

SANDIA BULLETIN

Vol. V, No. 22 SANDIA CORPORATION, ALBUQUERQUE, NEW MEXICO OCT. 23, 1953

Corporation Red Feather Drive Reported Past \$37,600 Mark

Sandia Base Officer Will Tell Engineers Of 'Realistic Approach' to A-Bomb Blast

The radiation effects of the atomic bomb have been distorted and exaggerated by many publications, according to Captain Hal C. Kinne, a nuclear chemist and master of



Captain H. C. Kinne
"... in its proper place"

ceremonies at indoctrination lectures of the Nevada nuclear tests.

In a talk "Put the Atomic Bomb in its Proper Place" Capt. Kinne

will discuss what he terms "a realistic approach to the entire problem."

He will speak at a meeting of the Albuquerque chapter of the New Mexico Society of Professional Engineers, Sandia Base Officers Club, Oct. 28, 8:30 p. m.

Infantry Officer

Captain Kinne, a member of the Armed Forces Special Weapons Project here at Sandia, spent three and a half years in the Infantry during World War II, and commanded a rifle company in Europe when the war ended.

After leaving the service he earned a B.S. degree in nuclear chemistry and in 1949 was recalled into the regular Army to serve with the Chemical Corps.

He came to Sandia Base in April of 1950 and has been the M.C. at all the Nevada tests.

"Target Nevada"

The meeting will also feature a film, "Target Nevada." A social hour will start the evening at 6:30. Dinner will be at 7:30 and Capt. Kinne will speak at 8:30. Reservations are being handled by David Lloyd, Alb. 5-8916, during the day and Kenneth Overby, 1312, Alb. 5-7788, is taking evening calls.

Total contributions of Sandia Corporation employees, the Corporation itself, Anderson-Dunham Co., and the Coronado Club have passed the \$37,600 mark. Approximately \$32,550 of this amount was contributed by the employees and the balance was made up by a \$4,500 gift from Sandia Corporation, Anderson - Dunham's gift of \$325 and the Coronado Club's \$250 contribution.

Community Chest Chairman R. J. Hansen has estimated that less than 280 employees are yet to be contacted for their pledges.

Mr. Hansen has expressed his personal thanks to his fellow employees for their cooperation and generosity in the 1953 Red Feather Drive.

"The initiative displayed by our employees in planning the campaign and their vigor in executing it are highly commendable," Mr. Hansen said.

When all solicitors have turned in complete reports the final total in pledges and contributions will be announced. Those remaining to be seen were not working during the two-day concentrated drive.

Published elsewhere in this issue of the SANDIA BULLETIN is a list of all employees who served as volunteer solicitors for the campaign.

Sandia Blood Donors Give Red Cross Bank 358 Pints Wednesday

Sandia Corporation employees have again answered the call for blood donations to the Red Cross blood bank. Approximately 430 employees responded to the request for donors and registered with the Employee Services Department. From these volunteers, the Red Cross received 358 pints of blood.

Robert Knudson, 3125, in charge of scheduling donors, reported that this week response set a new high for the company's employees.

In January, 1952, Sandia Corporation donors gave 335 pints of blood, in July they gave 293, and in December, 352.

Magicians Conjure For Benefit of Guests At October Meeting

It will be guest night when the Albuquerque Magicians Club, Ring 90, meets Friday, Oct. 30, at the home of Fred Darugh, 8807 Menaul Avenue.

Members are invited to bring their wives and friends for an evening of magic entertainment. Plans will also be made at the meeting for a Friday the 13th party to be held at the Franciscan Hotel on Nov. 13.

Club sent milk — and the Ingrams made him comfortable and happy.

On Oct. 16, the final adoption papers for Tim were signed.

Modest Folks

The Ingrams don't talk much about their charitable acts, but their friends are aware of them and they're proud of Bill and Betty Jane.

"You just don't meet folks like this very often," one of them told the BULLETIN recently. "They're constantly helping people. Now when I have outgrown clothes to give away I just call Betty Jane — she always knows of some family that needs them badly."

As we said before, the Ingrams don't preach, but they certainly practice.



To Sandia Corporation Employees:

My three years association with Albuquerque Community Chest campaigns has impressed me with the willingness of the residents of the Albuquerque area to contribute to the support of the Red Feather agencies. And especially gratifying has been the generous, spontaneous and whole-hearted response of Sandia Corporation employees in the campaigns.

The spirit and speed with which your solicitations have been conducted is an inspiration to other volunteer solicitors who canvass the downtown area. The splendid contribution you have made in this year's campaign goes a long way toward meeting our total 1953 goal.

On behalf of the Albuquerque Community Chest, I wish to congratulate you on your well-organized campaign and to thank you for your generous support of this vital community activity.

A. M. CADWELL
President
Albuquerque Community Chest

Gen. K. D. Nichols Appointed New Manager of AEC

Maj. Gen. Kenneth D. Nichols, a long-time expert of atomic weapons and former chief of the Armed Forces Special Weapons Project, has been appointed general manager of



Maj. Gen. Kenneth D. Nichols
"... long time expert"

the Atomic Energy Commission effective Nov. 1.

General Nichols will succeed Marion W. Boyer who is returning to private business. Mr. Boyer took the post for a three-year term in November, 1950. He is vice-president of the Standard Oil Company of New Jersey.

Currently on duty in Washington as the Army's chief of development and research, General Nichols will retire from military service when he takes the new post.

As district engineer for the famous Manhattan Engineer District, he was in charge of the design, construction and operation of all plants used in the production of plutonium and uranium-235, including the construction of the towns of Oak Ridge, Tenn., and Richland, Wash.

In 1950 he became deputy director of development and production of Army, Navy, and Air Force Guided Missiles.

Meteorologist Set To Lecture AMS

American Meteorological Society will hear Dr. C. E. Buell, associate professor of mathematics at the University of New Mexico, speak on "Some Relations of Atmospheric Statistics" at a meeting Friday, Oct. 30, 7:30 p. m., at room 253 of the University administration building.

The election of officers for the coming year will also be featured at the meeting, according to Herbert J. Plagge, 5242, Society chairman.

Dr. Buell has been on the University faculty for eight years. Previously he was chief meteorologist for American Airlines, later an employee of Sandia Corporation and has recently functioned as a consultant to the Corporation.

Sandians who are members of the Society include: Robert Hendrick, Lawrence B. Smith, Albert T. Marrs, Robert E. MacArthur, all of 5242, and B. N. Charles, Jack Reed, C. R. McAllister, all 5132, and Everett F. Cox, 5110.

Radio Operators On Base Required to Have Identification

Amateur radio operators who operate on Sandia Base are being reminded by military officials that they must be issued an Amateur Radio Operator's Identification Card which is to be renewed annually.

Application forms for the ID cards may be obtained from S. S. Castoria in the Badge Office in Room B-3 of Bldg. P-201, Base Headquarters.

Office hours are from 7:30 a.m. to 12 noon and 1 p.m. to 4:30 p.m., Monday through Friday.

Jewelry Design Talk For Rockhounds Club

"Jewelry Design and Construction" will be the topic when the Albuquerque Rockhounds Club meets Monday, Nov. 3, at 7:30 p. m. at the Church of Christ recreation room, 5th and Marble Ave.

The speaker will be Mrs. Robert Hooten, co-proprietor of the Workshop Originals store in Old Town, reported club president Ralph Calvert, 5132.

Generosity Has Become a Big Hobby With the Happy Bill Ingram Family

It's Christmas all year 'round in the big heart of the Bill Ingram family.

You might say they have a hobby of helping the less fortunate, or that they have a particular penchant for knowing where help is needed—sort of a benevolent radar set-up hinged on sincerity.

Building Home

The Ingrams are a happy Albuquerque family. Bill works in 2121-3, his income goes to support his wife, Betty Jane, their three daughters, Diana, 11; Shirley, 9, and Terry, 5, and their adopted son, Timothy Eugene, now one year old.

Bill's paycheck goes toward building his own home in the valley, too, and for creating a comfortable rental unit out of the smaller building on his property. But somehow he and Betty Jane have stretched their budget to include much more than just their own family's needs.

At the present time they are helping a young husband and his wife get a start, clothing the couple's infant, and aiding them until the husband, who is ill, can provide for the family who moved here recently from out-of-state.

Christmas Work

Last holiday time the Ingrams had their own Christmas, then outfitted a family of eight with clothing and took three food baskets to them.

There is the story in Timothy's adoption—but more of that later.

Usually a limit of financial aid to others is quickly reached, but the Ingrams don't stop there. Betty Jane spends many days repairing clothes contributed in the city schools' clothing drives; she's chairman of the Stronghurst school drive for needy children. Both she and Bill are active in the Parent-Teachers Association.

Betty Jane spends so much time



Photo by Hodges

Timothy Eugene Ingram
"... lots of loving care"

at the headquarters where the clothes are repaired that she simply leaves young Timothy's playpen there to save "carting it back and forth."

