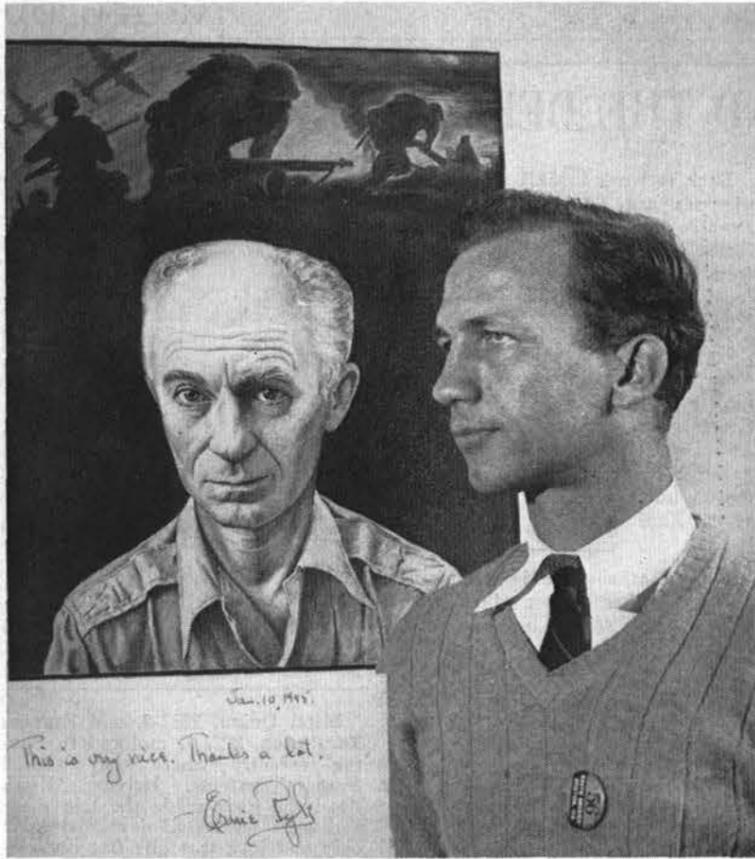


SANDIA BULLETIN

Vol. V, No. 6

SANDIA CORPORATION, ALBUQUERQUE, N. M. MARCH 13, 1953



THE SEARCH GOES ON for Terry Clark's portrait of Ernie Pyle. Drawn during the war, the portrait helped sell \$2 million dollars worth of bonds and was then given to Mrs. Pyle while Ernie was on his final trip to the Pacific. A nurse who lived with Mrs. Pyle believes the work was probably burned, but Terry, who is a technical artist in 2463, still has hope of finding the picture.

Red Cross Seeks \$70,000 In County; Sandians To Have Chance To Give

The American Red Cross, faced with an ever-increasing task, is launching one of its greatest peacetime fund raising campaigns. In Bernalillo county the local chapter is seeking \$70,000 to carry on with the important work locally and in the Armed Forces.

Again this year civilian residents on Sandia Base will have their opportunity to give when solicitors call at their homes. No solicitation will be conducted in the Technical area and other employees of the Corporation not living on the Base may give from their homes or send their contributions to the following address:

American Red Cross
Bernalillo County Chapter
103 1/2 Central Ave., NW
Albuquerque, N. M.

A booth will be operated in the Coronado Club lobby by Sandia Base women during the noon hour for the rest of the month starting on Monday. In addition, on Wednesday, March 18, the Red Cross booth will be set up in the evening during the Bingo games.

The Bank of New Mexico branch on the Base will also have a booth in operation each Friday starting March 20.

Disaster Aid

Plans are being completed to afford employees of the Corporation an opportunity to support the American Red Cross by their contributions by providing convenient locations outside the Corporation where contributions will be accepted. As soon as these plans are complete announcement will be made.

In addition to the traditional help provided by the Red Cross the organization stands ready to assist in time of disaster and the gifts you give make possible the tremendous amounts of blood plasma which are given to the armed forces. This program alone costs the Red Cross \$13,677,000. The Red Cross has assisted in training some 20 million persons in first aid in connection with the civil defense program.

Armed Forces Help

More than 100,000 women have been instructed by the Red Cross to be nurses aides and the training has been extended with instruction in home nursing skills. Many thousand Red Cross volunteers have

joined the expanding local defense units.

The increased number of men in the military services and the opening of new bases for the armed forces has resulted in new demands on the American Red Cross.

The Red Cross stands ready to serve all of us in times when we find our need the greatest. It is only through the generosity of the more fortunate that those who suffer from disaster may receive help.

Give your Red Cross gift generously and cheerfully. The Red Cross depends upon you—they have no fund raising events.

Janssen Chairman Of Club Committee On Entertainment

Edmund G. Janssen, Jr., 1284, has been appointed chairman of the Coronado Club entertainment committee, announced Leo Dunn, 1284, director in charge of entertainment, recently.

Ed follows Bob Chesnut, 1911, as chairman. Bob held the office for more than six months. Bob's term as chairman was said by Leo Dunn to be one of the most successful the Coronado Club has ever had.

Vote Commendation

The Board of Directors concurred by voting Bob their commendation and appreciation for his work as chairman.

Aiding the new chairman will be Hal Hale, 1911, in charge of scheduling bands; Eugene Baker, 1933, bridge and square dances; Howard Obergfell, 5351, decorations and special events; and Anne Morrow, 1210 (4222), secretary and fashion shows arranger.

Active on Base

A graduate of the Illinois Institute of Technology, Ed was president of Alpha Sigma Phi there as well as chairman of the American Society of Mechanical Engineers student branch, and a member of the inter-professional council; Pi Tau Sigma, mechanical engineer honorary; Beta Omega Nu, interfraternity honorary and the interfraternity council.

Here at Sandia he is treasurer of the Sandialiers and member of Sandia Toastmasters Club, Sandia Choristers and the Chapel Choir. He is also a junior member of the American Society of Mechanical Engineers and the Society of Automotive Engineers.

McNair to Speak At Fraternity Fete

Walter A. MacNair, Vice President, Research, Sandia Corporation, will be the main speaker at the Phi Delta Theta Founders Day dinner to be held March 25 at the Coronado Club. Phi of Sandia will be hosts to the University of New Mexico chapter as well as Albuquerque alumni of the fraternity.

Phi who have not received an announcement of the meeting may obtain information from Ted Sherwin, ext. 3125.

Sandia Little Theatre Players Present New Comedy This Week

"Clutterbuck," a light-hearted comedy which is the current production of the Sandia Little Theatre, will play tonight and tomorrow night, March 13 and 14, at the Base Theatre. Curtain time is 8:30.

Corporation employees appearing in the cast are Carolyn Tippit, 1641; E. W. Baldwin, 4230; and F. H. Grubbs, 4151-3. Direction is by Victor Izay, well-known through his work with the Summerhouse and Albuquerque Little Theatre.

Tickets are 75 cents and may be purchased from cast members or at the door.

Sandian Helps Set Defense Standards In 3-Nation Meeting

J. R. Townsend, acting for the U.S. Office of Defense Mobilization, recently organized a meeting of the American-British-Canadian Committee on Unification of Engineering Standards.

A two-day session of the committee was held in the Board Room of the American Society of Civil Engineers in New York City. Representatives of government and industry of the three nations were present and agreement was reached on a system of limits and fits for cylindrical holes and shafts.

Mr. Townsend, who is Director of Materials and Standards Engineering for Sandia Corporation, reports that approval was given for a system of preferred numbers in both decimal and fractional sizes and a system for rounding of range values in the A-B-C system of fits.

The adoption of this system is considered a most important step in basic engineering standards and is useful in coordinating the defense efforts of the three countries. The Committee is now considering a future conference on unification of drafting practice.

Three Sandia Scientists Assist New Albuquerque Medical Research Group

Recent organization of the Carl Williamson Research Foundation in Albuquerque has provided an opportunity for several Sandia Corporation Scientists to carry on extra-curricular scientific activities in fields somewhat foreign to their work for the company.

Dr. Kenneth W. Erickson, Edward G. Bauer and Dr. Frederick G. Hirsch are spending many of their spare hours working with the foundation which was organized by the Bernalillo County Medical Society in memory of an outstanding Albuquerque physician who died last year.

Well Known Physician

Dr. Carl Williamson for whom the foundation is named is well known for his research and treatment of peptic ulcer and blood vessel diseases. He had done extensive research in the field with Dr. Frank C. Mann of the Mayo Clinic. The foundation is financed by the local medical society and prominent Albuquerqueans and scientists and doctors donate their efforts to the research problems being undertaken by the organization.

The problems currently being worked on by the Sandians include the establishment of a radioactive isotope laboratory and study of diseases of the heart. The Sandia scientists are providing their services in development and operation of mechanical devices used by physicians in treatment of heart diseases and also are advising on the use and handling of radioactive materials.

Heart Surgery Team

Dr. Erickson, Department Manager of 5130, is assisting a heart research team in the use of heart catharization pressure instruments.

These instruments give graphic recording of the pressures of the blood in the patient's heart during different phases of the heart beat. The data are used by physicians in choosing heart cases for surgery.

As physicist on the foundation's isotope committee he is assisting the other members in making arrangements for the use of radioactive isotopes in diagnosis and treatment as is being done in several medical centers throughout the country. Isotopes are used in the treatment and diagnosis of diseases such as those of the

thyroid, blood, certain types of cancer, and others.

Not a Panacea

Doctors working on the committee warn that many of the procedures used with the isotope treatment are limited in their application and are not an answer to all the problems of medicine.

Working with Dr. Erickson in this undertaking is Dr. Hirsch, Sandia Corporation Medical Director, who is



E. G. Bauer Dr. F. G. Hirsch

helping with the instrumentation, providing consultation assistance and setting up a health physics routine for the safety of the men working with the radioactive material.

Mechanics of Heart

Edward G. Bauer, 5130, is at the present working on the problem of ballistocardiography for the foundation. In this research work he is working with instruments which record the mechanics of the heart. The ballistocardiograph records the force of the heart stroke—the action of the heart in ejecting the blood. The instrument graphically interprets heart function.

The work of the Sandia scientists is but another example of the medical profession's move to utilize the talents of other men of science to delve into the many unexplored fields which await them.

Choral Association Wants More Singers

The Albuquerque Choral Association would like interested singers to join the group and they are particularly interested in adding more tenors and basses.

The singers will appear with the Civic Symphony in May for Brahms Requiem. It is planned to schedule a later performance in Santa Fe. Joseph Grant is director.

Sandians who are members of the Choral Association include James Dillard, 2334-2, and Paul Kuhn, 5351. Rehearsals are Tuesday evenings at 7:15 in the YWCA.



NEW ENTERTAINMENT COMMITTEE for the Coronado Club listens to Ed Janssen, the newly appointed chairman, propose some of his plans for

the Club's activities. L to R: Ed, Anne Morrow, Hal Hale, Gene Baker, Howard Obergfell, and Entertainment Director Leo Dunn who appointed Ed chairman.

SANDIA BULLETIN

Friday, March 13, 1953

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

Editor, Robert S. Gillespie
Assistant Editors, William A. Jenkins, Maxine Ethridge

Photography by Photographic and Reproduction Division

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Telephone Ext. 25253



We're 10 Years Old — Task Still Great

The Atomic Age is more than 10 years old. Scientists set its birth date as December 2, 1942. That day, in the afternoon, on the squash court underneath the west stand of Stagg Field on the University of Chicago campus the first atomic fire on earth was lighted.

