

A.T.&T. President Kappel Tells New York Chamber of Commerce of Sandia Corporation

Members of the New York Chamber of Commerce were told recently of Sandia and its mission by Frederick R. Kappel, President of the American Telephone and Telegraph Company.

Speaking Jan. 6, Mr. Kappel said, "Back in 1949 the Government asked us to manage the Atomic Energy Commission's Sandia Laboratory in New Mexico. This we have done for more than nine years. I doubt that many people have much notion of what an undertaking it is.

"Sandia's job, in fewest words,

is to design weapons around the nuclear explosive systems developed at other AEC laboratories, and then follow through on their production and reliability.

"Sandia develops fuzing and firing systems," he said, "and the shape and structure of weapon casings. It does pilot manufacture and arranges for production by others. It is responsible for quality assurance. It designs handling equipment for weapon assembly and testing. It keeps watch over the stockpile to insure continuous reliability. It works out operating

procedures and training manuals for the military."

Then Mr. Kappel explained why the Bell System was asked to operate Sandia.

"You will notice that the problems involved cover the whole spectrum of research, development, production and operation. This in a nutshell is why we were asked to manage Sandia—because our organization, as I said, integrates experience in all these fields and the Government felt that this was what Sandia needed."



published every other Friday for the employees of sandia corporation, contractor to the atomic energy commission

VOL. II, NO. 2

ALBUQUERQUE, NEW MEXICO

JANUARY 23, 1959

Success Achieved . . .

Production Line Study by ME's Brings About Sizable Savings

A constant study of any production line generally identifies information concerning the product which, if used to advantage, can materially reduce the cost and in many cases improve the quality of the product.

This is one of the continuing jobs of the manufacturing engineer and considerable success has been realized by Sandia's engineers in this activity. The reduction in costs vary from several hundreds of dollars to many thousands.

F. E. Burley, Director of Manufacturing Development, points out that Sandia's cost reduction operations are unique. Sandia is not in a position to compare production costs to sales income nor can it determine the full cost of producing a single item over a long production run.

Sandia, he points out, must get cost reduction through changes in manufacturing processes and design and the production of small lots of a multitude of items.

A look at the job of the manufacturing engineer will show you how he is in a good position to spot money saving practices, and put them into effect.

The ME works closely with the development engineer to get a good understanding of the design requirements and be sure they can result in a manufacturable product. He helps find a supplier capable of producing the product.

He follows through and guides production of Sandia orders in plants throughout the country. He maintains quality checks to be sure that Sandia standards are being met.

In all of these activities the ME has the responsibility of cost reduction.

William C. Kraft, manager of the Manufacturing Engineering Components Department, tells how the cost reduction methods of the ME follow a logical pattern:

"He seeks more economical production methods and selects the tooling which will do the job economically and with quality. He installs process controls and inspection procedures which are directed toward producing quality products with a high rate of acceptance. He studies production costs and production schedules to



A SIMPLE TOOLING operation resulted in a big reduction in contact resistance problems on this item and a corresponding increase in production yield. W. P. Thomas (2541-3), right, who devised the operation explains to F. E. Burley (2500) how this means dollars saved plus helping Sandia meet production schedules.

learn the most economical methods of production.

"He examines inspection reports as an aid to reducing rejection rates and time spent on inspection. He devises methods to rework rejected items so that they are acceptable. He makes it possible for destructively tested units to be used in other applications. Through all of this cost consciousness work, the Manufacturing Engineer receives cooperation and assistance from the Design Engineer. Most of the cost savings are the result of close teamwork between the two."

"While an item is in production," Mr. Burley adds, "the en-

(Continued on Page 3)



RESEARCH ROCKETS, test vehicles and handling equipment models by Sandia Corporation were recently displayed during a meeting of the Albuquerque Post of the American Ordnance Assn. Shown viewing the display are W. M. O'Neill (5530), left, and S. P. Schwartz, Vice President and General Manager.



Sol Chavez



Stuart Whitcomb

Board of Education Ballots Carry Names of Sandia Corporation Men

Citizens going to the polls Feb. 3 to fill two vacancies on the Albuquerque Board of Education will

find two Sandians among the five candidates.

AEC Seeks Bids On Enlargement Of Wind Tunnel

Bids on construction for the expansion of the wind tunnel facility, Bldg. 865, will be opened about Feb. 10, the AEC announced this week. Contractors will be invited to bid on the job about Jan. 20.

The expansion will provide additional office and storage space for the Experimental Aerodynamics Division 5142 plus two 10,000 cu. ft. spheroidal vacuum tanks in additional equipment.

The project will include adding 1,300 sq. ft. of floor area to the building, installing heat, lighting, power outlets, evaporative cooling, utility connections and paving.

The government cost estimate for the project is \$80,000 to \$90,000. Work is to be completed within 120 days after the successful contractor receives notice to proceed.

Sol Chavez, machinist in Machine Service Section (4612-3), and Stuart E. Whitcomb, research physicist in Applied Science Division (5131), have announced their candidacy for the positions. The terms run for six years and are without pay. The board meets once a month.

Mr. Chavez received a Bachelor's degree in education at the University of New Mexico, then taught elementary school for two years in Torrance County. He has been employed at Sandia for six years. His family includes a recent graduate of Highland High and another youngster attending parochial school.

Mr. Whitcomb has a background of 18 years in the educational field. He taught at Georgia Institute of Technology and was head of the Physics Department at Kansas State College before joining Sandia. His degrees include a Bachelor's from Antioch College, Master's from Syracuse University and PhD degree from Ohio State University. He has a son attending Highland High School. He is running on the slate presented by the School Action Committee.

Engineering Societies Can Be of Service to City by Advising on Civic Technical Matters

Ways in which engineering societies can give technical aid and advice to the city were outlined by Richard A. Bice, Sandia Director of Field Testing, during a meeting of the Council of Technical and Scientific Societies this month.

Mr. Bice, who has been an elected member of the Albuquerque City Commission since 1954, suggested the need for technical people to serve as members of some of the 18 advisory boards and commissions.

Help is needed in working up plans for performance budgeting and solving future garbage disposal problems.

Objective technical advice is required on such problems as competing products, auditorium acoustics, automatic sensing devices for traffic, and vehicle noise detection.

The Council unanimously voted to help the city find qualified people among the membership of

local technical societies to follow through on these suggestions.

Mr. Bice is past chairman of the American Society of Mechanical Engineers and is a registered professional engineer in New Mexico. He worked in lubrication research before joining Los Alamos Scientific Laboratory in 1945. When Sandia Corporation was formed in 1949 he was named Engineering Department Manager and has held his present position since 1954.

Serve With Knowledge

"All that is necessary for the forces of evil to win the world is for enough good men to do nothing."
—Edmund Burke.

Back in the 1700's when the great British statesman made the above remark there were forces which threatened freedom. As a leader in a free country he was worried about the freedom that country cherished.

Burke's words were expanded upon in 1805 when Lord Nelson, heading the British fleet at Trafalgar said "England expects every man to do his duty."

Dwight D. Eisenhower conveyed the same idea on the eve of D-Day. Lincoln said much the same thing in Civil War days. Leaders through the years have asked that each man do his duty. They have not urged men to monumental tasks. They have not asked each man to become national heroes. They have not been asked to do the impossible. They have only been asked to do their duty.

Duty requirements of today are simple. In reality, all we are asked is be good citizens. One might think this involves merely paying our taxes, voting, being law-abiding and providing for our families. These are obligations of citizenship, to be sure, but a truly good citizen does more.

Most important, he understands the world about him. He knows the issues, he knows the causes. He is familiar with the "why" and "how" of events of the day. He accumulates a store of knowledge about the forces which control his life. And then, armed with this knowledge, supported with courage that comes from knowledge, and guided by clear thinking he does his bit to help make a better world.

Not every man can fight a Trafalgar, discover a medicine to control polio, develop the transistor, or be president of the United States. But every man can help guide our destiny and control our fate.

Intelligently exercising the rights of citizenship is one of the best ways of doing the "something" which Burke wanted all men to do.

J. A. DeVargas Back At Work After Three Years in Air Force

Returned to Sandia after nearly three years in the Air Force is Joaquin A. DeVargas (4142).

He had been with the Corporation for nine months in Cost



J. A. DeVargas

Accounting when called into military service. During his stint in the Air Force he was stationed mainly at Biggs AFB in El Paso. Now he's back and working in Electronic Data Processing Department.

Back at Work

Back on the job after four weeks' illness is Virginia Haley (4131-4).

New Son

The John Garcias (4224-3) have a new heir — a boy named James Christopher.



FINISHING TOUCHES are given garment by Pauline Baca, Sandia division secretary, who was state winner of "Make It Yourself With Wool" contest sponsored by Wool Growers Association.

Congratulations

Born to:

Mr. and Mrs. Robbie Chapman (4566-3) a son, Gregory Dean, on Jan. 4.

