



HARD LABOR REWARDED will be the lot of these three Sandians who are earning Masters Degrees in Electrical Engineering at the University of New Mexico this June. L to R, Capt. John Crone 5421, Robert Creveling 5414, and Stan Locus 5412.

SANDIA BULLETIN

Vol. IV, No. 11 SANDIA CORPORATION, ALBUQUERQUE, N. M. May 23, 1952

McKenzie Appointed Head of Sandia's Patent Department

Mr. Donald McKenzie, newly appointed Patent Manager, 210, has been with the Bell System for 32 years. In his post here at Sandia he will supervise the functions and



Mr. McKenzie

personnel of the former Patent Services and Contracts Administrative Division, 1923. Mr. McKenzie will report to Mr. Frank L. Dewey, General Attorney.

In 1920 Mr. McKenzie was employed by the Bell System Research Department. He transferred in 1927 to the Apparatus Development Department of Bell Telephone Laboratories.

Two years later Mr. McKenzie joined Electrical Research Products, Inc., a wholly owned subsidiary of Bell Lab, as a consulting engineer connected with the development of sound motion pictures. In 1936 he was appointed Director of Engineering, a post he held until 1941 when he went to the Patent Department of Bell Lab.

Mr. McKenzie and his family plan to live in town. He has two sons, 21 and 17 years old.

Sandian Sings With Civic Symphony In Final Concert of 1951-52 Season

"I'm what you would call a semi-professional singer, I just sing for pleasure and have been singing ever since I can remember," said Ellen Cunningham, 2461-2, when asked about her musical talents.

May 9 in the Albuquerque Civic Symphony concert she was soloist with the Albuquerque Choral Association in Hans Lange's "Hear My Prayer." Ellen has sung with this same group often. For two years she sang soprano roles in the Christmas "Messiah." Last Yuletide she was one of five soloists to sing Bach's "Magnificat."

She studied voice at the University here where she became a member of Sigma Alpha Iota, honorary musical fraternity. "My best formal training was the four years I studied under Dr. Burton Thatcher who came here from the Chicago Musical College. It gave me a chance to be with my family and friends and still take lessons from one of the best voice instructors."

Ellen says she well remembers her first public appearance. "It was awful! When I was about 16 I began to study voice and a few months later was scheduled for my first recital. Mother was sitting in the audience, very proud of me, and my accompanist played the little introduction. I opened my mouth and I was so frightened that no sound came—not even a squeak. The pianist played the introduction the second time



Ellen Cunningham

and it was no better. The third time I managed to overcome my fear."

When the Sandia Choristers were organized about two years ago Ellen was one of those who helped and then assisted as director. She was choir leader for four years at one of the downtown churches and she still solos, and has for eight years, at the Temple Albert.

Ellen's husband, F. B. "Sandy" Cunningham, 1311, sings in some of the groups with her.

Graduate Degrees Will Be Awarded To Three Sandians

Three Sandians are receiving Master of Science degrees in Electrical Engineering at the University of New Mexico this June. John L. Crone 5421, Stan Locus 5412 and Robert Creveling 5414 will be awarded their sheepskins at the 1952 commencement exercises.

John Crone attended the University of Maryland, Ohio State University and the Air Force Institute of Technology and has been attending the University of New Mexico evening classes since February, 1951. He is married and has three children and at present is assigned to Sandia Corporation while on duty as a captain with the Air Force.

Bob Creveling received his bachelor of science degree from California Institute of Technology. He also attended Texas A&M and New Mexico School of Mines. Bob and his wife have two daughters, one of whom is a sophomore at the University.

Stan Locus attended the University of California where he received his bachelor of science degree in electrical engineering. Stan is married and has one child.

Toastmistress Club Meets with Group From Albuquerque

Turquoise Toastmistress Club held a joint dinner meeting with the Tanoan Club May 21 at the Coronado Club. Virginia Miller, Toastmistress, conducted the program for the evening, a panel type discussion with a travel theme. Speakers for the Tanoan club were Mary Menaul, Gertrude Herring, and Videll Hudder. Mildred Harris and Rita Wineberg spoke for the Base club.

Big Ten Alumni Picnic June 8

Albuquerque alumni of Big Ten schools will join forces Sunday, June 8, and have a picnic in the Sandia Mountains at Doc Long's recreation area. The affair will get underway at 10 a.m. and those attending are asked to bring their own food and water. Various forms of entertainment will be furnished for the youngsters and older participants.

The picnic is sponsored jointly by the alumni groups from Ohio State, Purdue, Indiana and Illinois. Alumni of the other Big Ten schools are invited to attend.

Officers Elected By ISA Members

The Instrument Society of America elected Whitey Hollenback, 1533-4, their new president at a recent meeting. Ted Morse, 1530, was named vice-president; and Dick Richards, 1282, is treasurer. National Delegate is Bill Beal.

At the next meeting of the Society a talk on "Altitude, Temperature and Humidity Applications," will be presented by Mr. Tom Lopiccolo, of Bowser, Inc., manufacturers of low altitude test chambers.

The talk will be held at the University of New Mexico, Mitchell Hall, 8 p. m.

Safety Director Will Speak at AEC Meeting

A. Burton Metzger, corporation Safety Director, is scheduled to speak at the annual conference of the Atomic Energy Commission to be held at Richland, Wash., May 27 and 28.

