

SANDIA LAB NEWS

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ALBUQUERQUE, NEW MEXICO

FEBRUARY 10, 1956

Antitrust Action Settled Through Consent Decree

The Government antitrust action instituted on Jan. 14, 1949, against American Telephone and Telegraph Company and Western Electric Company has been settled by a consent decree entered by Judge Meaney of the U. S. District Court on Jan. 24, 1956.

In its original action the Government asked that A. T. & T. give up its interest in Western Electric, that Western Electric be dissolved, and its assets divided among three completely separate competing companies.

Entry of this decree does not constitute any evidence or admission of the allegations in the complaint. Mutual agreements negotiated with the Department of Justice to settle the case have merely been confirmed by the Court.

Under the decree the relationship of Western Electric Company with the Bell System as manufacturer, purchaser, distributor, repairer and installer will continue. Likewise the relationship of Sandia with Western Electric Company and the Government will continue unchanged.

The decree prohibits Western Electric from undertaking any business not of a type or character engaged in for the Bell System or the Government, requires licensing under United States patents (royalty-free under existing patents and at reasonable royalties under future patents), and requires the furnishing of technical information to licensees, and prohibits entering into agreements of various types and other action involved in the complaint's charges.

The provisions of the decree will have no bearing on our job of continuing to provide the material and services required by the Atomic Energy Commission and other associated agencies of the Government.

★ Storm Story Told On Inside Page

Sandia Corporation employees who spent long hours getting home the night of the big storm last week will be interested in knowing what went on at Sandia Corporation through the same night.

On Page 4 are a few pictures and a story of the trials and tribulations of a few men who assumed the responsibility of seeing others home safely or making emergency sleeping arrangements for those who couldn't get home.

'Imagination' Key To Achievement For Engineers

Dr. Phillip W. Swain, of Riverside, Conn., will address members and guests of the New Mexico chapter of the American Society of Mechanical Engineers Wednesday, Feb. 22. The meeting will be held at 7:30 p.m. in Room 101, Mitchell Hall on the University of New Mexico campus.

Dr. Swain's topic will be "Imagination, the Key to Engineering Achievement," publicity chairman Gene Gardner, 1224-2, has announced.

A consultant in technical writing and speaking, Dr. Swain formerly taught mechanical engineering at Yale University and has served on the editorial staff of "Power" magazine for 33 years.

He obtained M.E. and PhD degrees from Yale University and the D. Eng. degree from Case Institute of Technology. Dr. Swain is a Fellow of the ASME and is active in numerous engineering and professional societies.



Dr. P. W. Swain

Personnel Seeks 374 Engineers to Add to Staff

Sandia Corporation Personnel and Employment Department anticipates that 374 more engineers and physicists will be needed to cover expected turnover and increase in force at Sandia Laboratory before the end of 1956.

This figure was arrived at in a forecast of needs of the Corporation made recently by Frank Bell, supervisor of the Professional Employment Section.

Mr. Bell believes that 134 of these newcomers will be recruited from the graduating classes of accredited colleges and universities in United States. A break-down of the 134 figure shows these needs: Mechanical engineers, 58; electrical engineers 59; aeronautical engineers, 10; and physicists, 7.

Of the remaining 240 scientists needed, a bit less than one-half will be mechanical engineers and one-half electrical engineers. About 24 physicists will be needed, primarily men having PhD degrees.

It is anticipated that these persons will be employed through the combined efforts of increased advertising, referrals and recruiting.

The employee referral program instituted several months ago is continuing to result in more engineers joining Sandia Corporation. In charge of the program is George Stricker, ext. 26265.

Club Plans 1956 Art Exhibition

The Third Annual Coronado Club Art Show will be presented the week of March 25-31. Co-Chairmen of the event, Dick Strome and George Marks, both 2463, say that any Sandia Corporation or AEC employee, or husband or wife, may enter two pictures of any size.

Two divisions with three prizes in each will be established. Further details will be announced by the committee at a later date.



MEASURES RADIATION—Howard H. Sander, a Sandia Corporation engineer in the Weapons Effects Department, 5110, stands beside the instrument which helped measure radiation fallout from the 1955 test series in Nevada. The device showed that the total dose increase of background radiation in Albuquerque amounted to about the same one would receive by wearing a radium dial wrist watch for a year.

Radiation Here Presented No Danger Say Scientists Who Checked Fallout from Test

The rise in background radiation in Albuquerque resulting from the atomic tests in Nevada last spring was negligible, amounting to about the same dosage one would receive by wearing a radium dial wrist watch for a year.

This statement was made by Howard H. Sander, of Sandia Corporation's Weapons Effects Department, speaking before a meeting of the IRE Professional Group on Nuclear Science Wednesday.

Mr. Sander, speaking from a report co-authored by Dr. Thomas B. Cook, Jr., also of the Weapons Effects Department, explained that radiation here during the Teapot test series measured only 4.5 milliroentgens total dose increase over what it would have been had there been no tests.

Forty times this amount of radiation, or 180 milliroentgens, is received during a normal chest X-Ray, Mr. Sander said.

Dr. Cook and Mr. Sander obtained data for the report by monitoring radiation in the air with instruments mounted on the roof of a Sandia Corporation building. The instrument, designed to run continuously, was set into operation during January of last year.

The five-month study carried on here during the tests showed distinct increases in background radiation as prevailing winds from the test site passed over Albuquerque following each test explosion, but at no time was the increase sufficient to cause concern.

A normal radiation level was obtained by the scientists prior to the start of the tests. This figure, 0.0167 milliroentgens per hour, was the average radioactivity level measured in Albuquerque during the period before the start of the Nevada tests.

The 4.5 milliroentgens increase detected was the maximum additional dose that an Albuquerquean could have received during the test period, and that much only if he had remained outdoors 24 hours a day, Mr. Sander concluded.

BTL President Speaks to Sandia Supervisor Staff

Supervisory dinner speaker at Sandia Corporation this week was Dr. Mervin J. Kelly, President of Bell Telephone Laboratories and a member of the Sandia Corporation



Dr. Mervin J. Kelly —predicts defense—

Board of Directors. He was introduced by Dr. James W. McRae, President of Sandia Corporation.

Dr. Kelly talked to some 700 supervisors and guests about the present and future of national defense and stressed the importance of the part Sandia Corporation is playing in our defense program.

He predicted that the inter-continental ballistic missile and nuclear-powered aircraft will figure prominently in defense planning for the future.

Dr. Kelly served as chairman of the Task Force Sub Committee on Research and Development in the Department of Defense for the Hoover Commission.

Closely associated with the atomic weapons program for 10 years, Dr. Kelly was a member of the special study group in 1948 whose recommendations resulted in the establishment of Sandia Corporation as a separate weapons laboratory.

Later he headed a national committee investigating the adequacy of our "early warning" radar network. As a result of the report rendered by that group a greatly expanded protection system was authorized, designed to give maximum advance warning of possible air invasion.



SERVICE RECOGNIZED — Elizabeth Foley, 4133, received her award from James W. McRae, President of Sandia Corporation, for her service to the company which began in December, 1944. She was one of 24 Corporation employees to receive the 10-year award.

Max H. Howarth, Vice-President and General Manager, registers approval and, right, William E. Caldes, 5510, Sandia Corporation's "oldest" employee who received his pin for service since April, 1943. Elsewhere in this paper are names of others receiving awards.

Directors Meet

The Board of Directors of the New Mexico Council of Technical and Scientific Societies will hold a business meeting Monday, Feb. 13 at 7:30 p.m.

They will meet in the Warehouse Building Conference Room, University of New Mexico campus, according to Ken Overbury, 1615, Council vice-president.



SANDIA LAB NEWS

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Frances Ramsey, Dick Dickson, Assistant Editors
Robert S. Gillespie, Editor



Diligence of The Engineer

The course of civilization in the past has been pretty well charted by individuals who would be identified today as engineers.

There was that unnamed genius of the stone age who chiseled out the first wheel from a block of stone to set us all in motion. Or we may recall that deep thinker, possibly a Neanderthal man, who discovered that by using leverage he could move boulders twice as big as those his neighbors were moving by brute force.

These men were brothers under the skin of the men in the engineering profession today, just as were the great builders of biblical and medieval times. Some of the great ruins of the past which have been found in various parts of the world are monuments to those builders.

