smits (5310), "The Degradation of Solar Cells Under Van Allen Radiation," IRE Professional Group on Nuclear Science, Dec. 5, Albuquerque.



Sandia Radio Expert Teaches Unique And Enthusiastic Class of Amateurs

Friday evenings, Carl W. Franz (1321-1) teaches a course for radio amateurs. Twelve students, ranging in age from 11 to 40, attend the class, where they study code, radio theory, and the construction and tuning of equipment. They show the same enthusiasm, ingenuity, and love for the language of electronics as other amateurs, but they differ in one important way; they are all partially or totally blind.

Carl's enthusiasm is as great as his students'. "We have a number of projects planned," he said recently, "and we'll start work on them as the students' skills in electronics increase."

The students will work on construction and use of auditory measuring equipment which provides for tuning electronic devices by audio signals. These signals replace dials on the usual meters. Part of the training includes construction of transmitters, patterned after a special model which permits the builder to follow the wiring by tracing it with his fingers.

"We also hope to organize a radio club for the visually handicapped, and to build a club station at the Albuquerque Training Center," Carl commented. The class also

offers exams for FCC novice and conditional operating licenses.

"Several civic organizations and individuals are providing funds for the purchase of equipment," Carl continued. "But there's still a need for more support."

Carl requests that local radio amateurs who have spare electronic parts contribute them for the use of the club. "We can use almost anything in the way of electronics gear," he concluded.

Metal Trades Council Elects New Officers

Members of the Metal Trades Council voted for new officers on Dec. 5.

Henry R. Welch (4512) was elected president of the organization. Serving as vice president will be Leland L. Pierce (4224-1). Betty F. McKinstry (3462) was elected recording secretary.

Re-elected were Joseph A. Maldonado (4624) as secretary-treasurer and Glenn M. Haycock (4518) as sergeant-at-arms.

Elmer C. Temple (4514), Homer R. Messenger (4232), and Harold E. Crissey (4513) were elected trustees.



Kathy Gilbert

Lab News Cover Work of Technical Artist Kathy Gilbert

The snowflake design on the cover of this issue of the Lab News is the work of technical artist Kathy Gilbert (3463).

Kathy first came to Sandia as a summer hire in 1960. She was still a student majoring in fine arts at the University of New Mexico. Following graduation and a trip to Europe the next year, Kathy joined Sandia permanently in May 1961.

Out-of-hours, Kathy's interests are in free-lance commercial art, oil painting, and sports cars.

Distribution of '62 ECP Funds Ends

Sandia Laboratory employees contributed \$144,100 to the Employees' Contribution Plan during 1962. November marked the end of the '62 period. New pledges will go into effect this month.

The funds were distributed to the 25 local agencies of the United Community Fund and to nine other health and welfare agencies. The bulk of the contributions were made by payroll deductions, but cash gifts were also made at the beginning of the drive last December. Specific United Fund Agencies received \$701, which is included in the total above but not in the tables below.

In addition to the contributions to the participating agencies, \$1425 went into the ECP reserve fund.

As the November checks were mailed, the following distribution had been made:

	November Distribution	Given at Start of Drive	Totals For Year
United Community Fund	\$8,462	\$6,835	\$108,928
American Cancer Society	645	622	8,413
Bernalillo County Heart Association	501	426	6,471
Arthritis and Rheumatism Foundation	189	162	2,446
Albuquerque Association for Mental Health	111	91	1,435
N. Mex. Society for Crippled Children and Adults	478	358	6,135
National Multiple Sclerosis Society	77	62	1,003
Albuquerque Association for Retarded Children	178	144	2,293
Cerebral Palsy Association of Bernalillo County	267	198	3,422
Muscular Dystrophy Association of America	111	82	1,426

Tape Recording Club To Be Organized by Sandia Employees

Sandians interested in sharing stereo four-track tapes and forming a tape club are invited to contact Benefits and Services Division 3122, ext. 29157. An organizational meeting is set for 1 p.m., Tuesday, Jan. 8 in Bldg. 300. Further information is available from R. I. Butler (7325-2), ext. 23232.