Two separate talks are scheduled. One is on the subject of Explosive Vapors and the other is on Micro-waves.

"The Great A-Bomb Robbery"

by Bob Considine
(International News Service Correspondent)
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This series of articles is reprinted in the Sandia Bulletin by special permission of International News Service. This is the first of 11 articles.

This is the story—as it never has been possible to tell it before—of how Russia stole the secrets of the atomic bomb and of the shadowy men and women who successfully engineered the most astounding international theft of all time.

The author—famed writer-reporter-columnist Bob Considine, devoted months of research gathering the facts. He talked with Scotland Yard men and atomic experts in England. He interviewed dozens of security officials, scientists and others in this country. He obtained access to information never before published. And he weaves it all into the fantastic, but true, story that begins here.

During the tense and costly years



INS Reporter Bob Considine tells in this copyrighted story the details of this great cloak and dagger mystery where . . .

when the United States, Britain and Canada were engaged in the creation of the atomic bomb, no known effort was made by any of the bomb's intended victims—Italy, Germany and Japan—to steal its devastating formula and beat the allies to the punch.

The grimly-guarded secrets of the bomb were stolen, however, by an ostensible ally—Russia—in the most daring, economical and sinister cloak-and-dagger conspiracy in history.

This and subsequent articles will attempt to place in proper perspective the men and women who participated in that spying coup and the methods by which these inconspicuous and often highly-educated and otherwise moral spies achieved their shocking goal.

They turned the world into two armed and fear-laced camps. They caused to be levied on nations still tottering from the costs of World War II the bankrupting burden of preparing for A-War I.

Justice Prevailed

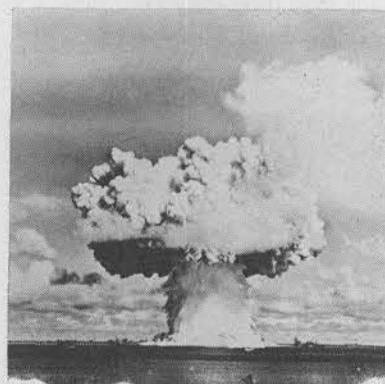
They are responsible, at least in part, for the heavy taxes which burden you, rising costs and public debts which will reach well into the 21st century.

Justice has landed heavily upon those who have been apprehended. But their deed is done and its excruciating success is measured by recurrent tests of the Soviet A-Bomb.

For a time in the annals of science it seemed the destiny of the axis to create the A-bomb. But political and racial persecution boomeranged in the faces of Mussolini and Hitler, providentially depriving them of the bomb.

While teaching at the Universities of Florence and Rome between 1934

The Thrilling Story of History's Greatest Threat—and Soviet Treachery



. . . Soviet Russia stole from United States the secrets of the A-Bomb and brought to the world the threat of a new war.

and 1938, Dr. Enrico Fermi, now of the University of Chicago, came perilously close to discovering that the uranium atom could be split and potentially produce undreamed of power. It is a popular tale in the realm of nuclear physics that an ill-placed bit of lead foil deprived Fermi of an even greater place in science than he now holds.

It can be reasoned, too, that the same bit of foil foiled Mussolini. For Fermi might well have been forced to divulge his discovery for

the "good" of the state. Fortunately, the distinguished Italian scientist fled Italy when it appeared he might be arrested for his anti-fascist view. His work with the U.S. bomb was tremendous.

German Research

Late in 1938 Dr. Lise Meitner, working with the great German physicists Hahn and Strassman at the Kaiser Wilhelm Institute in Berlin, made the startling observation that uranium bombarded by the sub-microscopic emissions of radium was partly transmuted into two elements of approximately half the atomic weight of uranium—krypton and barium.

It was the most astonishing discovery of the age, for in one stroke it rendered obsolete every book on physics written since the time of the early Greeks . . . whose men of wisdom first decreed that the atom was indivisible. Plainly, Dr. Meitner had broken atoms and she sensed that she had opened the door to a world of explosive energy too overwhelming to comprehend adequately.

Nazi Persecution

But, before Dr. Meitner had an opportunity to relay her earth-shaking findings to her superiors at

(Continued on Page 3)

SANDIA BULLETIN

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A Startling Story Is Told

Today's critical world situation, according to a well-known reporter, has been greatly worsened by a pattern of intrigue which took place in New York, Santa Fe, Albuquerque and several other cities during World War II. It was at that time vital atom bomb secrets were stolen from United States not by one of our enemies, Germany or Japan, but by an ostensible ally, Russia.

Bob Considine, an International News Service writer, has told the story of this theft under the title "The Great A-Bomb Robbery", which begins in this issue of the Bulletin. The story is as fascinating "cloak and dagger" thriller as you have ever read. There is no fiction in the tale. It deals only with facts.

The story told by Reporter Considine is not only an entertainment piece. If it gives you food for serious thought it is accomplishing a mission. If it frightens you a little bit, a lesson is being learned. If you are amazed and horrified that such closely guarded secrets could be stolen so easily and economically you see what a formidable task exists today in protecting our country's interests.

This series of articles will tell the stories of many people but the names of Dr. Klaus Fuchs, Harry Gold, Sgt. David Greenglass, and Julius and Ethel Rosenberg will stay in your mind as the arch conspirators in this tremendous plot.

Secrets can be lost as easily through carelessness as they can through conniving. Perhaps a better title for this editorial would be "It Must Not Happen Here."