Today, with the basic economy of our country founded upon agriculture and industry, the engineer has taken on a great responsibility. Man's progress in both of these divisions is dependent upon the diligence of the engineer.

The discoveries of our scientists are of little value unless the great truths of nature are released and put to use in our every day life.

Henry Ford once said, "Whatever you have you must use or lose."

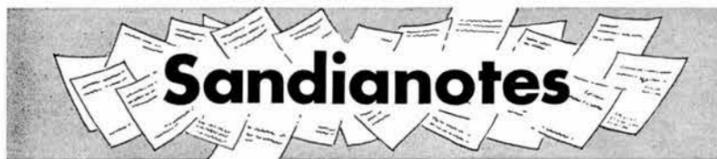
One of the early American scientists, Ben Franklin, carried on many electrical experiments. One of his friends asked—"Of what use is electricity?" Franklin's reply was—"What use is a baby? It might become a man."

The engineer has played an important part in the defense of our country, in the role of water supply, sanitation, fuel production, highways, transportation, communications, he has been an enormous aid to medicine, to aviation, steel making and a multitude of other fields.

The discoveries of the scientist have truly been put to use through the diligence of the engineer.



HEART FULL of Valentine Wishes is extended here by Wally Comer, 7225.



GOC Graduates

Recent graduates of a training course at the Ground Observer Corps' Air Force Filter Center at 146 Quincy NE include Jack L. Wilson 1652-3, A. R. Eiffert 7212, Leroy Hassebroek 7311-3, Doris Hankins 5122, Wayne L. Cyrus 7412-4, Doris Welch 2451, Dorothy Wilson AEC, John W. Voss AEC, Julian J. Joyce AEC.

The eight-week course teaches volunteer students how to receive and filter warnings of possible enemy aircraft in the area and how to plot locations of these aircraft.

Afghanistan Bound

Elaine Schwid, 7225 (5122, 5123), will soon visit with her family in Laramie, Wyo., before they leave for Kabul, Afghanistan. Her father, now a professor of mathematics at the University of Wyoming, will teach mathematics in Kabul for the U. S. Government.

Convention Speaker

The picture of Lt. Col. Thomas D. Harrison, a Sandia Corporation engineer in 2551, which appeared in the Sandia Lab News Dec. 30, 1955, has been reprinted on the cover of the New Mexico Professional Engineer. The photograph is of Col. Harrison receiving a DSM for outstanding service while a prisoner in North Korea.

Col. Harrison will speak to the New Mexico Society of Professional Engineers at the organization's annual meeting Feb. 25.

Hobby: Enameling

Enameling copper jewelry has been a hobby of Audrie Wilson,



2552-3, for over a year. Her specialties are earrings, cuff link and tie pin sets. Audrie assembles the copper pieces first, then applies multicolored enamels.

Snowbound

On "Blizzard Wednesday," Sid Merriam, 7241, and his wife Lois, 7225, were stalled for hours in their frozen car. They kept warm by making a fire of newspapers in the car. About 9:30 they sought refuge at 547 Wyoming to find, after they were admitted to the home of Julia Mae Mauldin, 18 or 20 others taking shelter there. Mrs. Mauldin was most gracious and served coffee. Since there were not enough chairs, the wayfarers dozed in shifts.

Wedding Anniversary

Mr. and Mrs. R. G. Hamilton, 1611, recently celebrated their 17th wedding anniversary.

New Home

Chris Christensen, 1631, has recently moved into a new home at 6101 Zimmerman NE.

Ski Enthusiasts

Now enjoying a ski trip to Squaw Valley, Calif., are Zelma Beisinger 5124, Marilyn DeBetty 7411-3, Ray Harrison 2441, and Kevin Moriarty 4121.

What's That Again?

Upon being informed that Art Grover, 1231, had his throat cut, friends were relieved to learn it was only a tonsillectomy.



NO FISH STORY — Posing in front of the "evidence," a 79" Sailfish he caught in Acapulco Dec. 27 is Harold Bolser, 4161, who says it took him 47 minutes to land the giant fish. With him on the 17 day trip to Mexico was Jim Tamer, 5216.

Thanks—Someone

Dolores Kaspar, 7225, is most grateful to an anonymous samaritan who saved her pet boxer from the big snow storm. The dog appeared next morning healthy and dry.

Passes Exams

Al Goodman, 5133, has passed the comprehensive examination which is required for his PhD degree in physics. Al expects to start on his thesis soon.

Ghia-Karmann Italianized

A 1956 Volkswagen recently acquired by Larry Platt, 1442, and his wife, Margaret, 2221, is probably the only auto of its kind in New Mexico. Larry describes the Ghia-Karmann sport coupe as "low, durable, plush, comfortable." It combines Italian styling with a custom German body on a Volkswagen chassis.

Orchids to Dave, Pat

A large bouquet of orchids arrived unexpectedly at the home of Dave Kleinecke, 5121, and his wife Patricia. The Kleinecke's were amazed to find their benefactor to be a horticulturist whom they met last summer in Peru.

Speaks to Military

Stuart C. Hight, Sandia Corporation Director of Research, has completed a series of three talks to Military Training Group of Manzano Base, Albuquerque. Subject of his talk was solar energy use and was based on his participation in the recent solar energy conference in Arizona.

Fair Warning

Sign on the foot-operated drinking fountain in Bldg. 880: "Old Faceful."

Volunteer of Month

LeRoy Hassebroek has been named Volunteer of the Month by the Air



ON TV—LeRoy Hassebroek, left, receives Filter Center award from C. M. Clendenin, 5242.

Force Filter Center of the Ground Observer Corps. LeRoy appeared Jan. 29 on the Center's TV program over KGGM where he was commended for publicizing the Center's activities in the local news media.

Named Commissioner

Malcolm H. Groll, supervisor of Accounting Methods Section 4113-1, will be installed Feb. 20 as Sandia District Commissioner for Boy Scouts.

The Sandia District in northeast Albuquerque includes 48 Scout units (pack troops and posts). Groll will recruit and supervise a staff of 18 men who service these units. There are approximately 2000 Boy Scouts in the district.

Active in the Scout movement over two years, Groll has previously served as Assistant District Commissioner and Neighborhood Commissioner.

Sandia Corporation, AEC Employees Called to Duty In Civil Defense Alert

Fifteen Sandians and four employees of the Atomic Energy Commission participated in the Civil Defense alert, "Operation Ready," in Albuquerque Jan. 25.

Assigned to the Communications message center at 1120 Stover SW were: Frank C. Low 1612-1, Charles E. Spriggs 2463-2, Cecil Kinney 2463-1, Annie Marie Blair AEC, Dorothy K. Petersen AEC.

Operators of mobile radio units included: James Lareau 5221, Brooks Braffett 1413, Robert Dawirs 1221, Buford Eagan 1224, Lloyd Hungate 5512-3, Keith Nelson 1442, Wiley Petty 5512-3, John Price 1414, Ralph A. Roane 1341, James Steuber 5223, Joe Knight AEC, Roland W. Russell 1611-4, John C. Barnes 1611.

I. H. Hart, Jr., AEC, served as liaison officer.

At 6:22 a.m. Civil Defense headquarters in Santa Fe issued a warning of a possible air attack. The

imaginary attack began at 7:45, and groups were dispatched to an "explosion" in southeast Albuquerque. At 7:57 an all-clear was sounded.

The exercise was conducted to test how quickly communications units can be activated in the event of a real attack.

Dance, Variety Show At Club Tomorrow

Dance at the Coronado Club tomorrow night will feature Jimmy Wilson's Orchestra and Bill Prevetti, disc jockey of radio station KDEF, spinning platters from 9-1.

A variety show and short skits will be staged by George Morrison of KOB-TV with local talent.

Admission for guests is 50 cents, members free.

Engineers Open Door To Great Future

"Engineers' dreams," says famed rocket expert Willy Ley, "are things that can be done."

Another eminent engineer recently wrote "... the engineer ... can do just about everything there is to be done."

Engineers' Week

These are the men who will be honored the week of Feb. 19-25 when the nation observes National Engineers' Week.