Service Awards 15 Year Pins



Verne E. Blake, Jr. 7110 Dec. 24, 1947

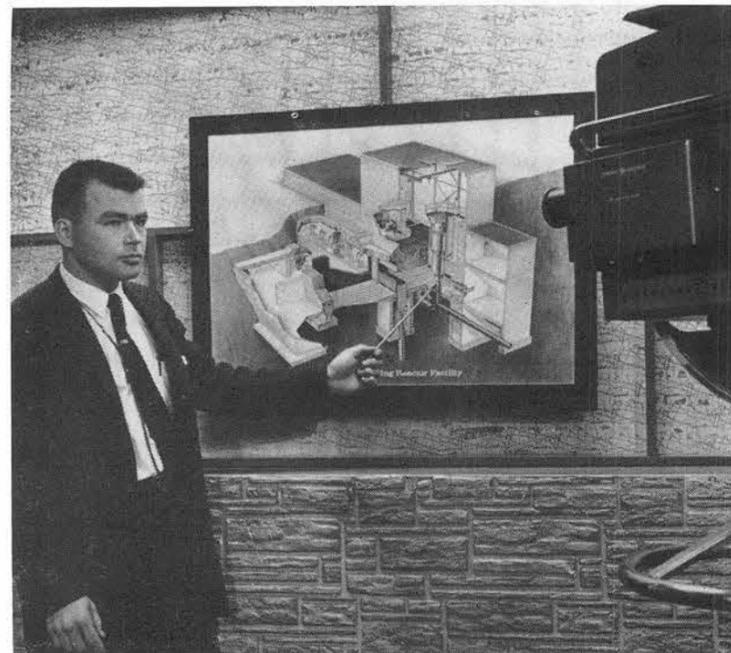
Robert L. Rutledge 4613 Dec. 22, 1947

10 Year Pins Dec. 22-Jan. 4

Joseph G. Brooks 7321, John Cotch 4514, C. A. Schooley 4113, Sidney H. Wagner 8116, Richard W. Willey 2452, Rodney E. Stambaugh 2621, Gene W. Abbott 3121, Stanford G. Cain 8122, F. Shoemaker 7254, Hugh L. Tallman 4542, C. B. Torres 4221, Robert L. Burgess 7213, James C. Southall 4221, Donald R. Knapp 2331, Edward G. Paboucek 4413, and John A. Rohrer 2564.



H. D. SIVINSKI, supervisor of Facilities Planning Section 7311-1, discussed environmental aspects of space travel during "Shirt Sleeve Session" recently on KNME-TV. Jack was a member of a four-man panel.



CARL A. ANDERSON, supervisor of SERF Operations Division 5331, explained functions of the reactor recently over KNME-TV's program, "Channel 5 Reports." The program was in observance of the 20th anniversary of the first sustained chain reaction achieved Dec. 2, 1942.



"Bea" Haines is the Lab News' volunteer reporter for Systems and Procedures Department 4110. She has been at Sandia six years and, before transferring to her present organization, she was a reporter for Graphic Arts Department 3460.

A division secretary, Bea is a member of the local chapter of National Secretaries Association and served as that group's membership chairman last year.

She and her husband, Glen (4224-3), love to fish — "lake or stream, anyplace where there's water," Bea explains. Since they moved into their new home a year and a half ago, a good deal of time has also been devoted to gardening.

But mostly, the Haines enjoy their sons: Jeff, a junior at Sandia High, and Jim (4251) and his wife, Nathana (3441/3126).



SANDIA LAB ALL STARS walked off with the championship of the Third Annual Inter-Base All Star Football Tournament recently. The Sandians defeated Manzano Base 20-6 and Kirtland AFB 32-6 to take the trophy. In the first row, from left, are Bob Henderson (7311), Phil Lopez (AEC), Cliff Kinabrew (7534), John Otts (7324), Don Dekker (2531), Norris Rose (3121), Gerald Williams (7324), and Herb Filusch (7124). Standing are

C. D. Lundergan (1113), manager, Carl Cron (1122), Ron Bump (7523), Pete Thoma (1112), Bud Herzog (1113), John Robertson (3111), Don Smith (1124), Bob Gardner (3446), Phil Loeper (4412), and Larry Ferree (3111). Team members not shown are William Pela (2531), Sam Berry (2541), Charles Martel (2531), and Charles Salazar (4254). This marked the first time that the Sandia Lab team had emerged tournament champs.

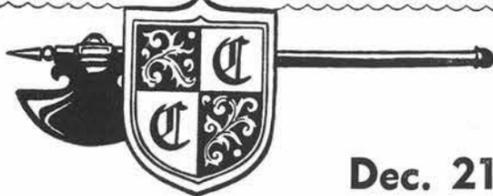
Dance Instructions Available to All Club Members

Beginning Jan. 5, the Coronado Club will offer a ten-week dance instruction course for pre-teen and teenagers. Fee is \$10 for the ten-week course, and registration will be held at the first session, Jan. 5 at 1 p.m.