The team which designed and built the first atomic furnace (also called "atomic pile") was captained by Prof. Enrico Fermi. This team was not engaged in a leisurely research problem. It was engaged in a desperate race — for as far as we knew our enemies at the time were far ahead of us in atomic research. For four years scientists had known that the uranium atom could be split.

The question at that moment was: "could the splitting of one atom lead to the splitting of other atoms and start a self-perpetuating chain reaction?" That one question had given rise to countless other questions and it was on this December 2 that the answers began to appear.

It was only a minute "fire" that was lighted — invisible to the eye and detected only by the click of geiger counters. It was an extremely small atomic explosion.

That first small "explosion" has grown into a mammoth industry and the urgency of the first experiment has continued through the past 10 years. Today it is as great as ever. In 1942 the door to the new and strange science was opened by the researchers who worked in deep secrecy. Without fanfare, honors and often without much promise these few men had labored against time and against hope.

Today, many of the finest scientists in the country are working in the never-ending quest for the answer to the new questions which have appeared. Assisting in the quest for answers today are many thousands of other Americans who work directly in the atomic energy program or are engaged in the country's industry which works hand in hand with the Atomic Energy Commission.

As is always the case, the extent of progress is decided by the ability and determination of the folks charged with the task. That includes us.

That lonely handful back in 1942 met their immediate challenge. We who are doing the work in 1953 have a goal to strive for too. May we be as loyal to our purpose and as successful in our efforts as those who first explored in the field of nuclear fission.

The Way We Heard It

Yoicks!

The excitement of winning at bingo brought an involuntary exclamation from the lips of a player recently. "Tally Ho!" he shouted in a ringing British accent. Seems the gentleman, one of our security inspectors, comes from England, and just couldn't think of the word "Bingo" so chose a native expression that at least rhymed with it.

"Duke City" by Any Other Name

The local postmaster is used to comical variations in the spelling of the name of our city and scarcely batted an eye when a letter came in recently addressed to the Mayor of Albert Turkey, New Mexico. Vern Blake, 1211, received a letter from a business concern recently and the secretary who typed it must have figured she couldn't miss in three tries at spelling Albuquerque. On the envelope it was "Albuquerqueet," and in the salutation, "Albuqergut," and in the body of the letter, "Albuqergue." Well, she was getting

close when she quit. Vern says he is going to tell her to "keep trying." (All she needs is a little encouragement.)

Magazines Needed

Anyone have a few current magazines to donate to the waiting room of the new medical building? The nurses say they just couldn't bring along the old dogeared mags when they vacated Bldg. T-818. There are still a few things to be straightened out in the new building, but the staff as well as the patients are delighted with the modern equipment and more adequate space.

Meeting!

The Albuquerque Alumni Club of Delta Sigma Pi plans a dinner-and-business meeting March 18 at 6:30 p.m. in the private dining room of the Red Spot Cafe. Dean Irvin, 3152, is president of the local chapter.

Happy with her new home at the foot of the Sandia Mountains is AEC's Edah Chinn.

Enjoying a vacation in California recently were James Slusser and James Coleman, both of 2232.

Jim Schlahta, 3152, and his wife Josephine, 2232, spent a recent week end visiting the Carlsbad Caverns with Jim's mother who has been their guest.

Matt Bustos, 2232, and his wife returned last week from a trip to Colorado where they visited relatives.



"SOMEONE ON MARS IS CALLING YOU!"

AROUND THE DEPARTMENTS

Louis G. Stewart, 1522, recently attended the marriage of his daughter, Janet, in Indianapolis. She was married to Lowell McKim, and they will live at Fort Sill, Okla. Both were students at the University of Indiana and recently graduated.

Her co-workers in 1281 wish a speedy recovery for Penny Morton, who was hospitalized recently.

Bruce Barth, 1284, and his family took a week's vacation to Nevada recently.

Ed Janssen, 1284, is expected to return Monday from Chicago where he went to pick up his new automobile. Ed was accompanied on the trip by Guy Woodruff, 1222.

Walt Wood, 5133, moved recently into a Pueblo-style residence at 1425 Adams NE.

Loretta Nemes, 4222 (5143), has been enjoying a vacation at her home in Princeton, N.J., and also spending a few days in New York and Washington, D.C.

A vacation to Los Angeles and Kansas City was taken recently by Letha Stewart, 4222 (5142).

H. R. "Red" Hanen, 2531, is the proud owner of a new '53 Pontiac, a light blue beauty.

The girls in 3151 honored Eunice McConnell March 6 at a luncheon prior to her transfer to 4152-4.

Congratulations to J. L. Sanchez and Sally Castillo who were married Feb. 14 at Our Lady of Belen Church in Belen. The bridegroom works in 2142-2, and Sally works for Civil Service at Sandia Base.

Her co-workers in 2100 wish a speedy recovery and a quick return to work for Theda Noe, 2120, who has been ill for several weeks.

Frank Dain, 2123, is now recuperating at home after recent hospitalization and his fellow workers are looking forward to his return to work.

Pearl Giles, 3151, and her husband, Cleavord, 1611, spent a week end recently in Oklahoma City.

Away from her desk last week was Grace Nicks, 3153-2, who had a session with bronchitis.



BERTA GUEST, 2231, was honored recently at a housewarming at her new home when the women in her division gathered for an evening of fun and games. Berta is shown here making chili for her guests.

Pat Jones, former 5100 employee, honored "Jason" Dennison March 1 at a shower in her home. "Jason," sister of Pat Farley, 3153-1, was formerly secretary to R. E. Poole, 1000. Attending the party were Rosalie Crawford, Norma Richter, Opal Tenbrink, Beulah Amole, Olive Barwick, Iva Porter, Muriel Dennison, Loretta Morris, Margaret Bolton, Mrs. Oneida Farley, Shiela Farley, Marilyn Gardner, Marcella Samuelson and Pat Farley.

Felix Miles, 2235, and his family recently visited in San Antonio.

Back to work in 5131 after recent illnesses are Charlie Clark, Rudy Frantik and Herman Williams. Helen Tuttle, 5131, is recovering from surgery and is wished a speedy recovery by her co-workers.

New home owners in 3153 include Vera Burken who moved March 5 into the residence at 325 General Somervell NE; Mary Jane Chester, 3018 Graceland Dr. NE; and Margaret Self, who with her family moved into their new house trailer at the Zuni Court.

Joann Marksbury, 3154, was visited recently by her mother who stopped off en route from Los Angeles to Dallas.

A newcomer in the home of Mr. and Mrs. Oscar Lewis, 4312, is a baby son, David Vick.

The Harlan P. Kelseys are happy to have their son, Peter, home from Los Angeles where he had been employed. He is now studying Mechanical Engineering at the University of New Mexico. Harlan works in 1512.



GETTING THE FEEL OF that warm New Mexico sunshine is 2-year-old Diane Marie Dobias, attractive daughter of John Dobias, 2231.

Friends of W. D. Ragsdale, formerly with AEC, may write him at the following address: Box 58, Gonzales Warm Springs, Gonzales, Tex.

Taking advantage of the Washington's Birthday week end were Wayne Davis, 5133, his wife and son who spent the time in Taos.

Enjoying a visit from his father who lives in Muskegan, Mich., is Jim Meyers, 1932, and his wife, Louise, who works in 2522.

Norbert Brands, 2142, believes former Indianans may be interested to learn of the fire which destroyed the 107-year-old grist mill at Hobart, Ind., a landmark in the Calumet region. Norbert used to fish in the waters near the old mill when he lived there.

The "Brave Men" from 2463 who went Javelina hunting in Arizona last week end included Paul House, Frank Ewing, and Jack Suttman... they hunted with bows and arrows but took a gun along, "just in case."

Piffie Chavez, 2231, is a proud father... his son, Joe Arthur, has recently been admitted to the 188th Fighter Squadron, Air National Guard.

Friends of R. T. Kennedy, AEC, send their best wishes to Mrs. Kennedy who is recuperating from a recent operation.

Noma D. Tilley, AEC, and Ruth Foust, AEC, were both honored with luscious cakes upon the occasion of their birthdays early this month.



NEW FATHER BILL FEARS gets acquainted with his "Valentine" baby, little Valarie Susan, who was born to him and Mrs. Fears February 14.

Mitzi Quinn, 2222-3, and Frances Tomlinson, 2222-1, motored to Boston recently where they visited Frances' parents. Driving Mitzi's Ford the girls made the trip there and back within 12 days and their only bad luck was one flat tire.

Melba Kennedy's husband, Phillip, who attends the University of New Mexico, placed highest in his law class recently and was awarded a prize of a law book. Melba works in 2221.

New property owners in 2334 include Lois Sexton and Eddie Martinez who both purchased homes in the Bel Air addition. Renato Gianini, 2341, is a new home owner in the Hoffmantown addition.

Clarence Henry, 2341, is the happy owner of a new '53 Plymouth, a two-tone blue 4-door.

Her co-workers in 2334 honored Lois Sexton at a noontime baby shower last Thursday.

Two proud new automobile owners in 2414-1 are Marshall Servis who is driving a '53 Dodge, a blue 4-door, and Geronimo Alexander who is sporting a '53 Chevrolet, a two-tone 4-door.

Frankie Couch was honored at a luncheon last week by her co-workers in AEC.

Pat Allen, AEC, and her husband recently purchased a new home in Vista Encanta addition.

Honored at dinner last week was Betty Frazier, AEC, who is transferring to Washington, D.C., with her husband who is in the military.

A week end of fun in Los Angeles was enjoyed recently by Jerry Marko and Pat Griffin, both of AEC. Pat is the proud new owner of a Chevrolet Bel Air.

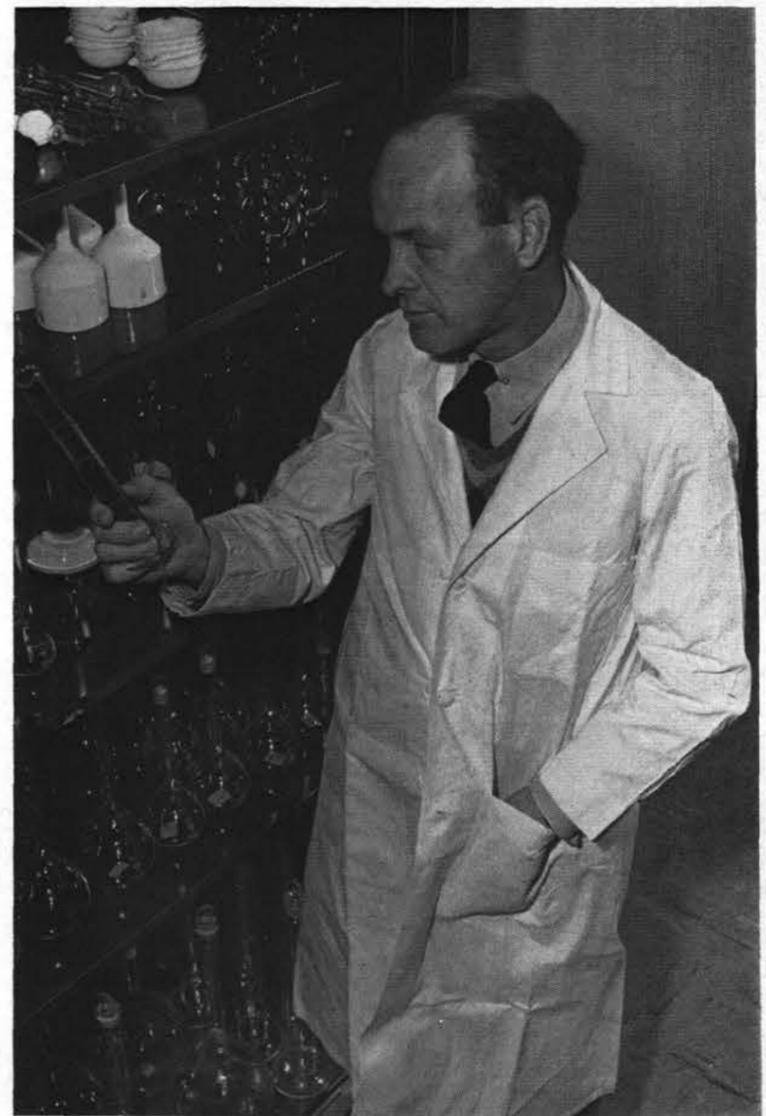


DWARFED by this huge Saguaro cactus is Mary Foster, 4222. The picture was snapped last month when Mary motored to Tucson, Ariz., enjoying the scenery enroute.