It would be interesting speculation to go back and search for the first engineer. The father of American engineering was probably George Washington. He, among other accomplishments, located and built the two most difficult sections of the present U. S. Highways 30 and 40. But long prior to his day, about 287 B.C., Archimedes fathered engineering in ancient Greece.

Engineering, as a profession, achieved real recognition in the middle of the seventeenth century. The first engineering society was founded in 1828.

At that time engineering was defined as the "art of directing the great sources of power in nature for the use and convenience of man."

How prophetic that definition be?

During the thousands of years from the carving of the first stone wheel to the taming of the atom's power, the story of the engineering profession has unfolded.

Recent Strides

But only recently, within the life span of man today, have the vast strides of engineering been made. Our grandfathers lived a technological life not too much different than a score of generations before them. We who are living now have seen The Great Change in the world. Who can predict what we will see in the next 10 or 20 years?

What is the nature of these men who have been engineers through the period of The Great Change? Is it a clan of supermen who have performed these miracles?

No, a look at engineers who have practiced the profession long and industriously convinces us that the engineer is merely a man who believes in Willy Ley's words that "engineers' dreams are things that can be done."

State Engineers To Observe Week With Convention

This year the week of Feb. 19-25 has been designated by the American engineering profession as National Engineers' Week.

New Mexico engineers will join in the observance of the week and have scheduled their annual state-wide meeting for Saturday, Feb. 25.

Five years ago under the sponsorship of the National Society of Professional Engineers, National Engineers' Week was initiated in an effort to acquaint the public with the facts about the engineering profession and the role it plays in our national welfare.

Throughout the nation more than 300 chapters of the National Society of Professional Engineers, together with other technical societies, will hold celebrations to honor the engineering profession and to encourage and attract talented young men and women of this nation to engineering and scientific pursuits.

The Feb. 25 meeting of the New Mexico Professional Engineers will include a Board of Directors meeting, luncheon and business meeting. Announcement of the results of officer election held by mail ballot will be made at the business meeting.

The annual banquet, open to all members of the New Mexico Council of Technical and Scientific Societies and their ladies will be held at 7:30 p.m. in the Alvarado Hotel.

Speaker at the dinner will be Lt. Col. Thomas D. Harrison, an electrical engineer in the Manufacturing Relations Engineering Department of Sandia Corporation.

Col. Harrison will tell of his experiences while he was a prisoner of war of the Chinese during the Korean conflict.

46 Years of Engineering Experience Professional History of Olav Nerhus

It was June, 1910, at Porsgrund Engineering College, near Oslo, Norway, that 19-year-old Olav Nerhus graduated as a mechanical engineer.

For 46 crowded and hard working years Engineer Nerhus has been



Olav Nerhus —46 years an engineer—

working there after school, weekends and vacations. Perhaps that was where he found his desire to be an engineer.

In 1911 he came to United States and in 1912 had his first job with the Minneapolis Steel and Machinery Company. After that he held a series of jobs in industry working as a tool engineer, tool and gage designer, as a design engineer and welding design engineer.

At Hamilton, Ohio, in 1920 he became an American citizen. His employers had such famous names as Pratt Whitney Co. and Ford Motor Company. In 1949 he started work for Sandia Corporation and has been in the machine tool end of the business since then. He is now in Sandia Corporation's Auxiliaries Engineering Department.

Olav, through all of his 46 years of engineering, has studied, read, and experimented to keep himself in step with the times. He has joined the American Society of Tool Engineers and the American Welding Society.

Olav's enthusiasm for engineering must have rubbed off on his son. Raymond Nerhus is a mechanical engineer for Bell & Howell in Chicago. Olav's wife, Anna, and daughter Mrs. Borghild Johnson, live in Albuquerque. His other daughter, Mrs. Marian Hisalsen, lives in Rockford, Ill.

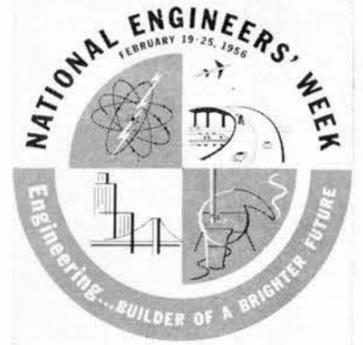
Engineer Nerhus will reach retirement age in April and at the present is uncertain exactly what his plans will be after that. Looking a mighty young 64 years and feeling even younger, Olav Nerhus says he plans to make the most of his retirement days.

"I probably will work some more," he says, reflecting the sentiments of the world's engineers who dream the dreams that can be done.



Olav Nerhus —the new engineer—1911—

Olav's father worked in a shipyard in Norway and as a student Olav



Stewart A. Bliss One of Nation's Newest Engineers

June, 1955, a new electrical engineer joined the ranks of the profession. Stewart A. Bliss, Jr., was a member of the graduating class of Alabama Polytechnic Institute at



Stewart A. Bliss —newcomer to science—

Auburn and he had accepted his first job. On the 27th of that month he started work in the Systems Development Division of Sandia Corporation.

Several thousand electrical engineers graduated from colleges and universities in United States that year and Stewart's story is much the same as many of them.

He was born in Birmingham, Ala., in 1933 and all through high school liked mathematics.

"Probably that's why I took engineering," he says.

His summers weren't spent resting in the southern sun. He worked as a draftsman for a cotton gin near Birmingham. He graduated from high school in Washington, D. C., where he was attending the Capitol Page School while working in the Capitol Building.

Sure for a long time that engineering was his field, he attended Massachusetts Institute of Technology for a year before going to Alabama Polytechnic Institute. Engineering truly was his field—he earned grades of "A" in such things as Engineering Problems, Electric and Magnetic Circuits, Application of Graphic Statistics, and Engineering Mathematics.

Stewart's grade point average for his college career was 2.12 — the highest possible was 3.00. School records show he was on the Dean's List, honored as a Distinguished Engineering Student, a member of Eta Kappa Nu and Tau Beta Pi.

"Maybe it travels in the family," says Stewart when he tells that his brother also will graduate in electrical engineering from Alabama Polytechnic Institute in June.

The Engineer Story

Above are the stories of only two of Sandia Corporation's some 1200 engineers. Not completely typical, but not drastically different are their life stories up to today.

With the observance of engineering week set for Feb. 19-25, we will all become more conscious of the engineers among us. New in the profession, or seasoned with years of experience, they are still average Americans, with the ability to see things that need to be done and the ability to get them done.

2-5-10 Year

Service Awards

Two-Year Certificates

Feb. 1-15

James A. Johnson 1245, Robert S. Nelson 7421, Roger P. Anderson 7411, Leslie L. Bury 7411, Robert G. Riskey 1451, Jessie L. Hodges 4153.

Feb. 5-11

John M. Bodene 2531, Ted R. Cannon 2713, Thomas E. Stone 2553, Martin Corney 2531, Earle A. Paxton, Jr. 3152, Mary D. McClure 7222, Kathleen L. Dillon 3164, James L. Foreman 7241.

Feb. 12-18

Maudie S. McCarthy 7225, Albert L. Ming 2483, Florian L. Rickert 2723, Willard L. Neese 7412, Elmer D. Whitener 2483, Mary J. Williams 3152, William S. Brady 7421, Ernest W. Hall 7412.

Powell M. Henderson 2452, William R. Helms 2452, Charles W. Tarbit 2713, K. E. Helmstadter 1621.

Feb. 19-23

Lewis C. Pearl 2452, Charles R. Freund 2452, Wendell W. Thomas 2464, Robert L. Boyles 2452.

Five Year Pins

Feb. 1-4

Rudolph Walter 2452, Dale G. Pipher 5531, Eugene Roybal 2419, Donald M. Hansen 2411, James B. Hiser 2452, Harold V. Catt 2710, David M. Reid 2419.

Robert Lynes 4123, Guadalupe Mireles 2252, Katherine L. Walker 5112, Bonifacio B. Grigo 2112, Joe A. Gurile 2418.

Feb. 5-11

William E. Baker 1284, Harold D. Chaffee 4122, Jack R. Sublett 2530, Walter Dzugan 3122, Albert M. Fellows 3152, Candido A. Micras 2352, James A. Deakin, Jr. 7241, Charles A. Fletcher 1611.