Long, Tedious Job Made Simple by Ingenuity, Skill of Sandia Employee

A couple of weeks ago Carl Burton, 2413, found himself faced with the job of tapping about 2000 holes in aluminum parts. This meant taking a small gadget called a tap and twisting it into and out of an already-drilled hole in order to make screw threads.

"It takes about a minute to tap a hole by hand," says Carl, "and since you're actually cutting the threads out of metal it tires your hand out pretty fast.

"The more I thought about those 2000 holes the more I thought there must be an easier way to do it. First I tried fitting the tap in a drill press. That worked fine going through the hole, but to get it out I had to release the tap and twist it out by hand."

Carl has a mechanical ingenuity born of years repairing farm machinery in his home town Roy, N.M., and when the drill press idea failed it wasn't long before he thought of adapting a portable power screw driver to tapping work.

"I started off by taking a tap and

fitting it into the end of one of the screw drivers that in turn went into the power machine. That was fine. The tap cut into the metal like it was cheese and then all I had to do was press a button and it reversed and came right out again.

"The trouble, I soon found out, was that taps come in different sizes to fit different holes and this way I couldn't switch taps. Finally I designed a gadget that would fit the power screw driver and at the same time adapt to any size tap."

The final adaptation is amazingly successful. It's easier, faster and more economical. There are no aching arms from twisting a stubborn tap any more, Carl taps 15 holes now in the time it took him to do one before, and he tapped all 2000 holes with the same tap whereas he would have broken many taps doing the same job by hand.

Where there's a will, they say, there's a way, and that about sums up men like Carl Burton—and American progress.



TAPPING IS EASY now that Carl Burton has designed an improvement that can be adapted to a power screw driver. The inset shows the new tapping tool he designed and the picture shows how it is used with a power machine on a heavy piece of aluminum. Screwed in the metal above it is the now old-fashioned hand tap.

AROUND THE DEPARTMENTS

Norma Combs, AEC, is combining vacationing and visiting. She is in Tulsa to see her mother.

Three of the girls in AEC vacationed in Las Vegas, Nev., last week. Betty Shaw, Lois Chilton and Betty Phelps who also reported sightseeing in Boulder City.

Fishing and resting at Eagle Nest were enjoyed by Phyllis Kallinowski, AEC, her husband and Betty Jean Lister, AEC, last week end.

Everyone is hoping to see D. B. Miller, 2350, back at his desk before long. At present he is at home ill.

Bill Simpson, 2351, and his wife were among those who attended a Musicales at the home of Senator and Mrs. Clinton Anderson May 11.

Ted Perlman, 1232-1, is passing out cigars and candy to announce the birth of a brand new daughter. Seven-pound Janine arrived at 4 a.m. on May 12. Congratulations, Ted!

A visit with friends and relatives recently took J. B. McCullor, 1232, to Ardmore, Okla.

Department 3230 personnel has moved from bldg. 834 to 813. They are about settled in their new location and everyone seems very pleased with the change.

At home on the base now are Ken Sutton, 3231, and his family. The new address is 3238-D on "A" St.

He finally finished his patio, reports Sid Gasser, 3231. For quite some time Sid was asking for volunteers around the office to come to his "cement party."

Milton J. Lew, 2235, is a proud new papa. His son, Steven Gary, arrived May 3 weighing 6 pounds.

Several Sandians were among the group of former students at the University of Illinois who helped form an Albuquerque Alumni chapter May 14. Officers were elected and plans were started to enlarge the chapter. Sandians who are interested in joining may contact Ray Delicath, ext. 26160.

J. K. Merillat, 1921, and wife and two children have been vacationing in the old home town of Topeka, Kans.

Capt. John Crone, 5421, and Stan Lucus, 5412, who have been doing graduate work at the University of New Mexico, have been made members of Phi Kappa Phi, honorary scholastic society.

The personnel of 2351 celebrated the birthdays of the month on May 12. Lamar Treadwell, Gordon Marney and Oliver Ash were honored.

Fellow workers are hoping to see Ruth Acher, 2352, back on the job before long. At present she is recuperating at home after a minor operation at the Veterans Hospital on Apr. 28.

Alfredo Montoya, 2352, and his family are enjoying a two-week vacation in Mexico City.

Packing, moving and then unpacking is keeping Bob Kronberger, 2351, and his wife busy. They are moving into their new home at 3039 N. Jackson.

After one year of patient waiting Helen Sanchez, 2416, has finally attained her greatest desire—a brand new '52 Chevrolet. It's a special color too! A snappy metallic green. Helen has promised everyone in the office a ride one of these days soon.

Harry Shultz, 4135, has moved into his new home and now joins in with the moans and groans about dust, fuss and taxes.

Visiting her mom and dad took Lillian Kraus, 2461-3, to Bellflower, Calif., for a week's vacation.

A little home decorating by means of wielding a paintbrush is on the vacation agenda for Bill Meyers, 2234.

Congratulations to Camille Rudeau, 2231, on the May 2 arrival of Lewis Alexander. Lewis tipped the scales at 5 pounds 1 ounce.

Herman Calvery, 2231, was a surprised and pleased man on May 10. One of his fellow workers baked him a birthday cake and the whole office had cake and coffee during rest period.

Robert Finley, 2230, and his wife are vacationing in Aurora, Ill. They plan to visit relatives and renew old friendships.