— medics modernize —

Everything from whirlpool baths to completely equipped operating rooms are available to Sandians in the newly finished Medical Building.

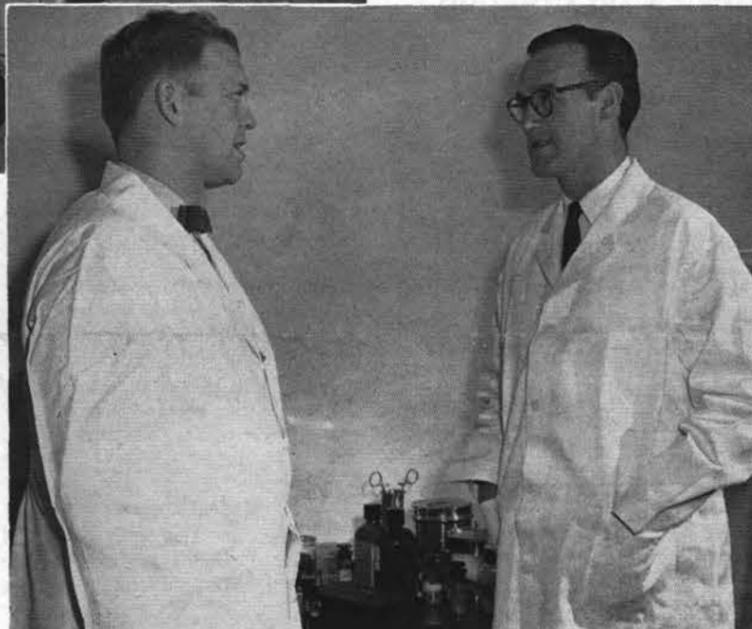
Staffed by five doctors, headed by Dr. Fred G. Hirsch, the building provides examining rooms for each doctor, beds for emergency patients, a spacious research laboratory, plus a magnificent array of equipment including the whirlpool bath and full x-ray apparatus.



Dr. Frederick G. Hirsch, Medical Director, examines a test tube in one section of the elaborate new laboratory.



Dr. Joan Longhurst, left, and Annabelle Masterson check records in one of the attractive offices in the Medical Building.



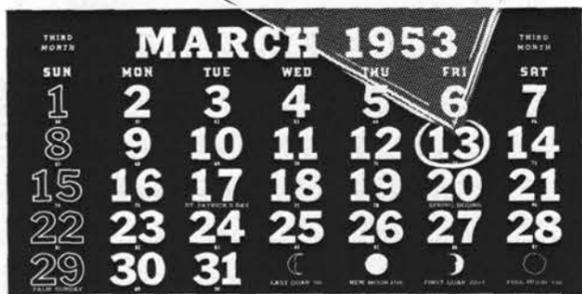
Discussing a case in one of the treatment rooms are Dr. Ralph C. Powell, left, and Dr. George H. Flessas.



Dr. Charlotte Beeson, left, assisted by Mary Murphy, time an x-ray on a patient in the new Radiographic Room.



At work in the laboratory are Dr. Frederick G. Hirsch, medical director, and Julia Clark, seated, and Peggy Metlack and Dorothy Schmid, technicians.



UNLUCKY? NOT TO THEM! Each of the Sandians above was born on March 13. Today is their birthday. For ages both Friday and the number 13 have been regarded as unlucky. To Christians Friday is the day Jesus was crucified and to the Moslems Friday is the day Adam and Eve ate the forbidden fruit and it's also the day they died.

The unlucky 13 superstition stems from the Last Supper at which 13 were present and also a Norse legend telling how the god Loki came unbidden as the thirteenth guest at a feast at Valhalla and massacred the assembly.

In Paris there are no houses with the number 13 and there are people called quatorzieme whose occupation is serving as the fourteenth at dinner.

Our lucky Friday the thirteeners above are: top to bottom in numeral one—Joyce Engblom 2122, Dave Essad 1213, and Lorraine Estep 2464. Top to bottom in numeral three—Bill McConnell 2211, Lloyd O'Neal 1910, Margie Arellano 2461, Paul Morgan 2335, Lawrence Gustafson 2341, and Felipe Silva 2124.

Two Sandians Will Speak to Members Of ASME March 18

Two speakers will be featured at a meeting of the American Society of Mechanical Engineers scheduled for March 18 at 7:30 p.m. in Room 2, Mechanical Engineering building, University of New Mexico.

Talking on "Designing for War-time Producability," C. H. Maak, 5321, will discuss the role of the mechanical engineer in designing for maximum producability during any future war.

Material Conservation

The talk will also cover conservation of materials. Man hours plus machine time will be discussed in terms of recently developed as well as standard alloys.

Rating systems indicating the relative wartime scarcity of metallic elements, the use of alternate materials in specifications, processes requiring fewer man hours and reduced personnel skill, and the influence of inspection requirements will all be explained in the talk.

Lee Toliver Speaks

The second speaker will be Lee Toliver, 1954, who will talk on "Astronomy as a Hobby."

He will discuss the relation of the earth to the other celestial bodies and then go on to cover the types of objects which are visible to hobbyists with small telescopes.

Technical Paper Review on Program Of IRE Meeting

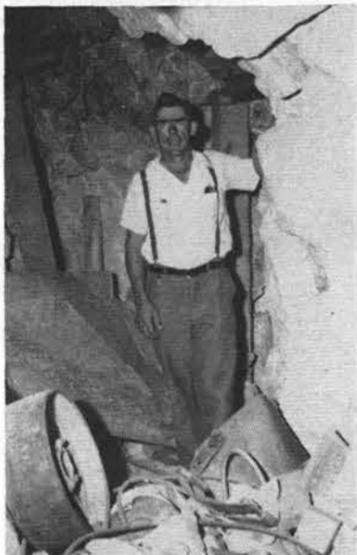
Dr. Bennet J. Basore, 5415, will review a technical paper, "Correlation vs. Linear Transformers," by Dr. Marcel J. E. Golay, at a meeting of the Institute of Radio Engineers on March 27.

The meeting will be a joint one with the New Mexico chapter of the I.R.E. Professional Group on Information Theory. It will be held at the University of New Mexico's Mitchell Hall, room 102, at 8 p.m.

New Employees

A welcome is extended to the following newcomers who joined Sandia Corporation between February 18th and March 4th:

Madison E. Oliver	1241
Roy C. Myers, Jr.	1281
Nellis E. Hill	1284
Harry R. Botts	1321
Howard P. Engels	1322
Ernie McDaniel	1511
Cecil M. Littleton	1512
William P. Ryan	1732
Lee F. Parman	1923
Doris M. Brown	1924
Ruth B. Miller	1924
Nelsina M. Sacre	1924
Roy H. Anderson	2122
Ralph Dooley	2122
Kenneth D. Langley	2124
Russell P. Asbury	2126
Erma G. Campbell	2231
Ordella M. Folkman	2231
Leona B. McClouth	2231
Marjorie R. Thibodeau	2315
Shirley L. Willett	2322
Odes Caster	2419
Ruth Y. Romero	2419
Luis Santillanes	2419
Orville F. Padilla	2452
Beverly J. Barkhau	2461
Diane V. Gonzales	2461
Darlene E. Koehn	2461
Marilyn L. Dellenev	2520
Billy D. Pontsler	2533
Karl E. Lindell	2552
Marilyn E. Johnson	3151
Elizabeth J. Stonecipher	3151
Patricia J. Johnson	3152
Loretta A. Loose	3153
Mary G. Murphy	3160
Clarence R. Sandin	3230
Mary E. Schutte	3232
Richard C. Fredrickson	4152
Andrew J. Alderete	4222
Donna M. Carlson	4222
Eva J. Gallegos	4222
Martha L. Gillespie	4222
Maxine A. Johnson	4222
Ann H. Skinner	4222
G. Ann Vigor	4222
Louis S. Palmer	4311
Marian E. Hills	5131
Charles E. Morgan	5215
David E. Henry	5222
Floyd E. Forsythe	5241
Vernon D. Peckham	5415



DEEP UNDERGROUND Burke C. Duff, 5214, poses in his California gold mine. He hasn't mined since the war, but "thar's still gold in them hills."

Burke was employed by several contractors and in November, 1942, commenced work for the Navy at their Salton Sea Base.

Mine Damaged

"During the war marauders ruined the hoists, wrecked equipment and generally tore down the few buildings I had at the mine," Burke says. He has not since resumed his gold seeking venture and is quite happy with his job in the laboratories of 5214.

Burke's gold strike was almost 100 years later than John Sutter's in the earlier days of California, but it shows that there may be possibilities that the mountains of the Golden State hold some secrets yet to be found.

A mine in the mountains is a Standby project for Burke Duff

California Gold Has A Lure

There's a gold mine in the Eagle Mountains near Indio, Cal., which holds quite a bit of interest for Burke C. Duff who works at Salton Sea Base. The fact that Burke owns the mine accounts for his interest in its welfare and also the fact that some of the ore from the area has been assayed at from \$5 to \$135 per ton reasonably assures his continued interest.

His gold discovery dates back to the days before World War II when Burke was driving heavy equipment for farmers in the Coachella Valley. "The dust became too much for me," he relates, "and I started into the mountains on a prospecting trip."

Special Technique

Burke worked out a special technique of searching for the ore. He walked the ranges and at likely looking spots took samples, marking the location. In the evening he'd make a camp near a stream and wash out the samples.

For seven days this was his routine and he found nothing that promised to be profitable. On the eighth day he took about 60 samples and headed for camp where he started washing the gravel. That was the day he struck pay dirt.

"It was about the fifth or sixth sample washed and it looked like I had something," he recalls. "I went back to the spot, took some measurements and headed for town." He soon bought the needed property from the railroad and went to work.

War Ends Mining

Assisted by his brother-in-law and step-father, Burke sunk two shafts. From these he extended passageways, known as drifts, and was busy taking out ore when Dec. 7, 1941, put an end to the venture. He left the operation after the government suspended gold mining for the duration and pegged the price of gold at \$35 an ounce.

During the early days of the war

Motorists Can Blame Most Accidents On Themselves—They're in A Hurry

119 Join Company In February; 42 College Graduates

Newcomers to Sandia Corporation for the month of February totaled 119, according to figures prepared by the Personnel and Employment Department. These new employees came from 29 states.

Forty-two of the February arrivals have college degrees and have attended 35 different colleges and universities. Eight graduated from college this year. Eighty-five of the new Sandians were married and have 109 children.