Mr. and Mrs. Joe Montoya (2243) twin daughters, Loretta and Lorina, on Dec. 17.

Mr. and Mrs. Leon Smith (1260) a son, Bradley Kendall, on Dec. 31.

Mr. and Mrs. J. A. "Andy" Chacon (5419) a daughter, Cecelia Tania, on Jan. 11.

Mr. and Mrs. Roland A. Lincoln (1651-2) a daughter, Leslie Jeanne, on Jan. 2.

Mr. and Mrs. Brian Ward (1262-2) a son, Kevin, on Jan. 13. Irene formerly worked in 4561.

Mr. and Mrs. Wilson Pleger (4224-3) a daughter, Tamra Elaine, on Dec. 25.

Mr. and Mrs. Jack MacFarland (8114-1) a daughter, Lorie Janine, on Jan. 8.

Mr. and Mrs. D. C. Lloyd (8162-1) a daughter, Donna, on Dec. 22.

Mr. and Mrs. J. Donald Benton (8122-2) a son, Jeffery Dale, on Jan. 9.

Mr. and Mrs. M. O. Jones (8122-1) a daughter, Brenda Kay, on Jan. 10.

Mr. and Mrs. D. A. Bauder (1613-4) a son on Dec. 31.

Mr. and Mrs. G. C. Garcia (1613-4) a daughter on Jan. 10.

Mr. and Mrs. Ronald Bentz (1456-3) a daughter, Lisa, on Dec. 21.

Mr. and Mrs. Emil Komarek (1451-1) a son, Wayne, on Dec. 18.

Mr. and Mrs. Jerry Hood (1451-3) a daughter, Debra Sue, on Jan. 12.

Mr. and Mrs. Pete Barba (1455-4) a daughter, Janet, on Dec. 30.



TWO GENERATIONS of Boy Scouts are represented as H. W. Maglidt (4110), right, presents several Scouting awards to his son Perry, as Perry's Scoutmaster, B. F. Baldwin (4423), looks on.

Scout Honors Presented By Father To Son at Awards Ceremonies

At the recent Sandia Base Boy Scouts Court of Honor and Awards Ceremonies, H. W. Maglidt (4110), district representative for the Boy Scouts, presented five merit badges and the Star award to his son Perry.

Perry, a member of Troop 87, received badges for his efforts in home repairs, dog care, camping,

cooking and swimming. This led him to the Star advancement.

S. P. Schwartz (100), Chairman of the Sandia Base Boy Scout Committee, presided over the program and presented charters to Scoutmasters on Sandia Base.

Maj. Gen. Louis T. Heath, Commander, Field Command, was the speaker for the evening. He is a member of the Advisory Board, Kit Carson Council.

Bennett Baldwin (4423) is Scoutmaster of Troop 87.

Sympathy

To E. L. Harley (5311) for the death of his mother in Albuquerque on Jan. 2.

To Arnold Draper (5411-3) for the death of his mother in Red Lodge, Mont., on Dec. 26.

To R. W. Higgins (1520) for the recent death of his mother in Cleveland, Ohio.

To Willie McCabe (2711) for the recent death of his brother and sister in California in an auto accident.

To J. M. Baca (5252) for the death of his young daughter Jan. 10 in Las Cruces.

To Helen Lautner (4151-3) and her brother Robert E. Thorne (7421) for the death of their mother in Albuquerque recently.

To Clarence A. Schooley (4113-1) for the death of his father in Joplin, Mo., on Jan. 6.

To J. M. Morris (8234-2) for the death of his mother in Hayward, Calif., on Dec. 31.

To John E. Shine (4254-1) for the death of his mother Jan. 5 in Albuquerque.



Lillie Mae Sanchez (4725)

Take a Memo, Please

Our people realize that modern machinery has replaced horses but not horse-sense. Don't expect a machine to think for you, particularly when it concerns safety measures.

Weddings and Engagements

Dianne Taylor (4725 assigned to 1263) plans to be married tomorrow



Miss Taylor

to Thomas Lee Cleveland of Manzano Base. The wedding will be held at 10:30 a.m. in Anunciacion Chapel, (Hoffmantown).

Dianne has been with Sandia since last June.

After honeymooning in Phoenix, Ariz., the couple will reside at 525D Alcazar SE.

Superior Sewing Talents Bringing Honors to Sandia's Pauline Baca

She can sew a fancy seam and, furthermore, Pauline Baca has received state-wide recognition of the fact.

Pauline, division secretary in 1264, is the New Mexico winner of the "Make it Yourself with Wool" contest, which is sponsored by the National Wool Growers Association.

New Homes—in Abundance

Starting 1959 in a new home were Rod Leach (5142) and family at 8109 Kathryn SE.

Moving-itis seems to have struck many members of Department 1260. New home owners in that group and the addresses are: Mr. and Mrs. H. A. Bennett (1262-1), 11200 Elvin NE; Mr. and Mrs. R. E. Knutson (1262-2), 9020 Shoshone Rd. NE; Mr. and Mrs. R. D. Aden (1265-2), 2120 Martha NE; Mr. and Mrs. A. J. Brouillard (1265-1), 1009 Childers NE; Mr. and Mrs. F. M. Stolt (1265-2), 11212 Elvin NE; Mr. and Mrs. J. L. Todd (1265-2), 2012 Muriel NE; and Mr. and Mrs. H. A. "Blitz" Krieger (1261-1), 3400 Dakota NE.

Karl (8231-1) and Joan (8233-1) Tucker are delighted with their new home at 1243 Park St., Livermore.

Mr. and Mrs. Dale Wire (8162-2), who were married last November in Livermore, have recently moved into a new home at 1056 Aberdeen St., Livermore.

Joining the ranks of new home owners at Livermore are Mr. and Mrs. R. A. Milby (8151-2). They moved into 1268 Cornell St. Mr. and Mrs. D. F. Lange (8116-1) and family also have a new address at 951 Princeton Way.

Mr. and Mrs. Don Roth (8162-2) and Mr. and Mrs. Robert Wilbanks (8162-1) and their families will be next door neighbors in Livermore next week. Don and his family move in at 2194 Rincon Ave., while Robert and family call 2190 Rincon Ave. home.

Her prize was an all-expense paid trip to the national contest in Portland, Ore., Jan. 23-29, and the chance to compete for the first national prize—a trip to Europe.

The contest is open to girls of 22 years or under and the judging is based on workmanship, suitability of the chosen garment to the girl, poise, neatness and ability of the girl to model the garment, and accessories chosen for the outfit.

Pauline's winning garment was a two-piece bateau neckline dress of charcoal grey wool with subtle melon-colored candy stripes. Her accessories were black except for a melon-colored hat.

Pauline learned to sew from her mother and has been making the majority of her clothes for about 10 years. Neither have had any formal instruction in this handicraft.

Last year Pauline placed second in the state contest with a three-piece suit.

Get Well, Please

Members of 4566 wish a speedy recovery to Emma Benderman who has been ill for several weeks.

Away from work for several weeks has been Mae Leary (4841), who was injured in an auto accident during a holiday trip to Pennsylvania. She has been convalescing there.

Friends of Lu Nelson (8233-1) have sent their best wishes for a quick recovery from her recent illness.

Ellen Jones (4566-3) is recuperating at a friend's home after a recent serious illness.

Convalescing at home after recent surgery is Harold F. Gunn (4653).

Bob Clem (8151-1) is reported recovering from an appendectomy operation he underwent two weeks ago. He was stricken while on a business trip to Oak Ridge, Tenn.



The Sandia Lab News is an official publication of the Sandia Corporation, Albuquerque, N. M. Office: Room 10, Bldg. 829, Public Relations Division Editor: Robert S. Gillespie

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Deadline Friday noon of week prior to publication



Member Association of Nuclear Editors, Border Council of Industrial Editors, and affiliated with International Council of Industrial Editors.



BIG SAVINGS ON SMALL ITEMS effected by manufacturing engineers R. A. Wilson (left) and C. A. Morterud (right), are discussed with William C. Kraft (2540). Cost reduction experience gained

by ME's shows that saving can be made and quality maintained on any manufactured item, large or small, if all phases of production are carefully scrutinized with an eye to best efficiency methods.



MANY, MANY thousands of dollars were saved taxpayers by this group and other manufacturing engineers of the Manufacturing Development or-

ganization 2500. Cost reduction activities of the group ranged throughout the widespread manufacturing complex that produces nuclear weapons.



TOP MAN in cost reduction activities in 2500, W. R. Atkins (2544), right, discusses with F. E. Burley (2500) how reliability can often be upped while saving testing time which was done on this device.

(Continued from Page 1)
ME's Goals Are More Production, Quality, Savings

engineers have another chance to save when they issue engineering change orders which make possible use of latest developments. And trouble shooting, too, often results in new ideas for savings."

Manufacturing Development engineers work closely with suppliers, other AEC contractors and the military. Problems which arise must be quickly solved.