House repairs are keeping Fermin Vallejos, 2234, busy during his vacation.

The welcome mat in 5411 is out for Frances Tennesen. Frances recently transferred from 1810.

A trip to see his sister in Inyokern, Calif., took H. H. Patterson, 5411, to the orange blossom state recently.

Vacation time recently took F. R. Grosvenor, 5412, to Florida and his old home state of Michigan.

Bradley R. Morgan is the latest addition to the household of Paul R. Morgan, 2335-2, as of April 19. Congratulations Paul!

Virginia Southerland, 2464-1, visited friends and relatives during her recent vacation. She reports having a wonderful time sightseeing in Los Angeles, Las Vegas and Salt Lake City.

Vacation plans for Ellen Cunningham, 2461-2, include relaxing in her new home and catching up on some of the things she has been planning to do around the house.

Just returned from Hartford, Conn., is A. L. Middleton, 5415. He represented New Mexico, Texas and Oklahoma as Director of the West Coast Division at the annual directors' meeting of the American Radio Relay League.

Ted Sherwin, 3125, and family are in the midst of a vacation which is taking them to their old home in Wyoming.

Pat White, AEC, is in Denver attending a meeting of the Federal Agencies Inter-departmental Motor Equipment Conference.

If you can't find Fred Callahan, 2235, when you stop by to see him at his new home on Milton Court, chances are that he's in the back working on his new lawn.

Personnel in 1921-2 and 1922-2 were entertained at an open house by Bill Scott, 1922-2, on the evening of May 9. Bill has just moved into his new home at 6012 E. Hannett. Everyone reports having a wonderful time.

The recent birthday of Jessie Greenwall, AEC, was celebrated in a big way. Three different groups gave her a surprise party, complete with cake.

Organization 4135 is proud of Bernice Armour who was recently elected president of Beta Sigma Phi. Bernice, Marvee McPhee, 2122, Eileen Poindexter, 2122, and Hazel Vance, 5241, attended the sorority's State Convention in Carlsbad May 17 and 18.

Charles Ross, Sr., 2232, was visited by his Army son recently prior to the boy's going overseas.

Returning from a trip to Brinkley, Ark., and Kansas City, Mo., are R. C. Clifton, 2221, his wife and two children.

Princess of Alpha Psi chapter of Beta Sigma Phi is a new title and honor for Allene Poindexter, 2221-1. She will represent the group at the Yellow and Rose Ball at the Hilton Hotel, May 24.

Civic-minded Bob Brook, 2221-2, is serving as umpire for several city teen-age baseball and softball leagues.

Returning recently from a trip to Farmington is Bob Islas, 2461-3. Bob visited his parents.

Combining the State Mail Carriers Convention and a visit with her parents, Dora Zamora, 2461-3, and her husband vacationed in Las Vegas, N.M., May 16 to 18.

The girls in 2461-3 had a farewell chicken dinner May 15 for Mary Jean Manning and Norma Jean Quirin. Both honorees were presented gifts.

Eleanor McPhate, 4131, is home from the hospital and it shouldn't be long until she's back on the job.

Everyone in 4130 wishes Helen Swanson a "bon voyage." Helen's destination is Germany.

"It wasn't actually work, it was a pleasure," says Silvero Lujan, 2232, of his recent vacation. Silvero spent the entire time working on his new home.

Co-workers of Al Vinsant, 2232, are anxious to see some of his prize catch when he returns from his Arkansas vacation. Before he left Al announced that he planned to do nothing but fish and loaf.

Vacation time should be profitable for Adolfo Sanchez, 2232. He plans to begin work on a new home in the west part of town.

There's a new Ford owner in 2232. Ora Nairn plans to motor to Kansas to break in the new auto.

Byron Stewart and James Coleman and family, both of 2232, report having a grand time on their recent fishing trip to Elephant Butte.

Congratulations to the new grandmothers in 1920. Frances Odle, 1922-2, announced the arrival of a grandson, Lynn Loson Petersen, Apr. 25. Dolly Willis, 1921-2, has a new grandson, Michael Lorenz Willis, born May 3. His father is Guy Willis, formerly of 1600, now on duty with the Navy at Sandia Base.

Bob Blount, 1921-2, spent the Mother's Day week end with his mother in Artesia.

Congratulations to Bill Galloway, 2532, on the Apr. 20 arrival of a son. John Carleton Galloway II weighed in at 9 pounds 11½ ounces.

L. J. Biskner, 2530, is the proud owner of a new Studebaker Commander Starlite.

Ben Kirkpatrick, 1241, took his family on a trip to the Carlsbad Caverns recently. Everyone had an enjoyable time, although Ben brought back a cold.

Dick Parkison, 1241, was sick for several days. Glad he made such a speedy recovery.

"Painting, puttering and just relaxing," reports J. H. Simmons, 2412, when asked what he did on his recent vacation.

George Armijo, 2423-2, is in Raton visiting relatives during his two weeks' vacation.



(Continued from Page 1)

Germany Had Given Up in Atomic Race—Considine Reports

the nazi-dominated institute, she learned that Heinrich Himmler's exclusion act would force her to leave Germany because she was partly Jewish. She took the discovery out with her, starting the human chain reaction which reached fruition in the U.S.

The men she left behind her, one of whom (Otto Hahn) won the Nobel Prize in chemistry for enlargements on her work, toiled only sporadically at the creation of A-bomb—though for a time this country considered itself in a desperate race to beat Hitler to history's most devastating explosive.