Home States

Alaska	1	Nebraska	1
Alabama	1	New Jersey	2
Arizona	1	New Mexico	50
California	9	New York	3
Colorado	3	Ohio	3
Connecticut	1	Oklahoma	2
Illinois	11	Oregon	1
Iowa	1	Pennsylvania	3
Kansas	3	South Dakota	1
Kentucky	1	Tennessee	3
Massachusetts	1	Texas	6
Michigan	1	Utah	1
Minnesota	1	Virginia	2
Mississippi	1	Washington	3
Wisconsin	1		

Colleges Attended

Universities of California, New Mexico, Arizona, Colorado, Nebraska, Wyoming, Iowa, Pittsburgh, Detroit, Houston, Texas.

Trinity University, Aeronautical University, Ohio Wesleyan University, Stanford University, Drake University, Sacred Heart Junior College.

Southwest Missouri State College, Illinois College, Otterbein College, Rockford College, Utah State Agricultural College, South Dakota State College.

Iowa State College, Washington State College, North Central College, Iowa State Teachers College, South Dakota School of Mines.

Texas A & M, Oklahoma A & M, College of St. Teresa, Denver University, Centenary College, U. S. Naval Academy, Clarkson College of Technology.

College Degrees

Associate of Arts 1, Bachelor of Arts 12, Bachelor of Science 24, Master of Arts 2, Master of Science 3.

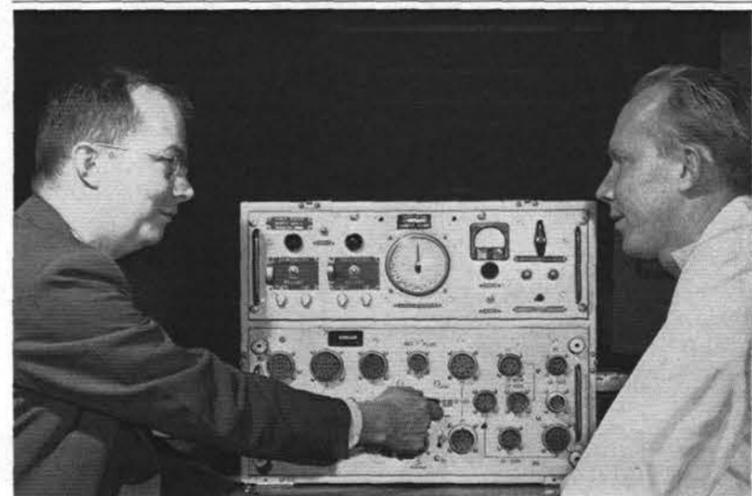
Patent Granted to Sandia Employees

On December 16, 1952, two Sandians and a former Sandian became inventors, first class. That was the day a patent was issued for a device they had created called an "automatic cable tester or fault analyzer means."

The inventors are Dick Richards, 5432-1, Louis "Jack" Kabell, 5415, and ex-Sandian Allen Dyer.

The three started on the instrument about the middle of 1949. They worked on it for six months before it was completed and in 1950 a patent application was filed.

The new device, patent number 2,622,130, is now being used in industry.



INVENTORS AND INVENTION. Dick Richards and Jack Kabell discuss their newly patented invention—the automatic cable tester.

Folks in charge of traffic control on Sandia Base have reason to view the situation with alarm. The Provost Marshal's office reports that a rash of minor motor accidents has broken out on the base since January 1.

The Military Police point out, with statistics, that the factor in most accidents was failure to practice courtesy, compliance and caution, aggravated by the fact that most motorists are trying to save minutes.

Give Statistics

Long-time statistics gathered by the office of the Provost Marshal show the following breakdown as to causes of motor vehicle accidents on the base:

Acts of God	1%
Mechanical Failure	8%
Driver attitude	91%

It is that driver attitude which causes about 9 out of 10 accidents which is the concern of the traffic people here—and rightfully so. And the present-day attitude comes from the fact that too many people believe the good driver is one who can get out of a tight spot safely. Gone seems to be the theory that the good driver is one who doesn't get into tight spots in the first place.

Accident Causes

Here are the six reasons for most accidents caused by driver attitude:

- excessive speed
- failure to signal
- failure to stop
- failure to allow sufficient clearance
- failure to yield right-of-way
- inattention.

Apparently application of an effort to return to good old common courtesy would mend many of the troubles of the Base motorist—and the Base Military Policemen.

Ladies' Bowling League Tourney Sunday, Mar. 22

The Ladies "Jewellee" Bowling League will hold a Singles and Doubles Sweepstakes Sunday, March 22, at the Coronado Club Alleys.

Participating in these events will be Louise Masak, Monica Tomczak, Lois Sherwood, Norma Combs, Tess Emeree, Gerry Hahn, Mary Lou Butler, Clare Dreesen, Jody Palmer, "Moe" Kidd, Mary Nell McKinney, Mary Schwartz, Elsie Armijo, Betty Ross, Barbara Carroll, Mamie Burg, Marian Muchowski, Carrie Pumphrey, Natalie Bradley, Evelyn Wallace, Rose Hainlen, Petie Fink, Jerry Sensel, Betsey White, Margaret Reese, Julia Dadian, Sybil Milligan, Erma Fauerbach, Emma Pretti, and Pat Anderson.

Any women bowlers who are interested in participating in the Sweepstakes are asked to contact Gerry Hahn, ext. 31141.

Team No. 6 of the ladies league, the "Onyx," will be bowling in the State tournament at Hobbs over the week end of March 28. Rose Hainlen, Petie Fink, Betsy White, Margaret Reese, and Jerry Sensel will participate while Gerry Hahn and Mamie Burg will be joined by three other Albuquerque lady bowlers to compete in the tournament.

Mountain Club Plans Trips

Future activities of the New Mexico Mountain Club include an overnight trip to White Sands scheduled for March 22, and a trip to Blanca Peak, 14,000-ft. peak, in southern Colorado April 11 and 12. Next meeting of the club will be March 31, 7:30 p.m. at Mitchell Hall at the University of New Mexico. Prospective members may obtain further information from "Hank" Tendall, 1211-1, ext. 22150.



MUSIC MUSIC MUSIC—After study in the Intraveria Music Appreciation class at Salton Sea Base the students get together and give out in their own way. L to R: Earl Saxton, Valerie Young, Instructor Tom Intraveria, Ray Wason, Mrs. Edyth Rosenberger, Bobby McNabney and Ira D. McKinney.

Students of Music at Salton Sea Are Serious—They Get A Teacher

"Calling all music lovers." Call them he did, and today Thomas J. Intraveria of Salton Sea Base has a class of eager students who weekly study harmony, counter point, theory, and the other phases of music. Perhaps the best part of the whole class comes after study when the students break out musical instruments and stage an informal musicale.

Loves Music

Tommy, who works in 5214, comes from a musical family in Madison, Wisc., has had a musical career and would just as soon work with music as eat. At least his enthusiasm gives that impression.

A student of music at 11 and a member of a dance band when 15, Tommy was completely captivated by music when he entered college at Western Kentucky in Bowling Green. A teaching fellowship given him by the school indicated his musical ability.

The course of international events changed his life, and he entered the Army—the Medical Corps. But in a short time he was playing with the Ninth Service Command Band.

Suggest Class

After the war Tommy went on the road with a dance band and played many of the brighter spots in the country—among them the Flamingo in Las Vegas, the Clairmont Hotel in Berkeley and the Edgewater Beach Hotel in Chicago.

Marriage took him off the road and in June, 1952, he started work at Salton Sea Base for Sandia Cor-

poration. The music class grew out of a suggestion of Ray Wason and Earl Saxton, both 5214, and now there are almost a dozen enrollees. They include: June Austin, Zilah Wilson, Edyth Rosenberger, Gladys Keller, Valerie Young, Ray Wason, Earl Saxton, Ira D. McKinney, Barbara Dirnberger, Eugene Dirnberger and Bobby McNabney.

Elect Tom Marshall New Secretary of Base Radio Club

The Sandia Base Radio Club recently elected Tom Marshall, 5412, W5RFF, secretary. Tom is presently running for the post as American Radio Relay League section communications manager for New Mexico.

The League is the official national organization of licensed radio amateurs, and section communication managers administer League business in each state.

Construction Starts On New Building for Personnel Dept.

Construction began Wednesday on the new building which will house the Employment and Personnel Department.

The building, which will be located east of the new Medical Building, will be similar in design to that structure. It is anticipated that construction time will approximate 6 months.

McAfee and Clark of Albuquerque is the contracting firm.

Piano, Bass Needed For Dixie Combo

A Dixie combo is in the making. Stan Locus and Phil Gelt, both 5412, are organizing a six-piece band with a Dixie flavor.

The combo, they say, is for "kicks and week-end jobbing." Right now they need an experienced piano man and an experienced string bass.

If you know one—or if you are one—get in touch with Stan at ext. 5189 after 5 p.m.

Employee Basketball League Standings

TOP TEN PLAYERS				
Name	Team	FG	FT	TP
1. Gregson	Wolverines	.70	21	161
2. Olguin	Hoosiers	.59	23	141
3. Emerick	Spartans	.53	32	138
4. Barela	Buckeyes	.45	20	110
5. Schulz	Gophers	.41	27	109
6. Kurth	Wildcats	.39	28	106
7. Ehr	Illini	.37	29	103
8. Cushman	Spartans	.41	20	102
9. White	Badgers	.44	11	99
10. Winters	Hoosiers	.41	13	95

Team	Won	Lost	Pct.
Boilermakers	.13	0	1.000
Hoosiers	.13	1	.929
Gophers	.11	3	.786
Buckeyes	.6	7	.462
Wildcats	.5	7	.417
Illini	.5	8	.385
Badgers	.4	9	.308
Spartans	.3	10	.230
Wolverines	.2	12	.143

What's My Line?



Webster's Dictionary and a blue pencil play an important role in this girl's job. She works in a service organization and the finished product turned out from her desk sometime receives wide distribution, but is never seen by the general public. She has to have special training for her position and her two college degrees indicate her specialty. See answer on page 7.

Non-destructive Testing to Be Topic of Panel

The Society for Non-destructive Testing will hold its first meeting in Albuquerque at the Coronado Club tonight at 7 p.m.

The dinner meeting will feature a panel discussion on "Non-destructive Testing—Its Advantages and Techniques." Panel members will be John R. Townsend, 1600; Arvin F. "Doc" Cone, 1510; and Dr. Gerald H. Tenney and James W. Dutili of Los Alamos Scientific Laboratory.

Favorite Foods

This is another in a series of stories about Sandia cooks who enjoy the culinary art as a hobby and a pleasant pastime and are highly accomplished in their art. With each article there is a recipe for those gourmets who wish to try their hand in the kitchen.

Trying out new recipes makes cooking more interesting, according to Mary Richardson, 2541. "I like to use herbs, too," Mary says, "but they're tricky and you have to be careful."

Mary is an experienced cook so her culinary fiascos are pretty rare. About the worst thing that happens occasion-



ally is that Mary prepares a big salad for company, then forgets to put it on the table. Mary wouldn't be without her pressure cooker and uses it consistently for quick, tasty meals. She thinks every working wife should have one—"you can even fix a stew in time for the evening meal after you get home from the job."

Here is one of Mary's tried-'n-true favorite recipes:

Hot Dish Tuna

- 1 7-oz. can Tuna
 - ½ pound mushrooms
 - 1 green pepper
 - 4 small onions
 - 1 can condensed tomato soup
 - 6 English muffins
- Break tuna in large pieces. Slice mushrooms; dice green pepper; slice onions. Saute in a little fat until mushrooms and onions are a golden brown. Add tomato soup and tuna; heat thoroughly. Split and toast English muffins; top with tuna mixture. Serves four.

Congratulations!