Adult dance instruction in American and Latin rhythms will be taught to Club members on Tuesday evenings by Charles and Holly Balistrere. Gail and Jennifer Ward will teach American steps. Cost for the courses will be \$6 per member for ten one-and-one-half hour sessions. Beginners' classes will be held at 7 p.m.; and advanced, 8:30. Registration will be taken at the first class, Jan. 8.

Club members and guests are again reminded of the New Year's Eve party to be held at the Club, with dancing from 9 to 1 a.m. to the music of two orchestras.

coronado club



Dec. 21 - Jan. 5

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					21	22
					Org. Parties 4400 ACF - PPD	Org. Parties 4100, 2600 AEC - Acct.
23	24	25	26	27	28	29
	Bar Open 12:00-7 p.m.	Club Closed		ACF Party Dept. 401	Org. 2534 Party	
30	31	1	2	3	4	5
	New Year's Eve Party	Color TV Parades and Bowl Games			Social Hour 5:15 Tom Kelly Buffet 6:30-8 p.m.	Youngsters Dance Classes 1-3 p.m.

EVENTS

SHOPPING CENTER

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

RULES

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

FOR SALE

- '55 BUICK Special 4-dr., R&H, new brakes, very clean, good transportation. \$300. Neel, 3617 Espejo NE, AX 9-9309.
- RECORD PLAYER, portable, 3-speed, automatic changer; also child's record player. Both for \$25. Both will play but need adjustment. Thayer, 1424 Hoffman Dr. NE, AX 9-3127.
- HO TRAIN set, complete less power pack. Layout mounted on 5x9" train board, \$60. Wacek, AM 8-8579.
- HEATH KIT and EICO test equipment: scope, audio and R-F generators, R-C bridge, variable Isol. XFMR, decade box, \$125. Chaney, 298-5220.
- ELECTRIC RANGE, GE apartment size 24". Marshall, 298-4206.
- 4 BDR HOME, nice location, convenient to base. Minter, AL 6-9225 after 5 p.m.
- ALASKAN MALAMUTE puppies, purebred, five weeks old. Will be ready for Christmas. McGiboney, AL 5-6128.
- NINE MONTH old permanent registered Quarter Horse stud, "Leo Bob Twist" Running bloodlines. Garrison, DI 4-2023 after 5:30 p.m.
- M-1 CARBINE and 80 lb. crossbow. Bowen, 255-8195.
- FISHER STEREO amplifier, Model X101B, 52 watts. Buchanan, 243-7927.
- KEY WIND watch, fine engraved silver, closed case, \$35. Will trade for old musket or rifle. Smitha, AX 9-1096.
- GIRL'S 20" bicycle, new point, \$15; large spring horse, \$10. Houghton, AX 9-6230.
- '52 STUDEBAKER Commander hardtop, \$100. Wladika, 255-9166.

- 35 mm Kodak Retina II, case, \$35; kitchen set, table very good, chairs fair, \$15. Johnson, 255-5427.
- SECTIONAL, four-piece curved, beige colored, foam rubber cushions, \$75. Kubiak, 256-1513.
- DRAFTING TABLE and Bruning 18" drafting machine. Canter, 268-0608.
- SOFA BED, 78", turquoise, \$10. Miller, AM 8-5992.
- '51 FORD, 2-dr. V-8 with overdrive. Prokosch, AL 6-1516.
- 3 BDR ROBERSON, double garage, pitched roof, electric kitchen, AC, carpeted. Available GI, low down FHA, or assume loan. Bulcock, 9406 Snow Heights NE, AX 9-7598.
- BOOKCASE headboard, double dresser with mirror, nightstand, limed oak, \$50; hand-painted pictures, two, black panthers on metallic background, \$30. Gross, 1208 Florida NE, AL 5-7327.
- CRIB mattress, plastic covered, \$6; girl's 26" bicycle, \$12; Cosco highchair, \$8. Hart, AX 9-8870.
- STUDIO COACH with slipcovers, makes into twin beds, \$20; two girls' 24" bikes, \$10. Hopkins, AL 5-8902.
- FRIGIDAIRE deluxe electric range, large oven, \$50; GE portable automatic dishwasher, \$75. Garst, 299-5870.
- ALTO SAXOPHONE. Vandi, AL 5-0685.
- '46 FORD coupe, excellent for restoring, body good, motor fair, needs new seat, \$65. Higgins, DI 4-1341.
- SKI BOOTS, sizes 4-6, and 8, \$5 each. Pewe, AL 5-3518.
- 30-30 RIFLE, bolt action, \$30; 15" wheel chrome rings, \$2. Scranton, 299-4902.
- WOOL RUG, 11 1/2' x 14 1/2', with pad. Dawkins, 242-3507.
- STEEL CASEMENT window, nine panes with glass, screens, need crank, regulator, \$6; leather motorcycle jacket, size 36, \$15. Williams, 255-4109.
- BED AND springs, \$15. Pritchard, AM 8-6430.
- '62 OLDSMOBILE Super 88, air, power, white/blue/silver interior, 1955 Oldsmobile Super 88, air, power, new tires. Cummings, 298-5173 after 5 p.m.
- RIFLE single shot .22, \$12; slide projector, 300w, \$25; shotgun, pump, 12 ga. \$30; cornet, \$10; automatic washer, \$10. Schowers, 255-9279.
- BABY BED; bottle sterilizer; carseat; car bed; safety server table; wool rug and pad. Randall, AX 9-3935.