By the time our evaluation teams were able to probe Germany's atomic energy program, before V-E Day, they learned that German scientists were so skeptical about the possibility of an A-Bomb that they had directed much of their study to the release of atomic energy for industrial purposes.

To understand the enormity of the eventual robbery of the bomb secrets by agents of the USSR one should first understand the tremendous wall of security we placed around our bomb-building activities.

Mails Not Trusted

To begin, the little group of scientists who knew an atomic bomb was possible would not even trust the U.S. mail to deliver the historic letter from Prof. Albert Einstein to President Roosevelt, the springboard of the \$2 billion Manhattan project which produced the bomb. The letter, instead, was carried by hand by Alexander Sachs, and several tense months were lost while he waited to gain admission to Roosevelt's office.

After the Army entered the picture it set up, under Gen. Leslie R. Groves, a 250-man security force unique in our annals. That it was in time punctured, notably by Dr. Klaus Fuchs and Harry Gold—now serving 14 and 30-year prison sentences, respectively—does not detract from the cloak-and-dagger drama of its activities.

It protected and was the "keeper" of top scientists attached to the project (most of whom had code names). It operated in a realm of espionage and counter-espionage well above the reach of the F.B.I., whose agents it would not permit near certain installations.

Super-Security Practiced

It censored or stopped mail of MED (Manhattan Engineering District) employees. It had men in Switzerland and Sweden not averse to kidnapping German physicists who ventured there for lectures. Or shooting them.

It built what amounted to a private insane asylum for a naval officer who became a psychiatric case after absorbing too much valuable information at Oak Ridge. It feared that if he were placed in a regular asylum he might talk. It maintained an agent as a bartender at the La Fonda Hotel, Santa Fe, N.M., frequented by scientists and technicians attached to super-secret Los Alamos laboratory, where the bomb was assembled.

It instructed chief librarians in public libraries of large cities to get the name and address of any person who sought information about nuclear energy or asked to see a Saturday Evening Post article written about 1940 by William L. Lawrence of the New York Times envisioning an atomic bomb.

Under Groves' system of "compartmentalization" most of the scientists on the project were permitted to know what the man on the left or right was doing, but not the men beyond that. Some top scientists, including Fuchs, to his indignation, were barred from visiting installations aside from the one in which they worked.

Firemen Excluded

Fuchs was specifically barred when he requested an assignment at or a visit to the Hanford (Wash.) plutonium plant. Harry S. Truman,

when head of the powerful Senate War Investigation Committee, was not permitted to enter the Hanford plant and is said to have been told flippantly by a guard that the plant was making bubblegum.

Firemen who responded to a fire inside the gates at Oak Ridge were denied admission, because they lacked credentials. The building burned to the ground. The Mayor of Cambridge, Mass., was investigated because he said, at a dinner party where Dr. James Bryant Conant was a guest, that the U.S. was making a powerful new explosive in Tennessee and shipping it to the Pacific by way of San Francisco. (Turned out, after Conant reported him to Groves, that he had in mind RDX—a putty-like extra high explosive.)

Security Leaks Feared

One day at the Pentagon a corporal who worked at Oak Ridge demanded to see Groves. He was admitted and then blurted:

"I want to make a complaint against the Army's handling of Oak Ridge. I have enough scientific background to know we're attempting to make an atomic bomb, and..."

Groves nodded to an aide, invited the corporal to sit down and chatted with him for half an hour—just long enough to enable an aide to photostat all the papers in the briefcase the corporal left in the outer office. Groves was urged to send the corporal into a combat group, but he refused for fear that he might be captured.

On Aug. 21, 1944, nearly a year before the first atomic bomb in history was tested successfully at Alamogordo, N.M., Arthur Hale, the radio commentator, broke a story about it—written for him by a conscientious objector leg-man who knew a man at Illinois Tech whose roommate worked on the project and had spilled the beans. The "conchy" thought the broadcast might make Hitler quit.

Commentator Scored

The broadcast was heard by a G-2 officer, who immediately phoned Groves, who ordered that all associated with the program be brought before him. Hale was taken severely to task by Groves, and then ordered to return to the air as if nothing had happened. Groves did not wish Hale's many listeners to wonder why he had stopped broadcasting after mentioning something called an atomic bomb.

In the fall of 1944, war bond officials invited Dr. Frederic Joliot-Curie, co-winner of the 1935 Nobel prize in chemistry for his work in the artificial production of radioactive substances, to fly to New York to speak at a sales rally.

MED's security office assigned Col. Tony Calvert to intercept him. Calvert moved in on him at the Dorchester Hotel in London and stalled him—on the excuse that bad weather had grounded planes out of Prestwick—until he missed the speaking date. Part of the stalling process included placating the Frenchman with a suit and a camel-hair coat.

Joliot-Curie, a communist sympathizer, had been the only top-notch atomic scientist who refused to stop publishing scientific papers during the war. MED blocked him because it felt he would certainly meet with friends in our own advanced atomic research program in the U.S. and take back what he learned to Paris, and then to Moscow.