BORN TO:

Mr. and Mrs. Edward Kubiak, 2225, a daughter February 26—weight 6 pounds 4 ounces—name Valrie.

Mr. and Mrs. Bart Hake, 3152-1, a daughter February 27—weight 7 pounds 6 ounces—name Rayna Karen.

Mr. and Mrs. James Becker, 2142-2, a daughter February 10—weight 5 pounds 8 ounces—name Deborah Kay.

Mr. and Mrs. Mike Bucklin, 2419, a daughter February 14—weight 7 pounds—name Marie Katherine.

Mr. and Mrs. Edmund "Stan" Gillespie, 5412—a son February 23—weight 7 pounds 9 ounces—name Edmund S. Gillespie, Jr.

Mr. and Mrs. Robert Lynes, 4311, a son February 27—weight 7 pounds 7 ounces—name John Robert.

Mr. and Mrs. Phillip S. Mentz, 2551, a son February 21—weight 7 pounds 9 ounces.

Mr. and Mrs. Bill Fears, 1512-1, a daughter February 14—weight 6 pounds 4 ounces—name Valarie Susan.

Mr. and Mrs. Leo Gutierrez, 1331, a son March 4—weight 7 pounds 1 ounce.

Mr. and Mrs. W. M. "Bill" Wells, Jr., 1332, a son February 24—weight 7 pounds 8 ounces—name William Mercer Wells, III.

Mr. and Mrs. Joe Sterrett, 1331, a son March 3—weight 7 pounds 5½ ounces—name Richard Howard.

Mr. and Mrs. D. R. King, AEC, a daughter February 22—weight 7 pounds 2 ounces—name Constance Gaybrilla King.

Mr. and Mrs. Kelley Montoya, 2231, a son February 19—weight 12 pounds.

Mr. and Mrs. James R. Ramsey (Mary L., formerly of AEC) a son February 22—weight 7 pounds 12 ounces.

Mr. and Mrs. Harold Kalin (Phyllis, formerly of AEC) a daughter February 7—weight 8 pounds 2 ounces—name Sherry Marie.

Bowling INDIAN LEAGUE

Team	Standings	Won	Lost
Hopi	45½	34½
Potawatomi	45	35
Blackfeet	43	37
Apache	40½	39½
Mohawks	40	40
Arapahoe	39	41
Navajo	35	45
Zuni	32	48

Team and Individual
 High team series: Apache, 3121.
 High team game: Apache, 1184.
 High individual series: Lloyd, 729.
 High individual game: Lloyd, 279.

Top 10 Averages
 Nendell 182, Abbott 172, Malley, Parsons 170, Lloyd 169, Leonard 167, Horne 166, Whitney 165, Robertson, Fink 164.

MAJOR LEAGUE (DOWNTOWN)

Team	Standings	Won	Lost
Mackeys	57	31
Hassebroek	51	37
Ace	50	38
Stromberg	49	39
Sowell	45	43
Neis	44	44
King	43	45
Jacks	41	47
Hobson	40	48
Patterson	40	48
Corner	36	52
Chick	32	56

Top 10 Averages
 Vinovich 184, Maxwell 174, Frantz 172, Redburn 169, Reed, Duffield 168, Johnson, Kerl, Rappayelea 167, Leonard, Mills, Gasta 165.

LADIES' "JEWELLETTE" LEAGUE

Team	Standings	Won	Lost
Zircos	55	33
Emeralds	51	37
Onyx	50½	37½
Turquoise	44	44
Sapphires	44	44
Diamonds	39	49
Garnets	37	51
Jades	31½	56½

Team and Individual
 High team series: Zircos, 2197.
 High team game: Zircos, 784.
 High individual series: Fauerbach, 564.
 High individual game: Fauerbach, 229.

Top 10 Averages
 Fauerbach 156, Butler 152, Sensel 146, Hainlen, Burg 141, Masak, Fink 140, Muchowski 139, Combs 137, Sherwood, Wallace, Palmer 133, Pumphrey 132.

JUNGLE LEAGUE

Team	Standings	Won	Lost
Lobos	52	32
Wildcats	51	33
Lions	49	35
Gophers	45	38
Mustangs	39	45
Rabbits	39	45
Bears	32½	51½
Panthers	28	56

Team and Individual
 High team series: Lions, 2678.
 High team game: Wildcats, 932.
 High individual series: Rowe, 620.
 High individual game: Leonard, 246.

Top 10 Averages
 Maxwell 180, Davis 176, Rowe 174, Duffield 173, Anderson 168, Mills, Campbell 167, Cook, McCann 166, Leonard, Stradford, Hickey, Heuer 165.

ALL-STATES LEAGUE

Team	Standings	Won	Lost
California	49	35
Oklahoma	48½	35½
New York	45	39
Indiana	42	42
Michigan	38½	45½
Illinois	38½	45½
Iowa	37½	46½
Wisconsin	37	47

Team and Individual
 High team series: Oklahoma, 2678.
 High team game: Oklahoma, 939.
 High individual series: Schultz, 591.
 High individual game: Barton, 236.

Top 10 Averages
 Parsons 170, Lindquist 166, Gunther 165, Schultz, Schenke 164, Allman 163, Callahan 159, Fellows, Muchowski 158, Guntrum 155.



"HERE HE COMES NOW, BERT, HE WAS STUMBLING AROUND IN THE BASEMENT WHEN YOU CALLED."

Hidden Radio Station to Be Sought by Hams

Like bloodhounds in action local radio amateurs will be sniffing the air waves on March 23 when the Sandia Base Radio Club conducts a mobile transmitter hunt.

Hams who have their cars rigged with radio sets will participate, along with their friends, on a hunt for two hidden transmitters.

Follow Signals

The frequencies used by the concealed transmitters will be on the 10 and 75 meter phone bands. Search cars will attempt to follow their signals to the hidden source and the first ham who succeeds in locating either the 10 or 75 meter transmitters will be awarded a prize.

Loop antennas will be used by some participants and regular whip antennas by others. Triangulation will be the principal search method. The mystery transmitters will be manned by club members who will broadcast assigned call letters continually, along with appropriate comments as the searchers draw closer.

Guests Invited

All mobile hams and their guests are invited to participate. The hunt will start at 8:15 at the new club rooms located at the front of the MARS radio station building T-321 on the Base.

Arrangements for the transmitter hunt are being made by Joe Knight, AEC, the program chairman. Approximately 20 cars are expected to join in the search.

Club members are urged to notify the club secretary if they are American Radio Relay League members. The information is needed to comply with an ARRL request.

Rockhounds Party St. Patrick's Day

The Albuquerque Rockhounds Club will hold a St. Patrick's Day party on Tuesday, according to Ralph Calvert, 5132, publicity chairman.

The party for members and their guests will be held at 7:30 p.m., Church of Christ recreation room, Fifth Street and Marble Ave.

Sympathy

Sympathy is extended to Arthur Menapace, 2122, whose brother, a Navy man, was recently lost at sea.

Her fellow workers extend sympathy to Maxine Norfleet, 4135-2, whose husband died recently.

Sympathy is extended to Charlotte Schramm, 4131-3, whose father died recently in New Jersey. Charlotte went east to attend the funeral.

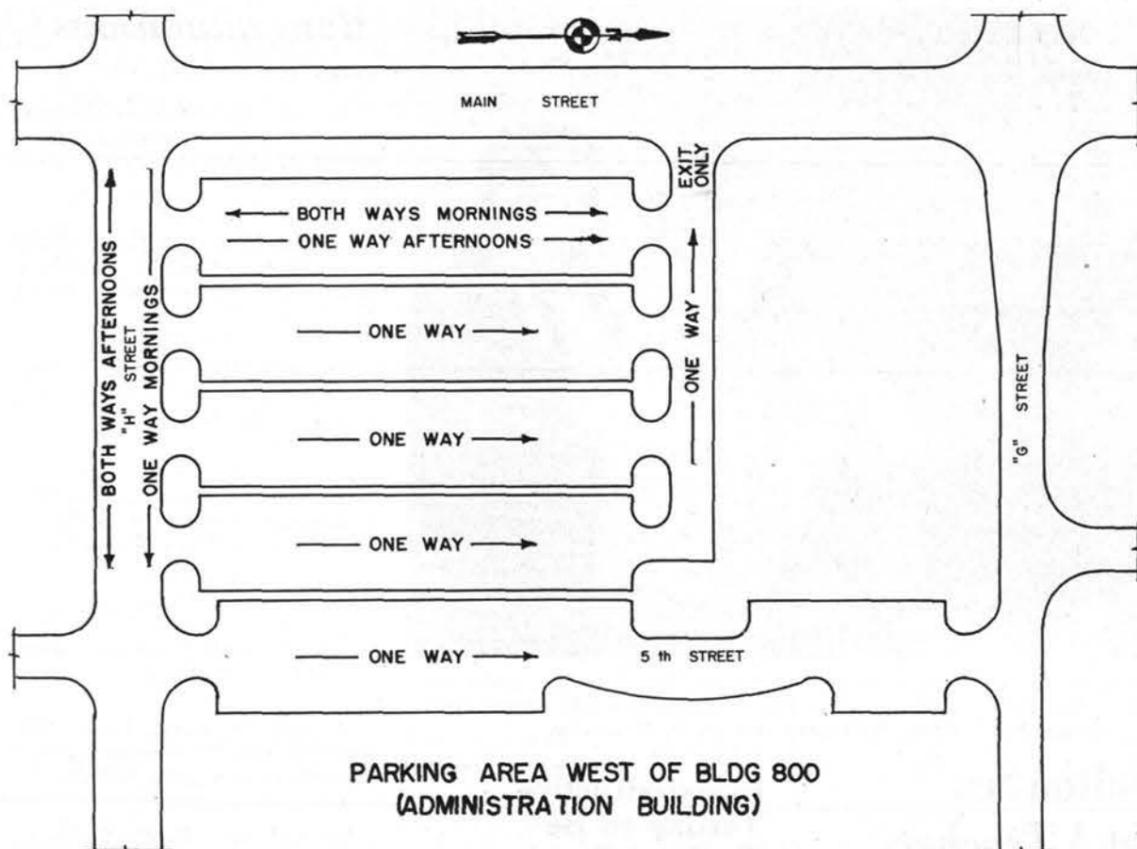
Sandia Toastmasters Elect Officers; Will Be Host to Albuquerque Clubs

Newly elected officers of the Sandia Toastmasters Club include Art Jones, 4232, president, Jack Sublett, 2552-2, vice president, George Holladay, 1521, secretary, Tom Robertson, 1640, treasurer, Frank Gagliardi, 1263, sergeant-at-arms, Lee Deeter, 5430, deputy governor, and Gene Gardner, 1631, education chairman.

The officers will be installed April 2 at the Coronado Club with the exception of Lee and Gene who take over their offices in June.

Tomorrow evening at 7 o'clock the Sandia Toastmasters will be hosts at the Coronado Club to the four other Albuquerque Toastmasters clubs when the area contest will be held. Virgil Harris, 5251, area governor, will be toastmaster for the evening, conducting the speech run-offs. Max Weber, 5132, outgoing president of the Sandia group, will welcome members and guests, and J. J. "Mike" Michnovicz, 2462, will entertain with accordion selections. Ladies are invited to the area meeting and a smorgasbord dinner will be served.

Joining the other clubs' representatives on the judges' roster will be Bill Bramlett, 3451, and Gene Gardner, with Art Jones as timer. Alternate



A CHANGE IN TRAFFIC control has been announced for the parking lot west of Bldg. 800. Effective March 30 the flow of traffic in and out of the lot will be changed as shown in the above drawing. For 30 minutes before starting time and 30 minutes after quitting time traffic on H street will be one-way—to the east. All other hours the street will be open to two-way travel.