Timothy Flourishes

Roly-poly Timothy Ingram has made tremendous strides the past year under the loving care of his adopted parents. There was a time last November when the doctor didn't hold much hope for the thin little baby Betty Jane brought home to feed temporarily.

His parents and older brothers and sisters were in a bad fix and the call for help had gone out from all the local radio stations. Betty Jane took clothing to the needy family and enlisted the aid of the Salvation Army and others. The doctor donated his services for this "Tiny Tim" and gave the baby large quantities of free vitamins. The Lions

SANDIA BULLETIN

Friday, October 23, 1953

Published for the employees of Sandia Corporation, Albuquerque, New Mexico

Editor, Robert S. Gillespie
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Telephone Ext. 25253



"I Am a Happy . . . a Wealthy Man"

One day last year, a grateful American citizen sat down and wrote a letter to the editors of the Indianapolis Star. He had something on his mind and in his heart that he wanted to express through the columns of the biggest newspaper in the state. Here is the letter written by Elmer Supinger:

"I am an industrial worker, have been one all my life. I have had but one employer for the last 25 years, the Chrysler Motor Corp., New Castle plant. I have a trade I have followed for 40 years, a hard, hot, hazardous job. I have loved my job. I have always been well pleased with the treatment I have received from my employer.

"I have raised a family of eight children in this city and have had a lot of ups and downs in my time, just as many downs as ups. I own my own home, not much else of these earthly goods do I hold title to.

"This is why I class myself as a common man, with half of our adult population in my class, so to speak. Yet I am happy. In my estimation I am a wealthy man. When this class of our people thinks of wealth they do not think deep enough. My family that God has given me is worth more to me than any or all earthly goods. For that I am thankful. I am thankful that I live in the country whose economic business system has given me so much to enjoy.

"When most common men think of wealth they think of the Fords, the Mellons, Rockefellers, R. J. Reynolds, du Ponts and many others. These so-called wealthy men do not hold this wealth if we know what wealth means. I enjoy the use of this wealth they have brought forth, and distributed.

"The automobile pioneered by Ford, and many others; my radio, the comfortable things in my home, all were made possible by these men and the wealth they made from them. These men, most of them, are gone from this earth. The wealth they produced is still here. They did not take that with them. I now hold title to some of this wealth by paying for them. We enjoy our fine streets and highways, our police and fire protection. All of this we pay, too, as we use them, through taxes.

"We should thank God for planting in the minds of some of our great men the foresight to conceive and formulate such a system that has made this the wealthiest nation on earth, and at the same time kept us free men. This national wealth is enjoyed by rich and poor alike. Each and every one of us should be thankful for and protect a system of government that has made it possible for our people to use this wealth.

"Let us stop preaching boss hatred. Let us stop calling the great producers of good things parasites. Let us praise their accomplishments and be thankful for a system of government that has made it possible for us to use and enjoy that wealth. I hope this will change the way of thinking of some of our people who think in their own mind and hearts that they are the underdog in our society.

"Let them take stock of just how wealthy they are. Let us make and keep them free men, free to express their own opinion, free to vote as they please. If we can do that we have no fear of Communism or Socialism as a concept of government, replacing what we have."

This letter has been reprinted by several industrial publications of the country. The editor of The Threadline, magazine of du Pont's Seaford, Del., Nylon Plant, added this footnote: "Eight months after his letter was printed, Mr. Supinger and his wife were 'gone from this earth,' killed in an automobile accident. This 'wealthy man' left a legacy for all Americans—in his letter."

Doris Oberdeck, 5133, flew to Cleveland, O., for a fall holiday; Wayne Davis, 5133, and his wife and son visited in Kansas, and Betty Frost, 5131-1, visited her parents in Durango, Colo.

Tim Butler, 1524, is still showing the effects of his vacation last month—a mustache has been added. Bill Leslie is finally enjoying his oft-postponed vacation from 1524 in Clovis, N. M. October 30 will see Don Grisham, 1524, off for the Navy.

Vacation days for Opal and John Tenbrink, 4222 (5240) and 1283-1, were spent in Mexico City and Aca-pulco. Along with sightseeing they went to a bullfight and enjoyed a fishing trip—John's 75-pound sailfish made the trip doubly interesting!

Myron W. Barnes, 2512, and his wife visited scenic spots in New Mexico recently while entertaining guests from out-of-town.

Fred Collatz, Sr., 2335, and his wife are back from a trip to Minnesota, Illinois, and Iowa. Frank R. Snyder, 2335, spent a week's vacation at home in Placitas where he "gathered in the winter's wood."

Walter H. Burns, 2223, spent his recent vacation at his home in Albuquerque.

A visit to Bethany College, Linds-borg, Kansas, was enjoyed recently by Sten Persson, 5424-2, and his wife. It was the first time in 30 years that Sten had visited his former school. He and Mrs. Persson were feted at several dinners and parties by their friends at the college.

The colorful splendor of the fall season is drawing many of our Sandians into the wide outdoors for a look at old Mother Nature's handiwork. Bill Thomas, 1632-1, Jim Jiral, 5421-3, and their wives, traveling to Twining, N. M., recently to visit Kit Carson National Forest's bright aspen, and from Twining the group hiked to Goose Lake. The Jirals also spent their vacation sightseeing at Mesa Verde and Colorado Springs. John Leslie, 1632-1, and Ben Evans, 1633-1, spent a recent weekend at Baldy Lake in the Pecos country, combining hiking and fishing.

Jack Ames, 5423, initiated his new camera recently, taking color shots on a trip to the Grand Canyon, Mesa Verde, Zion and Bryce Parks. Enjoying the Red River country over a weekend were Gwen Roberts, 5423, and her husband.

Pearl Rauch, 5421, and Don, 1512, spent their vacation at home putting in a lawn, seeing the State Fair, and entertaining relatives.

Frank Sandoval, 5423, and his family enjoyed an extensive trip through eastern and southern states recently, "rubbernecking" aplenty at lots of scenic spots. Highlights of their trip included visits to Washington, D. C., and New York City. They saw "South Pacific" and witnessed a baseball game at Yankee Stadium, and then went on to visit Miami and New Orleans.

Dorothy Current, AEC, became a grandmother, Sept. 27, when her son, Ensign Neal Current of Miramar, Calif., notified her that a six-pound, 10-oz. baby girl had just joined the family. Neal has many friends at Sandia.

Now that Bob Buehler, 5133, is back from three months leave for special work at the University of Wisconsin, the noontime tennis games have been resumed by this foursome: Bob, Warren Taylor, 5143, Alan Pope, 5141-1, and Don Robbins, 5133.



HAPPY HALLOWEEN to you too. This photograph contributed by Bill Laskar, Sandia Laboratory photographer, goes to remind us that next week is Halloween and the lid's really off.

Cliff Taylor was welcomed back to the job last week after hospitalization owing to surgery.

And another surgical patient, Joe Roof, 2121-3, is wished a speedy recovery by his co-workers.

Allen Hall, 2124, and his wife vacationed at Las Vegas, then continued to the west coast where they visited San Francisco, Los Angeles, and San Diego, returning via the southern route.

Flavio Gonzales, 2121, vacationed in northern New Mexico and Colorado, and John Tillman, 2121, spent a leisurely holiday "just staying home," he reports.

David Miller, 1932-1, left October 16 to join the armed forces.

Around the Departments



Photo by Hodges

"SAY, WHAT'S THIS HALLOWEEN BUSINESS ALL ABOUT?" "Well, they say it's the time for goblins and witches" "I suppose we'll have to go to bed early and miss all the fun." "No, we can tear this pumpkin to pieces anyway . . . I think I'll begin right now."

(Getting a head start for their first Halloween are the nine-months-old twins, Neil, left, and Mary, the children of Neil Hansen, 3154.)

His friends in 2334 send their best wishes to Bruce G. Scott, who is ill at his home. Welcomed back after a two week illness was G. C. Renfro, 2334, and still on the sick list is 2334's Clem M. Dixon.

E. B. Bergquist, 2321, spent two weeks visiting his former home in St. Paul, Minn.; Edyre Hanna, 2362-3, vacationed at home after a short trip to Elephant Butte Dam; C. E. Anderson, 2323, spent his two weeks vacation moving into his new home in the Snow Addition. Helen Besser, 2320, visited relatives in Colorado for a week. Another Colorado vacationer was E. C. Pace, 2312.

J. W. Wistor, 5233, and family are back from a vacation with relatives in Bakersfield, Calif.; E. L. Johnson, 5231, and his wife are in Iowa visiting for two weeks; sporting a new two-tone Polar White and Dark Blue Oldsmobile 98 Holiday Coupe is 5231's John Morrison.