Dreamer Watched

A woman who telephoned Dr. Arthur H. Compton at the University of Chicago's Argonne Forest Laboratory long before the first bomb was detonated, to tell him she had dreamed we made "an atomic bomb that destroyed Berlin," was immediately visited by Capt. Jim Murray, a MED man, who talked her out of writing her dream to the Chicago Tribune and other papers. Capt. Murray gave her his private phone number and extracted her promise that she would call only him if she had other dreams about some preposterous thing called an atomic bomb.

Many of the scientists attached to

the Manhattan project were of draft age. MED could not get them exempted because it could not tell draft boards the reason. It would permit them to be drafted, go through basic training, then have the army reassign them to their old work. Many rebelled against the vast pay reductions.

Prof. Clarence Hiskey, working on the project, aroused the suspicions of MED's security unit. It was strictly against Gen. Groves' practice to allow the kind of A-Bomb hearings or "tell-all" trials that followed in the wake of V-J day. An aide discovered that Hiskey—now comfortably on the faculty of Brooklyn Poly—had an ROTC background. He was preemptorily called into service and banished first to a quartermaster unit on the Canal project in the Western Canadian wilds and later to a Pacific area by-passed by the war.

Scientist Drafted

Another suspected scientist, after being drafted, was held over in training camp for five consecutive "basics." He became America's best-trained and least-used G.I. Nobel prize winner Niels Bohr (1935, for physics), the scientist who brought Lise Meitner's revelation to this country, and later was spirited out of nazi clutches in the bomb-bay of an RAF "Mosquito," wrote a comprehensive paper on the still-unrevealed bomb and gave it to his friend Supreme Court Justice Felix Frankfurter. MED sternly demanded that Frankfurter surrender it, which he did, and returned it to him after the war.

In all, about 750 agents (500 of them FBI) worked in or on the environs of the A-Bomb project, which employed 225,000 directly and another 600,000 indirectly. But they were defeated by forces beyond their control or by forces too innocent-looking to arouse suspicion. It was (and remains) the costliest defeat in the history of the Republic and of free men.

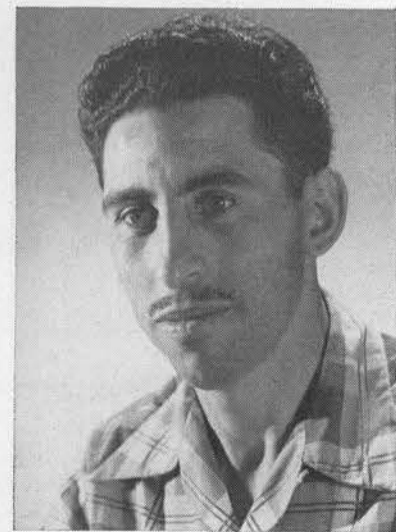
(Next Issue: Russia learns of our A-Bomb efforts.)

Tool Engineers To Hear Talk On Modern Steels

"Modern Steels and Their Uses," will be the topic of a lecture to be presented at the American Society of Tool Engineers' final meeting of the season. Time and place of the meeting will be announced at a later date.

The speaker, Mr. T. O'Neil, West Coast manager of the Carpenter Steel Co., will conduct a discussion period following the lecture and he will be available for questions on problems pertaining to steel.

What's My Line?



Less than 200 years ago this man would probably have been burned at the stake as a sorcerer if he performed just once what he does every day here at Sandia. Even to our modern eyes his work has a quality of "magic" about it. His job requires him to be on his feet most of the time and it also requires a certain knowledge of chemistry and delicate instruments. While he is a competent technician it can truly be said that he is in the dark about his work much of the time. (The answer is on page 6.)

BUCKINGHAM PALACE

8th April, 1952.

Dear Larry

The Queen commands me to write and thank you for your kind letter.

Her Majesty was deeply touched by your thought for her in her sorrow.

Yours sincerely,

Lady-in-Waiting.

Master Larry Evans.

LETTER FROM A QUEEN is read by Patti Evans, 4222 (1230), and her son, Larry. Larry, a student at Whittier school in Albuquerque, wrote to Queen Elizabeth of England expressing his sympathy at the death of her father.

Remote Control Television Camera To Be Demonstrated At AIEE Meeting

A complete television camera set-up connected to remote viewing stations will be in operation for a demonstration to be sponsored by the Northern New Mexico Section of the American Institute of Electrical Engineers on Monday night. The demonstration will be held in the Hospitality Room of the Southern Union Gas Company, 723 West Silver Ave., at 7:30 p.m.

The General Precision Laboratories are presenting the demonstration. More than two truck loads of the latest equipment used in con-

ventional telecasting and in wired television will be included.

The camera and viewer used in this demonstration are unique in that the camera is wired to the television set and controls on the set operate the camera remotely. A person watching a screen on the viewer can change the focus in the camera a distance away or cause it to move from side to side or up and down.

The demonstration is open to the public.

Speaking of Reporters

This is another in a series of personality sketches telling of the Sandia Bulletin reporters who write news of you and your co-workers.

The life of an Army wife is never monotonous and if you doubt that go talk to Mary Helen Sharkey, 2230. Mary Helen has been married to an Army man for 12 years and during that time she's traveled the length and breadth of the land and held jobs ranging from secretary to telephone operator.

She met and married John Sharkey just before the war started and for a year while he was in North Africa Mary Helen worked in a Boston defense plant on the assembly line.

John was wounded, sent home and reassigned to a base in Florida. There for a short time Mary Helen worked in a year round resort near Talahassee acting as a combination secretary and bookkeeper.