Sandian Tells of Safety Programs For Universities

Adequate safety programs for colleges and universities were discussed recently by A. B. Metzger, Sandia Corporation Safety Director, before an Albuquerque meeting of representatives of physical plants of 18 western schools.

Mr. Metzger discussed engineering layout and arrangement for safety programs in physical plants and also told of techniques of accident investigation.

"While we can control accidents," Mr. Metzger told the listeners, "we cannot control the severity of resulting injuries and for this reason all types of accidents, both minor and disabling, must be thoroughly investigated." Mr. Metzger went on to point out that it is through this investigation that means are determined to avoid similar accidents in the future.

Appearing on the two-day program were speakers from the colleges and universities participating attending the convention. They talked on various problems faced by the physical plants of schools of this area of the country.

Ski Fans Visit Sun Valley for Week of Sport

A week full of strenuous slaloms, schusses and sitz marks was on the schedule for a group of Sandia Corporation employees who traveled some 950 miles to Sun Valley recently.

A memorable seven days in the most spectacular winter sports area in the United States is reported by the group who spent long hours receiving instructions from some of the finest skiers known and practicing what they learned.

Started Early

Making the trip from Sandia were Frank Murar, 5252, and his wife Jackie, Art Eldridge 1542, Dick Rudolph 5252, Bill Lawrence 1922, Henry Strauss 2310, and Pat Anderson 5243.

The skiers advise us that their days began at 7 a.m. when they reported to their instructors and lasted until 5 p.m. when they returned to the lodge. Thrilling rides on ski lifts, ideal weather, a few minor bumps and a good tan were reported by the enthusiasts.

Win Silver Pins

Art Eldridge entered competition on the slopes and won a silver sun pin for his race against time in the Silver Sun Standard. Henry Strauss was awarded a silver ram pin for his performance in grand slalom competition.

The Sandia skiers reported the week was made complete with an abundance of good food, sleigh rides and evenings full of entertainment.

St. Pat's Dance Has Favors For First 600 Guests

There are four days left to find your costume for the St. Patrick's Day Ball on Tuesday. This will be one of the biggest events of the month, certainly the most colorful. In addition to the costumes the ballroom will be decorated in true Emerald Isle style.

To top it all off the first 600—count 'em—600 who come to the ball will be presented with free favors for the evening.

The dance will be from 9 to 11 with Doc Savage and his orchestra playing. It's all free to members, \$1 per guest.

Another highlight of the month will be the fashion show to be presented at the buffet-dance Sunday night.

Juke box dances will be held tomorrow night and on the 21st. There'll be bingo on Wednesday the 18th, duplicate bridge on Thursday the 19th and 26th and duplicate bridge instructions on the 23rd from 8 to 9:30 p.m.

Pancho Baird and his Santa Fe Rangers will appear on Friday the 20th for the monthly square dance and Arthur Murray instructors will give lessons in ballroom dancing on Tuesday the 24th.

Easter Seals Slated For Base Residents

Residents of the AEC housing area on Sandia Base will receive packets of Easter Seals within the next few days.

Distribution of the seals to residents is being arranged by Sandia Corporation in view of the fact that mailing addresses are unavailable to the New Mexico Society for Crippled Children.

It is possible that some residents of the Base may also receive a packet of seals through the mail, and in such cases the extra seals should be returned.

During the past year, the New Mexico Society for Crippled Children has assisted 15 children on Sandia Base. The activities of the organization include the operation of the Central Cerebral Palsy Clinic and Day School, the operation of the Epilepsy Seizure Clinic in Albuquerque, a speech and hearing rehabilitation clinic, maintenance of a summer camp for handicapped children, and lending of wheel chairs, crutches, hospital beds, and other equipment needed for the home care of crippled children.

The Association depends entirely upon the sale of Easter Seals and private contributions for its support.

A goal of \$48,000 to provide improved physical, educational, and vocational services to crippled persons in New Mexico has been set for 1953. The Bernalillo County quota is \$15,000.

Electrical Safety Program to Be Given To AIEE Members

A program on "Electrical Safety" will be jointly produced by representatives of the Public Service Co. of New Mexico and Mountain States Telephone and Telegraph Co. at a meeting of the American Institute of Electrical Engineers on March 24, 8 p.m., room 102, Mitchell Hall, University of New Mexico.

This coordinated program will feature demonstrations on the topic plus a color film on "Wood Preservation."

The Institute is also planning a joint meeting March 26, at Mitchell Hall, with student branches of the AIEE and the Institute of Radio Engineers. This meeting will center around the annual AIEE student paper competition to choose the University student delegate to the District Student Meeting at Oklahoma A & M.

ASM Members to Entertain Wives Thursday Night

"Magnification in Time" will be the topic when the American Society for Metals convenes March 19 at a Ladies Night dinner meeting in the Los Alamos Civic Club. The dinner starts at 6:30 p.m.

The speaker will be Dr. James B. Austin, Director of Research of the U. S. Steel Corporation and national vice president of the American Society for Metals.

He will discuss recent advances in high speed photography as related to items of metallurgical interest.

The talk will be illustrated with slides and high speed films of welding arcs, open hearth streams and the interiors of blast furnaces.

Curt Biggs Speaks To AIEE on Design Of Transformers

An illustrated talk on "Transformer Design" was presented by H. Curtis Biggs, 2122, at a meeting of the American Institute of Electrical Engineers on Tuesday.

Curt showed sample designs of power and output transformers and filter reactors. He ran slides depicting sample specifications, frequency response curves and transformer construction.

He also discussed the materials used in transformers and the equivalent electric circuits of transformers.



ALL ABOARD FOR SUN VALLEY—and a group of Sandians pose in front of their chartered bus. L to R, front row: Kay Kuhn, Dorothy Martinez, Helen Mitchell and Pat Anderson. Back row: Jackie Murar, Frank Murar, Art Eldridge, Dick Rudolph, Bill Lawrence, Henry Strauss, Doris Ehret, Chuck Elmer and Wayne Elwood.

News from the Field of Atomic Energy

New pieces of equipment which researchers at Argonne National Laboratory have turned up during the last few months include a plastic press three and one-half times more powerful than the heaviest equipment now available to industry, an electronic computer that can work 100,000 times as fast as a trained operator using a desk-type electric calculating machine and a radiation measuring gadget that won't require adjustment for 20 years. (Wall Street Journal)

The Air Force has disclosed that fruit flies are being sent in pressurized tubes to altitudes between 50,000 and 100,000 feet in order that descendants of the flies may be studied through several generations to determine kinds of mutation produced by cosmic radiation. (Memphis Commercial Appeal)

Clifford C. Furnas, director of the Cornell Aeronautical Laboratory, says he believes nuclear propulsion will eventually be successful and that some very large nuclear-propelled aircraft with practically "infinite range" and any desired speed will be built, but that "their use will be confined to special military purposes." (New York Times)

Dr. Enrico Fermi told a reporter at the American Physical Society meeting in Cambridge, Mass., that mesonium, a chemical element formed in a cyclotron, further enables scientists to measure size of an atom's nucleus, and may well become the most accurate means of taking such a measurement. (Boulder Camera)

The design of nuclear reactors is posing difficult problems for engineers, even in such simple matters as turning a reactor "off" and "on." M. A. Schultz of the atomic power division of Westinghouse Electric says it is impossible to completely shut off a reactor and that even in a brand new, cold, clean reactor that has been shut down as much as possible, neutrons from earlier runs will cause a certain amount of nuclear fission to occur. Dr. Schultz pointed out that the engineers confidently expect that nuclear reactors will take the place of giant oil and coal burning furnaces now used in power houses. He made the above comments in a speech before the American Institute of Electrical Engineers in New York. (New York Times)

Montefiore Hospital in New York has dedicated a powerful cobalt bomb with rays that equal those of a 3-million volt x-ray machine. Dr. John C. Bugher, director of the AEC's Division of Biology and Medicine, says that cobalt-60 is no cure-all, but that gamma rays of this peaceful by-product of atomic research has an energy equal to, or greater than, all known medically used radium in the world. (Washington Post)

University of Chicago scientists are experimenting to find out if gamma rays from atomic furnace waste can help preserve food. The research, which is also underway at the University of Michigan, is aimed at discovering whether rays can kill bacteria which promotes food decay. The researchers are exposing the food samples to radiation by placing them inside a hollow, three-pound tube of cobalt-60. (Philadelphia Inquirer)

Charles C. Campbell, assistant field manager for the AEC Project at Rocky Flats, Colo., has reported that construction of the major part of the atomic project will be completed there early in 1953. Dow Chemical Co., operator of the project, now has more than 500 employees, with 1,200 expected when the plant is in full operation. (Boulder Camera)



MURT McMULLEN CARVES an intricate design into a gunstock, surrounded by pieces of his handiwork. The coffee table in the foreground was made from an old wagon wheel and finished with hammered copper; the cowboy figurine and covered wagon were also made by Murt, who likes to work with wood.

With a Pen Knife This Craftsman Carves His Way

Murt McMullen thinks you get more satisfaction out of something if you make it yourself. His wife, Juanita, adheres to a similar principle . . . she gets an idea and asks Murt to work out the details.

The unusual wagon wheel coffee table in their den is a "McMullen production," along with a miniature wheel table lamp and matching chandelier. Murt enjoys wood carving and wood working as a hobby and when he isn't carving on a gunstock, which is his favorite art, Juanita keeps him busy around the house superintending installation of new shelves or cabinets. She even has a plan for a little gaming wheel bank . . . you put in a quarter and the wheel spins around (just like in Las Vegas only this one you keep).

Murt, who works in 2452, has enjoyed woodcarving since he was a boy on his family's ranch near Pagosa Springs, Colo. A longtime friend of his from the Pagosa region is Fred Harmon, the "Red Ryder" comic strip originator. Murt says he is acquainted with many of the real life counterparts of Ryder characters.

From early responsibility for guns stemmed Murt's favorite hobby of carving gunstocks and although he possesses some rather fancy carving tools, his pet is a small, sharp pocket knife. For diversion Murt carves figures of cowboys, horses, covered wagons or nameplates for his friends.

The McMullen's attractive home at 828 Georgia, SE, reflects Murt's do-it-yourself trait. They have a patio and barbecue and bordered flower beds, all designed and executed by the man of the house. Murt recalls his first day of brick-laying for the barbecue: "I worked the whole day and only laid seven bricks. First it was trouble with the mortar mix, then something else. I finally got the hang of it and things went faster after that, but I didn't realize what a job that brick business can be 'til I started."

Westinghouse Electrical Corp. in disclosing AEC cleared heretofore secret details, has reported that the first atomic power plant has resulted in hundreds of additions to engineering know-how, including a method by which zirconium can be made in quantity, at a reasonable cost and in desirable purities. (Washington News)

G. I. News —

— From Sandians in The Armed Forces

W. B. "Bill" Russell, who is on military leave from 2311-2, writes from Germany that he expects to be sent back to the States this month and will be returning to Sandia Corporation soon. He will take a short vacation upon his release from service, "get the family together and settled again," then contact the Corporation about his reinstatement. Bill left for service in April, 1951, when he was stationed for a time at Fort Bliss, Texas. Recently he has been on duty in Karlsruhe, Germany.

Another Sandian who expects to return shortly from military leave is Benny M. Garcia, formerly of 2231-4. Benny writes from Korea, "In the eleven months that I have been here in the 'Land of the Morning Calm,' I have always looked forward to hearing from you folks and reading about the latest happenings around the base . . . tell the gang in 2231-4 that I will be seeing them in the near future." Benny's home address is 1306 Edith St. SE, Albuquerque.