Among new home owners are Michael Hanrahan, 2232, residing at 1147 Marion Circle NE, and Eugene Monahan, 2234, who lives at 1610 Utah St. NE.

Sam Smith, 2232, has returned from a three weeks' visit to Missouri and Arkansas; James Reck, 2231, toured the Grand Canyon and visited Las Vegas and California during his vacation.

Taking turns going to Boulder, Colo., weekends to see their first grandchild are Robert T. Bennett, 2414-1, and his wife. Their daughter, Mrs. M. S. Knudsen, became the mother of a nine-pound son, Mark Steven, Oct. 1.

Happily located in the family's new home in the Snow addition is Jackie Hynes, 2463, and her husband and family. Charles Spriggs, 2463, took his vacation and stayed at home—just resting.

the way we heard it

Of Blood and Money

Elsewhere in this issue are separate stories on the record breaking generosity of Sandia employees in contributions to the Community Chest and their eagerness to volunteer as Red Cross blood donors.

When the Blood Bank visit came so soon after the Red Feather campaign it was feared that the response might be light, but the number of volunteers again exceeded the time available to us.

It proved that Sandians are a stout hearted as well as kind hearted group of people and it makes us proud to be a member of the "gang".

Saturday Nighters?

The Coronado Club entertainment committee, headed by Gene Newling, 6010, believes a majority of the nearly 2,000 members want a dance with live music every week-end and the committee is trying it out this month and next. The Halloween costume party next Saturday is the finale for the

month and the committee has requested that costumes be in the spirit of the occasion. The prizes will go to those who are the most "Halloweeny."

Short Work Time

You'll have to work faster to get everything done next month. With two holidays and five Saturdays there are only 19 working days. February is the only other month not having at least 20. It all evens out, though, with 22 in September and December, too, with Christmas off.

September Song in October

Things that make us feel our age: the revival of "knock-knock," "handies," and "little moron" gags . . . the circus coming and no free tickets to the kids for watering the elephants . . . disc jockies hailing a song of our high school days as a "brand new hit" . . . the insidious trick of builders in making flights of steps longer and steeper.

Top Quality Strategy Pays Off When Sandians Drop Antelope at 100 Yards

Lou Pinger and Bill Shively had spent two grueling days hunting antelope when on the morning of the third day they topped a rise and sighted a herd off to one side.

Antelope, incidentally, have eyes equal to seven or eight power telescopes and they've been clocked at speeds of 60 miles per hour. The country they range offers very little cover and this combined with their sight and speed makes it a good trick indeed to get anywhere close to them.

Travel by Jeep

Lou and Bill, on their first antelope hunt, went to the Libby Ranch near Mosquero, N. M., for the special season and during the previous two days they'd evolved a hunting plan. They were using Bill's Jeep and whenever they spotted antelope, Lou would drop off and Bill would drive on a mile or so, then they'd try to flank the animals and flush them toward one or the other.

This time they again went into their routine. Bill drove ahead and Lou crawled toward the herd. The Jeep startled the herd into action but they headed away from both hunters. Bill stopped, gauged the way they were running and fired a shot.

100-Yard Shot

With the sound of the rifle, the big buck leading the herd veered toward Lou! When he was 100 yards



"Lou Pinger and friend"

away, Lou fired but seemingly without effect. The buck tore on for another 300 yards, then suddenly dropped in mid-stride.

When Lou and Bill reached him and looked him over, they found the .270 caliber bullet had destroyed the antelope's heart. Yet he'd run that way for 300 yards!

Antelope Hunter

Another successful antelope hunter from Sandia was Herb Jewett, 2124-1. The season opened at noon, Oct. 2, and Herb had his antelope by 12:30 p. m. and was ready to head for home. He hunted in the Manzano area.



WINNING TOUCHDOWN of the Sandia Employees game with the 550th Avn. Sqdn. was scored by Roland Kurth as he snagged Harold Cushman's pass in the end zone for the tally. Sandia Employees won 13-6.

Grid Team Wins 5, Loses 2, Ties Once In Military League

Sandia Employees' touch football team wound up a successful season by upsetting a strong 550th Avn. Sqdn. team last week by a score of 13 to 6. The Sandia gridders' season record is five wins, two losses and one tie.

Harold Cushman accounted for all of the Sandia Employees' scores by passing to John Foster and Roland Kurth for the TD's and to Larry Callahan for the extra point. The 550th's lone score came in the opening seconds of the second half when "Whitey" Simmons, the 550th's fleet scatback, returned Kurth's kickoff 90 yards for the touchdown.

A Sandia Base tournament follows the regular touch football season. The Sandia Employees will not participate in the tourney, however, since only military teams are eligible. Winner of the tournament will represent Sandia Base at the Fourth Army Meet.

Ghosts, etc., Primed to Haunt at Annual Coronado Club Halloween Costume Ball

Do you have a secret desire to be a vampire?

A pirate?

A sultan?

Be a Hero—or a Villain

Now's your chance. The Coronado Club's Halloween Costume Ball on the 31st is going to feature costumes, costumes, COSTUMES! Pick the role you'd like to play best and then play it to the hilt—not only will it be fun but there'll be prizes for all kinds of costumes.

Dick Strome, 2463, who is staging the ball, has announced that there will be three big prizes. One for the best man's costume, one for the best woman's costume and one for the best couple's costume. Judging will be based on originality, time and work put in on the costume, and appropriateness.

Mystery and Adventure

Decorations, Dick promises, will be calculated to remind you of "... a festive graveyard." The highlight of the decorations will be a secret entrance to the Club replete with chills and thrills. Directions to the secret entrance will be given to those with courage and strong hearts.

The lady of the house can relax on

this night of all nights, too. She won't have to bother fixing a meal for the family—the Coronado Club will do it for her. The dance is free to members, \$1 per guest. Dinner is \$2.25.

Remember: the annual Halloween Dinner-Dance starts at 7 p. m. and the music by the Air Force Dance Orchestra will last 'til 1 a. m.

Gun Club Members to Teach Teen-Agers in Handling of Weapons

The Teen-Age Gun Club, founded, sponsored and instructed by the Circle 10 Gun Club, an organization of company security inspectors, will undergo a reorganization at a meeting Monday night, 7:30, at the Regina Coeli Church, Carlisle and Menaul Aves., according to Jim Lossing, 2452.

Last year there were 18 active members of the youngsters' club and this year they're aiming at a membership of 35 teen-agers. The children of Corporation employees are invited to the meeting.

The purpose of the club is to teach youngsters safe handling of weapons. Instructors from the Circle 10 Club are Sabino Garcia and C. B. Kraus, both 2452.

Women's Bowling

In the "3-6-9" Tournament held by the Women's City Bowling Association at Chaplin Alleys, Sandian Marian Muchowski was the winner with her series as follows: 197, 208, 232—handicap 86 pins for a total of 723.

Here's the Situation in

Sandia Employee Bowling

LADIES' JEWELLETTE LEAGUE

Team	Won	Lost
Emeralds	11	5
Zircos	10 1/2	5 1/2
Onyx	9	7 1/2
Sapphires	8 1/2	7 1/2
Turquoise	8	8
Garnets	8	8
Diamonds	4	12
Jades	4	12

Team and Individual

High team series: Emeralds, 2186.
High team game: Sapphires, 770.
Individual high series: Ricard, 570.
Individual high game: Engels, 212.

Top 10 Averages

Ricard 174, Hainlen 153, Muchowski 146, Fauerbach, Hahn 145, Engels 144, Masak 142, Fink 138, Milligan 134, Burg 133.

JUNGLE LEAGUE

Team	Won	Lost
Wildcats	15	5
Lions	13	7
Mustangs	12	8
Gophers	9	11
Lobos	9	11
Panthers	9	11
Bears	7	13
Rabbits	6	14

Team and Individual

High team series: Wildcats, 2497.
High team game: Wildcats, 862.
High individual series: Butler, 564.
High individual game: Paxton, 224.

Top 10 Averages

Allman 179, Clyde 174, Duffield 173, Stradford 172, Sandian 170, Butler 163, Northrup, Dietrich, Atkins, Coppola, Kennedy 160.

ALL STATES LEAGUE

Team	Won	Lost
Wisconsin	15	5
Michigan	12	8
Iowa	10	10
Oklahoma	10	10
Indiana	10	10
New York	9	11
Illinois	7	13
California	7	13

Team and Individual

High team series: Michigan, 2393.
High team game: New York, 874.
High individual series: Allman, 557.
High individual game: Allman, 232.

Top 10 Averages

Scharpen, Allman 170, Fellows 169, Engels 167, Smith, Schultz 163, Henning 161, Guntrum 159, Muchowski 158, Little, Kadlec 157.