NEXT DEADLINE FOR SHOPPING CENTER ADS Thursday Noon, Dec. 27

- BUILDING LOT in desirable neighborhood, priced to sell. Mobile Maid dishwasher, works but needs handyman's adjustment. Dodd, AX 9-6330.
- GREASE GUN, hand operated, used once. Also two tubes Alemite grease. Complete for \$3.50. Garst, 299-5870.
- ACCORDIAN, 120 base, 17" keyboard, blue and white. Bradshaw, AM 8-8708.
- HEATH KIT Apache 180 watt XMTR, 40Ft. Rohn tower w/CDR rotator, BC-348-Q receiver w/AC power, Go-Kart, home-made, w/small 2 cycle motor. Dobias, 4615 Inspiration Dr. SE, 256-7476.
- 50 HARDTOP CADILLAC COUPE, 2 new tires, new tinted windshield and driver's door, R&H, needs front seat cover, \$300. Elliott, AL 6-4411, ext. 40138.
- LARGE WOOD office desk, \$25. Winkler, AX 9-1735 after 5:30 p.m.
- '59 MERCURY Montclair 4-dr. Hardtop w/automatic transmission, PB, PS, Air. Warren, AL 5-4808.
- GOLF CLUBS, 3 woods, 7 irons, putter, Bagby cart, sell or trade for E-flat saxophone. Fisher, 265-0626.
- EQUITY in two residential lots Brentwood Hills Subdivision; one corner 73' x 110' and large lot adjoining. Avallone, AL 6-0403.
- DACHSHUND PUPS, seven weeks old, three males, one female, AKC registered, \$45 each. Besser, DI 4-1424.
- PUPS, part Beagle, show promise of being good hunters. Fife, BU 2-3206.
- SINGER SEWING MACHINE model 401A Slant-O-Matic; Singer vacuum cleaner, Golden-Glide; women's western boots, size 7; 22 rifle. Naumann, 298-1953.
- SNOW 3-dr, 1 3/4 bath, fireplace, covered patio, 2-car garage, handy to base and schools. Miller, AX 8-0231.
- 3-BDR, den 13'x18' w/fireplace, kitchen 12'x24' w/sliding door to patio, walled corner lot, 3 years old, \$15,950. Ray, 11017 Phoenix NE, AX 8-0408.
- '60 BSA Starfire Scrambler motorcycle, \$395; model 71, 348 cal. Winchester, \$85; two 15" wheels for Chevrolet, \$8. Wilson, AX 8-0049.