The ME's responsibilities are varied. Production schedules must be held. Quality standards must be met. Money must be saved. Not an easy task.

Though Manufacturing Development can point to many 1958 economies, they do so hurriedly.

Right now they are most concerned with 1959 and the future.

IRE Groups to Hear Talks at UNM Jan. 26-27

Two professional groups of the Institute of Radio Engineers will be meeting within the next two weeks, according to John McLay (1455).

The Professional Group in Nuclear Science will hear C. D. Broyles (5113) present "Radioactive Decay, Particle Decay and Interaction" Jan. 27. The lecture will be the third of a series of educational sessions scheduled by PGNS. The program will begin at 8 p.m. in the lecture hall of the Electrical Engineering Building of the University of New Mexico.

The Professional Group on Circuit Theory will meet at 8 p.m. Jan. 26 in Electrical Engineering Building, UNM. Dr. A. W. Melloh of the UNM EE Department, is scheduled to speak on the history of circuit theory.

Aid Given Civil Air Patrol Group Investigating N. M. Plane Crash

Participating last week in an aircraft accident investigation operation of the Civil Air Patrol were several Sandia employees.

Bill Ward (5215), Air Rescue Officer of the New Mexico Wing of the CAP, and Mel Pliner (1222), Mobile Support Squadron III, journeyed to the scene of crash 65 miles southwest of Grants over bad roads during freezing weather.

The plane, a T-34 trainer converted to civilian use, had crashed during a snow storm carrying two servicemen of Elgin AFB to their deaths. They were members of a private flying club.

Mel Pliner set up floodlights and photographed the crash. The

prints will be used as an aid in the accident investigation by the CAA. He and Bill also removed all instruments from the wreck for the same purpose.

In Albuquerque J. H. Hollenbeck (1614), CAP Director of Communications for New Mexico, assisted by R. G. Higley (4211), maintained radio communications during the operation.

Bowling League

Jim Eagan (8151-1) was recently elected president of the Sandia Mixed Handicap Bowling League, which started play in Livermore last week (Jan. 15). Bob Eisele (8114-2) was named secretary.

E. H. Dopking to Represent Livermore At School Convention

Elliott H. Dopking (8122-1), a member of the Livermore Elementary School Board of Education, has been appointed to represent the Livermore school district at the first convention of the National School Board Association to be held in San Francisco.

The three-day convention, which opens Sunday, will feature a keynote address by Adlai E. Stevenson.

Jack Bonetti (8234-1), who was appointed to fill an unexpired term on the school board, plans to attend some sessions of the convention along with other members of the board.

Mr. Dopkin was elected to a three year term on the board last May.

Mountain Club to Turn Spelunkers for Jan. 24-25 Field Trip

Cave exploring and technical climbing are activities planned by the New Mexico Mountain Club during the coming week-ends.

On Jan. 24 and 25 members and guests will explore the Fort Stanton caves in the area of Alamogordo. Carbide lamps and hard hats or helmet liners are required for the trip.

On Feb. 1 Ralph Grill (1521) will lead a rock climb, which will include technical advice for both beginners and advanced climbers. The meeting place is Nob Hill at 8 a.m.

Kermit Schuette Heads All States Club

Kermit Schuette (4212-2) was elected president of All States Club during a recent election.

The All States Club was organized during the time of Albuquerque's 250th Anniversary celebration and is made up of persons

from all the 49 states. It currently has about 150 members and is dedicated to social and charitable work in Albuquerque.

A pot luck dinner is held once a month at which time members have time to get acquainted and plan their projects.

Employee Contribution Plan Report Made by Organizations

Sandia Corporation's Employee Contribution Plan Comparative Figures 1957 and 1958 Campaigns

	1957-1958				1958-1959			
	Contacted	Gave	% Part.	Avg. Gift	Contacted	Gave	% Part.	Avg. Gift
*Special Roll	102	101	99	\$85.72	105	105	100	\$87.78
1200	407	374	91.9	22.43	378	346	91.5	23.02
1400	449	408	90.9	19.18	357	333	93.3	22.08
1500					156	134	85.9	21.54
1600	303	274	90.4	17.20	332	299	90.1	19.79
2100	497	414	83.3	10.87	484	408	84.3	12.07
2200	330	303	91.8	11.72	371	332	89.5	11.38
2400	793	667	84.1	9.95	829	704	84.9	11.50
2500	334	314	94.0	23.61	371	349	94.1	23.91
2600					24	22	91.7	18.74
2700	506	463	91.5	13.12	302	285	94.4	13.95
3100	179	164	91.6	22.31	177	161	91.0	25.21
3200	15	15	100.0	20.60	204	182	89.2	14.52
4100	309	286	92.6	16.02	351	321	91.5	17.65
4300	244	227	93.0	14.70	148	141	95.3	16.62
5100	178	161	90.4	23.86	196	176	89.8	26.90
5200	313	284	90.7	20.76	342	305	89.2	22.44
5500	238	228	95.8	21.57	238	223	93.7	24.08
6000	25	23	92.0	25.52	21	18	85.7	20.74
7100	108	98	90.7	22.48	106	96	90.6	25.16
7200	612	538	87.9	13.88	623	562	90.2	16.29
7300	52	52	100.0	20.00	45	45	100.0	20.98
7400	328	286	87.2	17.12	361	324	89.8	17.86
Misc.					13	12	92.3	17.60
Total	6322	5680	89.8%	\$17.69	6534	5883	90.0%	\$19.28

*Top executives and Bell System transferees

Employees' Average Gift Goes Up to New High Record of \$19.28

Final tabulation of results of the 1958 Sandia Corporation Employee Contribution Plan Drive reveals that an all-time record has been set.

Accompanying this article is a table showing results by organizations released by the Committee. Organization numbers in use prior to Jan. 1, 1959, are used here as this is the organizational structure under which the campaign was conducted.

Participation in the plan by Sandia employees was up slightly in 1959. The average gift increased by \$1.59 to reach the new record of \$19.28. Total pledged and given in cash by Sandia employees was \$112,926.54. The Corporate gift was \$7,500.

Results of this drive are a tribute to the planning and execution of the campaign by the employee committee. It is also an outstanding tribute to the unselfishness of 5883 Sandia employees who participated.

Community College Courses Are Announced in UNM Catalogue

Numerous credit courses of interest to Sandia employees are scheduled evenings and Saturdays in the Spring Semester of the University of New Mexico's Community College.

Registration is Friday and Saturday, Feb. 6 and 7 in Johnson Gymnasium.

Information may be obtained from Staff Training and Education Division 4623, Bldg. 301, or from the Community College office in the University Administration building.

Credit courses offered in the Community College may be approved under the Sandia Corporation Educational Aids program. This program provides 50 per cent tuition refund for successful completion of job related courses.

W. H. Bailey (4623-2), educational counselor, located in Bldg. 301, will provide applications and further information about the program and University offerings.

Among the courses offered in the UNM Community College are the following:

Architecture

Architecture 1, seminar.

Business Administration

Business Statistics, Business Law, Collective Bargaining, Office Management, Marketing Research, Business Policy, Security Analysis, Seminar in Marketing, Seminar in Industrial Management.

Accounting

Principles of Accounting 5B and

6B, Principles of Accounting Lab 5LB, 5LC, and 6LB, Intermediate Accounting 63 and 64, Cost Accounting 84, Auditing, Advanced Accounting II, Advanced Cost Accounting.

Chemistry

General Chemistry 1A and 2C, General Chemistry Lab 1LC and 2LK, Organic Chemistry, Physical Chemistry, Physical Chemistry Lab, Special Methods in Quantitative Analysis, Special Methods in Quantitative Analysis Lab, Instrumental Analysis, Advanced Topics in Organic Chemistry, Radiochemical Techniques.

Economics

Introduction to Economics, Money and Banking, Economically Undeveloped Countries, Economic Theory, Rise of Modern Industry, Social Control of Business.

Chemical Engineering

Chemical Calculations, Unit Operations, Seminar, Organic Unit Processes.

Civil Engineering

Applied Mechanics (Statics), 60A, B and D, Strength of Materials 102A and B, Engineering Hydrology, Structural Analysis—Statistically Determinate, Earthwork and Foundation Engineering, Soil Mechanics, Advanced Intermediate Structures.

Electrical Engineering

Principles of Circuits, Principles of Circuits Lab 61LE and 61LF, Traveling Waves, Traveling Waves Lab, Electric Circuit Analysis, Electronics I, Servomechanisms,

Solid State Engineering, Computer and Waveforming Circuits, Communication Theory, Network Synthesis, Antennas and Propagation, Analog Computers, Seminar.