MAJOR LEAGUE (DOWNTOWN)

Team	Won	Lost
Arrow	16 1/2	7 1/2
Sowell	16	8
Jacks	15	9
Paris	13	11
Neds	12	12
Strombergs	12	12
P-W	12	12
Hassebroek	11	13
Mackey	11	13
Neis	9	15
Rhodes	8 1/2	15 1/2
Nospon	8	16

Team and Individual

High team series: Sowell, 2487.
High team game: P-W, 869.
High individual series: Sparger, 581.
High individual game: Aterburn, 215.

Top 10 Averages

McKinley 173, Beezley 172, Kerl, Callahan 170, Duffield 168, Arterburn 167, Rowe, Gasta, Frantz, Johnson 166.

INDIAN LEAGUE

Team	Won	Lost
Zuni	10	2
Apache	10	2
Navajo	6	6
Mohawk	6	6
Hopi	5	7
Sioux	5	7
Potawatomi	4	8
Blackfeet	2	10

Team and Individual

High team series: Zuni, 3137.
High team game: Zuni, 1038.
High individual series: Bahlman, 683.
High individual game: Horne, 266.

Top 10 Averages

Abbott 190, Nendell 187, Glaze, Maxwell 170, Mead, Bahlman, Horne 169, Lloyd 168, Taylor 166, Repetti 163.



SANDIA EMPLOYEE GRIDDERS line up for a photo during the half of their final game of the 1953 season. Front row, L to R, are: John Foster, Owen Buck, Harold Cushman and George Hildebrandt. Back row, L to R: Larry Callahan, Tony Garcia, Roland Kurth, Einar Forsman, Bob Neeld and Milt Jones. The Sandians finished the season with 5 wins, 2 losses and one tie in the Military Touch Football League.



THE WHITE SOX, champions of the 1953 Sandia Employees Softball Tournament, posed in the lobby of the Coronado Club after they received their trophy. Standing, L to R, are Dick Smith, Willard Rappleyea, John Von Dreele, Mel Ortega, Lew Hake, Max Gasta, Al Hoge and John Bryson.



JOHN E. PARKER, 5216, right, and his son, Harvey Ray, went antelope hunting in the Beaver Head area the weekend of October 11 when both were fortunate to receive special permits. They were accompanied by Dale L. Fastle, 5216, who didn't receive a permit this year but who went along to shoot pictures instead of antelope. Above photo of the Parkers and their antelope was taken by Dale.



Photo by Hodges

ISA AND IRE OFFICIALS gather at the Coronado Club prior to a recent joint meeting of the two technical societies. L to R: Al Gruer, ISA chapter president; Gene French, IRE Section chairman; R. Karl

Honaman, Bell Telephone Labs director of publications and speaker of the evening; James W. McRae, Corp. President and international chairman of IRE; Timothy E. Shea, Corp. Vice-President and Gen'l Mgr.

MORE Around the Departments

Polly Reynolds, 2463, went to the west coast for her vacation—visited Las Vegas on the way, then went on to California. Also vacationing in the west, with a stop at Las Vegas, was Frances Meek, 4222-5.

A long three-week vacation auto trip through California was enjoyed by Dawn Calek, 3151, and her husband. Mary Alice Duran, 3152, also went to California for her vacation.

Personnel of 2440 met for the organization's annual party at the Jack Meister home recently. Jack prepared the bar-b-que ribs and everyone else pitched in on the preparations and clean-up.

Estelle Muses, 1923-4, vacationed recently at Taos and Gallup.

Iris M. Hardy, AEC, recently announced the engagement of her daughter, Ann, to Edward J. McCartney, Sandia Base. The wedding will be November 15 at the First Congregational Church, Albuquerque.

When Betty Tatum, 3160, tells you she's having a one-cent sale on puppies, she isn't kidding. Her dog, "Tiny," produced nine pups of a "this 'n' that" variety, and her pet cocker, "Mitzie," presented eight registered canines. Betty's looking for good homes for all of them—says she's dog tired!



LOTSA man—lotsa fish. Here's Perm Dwyer, 2123-7, showing Southwesterners the string he caught recently while vacationing in Vermont.

Her co-workers wish a speedy recovery and a quick return to work for Bee Lawyer, 2561-2.

The Andy Coar family is now established in their new home at 1120 McKee Dr. NE. Andy is in 2561-3.

Percy Stephens, AEC, is vacationing in the home state of Mississippi, where he'll return to his alma mater for a visit.

R. L. Book, AEC, is vacationing at his home in the valley, and D. R. King, also AEC, took his family on a week's jaunt to visit relatives in Colorado.

They named him "Lucifer"—he's just a tiny stray black kitten with white feet and white whiskers, but Jim and Jane Gallagher are so proud! They found him in Santa Fe when they were there recently for a weekend. Jim, who works in 2121-3, says "Lucifer" has already let it be known his favorite food is chicken livers.



INTRODUCING Eric Gunderson who celebrated his first birthday September 12. The handsome youngster is pictured with his mother, Margaret, 2450. His daddy, E. L. Gunderson, works in 2331.

Hurry and get well wishes are sent to C. E. Luker, 2417-2, from all the gang in 2410. He's been ill for several weeks.

Marcella Dunkelberger, 2410, spent a pleasant two weeks vacation at home entertaining her mother and brother from Kennett, Mo. David C. Hake, 2419, and his family enjoyed an exciting two weeks in Los Angeles. J. Hardin Simmons, 2410, says he tried to catch up on all the home chores that just wait for his vacation, and C. H. Crass, 2415, took his wife and young son back to visit the home folks in Tennessee.

Gene Mead, 1631, visited recently with his parents at Cheyenne, Wyo.

Spending his spare-time hours building an addition to his home is 2452's Walter Smith.

Pat Scoggins, 3162, visited friends in San Francisco during her two weeks vacation. Also visiting relatives during a recent vacation was 3161's Grover Edwards, who went to Michigan and Ohio.

Back from a vacation in "Colorful Colorado" is Kenneth Bennet, 1923; Ethel Taylor, 4222 (1521), vacationed in Michigan this fall.

Leaving November 1 for a vacation in Cedar Rapids, Ia., will be 2463's Gene Oswald and his wife.

When Lee Deeter and his wife vacationed in Los Angeles where their son is in college, they took the opportunity to visit many of the coast's antique shops between there and San Diego. Lee, a member of the newly organized Arts and Antique Club, has been named publicity director for the group.

Ham Operators Plan Full Schedule With Meetings, Banquet

Radio amateurs who operate mobile stations will gather from all over the state on Sunday for a general meeting at the Sandia Base Radio Club's headquarters here.

The mobile hams will convene at 10 a. m. to discuss the organization of a state-wide association. They'll talk over a proposed constitution and plans to affiliate with mobile groups in other states.

The business meeting will be followed by a picnic at Tingley Park for the amateurs, their wives and guests. Arrangements for the business meeting and picnic are being made by Brooks Braffett, 5413, the club's correspondent.

On Monday, the 26th, the club will hold a "Hints and Kinks Night" at the Base club house at 8 p. m. Members will present new ideas they've devised to aid in building, testing and operating their equipment.

In addition, they'll consider nominations for officers to be elected Nov. 9. Plans for a December banquet will also be made.

Employee's Daughter Wins First Prize in Oratorical Contest

Demetria Kelly, 15-year-old daughter of June Kelly, 1922, was awarded the Pearl Medal for oratorical excellence in a recent speech contest of the youth's W. C. T. U.

Demetria, a sophomore at Albuquerque High School, competed against Juniors and Seniors. She previously had won the Silver Medal and the Gold Medal for similar work. Judges were professors from the University of New Mexico.

Weddings

Ethel Abeyta, 2231, was married October 9 to Sgt. Warren Yeast in a ceremony attended by members of the immediate family. The newlyweds took their honeymoon in Taos and will be at home at 305 Columbia, SE soon.

The marriage of Margaret Montooth, 2121, and Willard Freed, 2141, was an event of October 2. The couple were married in an evening ceremony in Central Avenue Methodist Church.

PTA Thanks Sandians For Help in Clothing Drive on Sandia Base

Parent Teachers Association Welfare Group of the Base School has extended thanks to Sandians who gave time and clothing in the recent drive.

The continuing need of clothing for some infant children in Albuquerque the year around is emphasized as a year around project. Also needed, according to Charlotte O'Keefe, wife of Charles O'Keefe, 1932, is pre-school and adult clothing.

The clothing may be taken to the school any time or Mrs. O'Keefe may be notified, ext. 22294.