Norman Richardson 5213, Harry E. Bell 5231, Wayne F. Bottoms 2452, Piffie R. Chavez 2231, Jacob E. Isoma 2112, Malcolm K. Hann 2463, Max D. Engle 2571, Murt W. McMillen 2452, Vernon W. Moore 2452, James Ashcraft 2113, Carter W. Gibbs 7414, Lewis D. Walrath 2452, Bertha E. Berger 2711, Donald J. Jurgensen 2211, Ray E. Williams 1284.

10 Year Pins

Victor Reano 2417, Edward K. Bauer 1614, George J. Zimmerman 3171, Vences G. Chavez 2413, Pat Homan 2211, Walter J. Henderson 2531, Eugene E. Medina, Jr. 1614, Jose P. Sanchez 2232.

Harold L. Smith 2571, Barbara A. Angstadt 7225, T. L. Barry, Jr. 2122, William G. Foy 5216, Alfred R. Holmes 1472, Harold E. Burrell 2124, Marshall B. Ludlam 2452, Charles M. Jensen 5213, Allan F. Beck 5133, Lyle C. Guynes 7213, Paul E. Carlson 2722, Moses Loretto 2351.

Feb. 12-18

Edward C. Domme 2523, Arthur J. Eldridge 1652, Dorothy Schardon 2711, Thomas R. Arrington 5531, Lorenzo E. Gilbert 2722, Earl G. Coffee 2111, James W. Coughlin 7122.

Harvey D. Large 7241, Wilhelm E. Schorr 1283, Anna M. Martinez 2464, Raymond Suchiu 2713, Floyd W. Tate, Jr. 7122, George H. Davies 2452, Orval D. Wray 2418.

Orville L. Howard 5231, Samuel F. Boyden, Jr. 2231, Fred C. Coston 2122, Jose D. Jajola 2152, Gene A. Lucero 2721, La Vern J. Webby 2614, S. C. Gallegos 2419, Viola M. Gomez 7225, James R. Coleman 4153, Mary M. Criswell 4112.

John B. Hobart 2722, Mable L. Shoemaker 2532, Ramon Armijo 2124, Junior A. Woellhart 2414, Dalton W. Savage 5214, James H. Kimbrough 2452, Harry G. Cherb 2236.

Feb. 19-23

Paul A. Stieckler 2552, Frank A. Sanchez 2711, Millie Stout 2721, Eufemiano Garza 2353, Gilbert H. Weaver 2111, Wayne T. Welkenback 2723, Hugh R. Bowers 1611, Aubrey E. Hanks 2417.

Jack F. Hammerstran 2571, T. J. Dawkins, Jr. 2452, Ambrose M. Watson 2452, Martha J. Williams 2464, Fred C. Brockhausen 2231, Joseph F. Pordexter 2462, Robert G. Scharrer 2322, C. A. Goindeux 2462.

Harry A. Schultz, Jr. 7241, Opal M. Dogger 2461, Thomas A. Kelly 1631, James R. Holliday 2711, Joe L. Armijo 2722, Gilbert Atencio 2213, Jose R. Gonzales 2415, F. P. Tennesen 7225, Donald L. Tyson 2234, Kyle E. Benton 2211, Ruth J. Lilley 2462.



C. M. Abernathy Feb. 10



P. H. Dailey Feb. 11



E. D. Bales Feb. 13



I. D. Hamilton Feb. 19



D. S. Dreesen Feb. 22



W. C. Kraft Feb. 22

Two Sandians on Staffs of Defense Dep't Committees

Two Sandia Corporation scientists have received appointments to committees under the Department of Defense.

John H. Findlay, manager of the Electronic Component Development Department, is serving as a member of the Advisory Group on Electron Tubes.

Henry E. Vaiden, supervisor of Division 1452, of the same department, is a member of the Advisory Group on Electronic Parts.

These committees were set up by the Assistant Secretary of Defense for Research and Development. They are composed of representatives from the three branches of the military and other government agencies. Mr. Findlay and Mr. Vaiden are representatives for the Atomic Energy Commission.

The committees coordinate development activities and evaluate objectives of the military departments in the field of electronic tubes and parts.

Radio Club Meeting

Members of the Sandia Base Radio Club will hear Earl Fletcher, Electronics Engineer for the Lovelace Foundation, speak on "Modern Amateur Radio Receivers" at 8 p.m., Feb. 13.

The meeting will be held in Building 364, corner of Texas and H Sts., Sandia Base.

No job is so important and no service is so urgent that we cannot take time to perform our work safely.

Unexpected Winter Crisis Finds Sandia Maintenance Ready

Old timers in the Albuquerque area say it was the worst storm they could remember. Old, old-timers thought back to a day in 1887 when they could remember it as nearly that bad.

It may have been unusual, unexpected and completely out of place in the mild winter usually found in the Southwest; nevertheless a couple of inches of loose snow and a 50-mile-an-hour wind joined to give us a real "bell-ringer" of a blizzard Wednesday, Feb. 1.

It was a day not to be forgotten soon by Sandia Corporation employees.

Strikes Suddenly

At 8 a.m. there was a slight breeze and only a trace of snow. At 8 p.m. hundreds of Sandians were marooned in their offices, some were sitting worriedly in their automobiles, stalled and helpless, others were getting cold, many were hungry, almost everyone was worried.

It was a mess.

The snow and wind were unpleasant by noon. At 2 p.m. Sandia Corporation maintenance and security personnel were mobilized for emergency action. By 3 p.m. road reports started coming in and those who were worried about getting home and wanted to leave were excused. At 4 p.m. the situation appeared critical and the homeward trek was started.

"That's when the roof fell in," Bob Flaxbart, supervisor of the Motor Pool Section reports.

It was difficult for people to get to their cars. It was impossible to move most of the cars more than a few feet. Some wouldn't even start. The telephones in Plant Services offices started ringing. Security Inspectors were already alerted, motor pool personnel had wreckers and trucks on the road.

To several thousand Sandia Corporation employees intent on getting home the outlook was nearly hopeless. The fellow in the car ahead didn't move. And that was only because someone in front of him was stuck—or he was stuck in the deep snow himself.

Storm Persists

From 3 p.m. on through the night the wind howled and the snow deepened as the story of the struggle of a handful of Sandia Corporation's maintenance people began to unfold. All they wanted to do was get everyone home safe and sound.

When a wrecker bogged down in a drift the drivers left it there and went for another truck.

"We estimate," Bob Flaxbart ventures, "that more than 300 cars were stuck in and around Corporation parking areas at one time." Road graders were put into duty and drifts opened long enough to let a few cars through and then they'd close again.

Wind blown, chilled bone deep and probably miserable, Sandia Base Military Police stood at their street corner posts encouraging traffic to move safely, efficiently. A few cars crawled off the base to face more zero visibility and deep drifts.

Luther J. Heilman, Superintendent of Plant Services, and J. L. "Les" Rowe, Manager of Plant Maintenance and Services Department, set up headquarters in the Motor Pool office and with the help of men in their organization tackled the bitter cold task ahead of them.

And this is the way "Operation Get 'Em Home" progressed.

60 Men Work

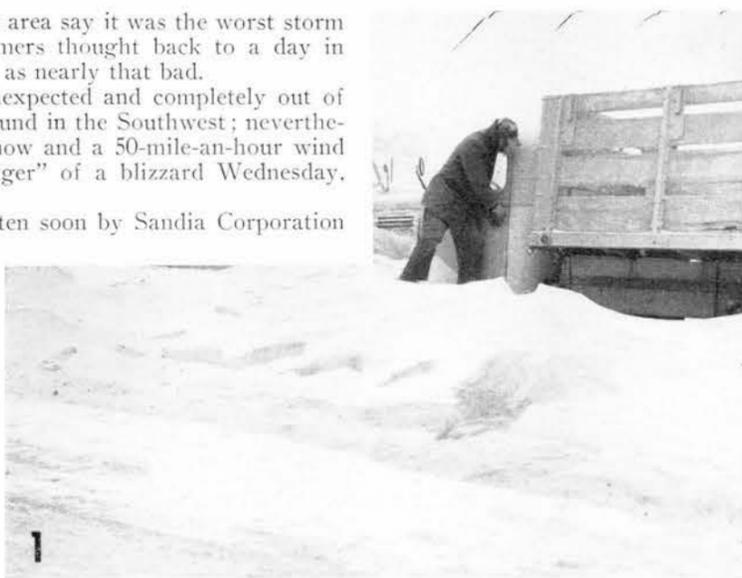
Without much formality and with a minimum of confusion, nearly 60 men divided themselves into teams and went to work.