Mechanical Engineering

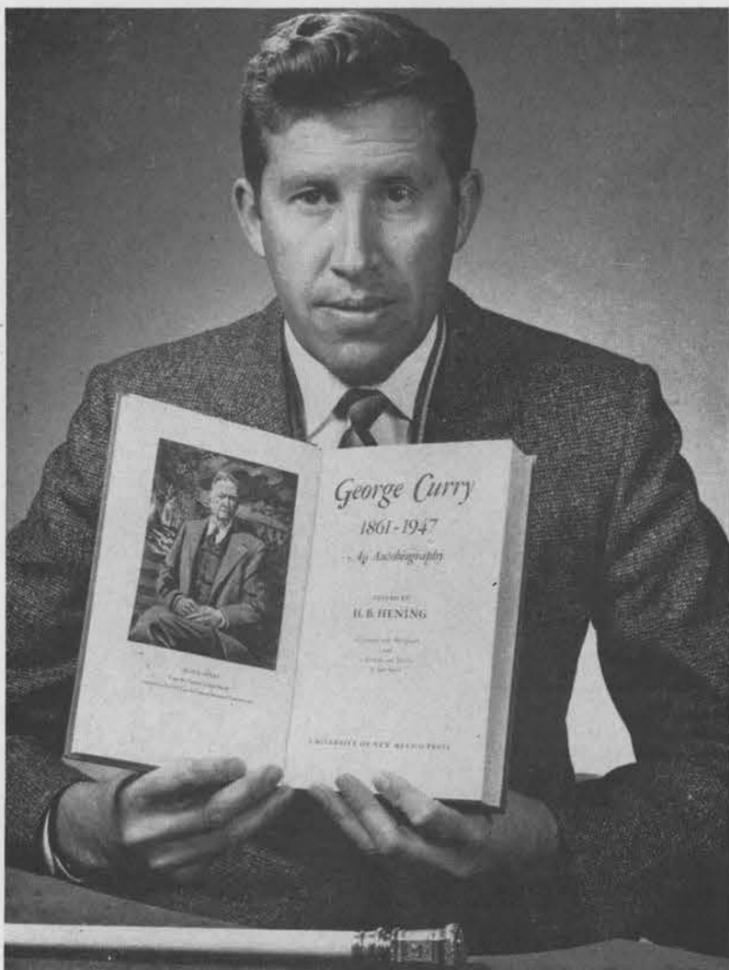
Thermodynamics 102B, 106A, 106B, 106C, Fluid Mechanics, Heat Transfer, Mechanical Engineering Lab IV, Industrial Engineering, Aerodynamics, Design Analysis II, Advanced Thermodynamics I, Applied Elasticity.

Mathematics

Intermediate Algebra 2C, D and E, College Algebra 15C (TV), 15D (TV), 15E (TV), Plane Trigonometry 16J and 16K, Calculus and Analytical Geometry 50A, 50D and 50E, Math 50A Drill, Calculus and Analytical Geometry 51C, 51D, 52C and 52D, Introduction to Modern Algebra, Theory of Equations, Foundation of Secondary Math, Advanced Calculus, Applied Advanced Calculus 142, 148B and 148C, Principles of Applied Math, Theory of Functions of a Real Variable, Advanced Theory of Functions of a Complex, Calculus of Variations.

Physics

General Physics 60A, 60B and 61, General Physics Lab, Heat Laboratory, Analytical Mechanics, Electronics Lab and Electron Physics, Atomic and Nuclear Physics, Experimental Research Methods, Methods of Theoretical Physics, Contemporary Physics, Electrodynamics, Atomic Structure.



FRONTISPIECE PAINTING of George Curry by Sam Smith is displayed by grandson George Curry (5232) along with elephant tusk ivory cane presented the elder Curry in 1907 by the people of Samar, Philippines, when he served them as governor. The gold-headed stick is set with diamonds and sapphires.

Ex-Governor George Curry Writes of Sandia's George Curry in New Book

Sandia's George Curry hardly needed to read the recently published autobiography "George Curry, 1861-1947"—he had already heard most of the contents first hand.

George's grandfather, who wrote the book, served under Theodore Roosevelt as a Rough Rider, fought in the Philippines for two years and later was governor of three provinces. He was called back from the Philippines by President Roosevelt to become New Mexico's next to the last Territorial Governor.

Young George knew his grandfather well. When George was released from military service after World War II the two made an extensive tour of New Mexico renewing old acquaintances and seeing points of interest.

Trajectory Measuring Report to Be Given Range Representative

Sandia Corporation's Tracking Systems Division (5221) will be host next week to 25 representatives of the nation's missile and ballistic ranges.

The Electronic Trajectory Measuring Group of the Inter-range Instrumentation Group will meet at Sandia Jan. 27, 28 and 29 in Room 248, Bldg. 802. A welcoming speech will be made by R. A. Bice (5200).

T. L. Pace (5221) will report on electronic trajectory measuring equipment in use and devices under development by Sandia Corporation.

Sanado Club Members Greet Spring With Fashion Show Luncheon

With the theme of "Hearts and Flowers" the Sanado Women's Club will usher in the spring season with a Fashion Show-Luncheon on Tuesday, Feb. 3, 1:30 p.m., at the Coronado Club.

Mrs. Benjamin C. Benjamin is general chairman with Mrs. James Karo, Mrs. George Neun, Mrs. Joseph Heaston and Mrs. William Everhart serving on the executive committee. Mrs. Jack Hart is chairman of the decorations.

Club members will model the latest styles by both American and French designers.

Reservations must be made by Jan. 29 to Mrs. Richard Othmer.

Again in 1947, shortly before the elder Curry's death at the age of 87, George spent two weeks with him at the old Lincoln Court-house, where he lived and was state historian. At that time the former governor remarked, "I wish I had more years of my life to devote to the welfare of this state and of the nation."

Although there are 14 grandchildren, Sandia's George is the only one mentioned in the book. George is a staff assistant in Full-Scale Test Division II (5232) and has been at Sandia for more than 10 years. His father, Charles, also worked for the Corporation a short period.

R. O. Frantik Speaks To Design Engineers At Westinghouse

Design engineers at Westinghouse Electric Corp. in Baltimore, Md., heard Rudolph O. Frantik (1593) speak on "Factors in Designing Reliable Equipment" last week. The symposium was held for engineers in the Westinghouse organization.

A division supervisor, Mr. Frantik has been with Sandia since 1948. Previously he had been with the New Mexico School of Mines since 1942 doing ordnance research.

Before that he worked for the Hamilton Standard Division of United Aircraft in Hartford, Conn., doing research in adhesives. He has a Master's degree from Illinois Institute of Technology.

Space Technology Lectures Prove to Be Highly Popular

A total of 614 employees of Sandia Corporation, AEC, Kirtland, ACF and Field Command AFSWP attended sessions of a recent film series on Space Technology offered by the Staff Training and Education Division 4623.

Prepared by the University of California in cooperation with Space Technology Laboratories of Ramo-Wooldridge Corporation, the 17 highly technical filmed lectures featured authorities on space flight presenting information on latest developments.

Certificates were presented to persons who attended the required number of sessions.

L. J. Paddison Talks to AOA At China Lake

L. J. Paddison, Director of Reliability Development, 1500, presented a talk, "Some Significant Aspects of Reliability Development in Nuclear Weapons," at a meeting of the Standards and Metrology Division of the American Ordnance Association in China Lake, Calif., Jan. 14.

Mr. Paddison discussed the development of a nuclear weapons family requiring neither field inspection before use nor frequent routine maintenance in stockpile and the reliability problems inherent in such weapons.

Mr. Paddison cited eliminating human error as the most significant improvement that could be made in nuclear weapons reliability.