Community Chest Solicitors

October, 1953

- TEAM CAPTAIN L. J. JERCINOVIC-1000 F. A. Gagliardi, Squad Leader-1200 J. K. Nakayama, O. L. Bashor, R. E. Sandiford, W. D. Braden, W. J. Coker, I. J. Long, A. C. Schwarz, W. R. Guntrum, H. R. Holmes, B. B. Heath, H. M. Barnett, R. A. Freeman, D. M. Webb, E. L. Holcomb, R. A. Milby, J. B. Cahill, A. G. Pehrson, E. P. Frasher, F. McEwin, R. Lochbaum, W. Baker. R. H. Schultz, Squad Leader-1300 L. J. Baker, E. R. Parsons, J. D. Mayfield, R. E. Martin, D. Tippit, H. P. Engels, A. Lieber, A. Winblad, R. C. Coffey, J. R. Piper, P. M. Dugan, W. R. Hoagland. T. S. Daniel, Squad Leader-1700 G. J. Hurley, B. H. Bueffel, D. R. Knapp, E. R. George, R. Burke, C. J. Zohn. H. M. Willis, Squad Leader-1900 F. Viquesney, Mrs. H. J. Kelly, E. W. Shepherd, Mrs. S. L. Berning, C. W. Peterson, Miss Joan McCoy, Mrs. V. B. Chavez, Mrs. N. Sacre, C. E. Harp, C. Scott. T. E. Zudick, Squad Leader-1900 A. C. Lamb, L. P. Apodaca, P. Candelaria, J. Lambie, D. Miller, P. I. Gaither, F. C. Rivera, Jr., J. W. Tanner, W. C. Garcia, H. A. Keever, D. K. McMillin, E. L. Kleinke, Jr., N. Perea. TEAM CAPTAIN D. S. DRESEN-1000 F. J. Feery, Squad Leader-1500 F. D. McKesson, G. A. Wright, D. H. Allen, A. F. Hurford, R. K. Lowery, H. C. Psillas. W. D. Wing, Squad Leader-1500 O. T. Ussery, G. T. Hartman, J. A. McPhate, E. E. Ard, R. E. Kent, L. L. Flores, L. F. Denton, F. J. Gallagher, L. R. Nelson, A. L. Romero, H. Buvens, J. S. McGriff. D. L. Cochran, Squad Leader-1600 Mary Goolsby, Ruth Davidson, R. G. Hamilton, E. M. Bauer, R. L. Buckner, W. H. Crass, A. M. Imrisek, C. Connolly, D. A. McCoy. R. E. Fisher, Squad Leader-1600 F. K. Conrad, R. C. Jackson, R. L. Champion. R. Barnard, Squad Leader-1600 R. O. Murdoch, R. E. Maxwell, J. C. L. Leslie, J. B. McCullar, Frances Berry, R. Sadler, Ruth Conner, A. S. Buchanan, Marilyn Frazer, R. L. Fogel. R. L. Siglock, Squad Leader-1600 J. W. Kavanagh, C. P. Rindome, C. L. Page, J. J. Duben, Mrs. E. W. Shorey, Mrs. B. J. Fike, H. W. Pumphrey, E. S. Roth, B. N. Yates, C. O. Padilla, L. A. Caffo, Jean Braswell. TEAM CAPTAIN D. HURT-2100 T. Dadian, Squad Leader-2121 Theda Noe, Cathy Mayo, Ellen Casper, C. Taft, J. Cooper, J. Smith, L. Lincoln, J. Wade, Connie Parks. R. Pegue, Squad Leader-2122 R. Jeffery, R. Maltzberger, M. Rico, O. Montoya, J. Steward, R. Evans. K. Schooley, Squad Leader-2123 L. Shoemaker, J. Oboikobitz, L. Todd, E. Gay, E. Mares, W. Joulé, H. Sellers, E. Anderson, M. Serna, L. File, J. Hipskind, H. Schroer, G. Armour. F. Hendren, Squad Leader-2124 W. S. McElvane, D. Goens, B. C. Brown, L. Cox, C. Ritter, L. Peterson, D. Smith, V. John. C. Miller, R. Parry, Squad Leaders-2130, 2131 P. Davis, G. Zimmerman, R. Kendall. P. Burns, Squad Leader-2141 Elva Kollander, Bobby Gray, J. Anaya, Alice Wilner. J. E. Fitch, Squad Leader-2142, 2143 Inez Leeton, Norma Clementi, L. Callahan. TEAM CAPTAIN C. E. GROVER-2200 R. Bryant, Squad Leader-2210 K. Williams, W. Parker, L. Parks. F. Meacham, Squad Leader-2220 Dorothy Gaylord, J. Rhodes, Mary Frances Jameson, R. Brunacini, R. Gonzalez, J. Perea, G. Van Gundy, Betty Thurmond, P. Hennan, J. Gravin, M. Russell. H. Kubiak, Squad Leader-2230 Frances Nobles, K. Smith, Ordella Folkman, Margaret Harper, Wilma Archbold, R. Zaluga, J. Kelly, S. Hewitt, Joanne Urevitch. E. Strance, Squad Leader-2230 C. Puthoff, W. Norris, A. Arrington, M. Bustos, R. Nix, J. Maldonado, R. Dodge, D. Westfall, B. Jolola. P. Monahan, Squad Leader-2230 T. Bone, J. Lopez, Vesta Mayer, Pat Ryan. F. Chavez, Squad Leader-2230 H. A. Gillocks, E. G. Baca. TEAM CAPTAIN J. B. BOULAIS-2300 C. J. Uribarri, Squad Leader-2330 A. E. Willett, D. E. Neff, Jr., R. R. Wynant, F. Collatz, Billie Peterson, J. Swazo, Betty Smith, E. Martinez, Carl Robinson, C. S. Henry. M. Letterick, Squad Leader-2310, 2320, 2340, 2360 T. J. Meloche, R. C. Smelich, P. R. Morgan, C. J. Ricker, R. L. Bowers, A. L. Alfred, J. Hughes, H. C. Strauss, Barbara Brock. R. J. Kronberger, Squad Leader-2350 G. Brunting, Nell Dean, J. Armijo, J. Rutledge, G. Jones, J. Tafoya. Mary Sparger, Squad Leader-2460 C. M. Brand, R. L. Dunlap, Dorothy Lewing, Marilyn Menapace. Juanita Bridge, Squad Leader-2460 Renee Foster, Wilma Bird, Dorothy Ham, Maggie Grover, Mary Wetzel, Iva Adkins, Jackie Hynes, E. A. Baca, Harriet Evans. TEAM CAPTAIN J. UNDERWOOD-2500 W. J. Meyer, Squad Leader-2520 Billy Pontsler, Squad Leader-2530 Geraldine Sepaugh, F. T. Hansen, T. A. Reinhardt, L. F. Pinger, H. Ator, R. G. Silva, N. E. Brooks, W. P. Armstrong, J. F. Salazar, Doris Miller. John Wesbrook, Squad Leader-2540 T. Reagan, W. Adkins, R. Myers, F. Takahashi, J. B. Petrie, H. Beadersted, J. Robinson, Rita Wassenberg, Gladys Stumpf, H. Adkins. Charles Schmidt, Squad Leader-2550 C. Coats, W. Furman, K. Lindell, F. Villa, L. Hobbs, H. Rogers, Marie Carleton. L. E. Gilbert, Squad Leader-2560 Mary LaFrenz, F. Snider, Dan Wood, G. Wright, R. Carrillo, Dorothy Reinersten, Bertha Berger, J. Ozmina, F. Mastin, A. Ashcraft, G. Spiller. TEAM CAPTAIN L. H. HUENEFELD-2400 C. Lucci, Squad Leader-2410, 2411, 2412 V. B. Atkins, C. S. Sandoval, S. Castle, O. J. Crum, T. Silva, R. Carmichael, C. Shahan, S. Armijo. W. Oehler, Squad Leader-2413, 2414, 2415 C. Weidman, F. J. Lesperance, H. Brown, W. G. Mabry, Junior Woelhart, J. W. Hatcher, J. C. Wynn, D. Sullivan, L. Vigil, S. Sanchez, P. Gallagos, I. Eslinger. H. Clay, Squad Leader-2417, 2418 J. Torres, L. Kelton, J. Floyd, P. Kind, C. Michael, M. Martinez, H. B. Sanchez, Mrs. H. Smeltzer. J. Thorpe, Squad Leader-2419 J. C. McDowell, B. Montano, Ruth Romero, E. Royball, L. Skinner, S. Luna. B. J. Myer, Squad Leader-2440 L. DeLang, J. Mafit, O. Heins. G. N. Corbitt, Squad Leader-2470 J. England, T. P. Ickes, S. Cordova. D. E. Bridges, Squad Leader-2450 R. S. Schwartz, Asst. Squad Leader C. B. Krause, Asst. Squad Leader W. Eder, M. Miller, J. McQuarie, R. Herring, R. Brett, C. Farmer, B. Ellis, W. Shaler, M. Adams, J. Wahlenmaier, B. Valencia, R. Wheeler, O. Thompson. TEAM CAPTAIN R. A. KNUDSON-3000 S. M. Krell, Squad Leader-3120, 3150 R. Heim, Mrs. J. A. Gillette, A. M. Fellows, Marilyn Johnson, A. Schuknecht, Dorothy J. Anderson, Dolores Cordero, Carol Keith, Evelyn Abbott, Joann F. Marksbury, J. N. Schlahta. H. R. Dieterich, Squad Leader-3160, 3170, 3220, 3230 R. Clark, H. Hanna, R. Evans, D. Macrae, Mary Crampton, Bernice Beeson, Catherine Helm, Shirley Cowie. TEAM CAPTAIN F. H. GRUBBS-4000 W. B. Davis, Squad Leader-4130 D. Wang, E. L. Garman, J. R. Cannedy, D. K. McCoy, S. T. Landrith, S. A. Merriam, N. A. Branson, E. V. Forster, D. L. Willard, E. A. Gorey, Ora Brooks. L. E. Aragon, Squad Leader-4150 4310 Duane Hillard, Squad Leader-4150, 4310 B. Lambert, E. Herrity, A. H. Smith, B. Gustafson, E. L. McConnell, M. L. Snodgrass, E. G. Connelly, W. G. Smith, J. T. Logan. E. C. Domme, Squad Leader-4220, 4230 J. E. Duffy, D. C. Held, R. E. Ridenour, D. Zucht, O. M. Austin, T. B. Hanna, Betty Rosendale, Shirley Zaluga. TEAM CAPTAIN D. E. SHOWALTER-5000 H. H. Sander, Squad Leader-5100 C. D. Broyles, Squad Leader-5100 M. Cowan, R. O. Ferner, D. A. Young, R. J. Flanagan, D. M. Ehret, W. D. Wood, W. B. Stephenson, S. Luchter, M. J. Norris, J. M. Wiessen, C. F. Muehlenweg, A. Goodman. J. C. Reynolds, Squad Leader-5210 F. A. Maloney, V. L. Roy, P. R. Littell, H. T. Turner, E. D. Heath, L. A. Grasham, I. E. Parker, A. Kimmell, L. VanLandingham. R. E. Wulfe, Squad Leader-5220 E. Amonette, A. R. Charlton, D. A. Skirwood, R. Glass, G. Curry, K. Fortman. W. A. Gustafson, Squad Leader-5230, 5250 E. E. Wood, A. D. Thornbrough, L. E. Baltz, J. H. Morrison, D. T. Colson, L. K. Porter. W. W. Rogers, Squad Leader-5240 M. M. Conney, P. H. Arnold, B. B. Griscom, D. A. Pope, T. F. Laney, A. T. Marrs, C. M. Clendenin. TEAM CAPTAIN W. A. JAMIESON-5000 G. A. Arnot, Squad Leader-5410, 5420 N. J. Gamara, R. E. West, W. M. Bacchus, R. H. Koonz, W. V. Lee, E. P. Carter, P. I. Jensen, C. H. Purdue, E. L. Holland, R. C. Hicks. N. J. Eich, Squad Leader-5300 C. W. Burrell, F. A. Goss, R. D. Wehrle, K. H. Zimmerman, R. E. Fox, R. E. Hampy, J. L. Lundgren. J. P. Wakeland, Squad Leader-5430