The next move was back to Boston where Mary Helen became a Western Union telephone operator. Seven months later John was transferred to Los Alamos and Mary Helen went with him to take a post as secretary with a contracting firm there.

In 1949, a master sergeant by now, John was transferred to Kirtland Air Force Base and that's when Mary Helen came to work with us.

Early last year she began reporting for the Bulletin and since then she's



Mary Helen Sharkey

faithfully contributed news of her department to every issue.

"It's a lot of fun," Mary Helen says. "The only time I ever did anything like this was when I was a sports-writer for my high school newspaper in Watertown, Mass."

Besides working at Sandia Mary Helen keeps house and takes care of their 7-year-old son. Her hobbies? "I like to read mystery stories," she says, "that is, when I'm not dancing."

Husband And Wife Team Up to Teach Themselves A Hobby Which Is Centuries Old But Still Unusual to Americans

It sounds almost like Utopia. Here is a man and wife who not only make some of their own clothing but they weave the material which goes into it.

Max Linn, 1810, and his wife, Jackie, started out in search of a hobby and chose home-made furniture. When they came to the problem of upholstery material they decided to make their own. Today the furniture making has been delegated to a position of lesser importance and the weaving has become an engrossing and profitable pastime.

The Linns are unassuming in their unusual hobby and take their accomplishments much as a matter of course, but a look at the material they have made is a pretty good indication of their skill.

Use Two Looms

A room in the Linn home is devoted to the weaving hobby. They have two looms and other equipment for winding yarns onto the shuttles and even a pint-sized loom which they use to make samples of the big product before they tie up the larger looms.

The wool comes in the same form as does knitting wool and it is easily handled and stored until ready for use. The Linns keep a good-sized supply of the material on hand and usually have some work on the looms or just about ready to start.

It was about three years ago when they became seriously interested in the hobby. The first few pieces of material they made were used in clothing for themselves. Later they sold the material by the yard to acquaintances and friends and now find that they have the best luck weaving the material and then making it into coats, jackets, suits or other garments. Jackie is the tailor for the finished product even though she seldom tried her hand at it before they started their hobby of weaving. However, the completed garments testify to her skill.

Taught Themselves

"There's nothing new about the way we do our work," Max explains, "we work the same way they did in the year 1200 only our looms are better." They work at their "jobs" whenever the notion strikes them and apparently that is quite often for several beautiful pieces of material are in the loom room most of the time.

It's fascinating to hear the Linns

More— Around the Departments

Fellow workers are hoping to see Ora Brooks, 4135, back on the job before long. Everyone was sure she had the mumps but it turned out to be an infected ear.

Two of the personnel on vacation from 4135 are Bernice Andrews and Lou Dowd. Bernice went to Chicago and Lou visited Melba Beach, Calif.



THE WEAVING ROOM at the Linn home is a busy place when Max and his wife Jackie concentrate on their hobby. Max wears a jacket which he and his wife made and over Jackie's arm and in the background are more materials which are the products of their looms.

tell of their hobby and how they read a few books to learn the art. "There were no special teachers," they say, "we learned by trial and error."

And the looms have a fascination about them too. It's a pleasure to touch their smooth finish and secretly wish you could run off a new

sport jacket or maybe a tweed suit for your wife.

Max and his wife report that furniture movers too hold the looms in a sort of reverence. "They treated them like they were fragile china," the Linns said, "and were quite proud that not a scratch has appeared on them in moving."

Engagements

The engagement of Joan M. Armijo, 2224, to Sgt. Gerald F. Goodman has been announced. A July wedding is being planned followed by a honeymoon in Canada. Joan is an Albuquerque girl and Gerald, now stationed at Kirtland Base, is from New York and Montreal, Canada.



Miss Armijo



Miss Carrillo

Plans for a wedding in the near future are being made by Lucy Carrillo, 2536, and Chris Quintana. Lucy and Chris are both from Albuquerque. She attended Albuquerque high school and he is a graduate of St. Mary's. Chris recently received his discharge from the Air Force.

Sandia PTA Slates Festival for Monday

The annual May Festival of the Sandia PTA will be held next Monday at 5:30 p. m. on the lawn of the Sandia Base School. Virg Harris, 5213, vice president, has been working on arrangements with the teachers, mothers, and PTA executive board to make the Festival "the gala affair of the current school year."

Featured events will be father versus son foot races and ball games plus free movies for the children. The movies will begin about sundown in the school gymnasium.

Plans for an extensive summer recreational program for the children will be announced at the party, according to Virg. Parents of pre-school children have been invited to take this opportunity to get acquainted with teachers and officers.

Refreshments including hot dogs, relishes, cold drinks and coffee will be furnished by the PTA. Mrs. Gwen Dickson, food committee chairman says there will be plenty of food for all, but if anyone runs out the school principal, Leonard DeLayo, will personally buy their dinner.

What's Happening at the... Coronado Club

Tomorrow night the Coronado Club will be turned into a combination of old time vaudeville and honky-tonk for the gala Gay 90's party. There will be a big show reminiscent of the dear-old-days-gone-by performed in full costume. And if you want to dig into that old trunk and dust off Daddy's duds or Mama's millinery—go right ahead, get into the spirit of the Gay 90's.

Next Tuesday night the wives will have to plan an evening at home because it will be Men's Night at the Coronado Club. Besides free beer and sandwiches an informal talk will be given on "Places to See in New Mexico." The speaker will be Frank Stuart of Bowman's Travel Agency in Albuquerque.