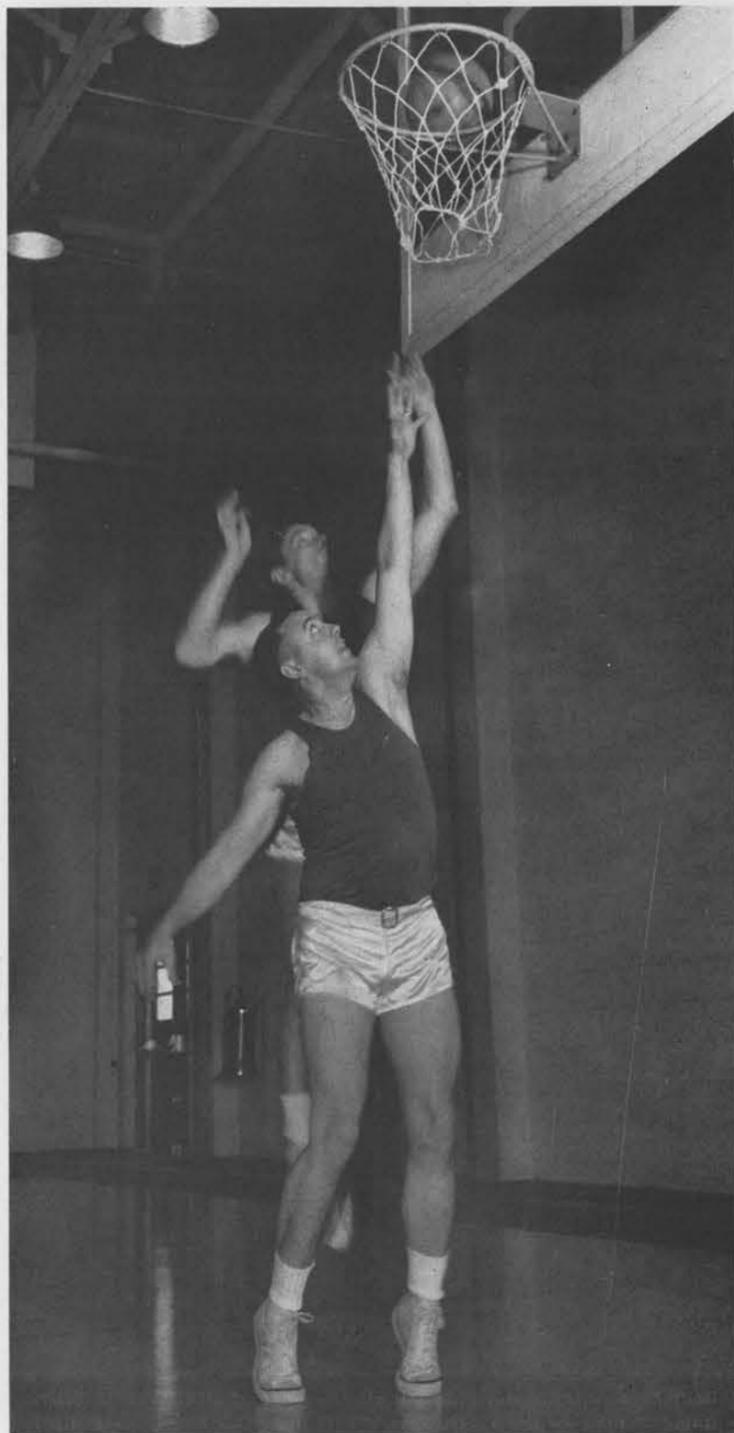
Midget Racer Fans Have Outlet for Their Energies in New Sport

Sandians interested in racing, automobiles, or engines are offered a new outlet for their energies with the increasingly popular sport of micro midget racing. Ten cars are currently owned or driven by Corporation personnel.

Micros offer the average man a chance to either drive or engineer a race car which has all the challenge of the Indianapolis, modified, or sports car with greatly reduced cost and risk of injury. The 1958 Albuquerque micro season was completed without an injury requiring hospital care.

These cars cost between \$100 and \$400 to build and can often be purchased in this same price range. The 1959 season will not start until May so this gives the builder four full months in which to work. An article on building a micro midget appears in the January issue of "Science and Mechanics."

The Albuquerque Micro Midget Club offers advice and assistance in obtaining parts to persons interested in building a micro. For further information contact Jim Boag (1473), public relations chairman, or Okie Cahill (5143).



NEW UNIFORMS for the Sandia Corporation all-star basketball team arrived last week and are shown here worn by Tom Reyman (4622) in front and Max Newsom (1264). The snappy uniforms have green tops with white numerals and white satin shorts.

10-Year Pins



C. D. Blackwell 4362 Jan. 14, 1949
Harold W. Byland 5531 Jan. 24, 1949
Jack C. McCollum 4232 Jan. 24, 1949
Edward J. Newman 5211 Jan. 25, 1949



Travis G. Sanders 2722 Jan. 25, 1949
Donald J. White 5531 Jan. 25, 1949
Allan P. Gruer 5210 Jan. 27, 1949
Brad Olive Shaw 5429 Jan. 28, 1949



George E. Farwell 4412 Jan. 31, 1949
Robert W. Male 5254 Jan. 31, 1949
Felix Padilla 4515 Jan. 31, 1949
Bill D. Roseberry 5311 Jan. 31, 1949



James Leonard 4262 Feb. 1, 1949
Joseph C. Connell 5511 Feb. 4, 1949
W. A. Gustafson 5231 Feb. 4, 1949
James A. Williams 1544 Feb. 4, 1949

Five Year Awards

Jan. 27-Feb. 6

Roger P. Anderson 4412, James A. Johnson 1265, Robert S. Nelson 4421, Jessie L. Hodges 4131, John M. Bodene 2532.

Two Year Certificates

Jan. 24-30

Donald R. Wheaton 8224, Eleanor A. Slotts 4725, Kenneth A. Bixler 5242, Eleanor L. Chapman 4333, Raymond P. Shroka 4411, Albert E. Eno 4411, Graham H. Luhn 2722, Manuel R. Chavez 4574, Golden E. Lane 4135.

Anna E. Ulibarri 4361, Hallie Tankersley 4652, B. M. Vandenberg 4721, Lydia S. Villanueva 4725, James H. Jones 2713, Gilbert P. Day 2713, Edgar P. Elkins 5243, Kent C. Humphreys 1626, Jose M. Romero 4514.

Jim F. Sanchez 4572, M. Jane Books 4725, Ruth M. Vogt 4333, Glen C. Oberst 1456, Iben Browning 5131, Richard E. Davis 1282, Chandler C. Smith 8211, Jimmie L. Robinson 4562, Lowell E. Jones 5243.

Jan. 31-Feb. 6

Priscilla B. Myers 2525, Carl D. Caldwell 5424, Bobby O. Allen 1541, Howard W. Nunez Jr. 1612, Marcel C. Reynolds 1613, Edward M. Austin 2533, Walter W. Troy 4843, Ernest R. Dunaway 4562, John A. Chifalo 4562.

Walter T. Taylor 1613, Ralph T. McRae 4411, R. C. Kishbaugh 4411, Robert E. Van Fleet 4412, B. F. Baldwin, Jr. 4411, William P. Brooks 5131, Richard E. Holladay 1413, Adolph R. Patzer 4712.

Charles B. Batsel 4321, Myron J. Vale 2711, Gemesindo Looz 8222, Domingo B. Martinez 4574, Diana M. Gurule 2532, Betty L. Turman 4725, Margaret O. McMahan 4542, Gladio I. Baca 4842, Melvyn S. Montano 4733.

Promotions

Marilyn A. Larson (8232) to Document Clerk Jesse E. Harness, Jr. (4231) to Technician Catherine W. Brown (2243) to Record Clerk Alfonso Lujan (2551) to Technician Carole A. Cole (4725) to Typist Clerk Howard D. Hayden (4564) to Camera Operator Jeanne A. Jolly (4135) to Accounting Clerk Dean W. Deavers (4132) to Tab. Equip. Operator P. A. Bevis (8212) to Typist Clerk Marie V. Martin (8212) to Steno. Clerk Carol J. Scott (8232) to Document Clerk Jerry T. Cole (4562) to Repro. Equip. Operator John R. Crye, Jr. (4514) to Pipefitter Jack O. Travis (2711) to Staff Assistant Jane S. Holman (4725) to Steno. Clerk J. Arlene Jackson (4725) to Steno. Clerk Elaine H. Aidikonis (2541) to Secretarial Steno. Eloisa E. Griego (4725) to Report Clerk Winifred H. Russell (4725) to Typist Billie L. Palmer (6021) to Paymaster John W. Flinn (4142) to Staff Assistant Don L. Gorsline (5241) to Staff Assistant Kenneth A. Johnson (4733) to Utility Operator Marilyn L. Callahan (4653) to Employment Clerk Agnes R. Anderson (8212) to Steno. Clerk Irma R. Olson (8212) to Secretarial Steno. Sharon A. Watson (8212) to Secretarial Typist Barbara W. Bruton (8232) to Document Clerk Harold L. Myers (1613) to Staff Assistant Orelia Montoya (1625) to Staff Assistant Wilbur B. Sheaffer (5252) to Staff Assistant David R. White (4251) to Machinist Joseph T. Pavelko (2713) to Staff Assistant William B. Minser (4254) to Model & Instr. Maker Kajeen Rumpfelt (2552) to Secretarial Steno. Patty Atkins (4131) to Disbursement Audits Clerk Albert B. Harrison (8224) to Material Handler David E. Salas, Jr. (4732) to Property Clerk Joan M. Bayless (8211) to Purchase Service Clerk Dorothy J. Lauer (4651) to Staff Assistant Donald F. Lawrence (2723) to Instr. Technician Bessie Torres (2532) to Steno. Clerk Bette A. Hardy (8234) to Record Clerk Diana M. Gurule (4361) to Steno. Clerk Dorothy B. Hester (4212) to Typist Clerk George F. Romero (5512) to Messenger Kenneth A. Blush (4733) to Material Handler George D. Edwards (2232) to Packer Willie B. Robertson (2551) to Technician Betty J. Zurenda (1592) to Calc. Machine Optr. Van C. Lewing (1611) to Lab. Assistant Ruth Birdseye (4510) to Steno. Clerk Ellen E. Martin (4323) to Steno. Clerk Jean A. McCain (4721) to Library Assistant Jennie O. Rowison (4733) to Record Clerk Pedro A. Martinez (4742) to Record Clerk Julia A. Knisely (2731) to Data Reduct. Clerk Angela J. Hopkins (2731) to Data Reduct. Clerk Norma L. Bright (5221) to Typist Webb E. Shater (2622) to Staff Assistant P. D. Vandenberghe (8114) to Typist Melba S. Fitzgerald (8114) to Service Clerk