Military Service Ends for Two More Sandia Employees

Back from a tour in the Air Force is Philip Gilstrap, 2141, who served in hospitals "all over the United States" since he left the Corporation in January, 1951. Phil, who spent the major portion of his military leave at Castle Field, Merced, Calif., lives in Albuquerque with his wife.



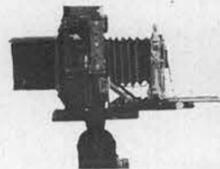
Jack Reed Phil Gilstrap

Jack Reed, 5111, was discharged from the Air Force recently and returned to the Corporation Sept. 21. He entered service in February, 1951, and was stationed at Kirtland Field in a weather forecasting unit, participating in the tests at Nevada last spring. Jack, who joined Sandia originally in 1948, is married and the father of a daughter and a son.

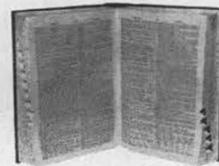
Welcome! Newcomers

A welcome is extended to the following newcomers who joined Sandia Corporation between October 1st and October 13th:

Table listing names and employee numbers of newcomers: Donald Spatz 1211, Joseph Crompton 1283, William J. Shock 1311, Robert R. Garrett 1524, Eugene A. Stisser 1541, Lewis B. Barger 1611, William F. Henry 1641, Frank C. Comiskey 1931, Bill E. Hall 1931, Hazel A. Potteet 2410, A. G. Davis 2414, Lucile W. Brett 2419, Katherine A. Roger 2461, Baulah M. Lorman 4131, John W. Hahn 2544, Mavice Betts 4222, Sarah E. Brown 4222, Georgia A. Coffey 4222, Norma L. Magee 4222, Gladys M. Middleton 4222, Ruby O'Connor 4222, Virginia E. Oliver 4222, Patricia J. Paulson 4222, Mary M. Sherman 4222, Harry B. Barling 5433



One Picture---A Thousand Words



To better understand . . . see it in a picture.

Or as has been more dramatically stated: "One picture is worth a thousand words."

And here at Sandia Laboratory we do just that—to more fully understand our work we take pictures, thousands of them. In a recent 12-month period our Photographic Section exposed 39,900 negatives and made more than 76,500 prints in accomplishing its task in visual communication.

Not every-day, run-of-the-mill shutterbugs are these technical photographers and laboratory men of Section 2462-1. Years of experience in many phases of photographic sciences have made them skilled in the art of taking pictures that teach and making photographic records that endure.

This is not a simple task. The story they have to record is highly technical and exacting—and it's new. Sometimes tedious (occasionally scores of prints are made from one negative), sometimes done under pressure (much of the work is needed "yesterday"), and always challenging, their work is further complicated by the cloak of security which must surround it.

Their tasks occasionally extend beyond technical work, but whatever their assignments the daily work of the "Photo Lab" crew centers around pictures.

And what do these men do after working hours?

You guessed it, most of them have chosen as a hobby—photography.



EXPERIENCED EYES study a negative. L to R: Roger Williams, copy cameraman; J. J. Mike Michnovicz, Division Supervisor 2462; Wally Boyes, Photographic Section supervisor.



STRENUOUS days are often in store for photographers. Roy Dunlap leaves for a day's shooting in the field.



INDUSTRIAL PHOTOGRAPHY has exacting requirements. Bill Laskar records on film the image of a large casting.

(Editor's Note: There are other men skilled in the photographic profession working in Sandia Laboratory. In a future issue the BULLETIN plans to tell you of Sandia's Field Test Photographers. You have already read of the men doing Sandia's motion picture work.)



COLOR PHOTOGRAPHY makes an illustration even more graphic. Tony Atler makes a dye transfer print.



SANDIA BULLETIN photography is done by the Section. Photographer Dick Hodges frequently "shoots" employees as Assistant Editor Maxine Ethridge interviews them.



Photos on this page by Laskar

ENLARGEMENTS, and reductions, too, are mass-produced in the Section's darkroom. At the left, Vince Newman operates one of the enlargers.



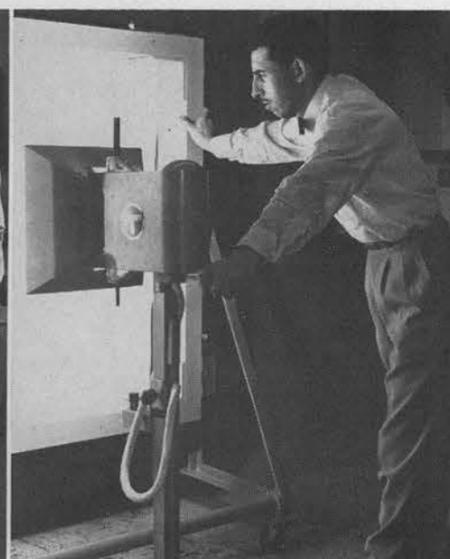
MASSIVE CAMERAS, this one operated by Elliott Harris, are used in the studios to copy technical drawings. Last year copy cameras exposed nearly 35,000 negatives.



CONTACT PRINTS in sizes from an extreme miniature up to 10 feet long may be made with the printers in the darkroom. A smaller printer is operated by Kenneth Langley.



PROCESSING more than 76,000 prints in 12 months is a big task. Almost every print went through a drying machine such as this one operated by Jim Poindexter.



SPECIALIZED PROCESSES, here the "Cee-Bee," are work-a-day tasks for the photographic lab men. Dave Tafoya is performing the process which reproduces drawings on cloth.

Frankie Carle Orchestra Featured by Coronado Club in November Program

The spotlight of the November entertainment at the Coronado Club will be focused on the Frankie Carle Orchestra, appearing Saturday, Nov. 14.

Brings Back Memories

Carle, his piano, and his orchestra have performed in the top ranks of the nation's popular musicians for years. For many, their music will bring back memories, for others there will be a treat in fine dance music in store.