Lt. Fred H. Schneider writes from France that he is looking forward to getting acquainted with his new son, Greg, when he returns stateside late this spring. Fred, formerly of 4212-2, expects to return to work with Sandia Corporation soon after his release from active duty in May or June. He says his wife writes that little Greg "eats like a bear fresh out of hibernation."

What's My Line?



Phyllis Flanders, 2464-1, is an editorial assistant. She edits technical reports in the documents division. Phyllis holds a B. A. and an M. A. degree in English from the University of New Mexico, and she taught English at the University for one year prior to joining Sandia Corporation.

Wedding

The marriage of Kay Tessier, 4310, and Johnny McIntosh of Albuquerque, took place February 3 in Santa Fe. Kay, who is a former resident of New Kensington, Pa., came to work for Sandia Corporation about two years ago. Johnny works for Trans World Airlines here. Following their wedding trip to El Paso, Texas, they will be at home at 2626 Morningside NE.



PROMOTIONS

THOMAS E. ROBERTS to section supervisor of 1545-1. Tom came to the Laboratory in 1948 after a year as a salesman for S. C. Johnson and Sons Co., Cleveland, O. Before that he worked as a teller for a year with the First Federal Savings & Loan Co., Lakewood, O. Tom also worked a year as an inspector with the National Carbon Co., Fostoria, O., and for two years as a repairman for a radio service firm there. Tom studied business administration for a total of two years at Miami University, Oxford, O. He is a veteran of three years in the Air Force.



ROBERT W. MOTTERN to section supervisor of 1543-4. Bob joined the Corporation in 1951. Before coming to us he was employed as a chemist with the Texas Company at Beacon, N. Y., for four years. Previously Bob worked at Oak Ridge, Tenn., for the Tennessee Eastman Corporation from 1944 to 1947 as a chemist. He graduated from the East Tennessee State College in 1944 with a Bachelor of Science degree in chemistry and education.



CHARLES WELLS to section supervisor of 1511-2. Charles has been with us since 1949. He came here from Magdalena where he operated an auto machine repair firm for a year and a half. Prior to that Charles spent two years studying government at the University of New Mexico. He is a veteran of three and a half years in the U. S. Army.



JULIAN "JOE" MOODY to section supervisor of 1652-1. Joe joined us in 1949 after a year at the Naval Ordnance Test Station, Inyokern, Cal., as a mechanical precision inspector. Before that he was at Los Alamos for two years as a model and instrument maker. Joe also worked 11 years as a tool maker at the Naval Torpedo Station, Newport, R. I., and five years as a machinist for Pratt & Whitney Co., Hartford, Conn.



ROBERT S. HEWITT to section supervisor of 1641-5. Bob came to the Laboratory in 1948 following a total of three years as senior draftsman for a consulting engineering firm in Kansas City. He also worked two years as a road designer for an architect-engineering firm in Kansas City. For 12 years Bob was a design draftsman for the Missouri Highway Department, Plans and Surveys office, at St. Joseph, Mo. He has taken University of Kansas courses in mathematics and stress analysis.



HERMAN GOLDENBERG to section supervisor of 1513-4. Herman joined us in 1948 after graduating from the University of Oklahoma with a B. S. degree in electrical engineering. Herman went from high school to a year at the University of New Mexico. He then transferred to the University of Oklahoma, studied a year there and then went into the Navy. After two years in the Navy he returned to the University of Oklahoma where after two years he received his degree.



HAROLD HODGES to section supervisor of 1511-1. Harold has been with the Corporation since 1950. Previously he was awarded his B. S. degree in electrical engineering from the University of New Mexico. Harold is a veteran of 39 months in the Army and before entering the service he worked with an architect-engineering firm in Mississippi in the field survey department for 18 months.

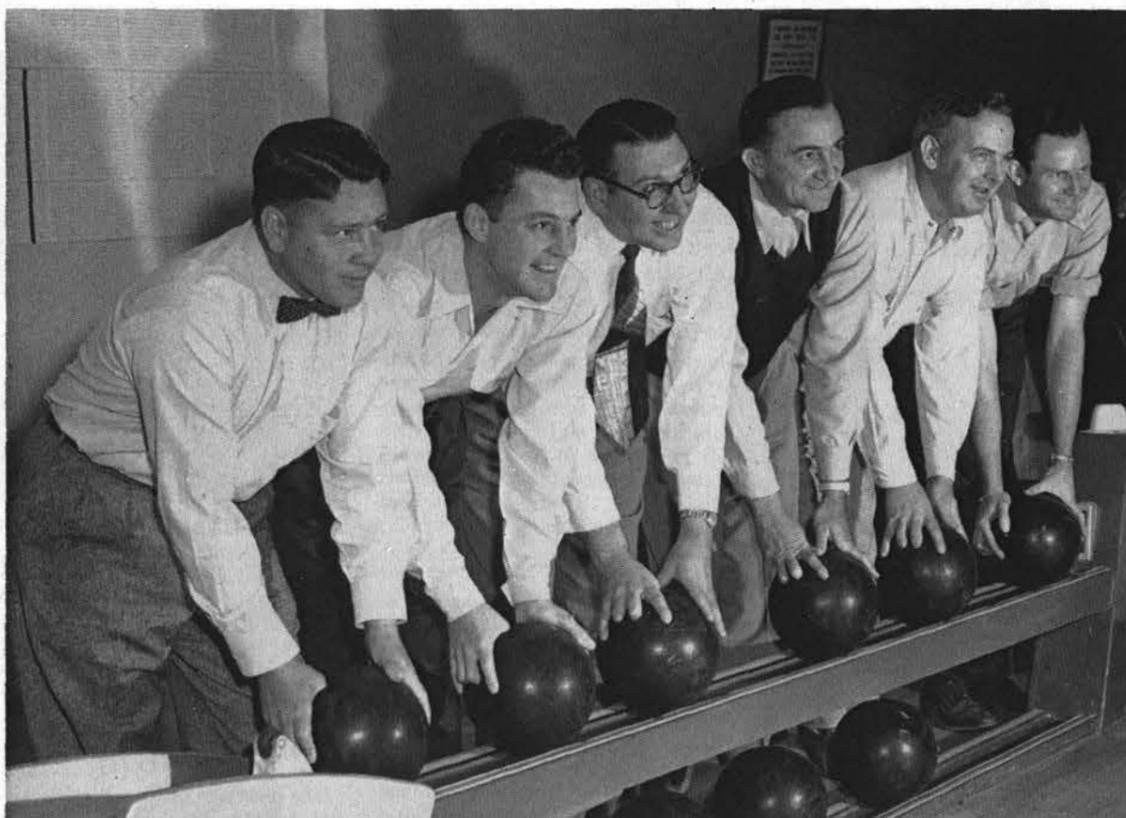


MERRILL C. JONES to section supervisor of 1651-1. Merrill joined the Laboratory in 1948 after four years as an engineering technician with Sylvania Electrical Products, Inc., Williamsport, Pa. For two years Merrill attended the Lock Haven State Teachers College and since coming here he has earned his B. S. degree in mathematics and physics at the University of New Mexico. Presently he is doing graduate work at the University toward an M. S. degree in physics.



DONALD E. FOSSUM to section supervisor of 1651-2. Don came here in 1950 following two and a half years as a research engineer with Collins Radio Co., Cedar Rapids, Iowa. He also spent five years with Westinghouse Laboratory Division, Bloomfield, N. J., working half that time as a development engineer and half as a production engineer. Don has a B. S. in electrical engineering from the University of North Dakota and he also attended the North Dakota State School of Science for two and a half years.





MEMBERS OF THE WINNING FIVE-MAN TEAM pose with their favorite bowling balls. Left to right are Ed Frasher, Jim Taylor, Erwin Smith (Captain), Tony Repetti, Ralph Brenneman and Ira Honeycutt. The team, members of the White Sox of the Major League, scored 3109 points in the tournament and was awarded \$35.00 prize money.

Bowlers Distribute \$324 in Prize Money to Winners of Tournament

Prize money totalling \$324.90 was given to the winners of the first annual Coronado Club Bowling Association Tournament handicap tournament last week by Charley Kaspar, tournament secretary. The tourney, held only on weekends, ended February 22.

Competition in the meet was broken down into singles, two-man and five-man teams. First place winner of the singles event was Edward P. Darnell with a total score of 683. Darnell was awarded \$17.50.

High Scratch Winner

Second and third place singles winners were Roy Schultz and John Ford with scores of 651 and 644. They received \$15 and \$12.50 respectively as their part of the prize money.

George Duffield bowled the high scratch game of the tourney with a score of 211. Ken Smith had the high handicap game with a total of 211. The high scratch series was shared by F. Abbott and C. Lindquist with a tie total of 534 pins.

Leroy Huenefeld, Association president, and Tony Repetti teamed together to take place in the doubles competition with 1267 pins. Right behind them with a 1256 score were Lyle Hake and James Leonard. Bob Malley and Eugene Palmer took third place with a total of 1234. Prize money for the top three places were \$22, \$18 and \$15.



TONY REPETTI shows off the form which helped him win All Events honors in the Coronado Club bowling tournament. His total score was 1925. Tony also teamed up with Leroy Huenefeld to win first place in doubles competition.

League Dominates

F. Abbott and Guy Nendell had the high scratch doubles game with a 451 score. Claude Whitney and Ken Lloyd bowled the high handicap game. Their score was 451. Charley Davis and Roy Maxwell had the high scratch doubles series with a score of 1023.

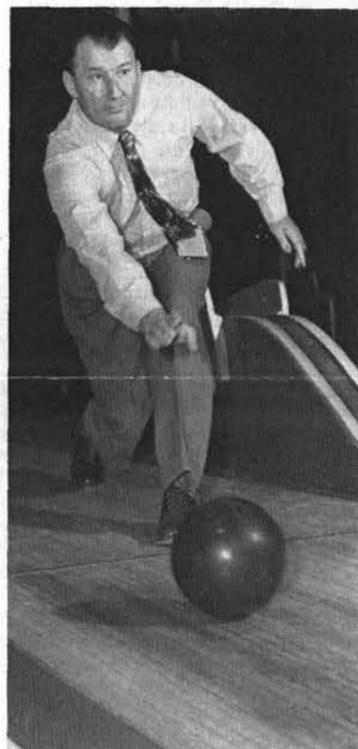
Teams from the Major league dominated the five-man team event by taking the top three places. First place winners were the White Sox with a score of 3109. Bowling on the White Sox team were Tony Repetti, E. Frasher, R. Brenneman, R. Honeycutt and J. Taylor.

The Tigers and Yankees took second and third places with scores of 3011 and 3009. The Lions of the Jungle League placed fourth and the Blackfeet of the Indian League ended up in the number five spot.