Lateral Supervisory Transfers

J. W. Hughes from 4325 to 4332
E. B. Bergquist from 4344 to 4323
G. H. Welsh, Jr. from 4323 to 4325
J. McMinn from 8231 to 8234
R. V. Norvill from 2514-2 to 2511-3
A. L. Wyer from 5426-1 to 2514-2
T. B. Morse from 1661 to 1623
R. H. Keyser from 5411-1 to 2621-2
H. H. Brueggeman from 2531 to 2533
J. M. Phillips from 2531-2 to 2554-1
S. T. Mancuso from 4622-1 to 4964-1
J. W. Sims from 2525-4 to 4111-1
W. S. Sharp, Jr. from 4231-3 to 4224-1
H. C. Brim from 5412-1 to 5416-1
I. G. Stewart from 5534-2 to 5531-1
E. M. Hodges from 5531-1 to 5534-2
E. P. Quigley from 2225-1 to 2525-4
D. M. McKnight from 4716 to 4712
C. B. O'Keefe from 4732 to 4716
R. M. Chesnut from 4712 to 4725
D. R. Weldon, Jr. from 4725 to 4732
W. A. Adams from 5521-2 to 1225-2
R. W. Mottern from 5415-2 to 1231-2

Stamp Winner

Norma Carlson (4212-1) was notified recently that she had won the state-wide contest, "Naming The Baby Thunderbird." Her prize was 62½ books of trading stamps. The name she submitted was "Thriftie."

Staff Technical Courses Again Are Offered Employees Out-of-Hours

Another semester of Staff Technical Courses begins Feb. 9, Staff Training and Education Division 4623 announced this week. Courses will be available primarily during the noon hour and will meet twice each week for 16 weeks. Subjects meet special employee needs and supplement educational

opportunities offered by the University of New Mexico. No college credit will be given for a course, but certificates will be awarded.

Enrollment cards and course descriptions are available from supervisors. Classes will be filled on a first come, first served basis and number of classes will be limited by classrooms available. Any questions regarding courses or enrollments will be answered by Pat Baggett (4623), ext. 45157.

Jesse E. McBride To Retire from Work At Salton Sea Base

Retiring at Salton Sea Feb. 1 will be Jesse E. McBride, who has worked for the Corporation for more than eight years.

Mr. McBride plans to make his home with his son, Richard, at Rt. 2, Box 29, Holtville, Calif., however, he's not likely to be there much this year. He'll be off on



Jesse McBride

a trip to Albuquerque, Colorado, Iowa, Maryland and North Carolina "just seeing the country and visiting relatives and friends."

Later Mr. McBride will follow his only hobby—gardening. While at Salton Sea he was responsible for making the desert bloom in the Base area. A skilled gardener, Mr. McBride is responsible for the lush green growth on Salton Sea Test Base.

Tech Council Directors To Meet City Official

The Board of Directors of the New Mexico Council of Technical and Scientific Societies will meet Monday, Feb. 2, Lee Parman (4721), president, reports.

Douglas McRae, Director of Public Services for the City of Albuquerque, will talk with Directors.

The meeting will begin at 7:30 p.m. in the warehouse building conference room, University of New Mexico.

Evening School Opens 10th Term

Offering seven new job-related courses, the Sandia Corporation Evening School will begin its tenth semester Feb. 2. Registration for courses is open through Jan. 27. Booklets containing schedule of all courses, enrollment cards, and complete directions for enrolling in Evening School courses are now in all Corporation booklet racks.

Courses being offered for the first time this semester are an Electronics Circuits course, Advanced Industrial Electricity, Advanced Blueprint Reading for Building Trades, Advanced Plastics, Advanced Algebra, Shop Metallurgy 2, and Heliarc Welding 2. Complete descriptions of these and other courses can be found in the Evening School Booklets.

Courses being offered for the first time this semester are an Electronics Circuits course, Advanced Industrial Electricity, Advanced Blueprint Reading for Building Trades, Advanced Plastics, Advanced Algebra, Shop Metallurgy 2, and Heliarc Welding 2. Complete descriptions of these and other courses can be found in the Evening School Booklets.

Wiesen Presents Paper To Quality Conference

J. M. Wiesen presented a paper before the Fifth National Symposium on Reliability and Quality Control in Philadelphia last week. The paper, jointly written by Mr. Wiesen and Bernard Ostle (both 1592), was entitled "Some Problems in Preparation of Quality Specifications."

The conference was sponsored by the Institute of Radio Engineers, American Society for Quality Control, American Institute of Electrical Engineers and Electrical Industries Assn.

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CLASSIFIED ADVERTISING

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

RULES

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

FOR SALE

TAPE RECORDER, Knight, dual speed w/transistor preamp, tape, mileage, \$80. Johnson, Ext. 21147.
RADIO CONTROL, 5 channel G. G. equipment for model airplanes, transistorized, receiver and stick type control transmitter, original price, \$210, for \$105. Shew, Ext. 32234.
CORONET w/case, \$75 or trade for table saw or what have you. Singleton, AX 9-1613.
HI FI COMPONENTS, Heathkit Pre-amp; FM tuner and AM tuner, new, still in original cartons, will sell at discount. Johnson, AX 6-5997.
HITCH FOR house trailer, Warner electric brake control, overload springs, all for \$35. Patterson, AX 9-6590.
'54 BUICK Roadmaster, 2 dr. hardtop, 30,000 actual miles, full power, below list price. Cherb, AL 5-1891, 1511 Hermosa Dr. SE.
'57 MERCURY, 4-door hardtop w/full deluxe accessory group, 18,000 miles, \$1995. Merrell, AX 9-0348 after 6.
NORELCO SHAVER, new, \$15; also new RCA automatic 45 record player, holds 14 records, \$25. Negaard, AX 9-5430.
18" CRAFTSMAN jig saw w/¼ hp stand, drill press, table model on steel motor w/motor. Calvery, AX 9-1804.
'57 PLYMOUTH 4-door Belvedere, Torque-flite, WW, R&H, '59 plates, consider '53 or '54 Chevrolet in trade, \$1700. Wiesch, AL 6-7236 after 5:30.
HOUSEHOLD GOODS, miscellaneous. Cuthbertson, AX 9-2724 after 5:30.
BOY'S BICYCLE, Hawthorne 26", Maroon w/white trim, two months old, Weimer, AX 9-5536.
17" T.V., GE Console. Whitehill, DI 4-8116.

GIRL'S BICYCLE, 24" Monarch, w/basket, \$17.50. Martin, AL 5-7763.
'55 OLDSMOBILE 98, all power, \$1500. Shaw, AM 8-2648.
'50 PONTIAC 8, four door, auto. trans. Gurule, CH 2-8598.
HEAD STANDARD skis 7 feet, medium stiffness, w/cubco safety bindings, \$65. Cotter, AL 6-0326.
DOUBLE BED, complete, library table (would make coffee table), 4 station intercom. Engle, AM 8-4241, 626 Espanola NE.
35mm VOIGHTLANDER Vito, case and sync. cord; 5 gal. butane bottle. Matthews, DI 4-0593, 255 Gene Ave. NW.
MALLARD DUCKS, \$5 a pair. Tatum, CH 2-9021.
'54 CADILLAC, white w/grey top, clean, \$1800, \$500 down, \$59 month. Cummings CH 2-1061 after 5, AM 8-4551, Ext. 34 from 9 to 4:30.
SPRINGFIELD 1864 Musket and German Mauser Rifle, trade for German Luger or old revolvers of any kind. Smitha, AX 9-1096.
'48 GMC PICKUP, 4 new tires, w/camper, 4 speed trans. \$250. McDonald, Ext. 21153.
'59 TRAILER, 3 bedroom, 10' wide x 50' long, front kitchen, \$4,795. Lewing, AX 9-3193 after 5 p.m. or weekends.
'55 CHEVROLET, Bel Air, 4-door, R&H, powerglide, undercoating, electric wipers, backup lights, nearly new nylon w/w tires. Bauder, AX 9-7322.
'49 FRAZIER, \$125. Platt, AL 5-1973 after working hours.
SEWING MACHINE, Regent Portable, \$75. Brinegar, AX 9-5618, 8907 Fairbanks NE.
CORNER TABLE, Heywood-Wakefield, champagne finish, \$35; coffee table, \$25; telephone table, \$5; child's wardrobe, \$20. McKay, AL 5-9779, 4809 Trumbull SE.
'55 CHEVROLET station wagon, 4-door, Bel-Air, R&H, auto. trans., power steering, electric wipers, will trade. Harrington, Ext. 36161.
'53 FORD, V-8 Ranch Wagon, R&H, Fordomatic, power steering, w/w tires, tinted glass, clean, \$600. Funk, AL 6-0992.
SKIS WITH bindings, \$20; ski boots, \$5; ski poles, \$2; hand clippers, \$1. 12,000 BTU gas heater, \$10. Boxter, DI 4-7601, 1610 Bayita Lane NW.
'58 CHEVROLET, Impala convertible, power glide, power steering, radio and large heater, will take 1955 model in trade. Thompson, CH 3-3070.
AN UNLOVED CHRISTMAS gift, all leather brief case, \$10. Parker, AX 9-1485 after 5 p.m.