Tomorrow night the Dream Weavers are slated to play for the Club's informal Saturday night dance. On Wednesday it's Bingo and on Thursday duplicate bridge fans gather again.

16-Piece Orchestra

On October 31 the Club throws its annual Halloween Costume Ball. The dance, to the music of the 16-piece KAFB orchestra, is free to members and \$1 for guests. In addition, a Halloween dinner precedes the dance, starting at 7 p.m. The dinner is \$2.25.

November activities start off Wednesday, the 4th, with Bingo Night. The second Bingo Night of the

month will be on the 18th. Duplicate bridge is scheduled for the first Thursday of the month and also on the 12th and 19th.

Al Hamilton's Orchestra will play at the informal dance Saturday, Nov. 7, followed by the monthly Buffet-Dance Sunday night. The MBC Trio will provide dinner and dance music. Admission is the usual \$2 per member, \$3 per guest.

Employees Basketball Play to Start Soon

Tentative starting date for the 1953-54 Sandia Employees basketball season will be November 16, it was announced this week by Dick Heim of Employee Services.

Individuals or organizations desiring to enter teams in the league are asked to contact Heim, ext. 29157, before Nov. 6.



DISPLAYING EXAMPLES of the hydroforming technique of making intricate sheet metal shapes is Ken Martin (center) of the Cincinnati Milling Machine Co. He spoke on hydroforming at a recent meeting of the American Society of Tool Engineers. On the left is Harold Baecker, 2531, chapter chairman, and right is H. R. Hanen, 2531, program committee chairman.

Sympathy

His co-workers extend their sympathy to R. R. Russell, 2335, whose father died last week in Ohio. The Sandian went east to attend the funeral.

New Book Placed On Racks This Week

How to get the greatest benefit out of any life insurance you may own or buy in the future is the subject of "Your Life Insurance," a booklet placed in the racks last week.

"Putting Your Money to Work . . . The Story of Stocks and Bonds," to be issued today, takes some of the mystery out of Stock Exchange operations as it explains the workings of this important element of the U. S. economic system.

Circuit Breakers Subject of Talk To AIEE Members

The history of circuit breakers and the mechanical and electrical problems inherent in circuit breaker design will be discussed in a talk, "Modern Circuit Breakers for Industry and Utilities," to be presented at a meeting of the American Institute of Electrical Engineers, on Oct. 28 at 7:30 p.m. in Room 2, Mechanical Engineering building, University of New Mexico.

The speaker will be A. K. Hamer, applications engineer with the Allis-Chalmers Boston Works. A graduate of Tufts College, Mass., with a B.S. in electrical engineering, Mr. Hamer has been with the electrical apparatus firm for five years.

Congratulations

BORN TO: Mr. and Mrs. Ernie Parker, Jr., 2463, a son, Daniel Glen, Oct. 3.

Mr. and Mrs. Bob Dunlap, 3154, a daughter, Jeannine Ann, Oct. 1.

Mr. and Mrs. Horace Montoya, 2232, a son, Michael Horace, Sept. 15.

Mr. and Mrs. Ted Chavez, 2232, a daughter, Alice Berlinda, Sept. 17.

Mr. and Mrs. Jim Hockett, a daughter, Mary Catherine, Oct. 4.

Mr. and Mrs. Bill Jemison, 5131, a daughter, Kathryn Marva, Oct. 7.

Mr. and Mrs. Rudy Sandoval, 2452, a son, Rudy, Jr., Oct. 8.

Mr. and Mrs. Hiram L. McKinney, 2413, a daughter, Bonnie Lee, Sept. 25.

Mr. and Mrs. Peter J. Cook, 2541, a daughter, Dolores Marie, Oct. 8.

Mr. and Mrs. Bill Stamm, 2442, a son, Paul Greenwood, Oct. 8.

Mr. and Mrs. Robert Jones, 5424, a son, Douglas Earrol, Sept. 6.

Mr. and Mrs. "Tex" Murdoch, 1631, a daughter, Jan Elizabeth, Oct. 6.

Mr. and Mrs. Tommy Chavez, AEC, a daughter, Patricia, Oct. 12.

Mr. and Mrs. Noel Kent, 2452, a son, Harlan, Oct. 10.

Mr. and Mrs. W. B. Ferguson, 2362, a son, Waylon B., Jr., Oct. 6.

Promotions

ARTHUR B. COLE to section supervisor, 1283-2. Art joined us in 1951 after working a year with



Pratt - Whitney Corp., East Hartford, Conn., as a mechanical engineer. He went to work there after graduating from the University of New Mexico with a B.S. degree in mechanical engineering. Before that Art spent three years as a draftsman with Hamilton Standard Propellers Co. at East Hartford. A veteran of two and a half years in the Air Corps, Art worked a year as a tool grinder for the Allen Manufacturing Co. in Hartford before going in the service.

WILLIAM J. DALY to section supervisor, 1264-2. Bill has been with the Corporation since early 1952. He came here from the



American Machine and Foundry Co., Boston, Mass., where he was project engineer in a radar development group for a year and a half. Previously he worked a total of two and a half years with Raytheon, Waltham, Mass., first as a field engineer on experimental radar equipment and later as project engineer in an electronic computing equipment group. Bill has also worked for the Submarine Signal Co., Boston, as director of test for a year and a half, specifications engineer for a year and field engineer for a year with the U. S. Signal Corps procurement agency, Chicago, for four years as chief inspector; and with the Army Engineer Corps as a construction inspector for a total of four years in New York and Pennsylvania. Bill has a B.S. in electrical engineering from Rhode Island State College.

ALFRED V. ENGEL to section supervisor, 1263-2. Al joined the Corporation in 1952 after a year with



Southwest Research Institute, San Antonio, Tex., as a mechanical engineer in the mechanical development section. Prior to that he spent three and a half years at Schenectady, N. Y., with General Electric Corp., as a mechanical engineer in the Knolls Atomic Power Laboratory. Al has a B.S. degree in mechanical engineering from the University of New Mexico. He is a veteran of three and a half years in the Air Corps. Al's first job, after graduating from high school, was surveying for the U. S. Soil Conservation Service at Rodeo, N. M.

W. E. "ED" SCHORR to section supervisor, 1261-3. Ed came to the Laboratory in 1951 following four



years as an instructor in thermodynamics at New York University. Before taking the teaching post at the University Ed spent five years for Republic Aviation Corp. at Farmingdale, N. Y., as a research engineer and thermodynamist. Ed is a graduate of New York University where he earned his Bachelor of Aeronautical Engineering degree and went on to receive a Master of Mechanical Engineering degree.

Antelope Hunters Bag Limit

Ken Sarason, 1631, and Ernie Graves, 1632, made the most of their two and half day hunting permits recently. Each bagged his animal the first day out when they hunted on the Double H Ranch near Magdalena, N. M. The antelopes dressed out at approximately 90 pounds apiece.

Classified Advertising

Classified Advertising

Classified advertising is printed in the Sandia Bulletin as a service to Sandia Corporation employees and employees of the AEC on Sandia Base. There is no charge for publishing the advertisements.

Advertisements must be submitted in writing and contain the name, organization, home telephone number and base extension of the advertiser.

Each advertisement will be run one issue. Deadline: Friday noon, one week prior to date of publication.

Next Deadline: Noon, Oct. 30

FOR SALE—

1949 HARLEY-DAVIDSON 125 motorcycle \$90; Bretting communication receiver series 40 \$30; see at 3105 Ortiz Dr., NE, Ryan, ext. 25237.

TWO BEDROOM HOME, owner's equity \$750, laundry room, brick fireplace, carport, storage room, automatic gas heat, two large lots 70 x 110, \$5300 mortgage, \$60 per month. Starlings, ext. 29262. At corner of 53rd and Glendale Rd., NW.

F & S HOUSE, two bedrooms, attached carport, light tile floor throughout, trees and shrubs, special feature—bring the children, G. I. loan, \$1150 down payment, \$47 per month plus \$12.51 wall payment, Shreve, 9122 Fairbanks Rd., NE, ext. 33140.

NAVARRO dual manifold for '41-'53 Ford with two carburetors, double acting fuel pump with generator bracket \$48 or will trade for radio phonograph. Brin, Alb. 5-5831.

VACUUM CLEANERS, Royal with all attachments \$17.50. Hoover with attachments \$15. Bryant Alb. 6-0139 after 5.

STEEL GUITAR and case \$25, drafting table 3 x 4 ft. \$25, professional Geiger counter \$110. Bounds, Alb. 3-0733.

GERMAN SPORTING RIFLE with German scope and new 270 barrel. Alvarez, Alb. 2-5167 after 5.

KITCHEN CHAIRS, four, chrome, red plastic covered. Wemple, ext. 21133.

MEN'S NORTHLAND SKIS, 7'3", cable bindings \$15. Men's ski boots, size 9 \$5. Heim, ext. 29157.