Streets had to be opened. Robert Adler, Elmer Hartenberger, Tony Gabaldon, Sam Tabet, all of 2415, Frances Scott, 2412, Max Roberson, 2413, and C. H. Crass, 2415, labored to keep sidewalks and streets passable.

Jesse Floyd, 2417, climbed behind the wheel of a road grader and plowed through snow banks four feet deep.

And the hundreds of cars mired down became the responsibility of others. They were Ralph Bruner, Donald Sullivan, Holice T. Norton, Louis Price, James Meagher, Efen

(Continued on next page)



STORM AFTERMATH—No. 1: It seems cruel justice that the king size drifts were found behind Bldg. 887 which houses the people who fought the storm hardest. No. 2: If you can find any beauty in a storm which caused so much discomfort maybe it's here in these snow coated blue spruce in front of Bldg. 887.

No. 3: Dozens of Sandians were marooned in the Personnel Bldg. the night of Feb. 1. Drifts

closed the parking lot and street in front of the building and it was late at night before all the marooned employees were gone.

No. 4: Cold as it was, drifts had to be shoveled the next morning and work had to go on in a normal fashion. No. 5: Automobiles in the salvage yard were well plastered with snow.

No. 6: The story of many a stalled car is told in this picture. The driver shoveled through a

drift to his car, raised the hood and discovered his motor buried in snow.

No. 7: Maybe some humor can be found here—the biggest of drifts under the cooling sign above the door. No. 8: The fate of many drivers, this motorist was blinded by snow and wound up in a deep ditch. He left his car there, wisely, and sought shelter elsewhere. These photographs were taken by a well-chilled Bill Laskar, 2462-1.

Credit Union Distributes \$38,139 In Paying 5 Per Cent Dividend for 1955

The 1955 annual report of the Sandia Laboratory Federal Credit Union was presented to the membership at a meeting Jan. 26 in the Coronado Club. A five per cent dividend was voted and four members elected to the Board of Directors.

The meeting was chaired by Harold F. Gunn, 3153, vice-president.

Board of Directors report was given by Robert J. Blount, 4151, treasurer, who discussed a revised loan policy adopted in 1955 which reduced interest rates and increased repayment time.

In a Credit Committee report, committee chairman Joseph L. Hickey, 4160, gave the total number of shareholders for 1955 as 3,354 as compared to 2,681 in 1954. Shares sold amounted to \$1,238,694, almost doubling those of the previous year. Auto loans increased sharply, he said.

Treasurer's report by Mr. Blount showed loans to members in 1955 climbed to \$1,124,613—135 per cent over 1954. Membership was up 25 per cent.

Recommendations of the Supervisory Committee were submitted by Harold V. Catt, 7217, chairman.

Mr. Blount presented statistics compiled by the Board of Directors to justify a five per cent dividend. Dividends totaled \$38,139.92.

Elected to two-year terms as Directors were Gertrude M. Byrne 7225-2, Edward C. Domme 2523, L. E. Lamkin 7300, and Robert E. Hephewite 5232. Other Board members not up for re-election are David S.

Tarbox 2350, Martin E. Grothe 6020, Frank H. Grubbs 4113, Mr. Blount, Mr. Gunn.

New officers recently named by the Board are Mr. Blount, president, Mr. Gunn, vice-president, Mr. Domme, treasurer, and Miss Byrne, clerk. Dale Bellamy continues as manager and assistant treasurer.

Members of the Supervisory Committee are Joseph S. Miller, 4121, chairman, Dan C. Held, 4152, and Edward D. Herrity, 4135.

Returning to the Credit Committee are Mr. Hickey, chairman, V. O. Henning, 3152, W. A. Jamieson, 7225.

ASTE Members to Elect Officers Thursday, Feb. 16

The election of officers meeting of Albuquerque Chapter No. 93, American Society of Tool Engineers, will take place Thursday, Feb. 16, in the Hilton Hotel.

Dinner at 7 p.m. will precede elections which are scheduled to begin at 8.

A technical session will follow during which guest speaker Col. Walter J. Atkins, Kirtland Air Force Base, will discuss "Our Air Force Today." He will be assisted by Lt. Richard Casanova, Kirtland, and will illustrate his talk with an Air Force film.

For reservations call Fred Williams, 2532-3, ext. 26141, or W. N. Bullock, 2412, ext. 49152.



CREDIT UNION OFFICERS—Elected officers of the Sandia Laboratory Federal Credit Union recently were the above Sandians. Seated, Gertrude M. Byrne, 7222, clerk; Standing: Harold F. Gunn, 3153, vice-president; Edward C. Domme, 2523, treasurer; Robert J. Blount, 4152, president.

Two Scientists on Program of IRE Regional Meeting

Two Sandians, Arthur J. Eldridge and Robert E. McCallum, both of the Physical and Electrical Standards Department, will present papers



A. J. Eldridge R. E. McCallum,

at the Southwestern Regional IRE Conference and Electronics Show which opened yesterday in Oklahoma City, Okla. The conference ends tomorrow.

Mr. Eldridge's paper, entitled "High Stability LC Oscillator For Use With A Capacitive Pressure Sensing Element," is based on a thesis he wrote in earning a Master of Science degree in Electrical Engineering at the University of New Mexico.

The study which led to the writing of the thesis came from work at Sandia Corporation on a device for the measurement of barometric pressures to an accuracy beyond that obtainable with commercially available equipment.

Mr. McCallum's paper describes experimental work in development of rugged inexpensive voltage references, using commercially available parts, to provide portable calibration standards and standards which can be built into test equipment.

Mr. Eldridge joined Sandia Corporation in February, 1951, and Mr. McCallum has been a Corporation employee since June, 1950.

Aquarium Association Meets Friday, Feb. 10.

The Albuquerque Aquarium Association will hold its monthly meeting Feb. 10, 7:30 p.m. in Mitchell Hall on the University campus. Gerald T. Long, 7411-2, publicity director has announced.

Promotions

LAWRENCE L. LOWE to supervisor of the Precision Measurements Division, 2132, Electronics and Standards Department.



Larry previously served as supervisor of the Inspection Fabrication Section. He has been with Sandia Corporation since May, 1949. He came here after 15 years with Briggs Mfg. Co., Detroit, where he was tool room foreman. Earlier, he was employed five years as a toolmaker with Packard Motor Car Co., Detroit.

Born in Nashville, Tenn., he received his early schooling there. At the age of 17, he moved with his parents to Detroit, where he attended Detroit Institute of Technology, studying mechanical engineering and mathematics.

He is a member of American Society of Tool Engineers and New Mexico Council of Scientific and Technical Societies.

GEORGE W. ANDERSON to supervisor of the newly-created Experimental Weapons Division I, 5132, Experimental Weapons Research Department.



George came here as a physicist in June, 1953, after earning his Doctorate in physics at the University of Minnesota. Earlier, from this university, he received his Master's degree in physics and Bachelor's degree in mathematics.

A member of Phi Beta Kappa, Sigma Xi, and American Physical Society, George is also a veteran of three and one-half years with the Navy.

He is co-author of several published articles dealing with research in cosmic rays.

WINIFRED M. "WINK" FELLOWS to supervisor of the Secretarial Section, 7225-1, Staff Administrative Service Department.



Wink joined Sandia's Personnel Department in July, 1951, as an interviewer, and later became personnel representative in Placement, 3152.

She came to Albuquerque in January, 1951, from Evanston, Ill., where she was personnel representative for Marshall Field and Co. six years. She attended Pittsburg Teachers College, Pittsburg, Kans.

Mountain Club Goes to Organ Mountains Feb. 11

An exploratory trip in the Organ Mountains east of Las Cruces is planned for members of the New Mexico Mountain Club Feb. 11 and 12.

Hank Tendall, 1215, club president, says the group will hike over the rugged terrain and camp overnight. Reservations are being taken by George Hankins, Alb. 4-4644.

H. RAY SHEPPARD to supervisor of the newly-created Test Equipment Development Section III, 1441-3, Electronic Test Equipment Department.