- 1700 SQ. FT. HOME, FHA appraised, 3-bdr., den, huge livingroom, hw/floors, landscaped, terms. Coonce, AX 9-2026.
- 3-BDR, 1 3/4 baths, DR. LR, carpeted throughout, \$13,500 FHA, 9706 Salem Road NE. Robinett, AX 9-8996.
- '50 MERCURY, new ring job. Miera, CH 3-1826.
- TRAINS, American Flyer, 2 complete sets, accessories and remote devices, all mounted for convenient use, lots of track. Caldes, BU 2-3272.
- LADIES engagement and wedding ring set, 10 diamonds totaling approximately 1/4 carat, \$125. Massey, 298-4650.
- FREE Christmas puppies, small Cocker cross. Butler, AX 9-5626.
- 3-BDR RANCH HOME in Belen, 2 1/2 acres, 2 garages, 3-room apt. in rear, terms at 6%. Romero, UN 4-4116 or UN 4-8650.
- PICKET FENCE, approximately 125' long, \$23; one pickup load firewood, \$4; light fixtures, never used; wiring half price. Villella, 299-6261.
- '60 KARMANN GHIA convertible, must sell, going into Navy, \$1595. Raymond, AL 5-5087.
- REFRIGERATOR, Goldspot, 11 cu. ft. push-button defrost, \$65. Ives, AX 9-7003.
- CHILD'S Wonderhorse, \$9. Dauphinee, AL 5-6367.
- STORKLINE baby bed w/mattress, \$15; Baby Tenda, \$20; red suede, longfringe jacket, \$15. Ortega, CH 2-1587.
- TWO MUD AND SNOW TIRES, 760x15, \$2 each. Heath, AL 5-5418.
- V-M record player, 3 speeds, 3 speakers, wrought iron legs, blond mahog. finish, \$40. Martin, 299-1748.
- WALL-HUNG combination 2-car motorama and HO train layout w/equipment and transformers, \$60. Devor, 256-6541.
- REVERE 8 MM turret lens movie camera w/1.9 lens, \$35. Laskar, AX 9-1024.
- SPRING MOUNTED HORSE (Palomino Pal), large size, cost \$30, sell for \$15 or will trade for 10 or 15 gal. aquarium. Robertson, 298-2388.
- TRAILER, utility, 2-wheel w/hitch, \$15; power mower, reel type, \$10. Baumann, 898-2261.
- GIRL'S 3-piece coat outfit, 6X, \$7; girl's vinyl coat, 6X, \$3. Nix, 2813 Virginia NE, 298-4282.
- SKI EQUIPMENT: 82" skis, size 10 boots, Cubca bindings, poles, all for \$30. Burnett, CH 3-2758.

- TRAINS, American Flyer, 3 steam locos, 2 diesels, 14 freight cars, 5 streamline passengers, track, switches, \$60; power supply, \$20. Bullhorse, AM 8-5995.
- VW WHEEL, \$8. Wilson, BU 2-3225.
- ICE SKATES, girl's sizes 1 and 3 w/guards, \$5/pair, Mason, AX 9-2836.
- 3-BDR, 1 3/4 bath, den, DR, elec. kitchen, 2-car garage, pitched roof, corner lot, walled, Roberson, FHA appraisal. Boyd, 299-9375.
- 15 CU. FT. DEEFPREEZE, 3 yrs. old, \$85; '56 Ford stationwagon, stick. Chavez, AL 5-2625.
- COLLIE, male, 6 months, tri-color, AKC, see at 3212 LaVeta Dr. NE. Kurowski.
- '57 HARLEY-DAVIDSON motor for 14 yr. old or over. Salazar, AL 5-1301.
- '57 FORD auto. trans., R&H, Custom 300, \$550. Disch, AX 9-1201.

WANTED

- HOME FOR dog, five month old female, Collie cross. Kenderine, BU 2-3270.
- BUGLE. Houghton, AX 9-3386.
- CUSHMAN EAGLE frame and gear box. Pritchard, AM 8-6430.
- TO JOIN car pool for Base kindergarten, morning session, from vicinity of Eubank and Menaul. Niper, AX 9-6290.
- USED UNICYCLE in good condition. Cave, AX 9-5066.
- RIDE FROM Snow Vista (West Mesa) or 2127 Isleta Blvd. SW to Gate 5 or 6. Margaret Weitzel, UL 5-9454.
- 3 MEMBERS to join car pool from vicinity of Comanche Rd. and Washington NE. Feldman, DI 4-6114.
- RIDERS to join car pool from vicinity 10324 Paseo Del Norte NW (Rio Vista) to vicinity bldg. 802. Dehon, 898-2219.
- WILL PAY \$500 cash for mechanically sound Volkswagens. MacCallum, AL 5-6363 before 7 p.m.
- BOY'S 24" bike w/coaster brake. Mason, AX 9-2836.

FOR RENT

- THREE BEDROOM HOUSE at 8116 Kathryn SE, 5 min. drive to Sandia Base. Gabaldon, CH 2-9601.
- LARGE 3-BDR. Roberson, carpets and drapes, stove and reffrig., very reasonable for long term lease. Levesque, 298-6598.

J. J. Dearing Will Retire After Service With WE, Sandia

J. J. Dearing will retire Dec. 31 after 20 years in the Installation Department of Western Electric Company and 11 years with Sandia Corporation. He is a staff engineer in Manufacturing Development Components Department 2540.



After retirement, he plans to move to his farm in southern Indiana and build a new home with a touch of the Southwest.

Mr. Dearing has so many hobbies or diversions that he figures he would have to "work" 16 hours a day, seven days a week, for over 35 years to carry out his plans.