1951 STUDEBAKER Commander V-8, radio and heater, automatic drive. Crawford, Alb. 5-3905 after 5:30.

REFRIGERATOR, Montgomery-Ward, 7 cu. ft. \$75. Dumond, Alb. 4-5581.

OR TRADE, Frontier Colt, 32-20 brass frame \$100. Tru-Line jr. loading tool, 30-06 \$25. Springfield, as issued new \$50. Beretta 22-lr. featherweight \$38. Haskell, ext. 36144.

1948 CROSLEY station wagon \$125. Cundy, Alb. 5-0381 after 6.

FURNISHED 2 bedroom home, modern furniture, oak floors, carpeted living room and hall, attached garage, wall and lawn in, Bel-Air. Total price \$9,250. Grier, Alb. 5-6034.

WINCHESTER model 7, 30-06 cal. rifle, carrying case, some shells, sling \$100. Hobbs, ext. 29135.

TWO NEARLY new motorcycle 500 x 16 tires and tubes \$14 ea. Four 820 x 15 tires and tubes \$5 ea. Evans, Alb. 2-9920.

GAS HEATER, 20,000 BTU \$25. Reinertsen, Alb. 5-1954.

1948 CHRYSLER Windsor Hylander, club coupe. Crawford, Alb. 5-3905 after 5:30.

WEIMARANER PUPS. Ewing, Alb. 5-1958, 1303 Quincy NE.

KODAK 35, coupled range-finder and case \$50. Davenport and chair \$20. Johnson, ext. 5-1296.

IRONER, GE table model, full size roll \$35. '49 Packard station wagon \$875 or best offer. Can be financed. Armour, 8028 Hannett NE (Snow Addition).

1936 FORD TUDOR, new '41 Sun engine \$150. Snelling, Alb. 6-3312. 8818 Woodland NE.

HALLICRAFTER RADIO model S-77-A. Saylor, Alb. 6-4328, 405 Gen. Patch NE.

UPRIGHT PIANO, bench included \$110. Bertholomey, Alb. 5-5238.

'47 CHEVROLET coupe, R&H, \$350 or best offer, Pliner, Alb. 6-1907.

ZENITH MARK II, transceiver with headsets, dynamotor and extra equipment. Karnowski, Alb. 5-4045.

'41 2-DOOR FORD sedan, '48 6-cylinder motor, R&H, \$195. Padilla, Alb. 5-8060.

'49 NASH Super Special 4-door sedan, R&H, overdrive \$800. Rinn, ext. 27285 after 5.

RIFLE, 30-40, sporting stock, peep sight \$50. Alexander, Alb. 3-1275.

'48 DODGE 4-door sedan, R&H, fluid drive, low mileage \$495. May be seen Saturday and Sunday, Connolly, 4402 2nd St. NW, Alb. 4-5264.

'40 DeSOTO, 4 dr. R&H, overdrive, good rubber. Wheeler ext. 34249.

'39 PLYMOUTH Coupe, R&H, sunshade. Good tires, good engine \$150. See at 1200 Truman SE, Tolmie, Alb. 6-1636.

SILVER FOX JACKET, size 12-14, almost new, make offer. Weber Alb. 5-5090.

RED TAFFETA formal, size 9, never worn \$8. Skinner, Alb. 52318. 506 S. Amherst.

MODEL A FORD \$225. Rehberg, Alb. 5-6705.

16-GAUGE Browning shotgun, Belgian made, semi-automatic, 28-in. barrel, full choke, some ammunition included \$100. H. W. Baldwin, Alb. 5-4238 after 5.

MAHOGANY Duncan Phyfe table \$25. Drafting table, 31" x 42" \$12.50. Thayer baby carriage, full size, automatic folding \$25. Schorr, Alb. 5-7234.

1936 DODGE, 2-door. \$60 or best offer. Nesselbarth, Alb. 6-1720.

REVERE 8mm. movie camera with carrying case and two lenses, f2.5 and f1.9 focusing. \$85. Bob Brammer, ext. 26155.

LINDSAY water softener, family size \$100. Lunsford, Alb. 3-8759.

DOUBLE BED, spring and mattress in excellent condition. \$20. Bonnie, Alb. 3-8550.

OVERHEAD garage door, complete with hardware \$25. Thompson, Alb. 5-5282, 817 Amherst Drive NE.

PORTABLE typewriter, Remington noiseless with case \$60. Shew, ext. 22156, 1508 Katie NE.

1948 FORD V-8, 2-door sedan, one owner, low mileage \$650. Crawford, Alb. 5-7711.

TWO-BEDROOM home, tiled bath, wall-to-wall carpeting, fenced yard, beautiful trees and shrubbery, near grade, junior and senior high-school, shopping centers, Lovelace Clinic, located on elevated ground near two bus stops, \$10,500 total, 1216 Jackson St. SE, Branham, Alb. 5-8810 anytime.

UNFINISHED FURNITURE: 5-drawer chest \$19; 6-drawer drop leaf table \$20; modern desk \$25; step end table \$3; 3 straight chairs \$8; new portable timer washer and wringer \$35; portable cooler \$25; metal stool \$3; 10-ft. bamboo blind \$4; lawnmower \$8; hose \$5; 6-place setting Ruby glassware \$6; also assorted chicken wire, tools, etc., Tendall, ext. 23195.

ELECTRICAL RANGE, Hotpoint push-button model. Hayes, ext. 25170.

ELECTRIC RANGE, G. E., one year old \$175. Hurford, ext. 46281.

1949 CHEVROLET, 2 door sedan. Maginnis, Alb. 5-9406 after 5:30.

WANTED—

DRIVER to join car pool from Weeks' Addition in Hoffmantown to Bldg. 802 area, Bill Pepper, ext. 20252.

YOUNG GIRL to share apartment, available Dec. 1, 1/4 block from bus stop and shopping center. All utilities paid. Call Betty Cooke, Alb. 6-8076 after 6 p. m.

RIDE, from 5300 block N. Fourth St. to Gate 3 or 4. Frances Meek, Alb. 4-0189.

RIDE, from corner of Gen. Stilwell and Phoenix to Bldg. 802. Alice Holmes, Alb. 6-3724.

RIDE, from 201 High St. to East Tech gate. Pat Dixon, ext. 2-5153.

ONE OR TWO GIRLS to share home with working girl. Rent reasonable. Ola Sherbert, Alb. 5-6087 after 5:30.

RIDE, from Second and Cole to Tech Area. Lorenzo Riveria, ext. 26246.

RIDE, 1600 block E. Coal to South or East Gate near Bldg. 880. Pat Sherlock, ext. 33251.

RIDE from 200 block Mesilla NE to South or East Tech gates. Flowers, Alb. 6-1656.

RIDE from Moon and Fairbanks, Hoffmantown to Adm. Bldg., Mildred Brumley, ext. 30154.

FOUR-FOOT drafting table. Poole, ext. 29148.

LOST—

WHITE CARDIGAN sweater on Oct. 3, between Bldg. 802 and Bank parking lot. Wynona Durham, ext. 35158.

MISCELLANEOUS—

FREE PUPPIES, "part this, part that," Tatum, Alb. 29021.

FOR RENT—

ROOM, for man, \$50 includes breakfast and laundry, see at 1114 Field Dr., NE, Carpenter, ext. 21230.

ROOM, with or without meals, 2414 Wyoming NE. Arthur, Alb. 6-0412 after 5:30.

APT., 425 Sunset Rd., SW, ideal for couple, quiet, call Torres or Baladano, Alb. 3-7066.

TWO BEDROOM HOUSE, 9500 Claremount Ave. NE (Hoffmantown). Springer, Alb. 5-0697.

FURNISHED ROOM, men only, TV and automatic washer, guest and cooking privileges. Three blocks off Wyoming. McKelvey, 7904 Bellamah NE, call between 2 and 6 p. m. Saturday and Sunday.

UNFURNISHED apartment, 1 bedroom, living room, kitchen, refrig., stove, venetian blinds, air cond. \$69 per month, 1027 Truman SE, Apt. 2, Ashby, ext. 23188.

HOME, two bedrooms, Hoffmantown, stove, refrig., walled yard \$75. Newman, ext. 23137.

HOME, three room, modern, near school and bus, 1609 Third St., SW, Mrs. Aragon, Alb. 2-9632.

NEW APARTMENT, furnished, 1338 Arron Court, SW, Sons, Alb. 7-9073.

FURNISHED apartment, new refrig., stove, water included, \$35 per month, Lopez, 1632 Five Points Road SW, Alb. 3-3830.

ROOMS FOR MEN

Comfortable, convenient rooms are available in the men's dormitory operated by Sandia Corporation on Sandia Base. Maid service. Call Dick Heim, ext. 29157 or come to Employees Services Office, Bldg. T-301.