Ray joined Sandia Laboratory in December, 1951, and for the past three and one-half years has been a design engineer in the above department.

Previously, he worked in Kansas City, Kans., in the plant engineering departments of General Motors Assembly Plant and Owens-Corning Fiberglass Co. From 1946 to 1950 he served on the faculty of the University of Kansas as an instructor in the electrical engineering department. He spent three years in the Navy.

A graduate of the University of Kansas, he holds a B.S. in electrical engineering, a B.S. in business, and an M.S. in electrical engineering. He is a member of American Institute of Electrical Engineers and is a registered professional engineer in Kansas.

New Mexico State Income Tax Deadline April 15; Forms to Be Sent Taxpayers

Sandia Corporation employees living in New Mexico are reminded of the state income tax deadline of April 15.

Returns must be filed by every unmarried individual resident whose gross income for the taxable year is \$1,500 or over and married residents whose combined gross income is \$2,500 or over for the year.

Returns are also required of every individual non-resident of the state, whether married or unmarried, having a gross income from property located or services performed in the state for the year of \$500 or over.

All those who paid tax for the year 1954 will be mailed a report form and instructions. However, the Bureau of Revenue calls attention to the fact that the law states that failure to receive this form does not relieve the taxpayer of responsibility to make a return and pay his tax.

Only one form, the "long" form, will be used in New Mexico this year. The Income Tax Division of

the Bureau of Revenue has an office in Albuquerque at the corner of Fourth and Silver and assistance to taxpayers is available there.

Remittances should be made to Bureau of Revenue, Income Tax Division, P. O. Box 451, Santa Fe, N. Mex.

AIEE Meets Feb. 14

The Northern New Mexico Section of the American Institute of Electrical Engineers will meet jointly with the Albuquerque Section of the Instrument Society of America Tuesday, Feb. 14. Ros Gilbert, director of research for the Weston Instrument Co. will speak.

Mr. Gilbert, whose subject has not yet been announced, will address the group at 7:30 p.m. at the new Electrical Engineering Building on the University of New Mexico campus. Coffee and doughnuts will be served at the meeting.

(Continued from Previous Page)

Winter Storm Crisis Met - - -

Apodaca, Conroe Wyman, Clarence Domme, G. E. Mincks, all of 2414. The cars had to be pulled out.

Suddenly a flash came in that many drivers and passengers were stranded at the Coronado Club. Walter Dzigan, 3122, Walter Martin, 2418, and Frank Guarascio, Coronado Club Assistant Manager, made about 60 people comfortable for the night in dormitories and officers quarters.

Emergency Calls

Others were ready to handle calls of an emergency nature — and there were plenty of emergencies. Hadley Rowe, Dale Easton, both 2413, William C. Elskes, Vern L. Brockway, V. J. Domme, all 2411, and L. D. Chapman, 2414, braved the cold far into the night answering calls. Pat White, AEC, worked through the night answering numerous emergency calls.

L. F. Koehler, 2414, was on the late shift in the maintenance shop tending to emergencies. Harold Neuhaus, 2418, handled trouble calls coming from the AEC housing area. R. L. Boase, 2414, returned to the steam plant for duty — the plant was operating on emergency oil.

By 8 p.m. rescue activities had been at top speed for some time. And they remained that way all night long.

One big worry was: Were there any motorists left in these hundreds of stranded cars? They could freeze. All were checked and their passengers were lead to safety. Struggling through the cold to the nearly buried cars were Bob Boyd, 2411, and Glenn Hastie, Joe Trujillo, Ralph Miller, Ernest Landavazo, Kenneth McNabb, Warren

Arthur, Monroe Blaylock, Sam Blaylock, all of 2417. They spent long hours in tow trucks freeing cars.

And the others in 2417 were just as busy. F. G. Gabaldon and Lloyd Kelton labored behind the wheels of wreckers. Henry Moleculeski, Floyd Neff, Elmer Templeton, Louis White, and George Simpson were part of the towing crews.

It appeared that the job never would be finished.

Dispatchers Work

Stan Brooks and his staff of dispatchers including Jack LaBrier, Marion Brown and Harry Clay worked at coordinating the rescue efforts.

Not all problems were within Sandia Base. Three taxi drivers braved Highway 85 north to pick up Sandians returning from Los Alamos. Carco flights were grounded and Burl Brown, William Peters and Richard Starkey drove some 40 miles north to meet Los Alamos taxis.

When city buses quit running two Sandia Corporation buses plowed down Central Avenue getting employees near their homes.

Taxi service on the Base continued with Paul Silva and Joe Montoya driving.

Further transportation problems were solved by Robert McBride who piloted a bus through the storm. Mike Martinez and Joe Chavez made ambulance runs. And ambulance runs were necessary as the storm became worse.

As the night progressed more and more cars found their way off Sandia Base. Men with road equipment plowed the road open to the East Gate and then bladed the road on to

Central Avenue. The East Gate was closed again by drifts a short time later.

Another group of men, the Security Inspectors in 2450, will probably go down in this story as unsung heroes. Not for one moment were security measures relaxed as the guards helped beleaguered employees.

Buildings Searched

Buildings were scoured for marooned employees. Cars were watched and searched. Department 2450 came forth with warm clothing for maintenance men working outdoors.

"We're most proud," says Luther J. Heilman, Superintendent of Plant Services, "that when 11 p.m. came and it was time for the third shift to go on duty, not one man was missing due to the storm."

This was when radio announcers were asking people to stay off the streets, traffic in town was at a near standstill and the drifts were getting deeper, deeper.

Morning arrived and many Sandia Corporation men were still on duty. The wind had eased, but the cold was there. The drifts were deep and traffic was in a sorry state.

Work on cleaning up the storm's damage lasted several days — and the memories will last even longer.

Now, more than a week later, the storm is not much more than a bad memory. But the episode has its bright side. That side is apparent when we see the labors, sacrifices and compassion of men who put their personal comfort aside to be sure the day didn't end in tragedy for some Sandian.

shopping center

CLASSIFIED ADVERTISING

Deadline: Friday noon prior to week of publication.

RULES

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

Next Deadline: Noon, Feb. 16

GRINDER w/wire wheel, buffing wheel, 3/4 h.p. electric motor, \$18. Shew, ext. 22156.

'51 KAISER 4-dr. sedan, R & H, rebuilt engine. Dourte, Alb. 5-5331.

KENMORE WASHER and washer tub, make offer, see at 2028 San Mateo NE. Villa, ext. 29141.

RUGS, Chinese wool, 2 x 4, 3 x 5, all for \$30 or sell separately. Fuller, Alb. 5-2114.

BICYCLE, boy's 26" Schwinn, \$25; girl's bicycle, \$15; 66 vol. Nat. Geographic Mag. 1916-48 \$125. Keever, ext. 22665.

TV, 17" Admiral, \$55; small red frieze couch, makes into bed, \$45. Walker, ext. 37377.

LAWN MOWER, \$10; rollaway bed, \$20; crystal water goblets, sherbet and wine glasses, 1 plate, open stock, 25 pieces \$45. Lee, Alb. 6-1680 after 5:30 p. m.

GAS RANGE, Kenmore apt.-size, like new, \$50; stenotype machine, \$25. Schiess, Alb. 5-3252.

'53 TRAVELITE, 29", A-1 condition, air conditioner, carpeted, fully modern. Miller, Alb. 5-0933.

'50 OLDSMOBILE 98, very clean. Hoagland, Alb. 5-6186, 2908 San Rafael SE.

TIRES, 800 x 15, sell \$10 each; 670 x 15, sell \$12 each, 3 new with guarantees. Jenkins, ext. 51115.

PARAKEETS, pair matched for breeding, \$4; also cage reasonable; baby stroller, \$5; hardwood bed, box springs, \$20; dining set \$30. Jones, ext. 40133.

'34 PACKARD sedan, R & H, recent overhaul, straight 8, 6 wire wheels, \$295. Sortland, Alb. 4-3149.

WASHER, '51 Norge wringer type w/pump and timer, \$25. Souza, Alb. 3-3282.

'54 PLYMOUTH 2-dr. Savoy, one owner, '56 plates, \$395 down or consider older model car as trade, \$1150. Thomas, Alb. 9-3838.