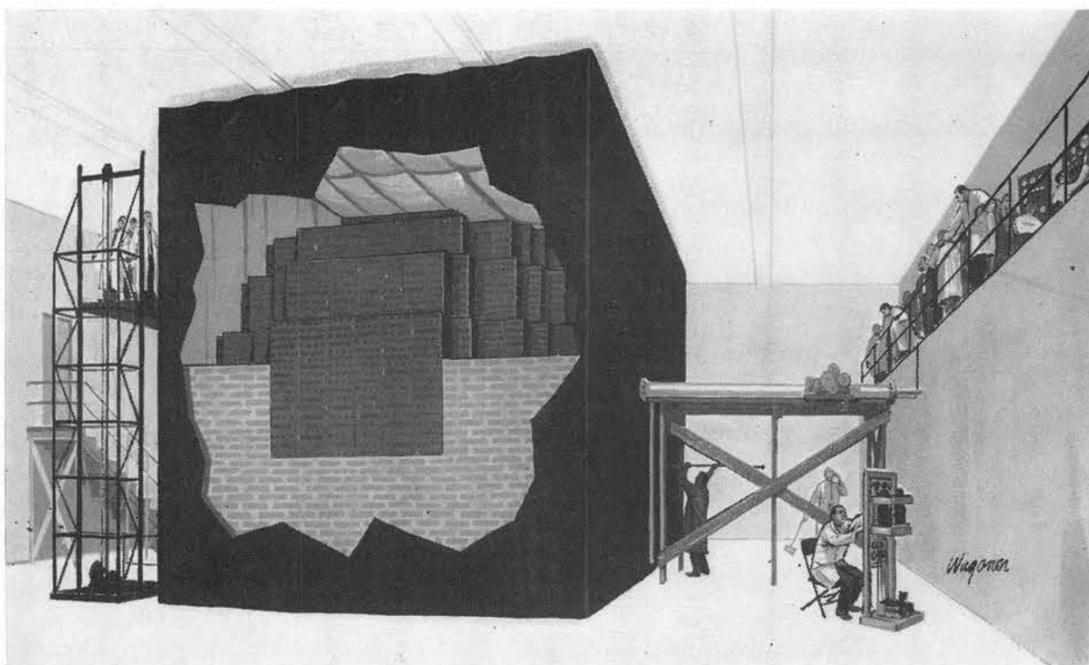
He already designs and fabricates furniture, electrical and mechanical gadgets; plays ping pong on a home-made table; makes ceramics using his home-made kiln; repairs radios and TVs for himself and friends; gardens; and is a jazz pianist.

In addition to the above, his Indiana farm provides opportunity for fishing and hunting.

Mr. and Mrs. Dearing and their daughter, Maxine, will move to Indiana. A second daughter, Diane, will remain in Albuquerque. She also works at Sandia in Division 3153.

Coronado Club Bowling Tourney Set for January

Entry blanks for the 11th annual Coronado Club Bowling Tournament are now available, according to H. L. Calvery (4632). The event will be held Jan. 19-20 and 26-27. Entry blanks are available at the club or from Mr. Calvery, ext. 54133. Bowlers must be club members to participate.



THE FIRST PILE — No pictures were taken under the West Stands, Stagg Field, University of Chicago, Dec. 2, 1942. Above is Artist Bill Wagoner's interpretation of the scene as man achieved the first self-sustaining chain reaction and thereby initiated the controlled release of nuclear energy just 20 years ago this month.

World's First Nuclear Reactor Went Critical December 2, 1942

One of the major events that ushered in the atomic age took place on Dec. 2, 1942 — 20 years ago. The enormous energy of the atom, calculated from the discovery of fission less than four years earlier, was brought under man's control.

At 3:25 p.m. that day, the world's first nuclear reactor "went critical"; that is, a controlled self-sustaining fission chain reaction was achieved.

Twenty years later — 1962 — there are several hundred reactors operating or being built in half a hundred countries. Chairman Glenn T. Seaborg of the U. S. Atomic Energy Commission affirms that more scientific pro-

gress has been made in these two decades than in all previous history of science.

Congress has appropriated more than \$30 billion to develop and operate the U.S. nuclear energy program. AEC appropriations for the 1963 fiscal year totalled \$3.1 billion.

The scene on Dec. 2, 1942, was the closely guarded racquets court under the University of Chicago's Stagg Field Stadium. The key figure was the late Dr. Enrico Fermi, brilliant Italian physicist, who led a team of nuclear pioneers to this success.

E. C. 'Terry' Riggan Died December 7

Funeral services were held Dec. 10 for E. C. "Terry" Riggan, who died Dec. 7 after a lengthy illness. He was 52.



Mr. Riggan was a Staff Member in Manual Preparation Section III, 2323-3, and had been employed at Sandia nearly 12 years.