NEXT DEADLINE FOR SHOPPING CENTER ADS Friday Noon, Jan. 30

CHINA SET, complete service for \$6, \$15; Sunbeam coffeemaker, 8 cup, \$10. McClelland, AM 8-8167 after 5:30.
'57 CHEVROLET, Bel Air, 4-door, hardtop, V-8, power pack, auto. trans., WSW tires, trade for older car. Howell, AL 6-4280.
COFFEE TABLE, blond, \$9. Martin, AL 5-4400 after 5:30, 5016 Roma NE.
SMITH & WESSON Mod 1950 .44 Special revolver, \$65. Goris, AX 9-2924.
SPINET PIANO, mahogany, five-octave keyboard, all strings attached. Mick, 2621 Rhode Island NE.
ELECTRIC RANGE, 38" Norge, automatic timer, \$55; one 11 foot traverse rod, \$5; steel kitchen base cabinet, 4" wide, \$25, concrete laundry tub, \$5. Richter, AX 9-0409, 2032 Wisconsin NE.
TOOLS, Machinists and Inspection, with tool chest, \$150; for complete list call Bel Air, AL 6-4121.
3 BRM HOME, Mankin, dining room, forced air heat, h/w floors, \$900 down FHA, or assume GI, near schools, bases. Wilson, 713 Louisiana SE, AL 6-5168.
FEMALE BEAGLE, 14 months old, champion sire, papers, shots, excellent for breeding, \$35. Knight, AX 9-2700, 10120 Propps NE.
CHROME DINETTE SET, yellow formica, 36x48, \$20. Johnson, AL 5-5427.
AUTOMATIC WASHER, Kenmore, \$65. Howard, AL 6-2525.
SOFA BED w/winterspring mattress, \$75. Pitti, AL 6-1629.
ELECTRIC STEEL guitar, w/amplifier, GE movie exposure meter, window fan, 12 new vending machines w/stands, best offer on any item. Gruenches, AX 9-3295.
POINTER PUPPY, female, six months old, brown and white markings, good age for training, kind with children, \$15 or best offer. Simmons, Ext. 36295, 3195 West Sandia Dr.
HI FI PHONOGRAPH, Motorola, 1958 blond console, 6 mos. old, retail \$270, will take \$200 or best offer. Dadian, AL 6-6378 after 5:30.
K-22 REVOLVER, S&W, .22 caliber, many extras, \$60; K-8 Weaver telescopic sight, 8 power, never used, \$40. Shunmy, AX 9-2787.

'55 JEEP Pickup, model 6-226, 4 wheel drive, recent overhaul, Warner hubs, snow tires, camper top, \$1,600 minimum. Pikington, AM 8-2570, 305 Hermosa NE.
REFRIGERATOR, Kelvinator, \$50. Garcia, AL 6-5323.
DRILL PRESS, Delta, on stand, \$65; 24" Atlas Jig Saw, new, \$80; Atlas wood shaper, \$40; new Atlas lathe, \$85; new belt and disc sander, \$75. Pliner, AL 6-1907.
REBUILT ENGINE for 1953 Ford, almost new, reasonable; radio, radiator and transmission for 1950 Ford. Boyden, CH 3-6054.
MARTIN SPANISH Plectrum Guitar w/case, \$100, used one month. Burbidge, Ext. 32289.
DORMEYER MIXER, full size, w/juicer and bowl. Collatz, AM 8-0119.
SINGLE BED springs and mattress, w/frame, \$35. Newbauer, AL 6-7068.
MOUTON LAMB coat, ¾ length, greyish-brown, size 12-14, \$50 or best offer. Porter, AX 9-1583.
HOLLYWOOD BEDS, 2 w/matching bookcase headboards, springs and mattresses, full size, each \$35; matching double chest of drawers, \$25. Browning, AM 8-1474.
LIVING ROOM suite, 2-piece, \$50; radio-phonograph, \$25; dining room set, \$20; or will trade for .22 automatic pistol. Galdon, AX 9-5901, 9713 Constitution NE.
RANCH OAK outfit set, coffee table, 2 lamp tables, rocker, easy chair, foot stool, couch, recently re-upholstered, \$100. Cornell, AL 5-3365.
DALMATIAN, 6 months old, white w/black spots, AKC registered, has had distemper shots, beautifully marked, \$50. Yourick, AX 9-7382.
'58 RANCHWAGON, 6, 2-door, R&H, overdrive, \$2,000 or best offer. Hindi, CH 3-0038 before 5 p.m., AL 6-7507 after 5:30.
AM-CW TRANSMITTER, 250 watt, Eldico, complete. Sprague, AL 5-7866.
SPINET PIANO, hi-fi sound equipment, accordion, carpeting, magnetic recording tape, portable sewing machine. Wachtel, AX 9-3003.
CAMPING TRAILER, teardrop, sleeps 2 adults and 2 children, 1959 license plates and spare tire included, \$100. Souder, Ext. 34161.
'51 FORD, 2 door, R&H, rebuilt engine, \$70 upholstery, new paint, stock except for louvered hood, \$280. George, AL 5-2086.
'55 FORD convertible, St. NW, P.O.B. \$1225, see at 4518 2nd St. N.W. Ouellette, AL 6-4606 after 5:30.
DOLL CARRIAGE and child's table w/2 chairs, both \$6. Newell, AL 6-7435.

'57 MERCURY, 4-door, all power, turn-pike cruiser engine, clean, 5 new tires, one owner. Anderson, AM 8-8951.
'56 DODGE, 4-door station wagon, R&H, OD, power pack, V-8, spotlight, 37,000 miles, \$1550. Jackson, AL 6-0121.
3 BRM HOME, recreation room, 1 and ¾ baths, large garage, roofed patio, \$1300 down, will consider car or truck in trade. Underwood, AL 6-7709.
LOST AND FOUND
LOST—Fur lined brown leather gloves, lady's plastic overshoe, key ring w/7 keys, turquoise lighter earring, Butane Schick cigarette lighter, lady's blue sweater, Bausch & Lomb sun glasses, Kaywoodie pipe, gold knitting needle No. 10. LOST AND FOUND, Ext. 26149.
FOUND—Keys in tan snap holder w/laced edge, spinner hub cap for Pontiac, keys w/bottle opener, S. C. shield, Calif. License JCF888, heart shape copper earring, man's gold Bulova watch, found in store-room Bldg. 829, safety prescription glasses. LOST AND FOUND, Ext. 26149.
FOR RENT
APARTMENT, utilities paid, furnished, clean, \$60 a month. Hudson, AL 5-9043.
WILL SHARE furnished house w/gentleman. O'Trimble, AX 9-5168, 1508 Hoffman Dr. NE.
WANTED
BABY SITTER in vicinity of Roberson homes, 5 days a week. Passmore, Ext. 49150.
WILL GIVE AWAY light wooden radio tower, 30 ft. high; you haul it off. CH 3-1869.
GOOD HOME for 3-month old part German shepherd female puppy. Adams, AX 9-4007.
CHILD CARE in my home by day or week. Lopez, AX 9-0941, 9612 Mather NE.
TO TRADE generators—34 Chevrolet or 42 Ford; will trade either one for any make starter in reasonable condition. Williams, AL 5-4109.
SERVICE MANUAL for 1956 Chrysler. Windham, AL 6-9455.
BABY SITTING in the house in Inez Monday thru Friday for one child for least two years old. Westfall, AX 9-2768 after 5:30 p.m.
LIVERMORE FOR SALE
3 BRM HOME, 2 baths, all GE kitchen, hardwood floors, fireplace, drapes included, near school. GI resale, Sheridan, VI 6-4159, 749 E. Angela, Pleasanton.
GERMAN SHORTHORN HAIR pointer, male, six months old, AKC registered, best of litter, has had shots. Doyal, HI 7-4088 after 5.

Sandia Corporation Employees Invited to Join in Great Decisions Discussion Groups

Background reading material for the "Great Decisions, 1959" discussion series, which starts in February, is available through Employee Services Division 4622 as a convenience to Sandians wishing to participate in the program.

Although the Corporation is not participating officially in the program, employees are encouraged to investigate the opportunity to become better acquainted with some of the foreign policy matters facing the government.

The set of nine fact sheets needed for the full series of discussions, to be held weekly during February and March, is available for \$1. The meetings are usually held by groups of six to 14 people evenings in the home of one member of the group.