'53 JAMES MOTORCYCLE, \$110 or best offer. Gibbs, Alb. 5-6627.

GRAND PIANO, 5'4" Julius Bauer, \$875; air lifts, \$8, trailer hitch, \$5, for '49-'52 Oldsmobile. Leslie, ext. 42274.

'51 HUDSON 4-dr. Super, R & H, Hydra, very clean, one owner. Craig, Alb. 9-3468.

S. A. COLT .45, \$50; mod. 95 Winchester 30-40 cal., \$40, or will trade. Zaluga, Alb. 4-1564.

3-BR HOME, frame stucco, completely insulated, central heating, roofed patio, walled yard, near schools, 813 Florida SE. Dassoff, Alb. 6-1800.

'52 DODGE Meadowbrook 4-dr., R & H, \$450, or '48 Pontiac Streamliner 8, loaded with extras, \$195. Jenkins, ext. 37263.

WASHER, Easy Spindryer, \$25; ABC portable mangle ironer, \$10. Shock, ext. 34194.

ELECTRIC RANGE, Hotpoint deluxe pushbottom model; Frigidaire; studio couch. McClafferty, Alb. 5-1278.

BED DIVAN w/matching chair, \$50; Simmons bed chair, \$15; Nesco deluxe roaster, \$40. Reed, 1711 Solano NE, Alb. 5-0502.

STORKLINE BABY CRIB w/mattress, \$15; Storkline high chair, \$7; folding stroller, \$7; bathinette, \$5. Cushman, Alb. 5-1129.

3-WAY RADIO, record player, wire recorder, \$65. Chavez, Alb. 3-3358.

DRAPES, 1 pair, floor to ceiling, forest green, lined pebble cloth, hand pleated & sewn, weighted, 8' x 8 1/2' \$20. Weber, Alb. 9-1389.

FOX TERRIER PUPPIES, 6 wks. old. Miles, ext. 21145.

RIFLE, 30-06 custom made, reasonable. Kerl, Alb. 5-7172 after 6 p. m.

'52 JAMES MOTORCYCLE, model 98 cc., \$75. Henry, Alb. 9-0536.

COUCH, Duncan Phyfe, \$50; pair fireside chairs, \$50; drop-leaf kitchen table, 4 chairs, \$12.50. Braffett, Alb. 2-5429 after 5 p. m.

'53 CHEVROLET 2-dr., light grey, R & H, seat belts, new seat covers, '56 license, 19,000 miles, one owner, \$895. Sublett, Alb. 5-0660.

'47 PLYMOUTH convertible, A-1 condition, new paint, R & H, good top, 2 extra tires, seat covers, \$200. Kraft, Alb. 9-2157.

'51 STUDEBAKER 4-dr. Commander, excellent condition, \$385. Nott, Alb. 3-9145.

BEDROOM SET, blond finish, 7' bookcase headboard w/sliding doors, 6-drawer double dresser w/mirror, \$265 new, sell for \$150. Stamm, Alb. 6-8116.

2-BR & DEN, large kitchen, garbage disposal, attached garage, walled back yard, lawns, near Highland High, \$9750. Jones, Alb. 5-2105.

PEKINGESE, 2 yrs. old, will sacrifice to childless couple for \$25 in exchange for good home. Godfrey, Alb. 9-4897.

DOUBLE BED, coil springs, innerspring mattress, \$30; chrome dinette set, 4 chairs, \$45. Adam, Alb. 6-7565.

REFRIGERATOR, International Harvester, 9 cu. ft., '52 model, \$100. McElfresh, Alb. 9-1875.

2-BR HOUSE, pitched roof, air conditioned, w/w carpeting, draperies throughout, attached garage, w/b fireplace, 1602 Ridgecrest Dr. SE. Hillard, Alb. 5-8515.

'52 EDITION of New Standard Encyclopedia w/yearbooks. Hale, Alb. 4-1558.

'52 FORD station wagon, R & H, Fordomatic, best offer over \$900. Donaldson, ext. 46233.

FLOOR LAMP, 3-way indirect, \$3.50. Collins, Alb. 5-0470.

BEDROOM SUITE w/bed, dresser, vanity bench, walnut veneer, \$40. Davis, Alb. 5-8840.

'54 GAS SERVEL refrigerator, 11 cu. ft., double door, automatic defrost. Poli, Alb. 9-0988 after 5:30 p. m.

FREEZER, 18 cu. ft. upright, used less than 1 yr. Wright, Alb. 9-1848.

REFRIGERATOR, 8 cu. ft. Frigidaire, \$75; gas range, \$40. Kulterman, Alb. 5-4053.

CORRALES ADOBE 1-BR, fireplace, walled, 1.55 acres, shrubs, fruit trees, cellar, storehouse, \$2200 down, \$8500 total. Streater, Alb. 4-1828.

'49 JEEP, heater, all-weather tires, 9000 miles on factory re-built motor, A-1 condition, \$450. Baggett, 2133 Alvarado NE, Alb. 5-5392.

REGINA POLISHER, \$40; Magnavox 17" TV, FM-AM radio, phono combination, \$165, or trade for communications receiver, chest of drawers. Ross, Alb. 9-1526.

CHAMPIONSHIP bloodlines, registered AKC, black and brown, \$40 and \$50. Waldorf, Alb. 4-1017.

HOT WATER HEATER, 20 gal., Butane burner, best offer. Moran, ext. 30143.

SHOPSMITH MK w/jointer, jigsaw, many accessories, \$300; Radio-TV shop w/tubes, parts, test equipment, complete \$750. Matthews, Alb. 4-2169.

HEADBOARD, 54" unfinished, new, \$20. Luckett, Alb. 6-2346.

WANTED—

RIDE from 3405 Cheraz Rd NE to east or south tech. gate. Salazar, ext. 26154.

CARE OF CHILD in my home 5 days a week, age 3-5, vicinity Princess Jeanne Park. Meyer, Alb. 9-0837.

WINCHESTER rifles, flintlock pistols or rifles, any condition, will pay cash. Smitha, 8607 Menaual, Alb. 9-1096.

OXY-ACETYLENE welding & cutting outfit complete w/regulators. Flowers, Alb. 6-1656.

DEER RIFLE, will pay cash if price is right. Kerl, Alb. 5-7172 after 6 p. m.

RIDE from vicinity of La Vega & Nashville SW (across river) to south or west tech. gate. Miss Michael Silva, Alb. 2-5443.

RIDE from 2nd St. & Phoenix to south tech. gate. Salas, ext. 26146.

RIDE or car pool from vicinity Ridgecrest Dr. & Kathryn SE to 892, gate 7. Bailis, Alb. 6-6686.

TO JOIN car pool from Carlisle Plaza to 802. Hale, ext. 27150.

RIDE or join car pool from vicinity 206 Solano NE to 800. JoAnn Rose, Alb. 5-0330.

TO JOIN or form car pool from Carlisle Plaza to 880. Chown, ext. 32158.

RIDE from Tapia Blvd. & San Ignacio SW to 880. Sanchez, ext. 45156.

RIDE from Bel Air section, 2829 Adams NE. Schultz, ext. 24244.

TRADE—

ICE SKATES, girl's white size 13 1/2 (children's size) trade for size 2; boy's size 3 ice skates or size 5, new condition. Miller, Alb. 5-1324.

GIRL'S BICYCLE for what have you. Chavez, Alb. 5-5461 after 6 p. m.

LOST—

'55 CLASS RING; keys, gloves, earrings, scarf, wallet. Call Lost and Found, ext. 26149.

KEYS on chain, w/Texaso Gas Station tape measure. Pitti, ext. 24239.

FOR RENT—

APT., living room, bedroom, kitchen, bath, stove, refrigerator, near base, \$65. Neuman, 1712 Silver SE, Alb. 3-9479.

BEDROOMS, 2, w/kitchen privileges, 1/2 blk. to bus, ladies only. Mrs. Roberson, 8914 Woodland Ave. NE, Alb. 9-2870.

APT., furnished, ideal for couple or single person, carpeted, utilities paid. Hare, 605 Fitzgerald NW, Alb. 6-4958.

2-BR SMALL HOME, water & lights paid, \$50 mo. Schiess, Alb. 5-3252.