Survivors include his widow, a son serving in the Navy, a married daughter residing in Albuquerque, two grandchildren, his parents in Philadelphia, and a sister in Levittown, N. J.

Promotions

W. E. Farrar, Jr. (4574) to Janitor
Ponciano Barela (4574) to Janitor
Laura Donna Kenna (3126) to Typist Clerk
Evelyn L. Crouse (7512) to Record Clerk
Joseph J. Fox (8214) to Stockkeeper
Joseph E. Buchler (8214) to Stockkeeper
Catherine E. Dyson (8212) to Typist Clerk
Bruce L. Larson (7246) to Field Test Technician
Cecil M. Lang (7246) to Field Test Technician
Eddy A. Moore (7246) to Field Test Technician
Sharon L. Daniel (5425) to Staff Assistant—
Technical
George H. Conrad (1122) to Staff Assistant—
Technical
James R. Perkowski (8243) to Staff Member—
Administrative
Cherry Lou Burns (3432) to Staff Associate—
Administrative
Thomas M. McMahon (4518) to Pipe Fitter
Maria C. Gomez (3126) to Stenographer Clerk
Edward J. Hodyke (3444) to File Clerk
Amy A. Miyaki (3126) to Secretarial
Stenographer
Evelyn D. Delaporte (3126) to Secretarial
Stenographer
Rachael O. Duncan (3126) to Secretarial Typist
Phyllis A. Wilson (3421) to Library Assistant
Bonita I. Bryant (3421) to Library Assistant
Juan R. Montoya (3446) to Document Clerk
Jane B. Dancy (3421) to Library Assistant
Robert A. Joseph (8232) to Pressman
Maria L. Jesse (8212) to Secretarial Stenographer
Augustin Pohl (4575) to Laborer
Gilbert Ramirez (4624) to Packer
Joe Ruiz, Jr. (8214) to Stockkeeper
Donald R. Rich (8232) to Bindery Operator
Eve J. Emerson (8232) to Production Release
Clerk
Beatrice A. Gardner (8242) to Record Clerk
Ruth E. Lighthill (5411) to Staff Assistant—
Technical
Louis H. Sanders (3311) to Staff Assistant—
Technical
Arthur L. Gregory (4611) to Stockkeeper
James C. Sanchez (4613) to Stockkeeper
Elfred G. Uliwarri (3126) to Secretarial Typist
E. Jane Lord (3421) to Library Assistant
Neil B. Gholson (3452) to Computer Facility
Operator

(The First Pile* by C. Alardice and E. Trapnell gives details of the tense days and hours that preceded the historic event.)

Few outside the racquets court knew what had happened or its significance. The United States had been at war almost a year. It was assumed that Hitler understood the potential of a nuclear fission bomb and was pressing its development. Censorship imposed in the United States by the scientists themselves in 1939 became a major operation to protect the most important military secret of World War II.

The U.S. crash program was managed by the Army's Manhattan Engineer District (MED), wartime predecessor of the U.S. Atomic Energy Commission. All available U.S. resources were being mobilized, with important help from Great Britain and Canada, to win a technological race that might decide the outcome of the war.

The Fermi success came at one of the many crises in the project. To make a bomb, fissionable material in pure form had to be manufactured on an industrial scale. One such material was the naturally fissionable uranium isotope 235 (U-235) but efforts to separate it from the abundant uranium 238 (U-238) were going badly.

The other possibility was the manmade fissionable element, plutonium, discovered in 1940 by a University of California team led by Dr. Seaborg. Its bomb potential had been confirmed. Pounds were required. The available supply was in millionths of an ounce produced in a cyclotron. A machine that could control the bombardment of natural uranium with neutrons to manufacture plutonium in quantity was a crucial need. The crude Fermi pile of natural uranium and graphite gave the answer.

*Nuclear reactors were called "atomic piles" in the early days, a term descriptive of layers of graphite interspersed with uranium piled one upon the other until sufficient fissionable material was present to initiate a nuclear chain reaction.

Supervisory Appointments

M. MARGARET PLATT to supervisor of Secretarial Section 3126-3, Secretarial Services Division.



Margaret has been at Sandia eight years. During this time she has worked as a division secretary, editor in the typing pool, and in recent years has been in charge of office procedures for Administrative and Personnel Methods Division 4112.

Before coming to Sandia, she was secretary to the manager of the AAA office in Albuquerque for a year.

Margaret attended Colorado Woman's College and graduated from Adams State College with a BA degree in history and social science.

She is a member of the Society of Technical Writers and Editors.