Following the talk a sound movie will be shown entitled, "Travel in Time." It's a TWA travelogue dealing with the Mediterranean area. It's all free to members and 50 cents for guests. The time? From 8 p. m. 'til?

Know Your Bridge

Starting Monday night, special lessons in bridge will be given at the Club by Mrs. Della Hampton, for years an experienced bridge teacher. Knowing how to play bridge comes right next to knowing how to spell in this modern world of ours so you'd better get right down there on Monday night.

Mrs. Hampton will lecture for one hour, from 8 to 9 p. m. and from 9 to 10 p. m. there will be supervised play. The game is Culbertson bridge, the instruction is free. Don't miss it.

The fifth of June is duplicate bridge night again. Everyone donates 25 cents and then battles it out for a series of cash prizes. Play starts at 7:45 and lasts until 10:30 p. m.



MR. AND MRS. RAY ARVIDSON were honored at a reception in La Caña Room of the Coronado Club recently after their wedding in the Sandia Base Chapel. Ray is in 1521-1 and his wife, the former Ruth Braun, works in 3170.

Magicians to Plan Show for Public

An executive meeting of the Magicians Club will be held tonight at the home of Al Spengeman, 4150, secretary. The club officers will discuss plans for a public show tentatively scheduled for this fall.

The next regular meeting of the club will be held at the Franciscan Hotel, June 6, 8 p. m. Club president, Charles Dodson, 210, has urged those interested in joining the club to contact Dr. C. N. Hickman, 1400, membership chairman, at ext. 27131.

PROMOTIONS

HOWARD J. SMYTH, Jr., has been promoted to Division supervisor of 2461. He is a veteran of three years service in the Navy and upon discharge he completed his studies at Boston University where he received a B.S. in education. Howie spent a year at Haverhill high school, Mass., as social studies teacher and athletic coach and for three years prior to joining us he was social studies department head and athletic coach with the New Milford, N. J., public school system.



L. F. EARLAN KOEHLER was recently promoted to supervisor of section 2416-3. He joined us early last year with nine years contracting experience including two years as construction supervisor for a local contracting firm prior to coming to Sandia. Earlan has also at different times owned a 2,480 acre cattle ranch and a summer resort both in Texas for a total of seven years. For two years he was chief building inspector with the Army Engineer Corps. He studied architecture at Rice Institute.



EDITH B. PERRY has been promoted to section supervisor of 2464-1. Before joining us last year she was managing editor of a New Mexico newspaper for a year. She also worked in the Salvation Army public relations for a year. Edith has an M. A. in English literature from the University of New Mexico where she also did part time English teaching. She received her B. A. in English literature from the University of Akron.



JAMES H. HOCKETT was recently appointed section supervisor of 2464-2. He came to the Laboratory in early 1951 after working for almost a year as accounts manager of General Motors Acceptance Co. in Albuquerque. Jim served for two years with the Navy and after returning to civilian life he attended Springfield Jr. College and St. Louis University. He also studied business administration at a Missouri business college.



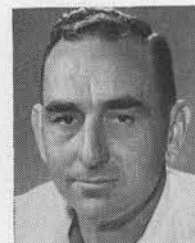
ERNEST C. PETERSON has been named section supervisor of 2512-1. He joined Sandia in 1950 after four years with Western Electric Company, Inc., in Lincoln, Neb., where he worked in personnel employment and placement. For half a year before that Ernie was in employee interviewing with Nebraska State Employment Service. He is a veteran of four years service in the Army and he has a B. S. in mathematics from the University of Nebraska.



SAMUEL A. MOORE was recently appointed division supervisor of 1322. He is a graduate of Rhode Island University where he received his B. S. degree in mechanical engineering. Sam's experience prior to joining us in 1949 included almost nine years as a turbo jet performance engineer, engine test engineer, and power plant engineer. He was a power plant engineer while in the service as an Air Force captain.



JAMES L. HODGES is the new supervisor of section 2416-2. He came to us in 1949 with 13 years experience in contracting and carpentering work. Jim spent two years as shop foreman for woodworking firms in Carthage, Mo.; a year in carpentering for Civil Service on Sandia Base; three years as a private contractor; four years as paint shop sub-foreman for Northrup Aircraft Corp.; a year and a half with Douglas Aircraft; five years in fixture shops; three years in the Army; and two years in general carpentering work.



BEULAH SUTHERLAND is the newly appointed section supervisor of 5243-3. She came to the Laboratory in 1948. Previously Beulah spent four years at the University of New Mexico and the New Mexico School of Mines as a technical analyst. She holds a B. S. degree in psychology from the University of New Mexico.



CHARLES K. REED has been promoted to supervisor of Section 1931-2. He came to Sandia in 1949 after two years in expediting and production control with Crosley Motor Co., Marion, Ind. Prior to that he spent another two years in expediting and production control with House Trailer Manufacturing Co. in Marion. Charles also has a total of four and a half years with General Motors, Inc., where he was production and precision equipment supervisor. He is a veteran of almost four years in the Air Force.



AWARD OF HONOR presented to Sandia Corporation by the National Safety Council is displayed in the lobby of Bldg. 800 and will be on display throughout the Technical Area the next few months. The award was made in recognition of the company's exceptional safety record for 1951.