ASM Members to Hear Discussion of Vacuum Metallurgy

A speech, entitled "Vacuum Metallurgy," will be presented by G. Jewett Crites, of Philadelphia, Pa., at a meeting of the Albuquerque chapter of American Society for Metals Thursday, Feb. 16.



G. J. Crites

An informal dinner at La Hacienda at 6:30 p.m. will precede the technical meeting which will begin at 8 p.m. in the Lecture Hall, Mechanical Engineering Building on the University campus.

Mr. Crites is manager of the Vacuum Process Division, F. J. Stokes Machine Co. in Philadelphia. He has had considerable experience with vacuum applications within a number of Atomic Energy Commission plants as well as with industrial applications of vacuum techniques.

Guests are invited to attend the dinner and meeting. Reservations may be obtained from H. R. Holmes, 1621, ext. 32246.

6 Sandians Earn Red Feather Awards In '55 Chest Drive

Community Chest citations have gone to the following Sandia Corporation personnel for their "community service" during the 1955-56 campaign: J. W. McRae, Sandia President; R. J. Hansen, 2100; L. J. Heilman, 2400; C. W. Campbell, 7200; T. B. Sherwin, 3125; and R. S. Gillespie, 3125-1.

The citations were presented Jan. 24 at the annual meeting of the Albuquerque Community Chest in the Fez Club.

Mr. McRae served on the Board of Directors. Mr. Hansen headed the Atomic Division; Mr. Heilman was chairman of Sandia Corporation, Atomic Division.

Three assisted in the Public Relations Division, Mr. Campbell, Atomic Public Relations Coordinator; Mr. Sherwin, Public Information Director; and Mr. Gillespie, House Organ Coordinator.

New AOA Officers Elected By Members

W. M. O'Neill, 5530, has been elected second vice-president of the Albuquerque Post of the American Ordnance Association.

Mr. O'Neill and the other officers elected were installed at the AOA dinner meeting at Kirtland Air Force Base yesterday.

Professional R Group E Activities

Telemetry-Remote Control

The Professional Group on Telemetry and Remote Control, Albuquerque-Los Alamos Section of IRE, will meet at 8 p.m. Feb. 14 in Room 219 of the University of New Mexico's Electrical Engineering Building. A talk on "Military and Computer Applications of Tape Recordings" will be given by Richard Hix, Chief Application Engineer of Ampex Electric Corporation's Instrumentation Division.

Audio

Paul Klipsch, inventor of the famed "Klipsch horn" speaker enclosure known to hi-finitics, will address the IRE Professional Group on Audio Feb. 23 at 8 p.m. in Rm. 201 of the new Electrical Engineering Building at the University of New Mexico.

Highlighting his talk will be a demonstration of stereophonic sound using his speaker systems, B. L. Basore, of the Electronic Systems Department, announced.

The meeting is open to members and guests.

'Critical Skills' Military Training Program Launched

Information concerning the recently inaugurated critical skills program of the U.S. Army Reserve may now be secured from the Public Relations Division, 3125.

Under provisions of a new executive order men 18 1/2 years of age and over possessing "critical" skills may enlist in the ready reserve and serve three to six months active duty in lieu of being drafted for two years active duty.

The program supplements, but does not replace, the occupational deferment program.

Fight Night Feb. 17

Feb. 17 will be Fight Night at the Coronado Club with Golden Glove contenders in the ring for eight bouts beginning at 8 p.m. Matches are being arranged by boxing referee Jim Cleary.

Sandia Corporation Wins High Honors In Safety Contest

Sandia Corporation and the Corporation's Salton Sea Department were honored recently by being awarded high places in the 1955 Fire Prevention Week Contest sponsored by the National Fire Protection Association International.

A total of 102 U.S. and Canadian industries entered the industrial division of the contest. Sandia Corporation was awarded 13th place in the contest and Salton Sea tied with another firm for 17th place.

L. J. Heilman, 2400, Superintendent of Plant Services, R. E. Hopper, 2440, Manager of the Plant Engineering Department, and H. H. Pastorius, 2442, Plant Inspection Division, supervise the Corporation's fire prevention program. T. A. Sprink, manager of the Salton Sea Department, 2480, directs fire prevention activities at the test base.

Congratulations

BORN TO:
Mr. and Mrs. Steve Drago, 2221-3, a daughter, Stephanie, Dec. 31.

Mr. and Mrs. W. G. Grisham, 7113, a daughter, Deborah Sue, Jan. 27.

Mr. and Mrs. Charles Chavez, 7231-1, a son, Jeffrey Charles, Jan. 12.

Mr. J. J. Platt, 5521-1, a son, Jerold, Jan. 16.

Mr. and Mrs. Ray Arvidson, 5522, a daughter, Cynthia Marie, Jan. 21.

Mr. and Mrs. Roy Blockinger, 5523-2, a son, Mark, Jan. 27.

Mr. and Mrs. Louis Zelnio, 2723-1, a daughter, Therese Rose, Jan. 28.

Mr. and Mrs. Fred Mitchell, 4133, a son, Jan. 30.

Mr. and Mrs. Art Pino, 7231, a daughter, Carol Paulette, Jan. 26.

To J. B. McCullar, 1632, for the death of his grandmother Jan. 23 in Ardmore, Okla.

To Mr. and Mrs. George Abousleman, 2232, for the death of their son Jan. 30 in Albuquerque.

To George Perkins, 5241, for the death of his father Jan. 20 in Las Vegas, N. Mex.

To Wayne Noble, 1243, for the death of his brother Jan. 20 in Utah.

To D. L. Cochran, 1611, for the death of his brother Jan. 18 in Roanoke, Va.

Plastic Shop to Be Constructed For Lab Staff

Two construction projects, including the establishment of a new plastic shop, are now under way at Sandia Corporation.

Building 834 will be remodeled into a plastic shop with the installation of humidity controlled air conditioning, steam hot water generator, compressed air facilities and a paint spray booth. In addition, interior partitions will be rearranged to provide new washrooms, showers, locker facilities, an equipment room and shop area.

The remodeling will take approximately 120 days to complete. Plans and specifications for this project were prepared by the Plant Engineering Department, 2440, and inspection of the work in progress will be performed by this organization.

Plans and specifications were also drawn up by Department 2440 for the installation of a fire sprinkler system in Building 863. This project is expected to be completed in 45 days.

Balloon Tests At Los Lunas Range Begin This Month

Captive balloon experiments will be conducted this month by Sandia Corporation at the Los Lunas Bombing Range.

In charge of the experiments, which are similar to those conducted at the abandoned Del Norte Airport in Northeast Albuquerque during the summer of 1954, are James Scott, A. Dean Thornbrough and H. G. Laursen, all of the Full Scale Test Department, 5220. The experiments in 1954 were for the purpose of studying the problems involved in using large balloons to position test instruments.

Two large polyethylene plastic balloons with nylon coverings will be used in the tests. They will be anchored, helium-filled and flown at heights of 700 to 1500 feet during the daylight hours.

The Los Lunas Bombing Range is an auxiliary of the Special Weapons Center at Kirtland AF Base and is located about 15 miles west of Los Lunas.

HE Tests Scheduled For This Month by Sandia Corporation

A series of tests involving the use of small charges of conventional high explosives will be started next week on Sandia Base by Sandia Corporation. The tests will be conducted in a remote area of the military reservation south of the Base proper and west of Manzano Base. Dr. E. F. Cox, manager of Sandia Corporation's Weapons Effects Department, will direct the work.

The 20 to 25 explosions planned for the series will extend over a period of several months. Residents of the south valley may see a puff of smoke from time to time as the 300-lb. charges of TNT are set off, but it is unlikely that the explosions will be heard or felt off site.

Much larger charges of explosives have been detonated in the Coyote Canyon area on the Base during routine blast effects studies and only rarely have these blasts attracted notice in populated areas.

Author Gives Tips To Tech Writers

Col. Wilfred McCormick, Albuquerque author and lecturer, will address the Feb. 20 meeting of the Albuquerque Society of Technical Writers. "Aids to Readability" will be his topic.

Col. McCormick has announced that he will discuss methods of achieving interest and animation in writing without sacrificing authenticity. The meeting, to be held at the Coronado Club at 7:30 p.m., is open to Council members and guests. Refreshments of coffee and rolls will be served at a cost of 25 cents.