JOHN M. WIESEN to manager of Reliability Department 1440, Electronic Components Development organization.



During 12 years at Sandia, "Jack" has worked in his present organization except for a brief period with the Statistical Research Division. He was promoted to section supervisor in 1951, and division supervisor in 1956.

Prior to coming here, he was attending Iowa State University where he received a BS degree in mathematics and a MS in statistics.

He served in the Navy from 1942 through 1945.

Jack is a member of the American Statistical Association, the American Society for Quality Control, and Pi Mu Epsilon, honorary society.

R. L. LEVESQUE to supervisor of Photo and Optical Section 7246-7, Tonopah Test Range Division.

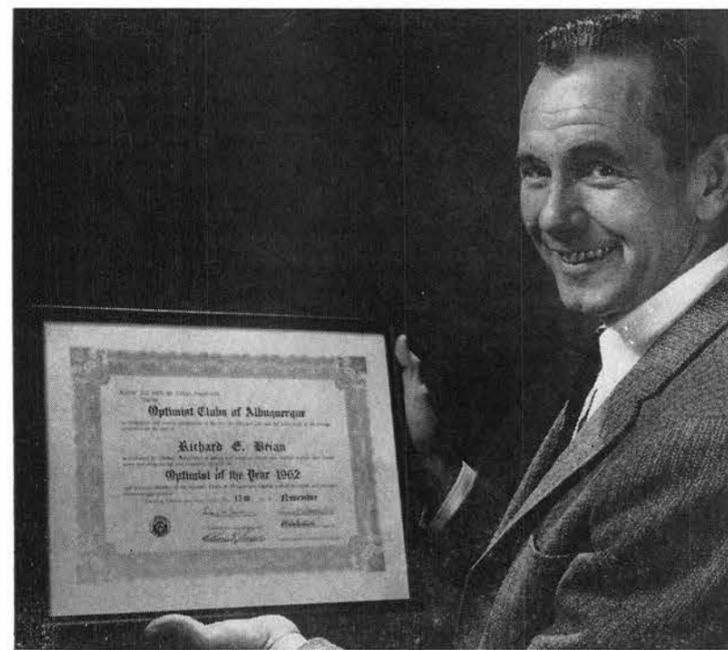


"Mike" has been at Sandia four years; for three years he was with Engineering and Meteorology Section 7243-1, and for the past year at Nevada Test Site with Nuclear Test Department 7250.

Previously he was a forecaster with the U. S. Weather Bureau in Albuquerque.

He attended the University of New Mexico for two years and graduated from Pennsylvania State University with a BS degree in meteorology. He is a member of Tau Beta Pi, honorary society, and the American Meteorology Society.

Mike was in the Army for two years and, upon recall during the Korean conflict, served four years in the Air Force.



OPTIMIST OF THE YEAR, Richard E. Brian (2633-2), displays award presented to him by the Optimist Clubs of Albuquerque, Nov. 15, for his outstanding work with local members of Boy Scouts of America.

Service Club Bestows Much-Deserved Award on Sandia Man for Scout Work

Richard E. Brian (2633-2) has been selected Optimist of the Year by the Albuquerque Optimist Clubs. The award, presented Nov. 15, is given each year to the Albuquerquean who has done outstanding youth work during the year.

Dick received the award for his work in scouting. He started with Troop 166—a small scout troop of eight boys—about three years ago. Today, his troop roster shows more than 130 boys. It's been recommended that the troop be split, but Dick's scouts won't tolerate it; their devotion is too great.

At the last bi-annual Scout Camporee, all of the patrols in Dick's troop received top honors in scouting skill tests. Last year, they had 71 advancements in rank and they issued 137 merit badges. This year, they've had 69 advancements

and have issued 243 merit badges.

As scoutmaster, Dick accompanied a group of scouts to an international gathering in Mexico in 1961 and 1962. He devotes additional time to leadership and adult training programs, and advises the Order of the Arrow, a national scouting fraternity. He also holds the Scouter's Key award.

The citation for Dick's "Optimist of the Year" award reads in part "... Dick is the epitome of good leadership in the greatest youth movement in the world today." He is the seventeenth person to receive the award since it was begun in 1946. "It wouldn't have been possible without the excellent participation and support I received from the parents and troop committee," Dick commented.

Sandia's Safety Record

**Sandia
Laboratory
HAS WORKED
2,890,000 MAN HOURS
OR 80 DAYS
WITHOUT A
DISABLING INJURY**

**Livermore
Laboratory
HAS WORKED
567,367 MAN HOURS
OR 109 DAYS
WITHOUT A
DISABLING INJURY**