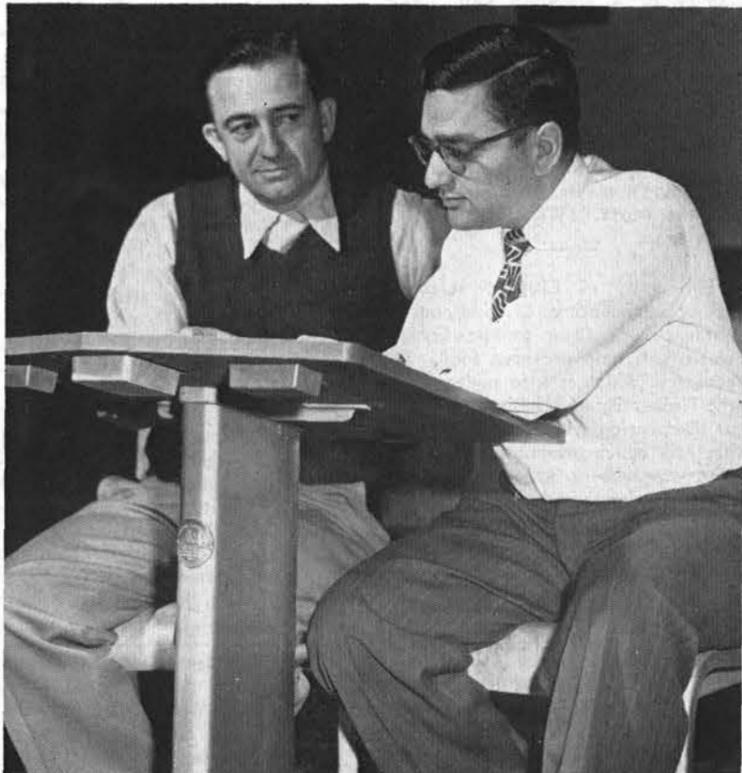
Repetti High

The Wildcats of the Jungle League had the high scratch game with an 876 score. High handicap game went to the Mustangs with 1028, and the Gophers won the high scratch series with 2515 pins.

Tony Repetti with a high total of 1925 won first place in the All Events category. W. Vanderlaan was the runner-up with 1891 pins. Third place went to Roy Schultz who had a score of 1878.



SINGLES WINNER Ed Darnell lets go of a fast one on the Coronado Club alleys during the recent handicap tourney. Ed's score of 683 netted him \$17.50 of the more than \$300 total prize money.



THE TWO-MAN TEAM of Tony Repetti and Leroy Huenefeld which copped first place honors in the doubles competition compare their score with other leading contenders. The Repetti-Huenefeld combination accounted for a total of 1267 pins in the recent Coronado Club tourney.

CLASSIFIED

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

contain the name and base telephone extension of the advertiser. Each advertisement will be run one issue. Deadline: Friday noon, one week prior to date of publication.

FOR SALE—

Hi-Standard, Sport King, .22 automatic, 4" bbl., \$35, Toulouse, ext. 7134 or ext. 33266 after 5.

1951 Ford, R and H, overdrive, other extras, low mileage, will finance; also electronic flash, 110 watt/second, wet cell operated, complete with battery charger, Bains, ext. 26140 or Alb. 5-1922.

Frigidaire, 8 cu. ft., Adams, El Rancho Trailer Court, 201 Wyoming Blvd. SE, see after 5.

1940 Ford convertible club coupe, new top, tires, clutch and brakes. Heater. Runs good, \$225, Pogue, ext. 33265.

36-inch Roper Gas Range, \$75; Thor Gladiron floor model ironer, \$40, Galbreath, ext. 7245, or see at 3118 Rio Grande Blvd. NW.

Wheels, front axle, fitting, springs for building two-wheel trailer, \$15, Gonder, ext. 26251.

Maple divan and chair, slipcovered, \$45; den couch, makes into 3/4 bed, \$35; maple dining table with two matching chairs, \$20, platform rocker with slip cover, \$10; occasional chair with slip cover, \$5; maple finished Baby Tenda with feeding chair, \$15; Koontz, ext. 7137, or see at 8714 Woodland NE (Hoffmantown).

15-gal. aquarium; reflector; filter and pump; Rolleicord II (late); sofa bed; baby chest; 1 each B and J, 4 x 5 Press, Zeiss-Tessar 6 in. lens, with Kalart range finder and Heiland flash, \$115, or trade, Miles, ext. 7194, Alb. 3-7277.

1-bedroom home, north valley, \$1100 for \$3800 equity, take over GI loan payments, \$38.14 a month, Keenen, Alb. 4-1259.

1/2-ton 46 Chev. pickup, 4-speed transmission, \$495, new license, Marchbanks, Alb. 4-3359.

5-room home, tile bath, carpet, blinds, paved streets, lawn, walled back yard, low down payment, Fries, see at 5320 Alvarado Pl. NE.

2/3 keg of finish nails, Sedore, 236 Cardenas NE.

Chest of drawers, mahogany finish, \$7.50, Flowers, 2907 San Mateo NE.

6.70-15 snow tires used 3000 miles, \$12 each, Maak, ext. 24155.

1951 Plymouth 4-door sedan, \$1595, "Cambridge," Lawrence, Alb. 6-3409 after 5:30.

Delta Homecraft Woodworking Shop, complete on one bench, including saw, joiner, lathe, band saw, sanding disc, 3/4 HP motor, woodturning tools, dado cutters, \$240, Cook, ext. 23130 or Alb. 5-2324.

Kenmore vacuum cleaner, upright, \$20, Showalter, ext. 6273.

Lots, 50 x 135 ft. deep on Florida between Trumbull and Bell SE, \$900 each, Li-quori, ext. 22252 or Alb. 6-3613.

Rabbit hutches, 9 large compartments in two units, self cleaning, half price or make offer, Park, ext. 7152.

3-bedroom home, modern, on East Central near Juan Tabo Rd. House on 100 x 100 ft. lot, 3 car garage on single lot. Small down payment. Isoma, ext. 29151 in afternoons between 1 and 5.

3-piece sectional sofa, tan frieze, \$95; metal tool box, 7 x 7 x 19, \$4; auto cooler, \$5; A.F. blue officers cap with insignia, new 7/8, Martin, Alb. 5-8030.

Outboard motor, 1 1/2 h.p., Buccaneer, \$20, lightweight for pack trips to high lakes, Poe, ext. 32247 or Alb. 5-0657 after 5.

Sleeping bag, "Trailblazer," never used, \$22, Amonette, ext. 24127, or see at 513 Spruce SE.

Chinese hooked rug, all wool, oval, 15 x 11 ft., floral design, beige and rose, \$100; contour chair, dark green, embossed plastic, \$75; Mould, ext. 26225 or see at 504 California SE.

Crosley, walnut combination radio-victrola, table model, \$45, White, ext. 25237 or Alb. 5-2065.

Craftsman's Best woodworking machines, 1/2 price, 10 in. saw, 6 in. jointer, floor model drill press, bench sander, and other tools, Harter, Alb. 5-7133, 1010 Jackson SE, ext. 23244.

Cushman Scooter, new tires, \$60, Garringer, ext. 33251.

Quarter horse, gelding, 5 years old, broken, sired by double registered palomino quarter horse, \$60 or best offer, Jenkins, ext. 26135 or Alb. 5-2866 after 5.

Zenith television set, table model, 17-inch screen, 6 months old, sell for \$195, cost \$280 new, Stepelevich, ext. 22101.

'51 Plymouth Cranbrook, equipped with R and H, 19,000 miles, Hillard, ext. 25164.

Two-bedroom house, walled in back yard with patio and fireplace, close to schools, but, etc., total \$11,000; also '49 Ford 2-door sedan, R and H, \$875; 14-cu. ft. Coldspot deep freeze, \$250, Bailey, ext. 33159 or Alb. 2-2068 after 6.

3 bedroom home by owner; newly decorated, 1 1/2 baths, beautiful Heatilator fireplace, carpeted, full lawn, trees, walled flower bed, 2410 General Marshall NE, Gonder, ext. 26251.

Automatic Washer, \$25; gas range, \$50; youth bed, \$25; also one black male Dachshund, 10 months old, \$30, Hoff, ext. 29261 or Alb. 4-3685.

1951 Liberty trailer, all metal exterior, 34-ft., fully modern with bath tub, \$4500, Woffinden, ext. 21280.

Stock car No. 66, has Ford V-8 motor, raced locally, and Midget No. 1/2, racing car which won state championships in 1948 and 1949, Rogers, Alb. 2-7854.

2-pc. living room suite with custom made slipcovers, \$75; occasional chair with custom made slipcover, \$25; Robertson, 3003 W. Sandia Drive, ext. 24262.

WANTED—

House trailer, 27 to 30 ft., in good condition, Jackson, ext. 7165 or Alb. 6-0318.

Small children to care for in my home, day or night, location near Sandia and Kirtland, 1010 Jackson SE, Mrs. Harter, Alb. 5-7133.

Umbrella type tent about 9 x 11, Sedore, 236 Cardenas NE.

To share expenses on 2-week vacation trip to Yosemite Park next summer, Ralph Gustin, 6500 Cochiti Rd. SE.

Taylor Craft Cub or Aeronca, 65 or 85 HP, must be in good condition. Cash. John C. Evans, Alb. 3-2828.

Aircraft Rate-of-Climb, will consider only 0-2000 feet/minute instrument in good condition, Phillip Bircher, ext. 22164.

Baby crib, 3-6 year old size, Held, ext. 31158 or Alb. 5-4036.

.30-06 reloading equipment, Maak, ext. 24155.

TRADE—

Revolver, .32 calibre, H and R, trade for other type hand gun, Harry A. Weber, ext. 25143 or Alb. 5-5090.

Set of 7.60 x 16 tires for what-have-you, Flowers, Alb. 6-1656.

Winchester .30 calibre deer rifle, new condition with extras, \$65, swap with cash for Ford or Chevrolet automobile, Smitha, 8607 Menaul Blvd. NE, ext. 32126.

WANTED TO RENT—

Responsible family wants to rent 3-bedroom unfurnished home in East Heights, west of San Pedro, south of Constitution Ave., Bob Stamm, Alb. 6-1796 after 5.

LOST—

Brown leather jacket, size 36 or 38, in tech area. Please return to J. McDonnell, 2415, ext. 28151 or Alb. 3-2850 after 5.

Woman's beige season skipper and beige 3/4 length coats, accidentally taken from Coronado Club cloak room Friday, Feb. 27. Return to Gloria Silva, woman's dorm, or call ext. 28232 or ext. 21146.

Copper-colored metal earring in vicinity of Commissary. Please call J. Smith, ext. 22164.

FOUND—

Miscellaneous items, Lost and Found service, Employee Services, Building T-301.

RIDE WANTED—

From Aztec addition, Pat Johnson, 8910 Aztec NE, ext. 21264.

Would like to join car pool with Corporation employees living in the vicinity of Girard and Coal, east gate, Mabel Brown, ext. 2-5264.

8802 Shoshone Ave. NE (Aztec addition) to Bldg. 830 vicinity, Maudine Sheldon, ext. 29140.

4915 Inspiration Drive SE, off San Mateo, Mary Lou Fresquez, ext. 5142.

From 2708 Georgia St., the new Vista Encanta addition, to Adm. area, Corp. hours, Pat Allen, ext. 5114.

RIDERS WANTED—

Downtown, southwest area, 3 or 4 persons, Alderete, ext. 2-5141 or Alb. 22195.

We need a fourth car for pool, vicinity of Moon Street and Menaul, new Hoffman addition, Ianza, ext. 7137.

MISCELLANEOUS—

Registered pedigreed Skye Terrier, Scottish breed male dog, for stud, Weinreich, ext. 22134.

Coronado Club Bridge Tourney Sunday Mar. 29

A "Team of Four" tournament in which two duplicate bridge pairs play as a team against all other opponents will be featured at the Coronado Club on Sunday, Mar. 29, from 7:30 to 10:30.

One of three annual duplicate bridge tournaments, the event will include trophies to be given to the first place team. One member of each pair must be an active member of the Club.

Registration is 50 cents per person, however it is possible to register as a team.

Those interested in participating are asked to contact George Arnot, ext. 7137.