Meanwhile, Lynn E. Castle (4624), chairman of the Albuquerque Great Decisions committee, reports that representatives of nearly 75 organizations planning to participate in the program have already received instructions at a luncheon meeting.

Mrs. Elsa Thompson, city librarian, who was elected treasurer of the group, will coordinate the distribution of the background material. R. A. Quelle (4652-1), representing the American Red Cross, was elected secretary of the Albuquerque group and will have charge of collecting and tabulating the opinion ballots each week.

The Great Decisions program is endorsed by President Eisenhower and the State Department. Opinion ballots on the nine topics to be discussed will be forwarded to the State Department, along with similar results from discussions being held in 500 or more communities throughout the country. The program is sponsored by the Foreign Policy Association, a non-partisan, non-profit educational organization.



ANTICIPATING DISCUSSIONS on problems relating to America's foreign relations are C. E. Foster, commander of American Legion Post No. 13, and Mrs. William Slaton, representing Sanado Women's Club. About 75 Albuquerque organizations plan to participate in "Great Decisions, 1959" series in February and March.



RESEARCH GRANTS and Sandia's Educational Aids Program were discussed recently when Corporation President J. P. Molnar, right, visited with Tom Popejoy, President of the University of New Mexico, and G. A. Fowler, Sandia Vice President, Research.

Supervisory Appointment

JOHN D. MAFIT to supervisor of Employee Services and Benefits Section 4622-1.



During the eight years he has been at Sandia, "Jack" has worked the entire time in the Employment and Personnel Department. His first job was as an employment interviewer and he has also served as supervisor of Skills Inventory Section and Staff Employment Section.

Previously Jack received a BA degree at the University of New Mexico and was a member of Phi Kappa Phi, scholastic honor, Phi Sigma Iota, romance language honorary, and Phi Alpha Theta, history honorary.

For five years he worked as specifications analyst in the drafting department of the Falk Corporation, a manufacturer of gears in Milwaukee.

Jack served three years in the Army anti-aircraft artillery during World War II, part of the time in Europe.

Dept. of Commerce Distributing Tech Memo by J. Harris

"Systems of Numerical Notation," Technical Memorandum SCTM-363-58 (24) by S. S. Harris (4560), has been made available to the public through the Office of Technical Services, Department of Commerce, Washington 25, D.C.

The Memorandum is a discussion of numerical notation systems presented for the information of persons associated with the applications of electronic computers but who do not have training in advanced mathematics. Various systems are analyzed, methods of conversion from one system to another are described, and arithmetical operations in different systems are illustrated.

Welcome Newcomers

Jan. 2-16

Albuquerque	Elizabeth C. Bass	4725
	Nolan D. Blank	4233
	Charlotte R. Cast	2222
	James L. Ewing	4233
	Robert R. Field	4582
	Elizabeth T. Gary	4961
	Phyllis B. Hughes	2243
	John Justus	4362
	W. Joleen Koger	2551
	Delores A. Oard	4563
	Wayne E. Roisum	2711
	Paula H. Schultz	4153
	Patricia G. Smith	4725
	Eleanor E. Vavro	4333
	Charles P. Vavubel, Jr.	4251
	Alta M. Vick	2221
	Mary M. Waggoner	2243
	Marian M. Williams	4725
	K. Janet Willis	4725
Alabama	Robert E. Duke, Birmingham	4122
Arizona	David F. Hillyer, Phoenix	8121-2
California	Rose M. Mueller, Livermore	8213-2
	Joseph F. Genoni, Livermore	8223-1
	Michael T. Ferrario, Livermore	8114-1
	James O. Olsen, Livermore	8115-2
	Marilyn M. Smithart, Hayward	8232-1
	Glen H. Funk, Imperial Beach	8152-2
	Francis E. Cunningham, Livermore	8232-1
	Jaime B. Batalla, Newman	8222-1
	Clyde T. Martin, Livermore	8222-1
	Lorayne B. Carico, Hayward	8212-3
	Albert J. Bastion, Hayward	8232-1
	Carolyn J. Johnson, San Leandro	8212-3
	Otmer J. Rose, Walnut Creek	8221-1
Colorado	Harold O. Faulkner, Colo. Springs	8114-3
Illinois	Harold E. Roberts, Chicago	5131
Indiana	Charles H. Treat, West Lafayette	1232
	Phillip F. Sites, Farmland	8114-3
Minnesota	James E. Cox, Chandler	5243
	Lowell C. Mellum, Detroit Lake	2552
Ohio	Carl H. Beckham, Jr., Toledo	8116-2
Texas	Sherwood F. Duliere, Jr., Fort Worth	5132
Washington	George Enzmann, Bellevue	8116-1
	Denotes Rehired	
	Returned from Leave	
	William F. Leverenz, Jr., Albuquerque	4253
	Elaine T. Schwes, Albuquerque	4841
	Lois E. Rawson, Danville, Calif.	8212-2
	David Stea, Brooklyn, N. Y.	1592
	Loretta Blum, Albuquerque	4135
	Joaquin A. DeVargas, Tierra Amarilla	4142

Two Employees Named Meteorological Officers

Two Sandians were among new officers elected recently by the Albuquerque Chapter of the American Meteorological Society. Tim Rafferty (5243) heads the Chapter as president and Hugh Church (5111) is the new vice chairman and program chairman.



ORGANIZATIONAL DETAILS of forthcoming "Great Decisions, 1959" discussion series are discussed by (L to R) Chairman Lynn E. Castle, R. A. Quelle, secretary of the Albuquerque group, and City Librarian Mrs. Elsa Thompson, who will coordinate distribution of background material to be used by participants in research phases.

Movie Schedule

The Sandia Corporation noon hour movie schedule for the coming two weeks is:

Jan. 27-30—Movie "A" is "Up Front" starring David Wayne and Tom Ewell. Movie "B" is "Wings of the Hawk" starring Van Heflin and Julie Adams.

Feb. 3-6—Movie "A" is "Meet Danny Wilson" starring Frank Sinatra and Shelley Winters. Movie "B" is "Man in the Shadow" starring Jeff Chandler and Orson Welles.

All these movies are full length features and are shown in two parts starting at 12:05. Movie "A" will be shown in room B-6 of Bldg. 802 on Tuesdays and Wednesdays and in Bldg. 849 on Thursdays and Fridays. The schedule for Movie "B" is the reverse.



Gilbert Rhodes

Gilbert Rhodes Consultant to Accident Board

Gilbert Rhodes (8212-4) recently accepted a post with the California Board of Health as a consultant on accident prevention.

His appointment to the post for this year was made at a meeting of the Board in December. After he was officially notified in a letter from the Board's executive officer, Gil sent his acceptance. This is a non-salaried position.

As consultant on accident prevention, he will be called upon occasionally to advise state public health officials engaged in setting up their local accident prevention programs.

Gil joined the Livermore Laboratory as safety engineer in October 1957.

B. N. Charles to Give Reports on Data Studies Made of Upper Winds

B. N. Charles will present two technical papers Jan. 29 during the annual meeting of the American Meteorological Society in New York City. Both papers report part of the results of a research project

undertaken by Systems Analysis Division A 5121, for the U. S. Weather Bureau to reduce to statistical significance a great mass of data collected on upper winds over North America during 1957-58.

Title of the first paper is "On Some Limitations of Upper Wind Records" which shows that previously collected upper wind measurements were seriously biased toward smaller values because of limitations of observing equipment.

"Empirical Models of Interlevel Correlation of Winds" gives numerical models of inter-relationships of winds at different altitudes over North America. The models are useful in many kinds of theoretical studies of trajectories, fallout patterns, etc.

Hugh Church (5111) is also attending the meeting in New York.

'Kitty' Helm Retires Jan. 31; May Live In Guadalajara Area

Spring time will be travel time for Catherine "Kitty" Helm, secretary in Industrial Hygiene Division (4661), who will retire Jan. 31.



"Kitty" Helm

Kitty plans to drive to Mexico to investigate the possibility of settling in the Guadalajara area. Before leaving she will be living at 321 Truman NE in Albuquerque.

She came to Sandia five and one-half years ago from Los Alamos, where she had been employed since July 1945.

Kitty refuses to be pinned down to any particular hobby or special interest. She explains, "One thing I like about life is that you don't have to stick to anything."

Big House Visit

Dave Hurley (8231) visited the death house at San Quentin State Penitentiary last week as part of a tour hosted by Fred R. Dixon.

The group consisted of members of the Bay area law enforcement and security liaison officers from various government and military organizations. The visit to the prison was arranged by members from the AEC's San Francisco Operations Office.



**Sandia Corporation Has Worked
100 Days
Without a Disabling Injury**

HERE'S WHY...

Employees realize there is no off season for accidents, that accidents happen when least expected and that the only insurance against accidents is strict adherence to safe-working principles. They also know that a conscientious effort on their part is required in order to develop their respect for safety principles.