

AEC Official Commends ALO and Contractors For Achieving Goals

Words of congratulations for work well done has been passed to the Albuquerque Operations Office of the AEC and its contractors. The praise was sent from Brig. Gen. Alfred D. Starbird, head of the AEC's Division of Military Application, to K. F. Hertford, Manager of ALO, and were passed on by Mr. Hertford to J. W. McRae, President of Sandia Corporation.

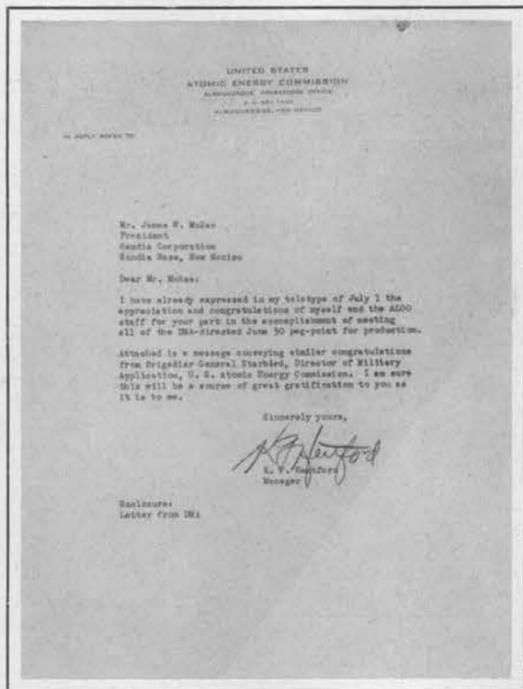
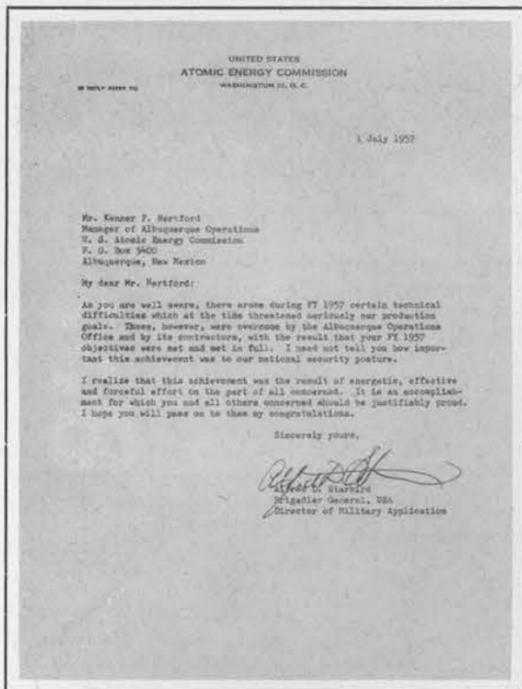
The letters (see accompanying reproduction) pointed out the ALO and its contractors met their goals despite certain technical difficulties.

Mr. McRae, in referring to the letters said, "We recently were

advised that all the AEC production goals for the fiscal year ending June 30 had been accomplished.

"Brigadier General Alfred D. Starbird has extended his congratulations to the Albuquerque Operations Office and its contractors for this achievement and he recognized that this was the result of energetic, effective and forceful effort on the part of all concerned.

"I wish to compliment and extend my personal appreciation to all employees of the Sandia Corporation for their part in meeting objectives so important to our national security."



RECOGNITION of exceptional work accomplished by Albuquerque Operations and its contractors is expressed in the above letters from Brig. Gen.

Alfred D. Starbird, head of the Division of Military Application, U. S. Atomic Energy Commission, and K. F. Hertford, Manager of ALO of the AEC.



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

Vol. 9, No. 17

Albuquerque, New Mexico

August 23, 1957

National Head Of IRE Speaks Here August 30

John T. Henderson, national president of the Institute of Radio Engineers, will address a dinner meeting of the Albuquerque-Los Alamos Section of IRE Friday, Aug. 30. "Wide Spread Ramifications of Radio - Electronics" will be Mr. Henderson's subject.

A social hour starting at 6 p. m. will precede the dinner scheduled at 7. It will be held at the Kirtland Officer's Club. Reservations



John T. Henderson

may be made by contacting Frank Goss (1463), ext. 2816. Members and their wives and others who are interested are invited.

Dr. Henderson has been associated with the National Research Council, Ottawa, Canada, since 1933. He studied Engineering Physics at McGill University and received a Master of Science Degree in 1928. He then attended King's College, University of London, where he received a PhD in 1932.

Pres. J. W. McRae Visits Thule Air Base

James W. McRae, President of Sandia Corporation, last week returned from a trip to the Arctic with the Army Scientific Advisory Panel, of which he is a member.

The journey took him to the USAF base at Thule, Greenland, and Ft. Churchill, Canada.

Also making the trip were Lt. Gen. James Gavin, assistant chief of staff for research and development of the U. S. Army, and a group of Army officers.



J. E. McGoorty and Christine Baca
—Handshake known to hundreds of Suppliers—

Supplier Relations Greets Visitors, Arranges Sales Talks

Dozens of representatives of manufacturing firms call on Sandia Corporation each day carrying in their sample cases items ranging from tiny electronic tubes to specifications of giant construction equipment. To see that these men meet and talk with concerned Corporation personnel is the job of Suppliers Relations Section under Chenault Davison, Procurement and Program Coordinating Division 2332.

The first Sandian supplier representatives meet is J. E. McGoorty whose warm handshake is known to hundreds of suppliers.

"There is a mutual advantage in helping suppliers accomplish their purpose as quickly and completely as possible," Mr. McGoorty says. "The Corporation benefits by keeping abreast of the latest production, materials and processes which become available from time to time and we hope the supplier benefits by evaluating his possibility of providing Sandia with such materials or services."

175 Conferences

In a typical month recently Mr. McGoorty arranged 175 conferences between suppliers and Corporation personnel and scheduled nine demonstrations of suppliers' products and processes. A total of 808 Sandians took part in the confer-

ences or witnessed demonstrations.

The Suppliers Relations Section meets visitors in the lobby of Bldg. 800 and escorts them to the Suppliers Relations Office where interviews are held. The Section then arranges conferences with the various buying and engineering groups interested in the materials or services offered.

The Section keeps a log of all Sandians who meet with supplier representatives during the day and notes on subjects discussed.

How does the supplier representative feel about these services?

Appreciation Letters

Mr. McGoorty has a file bulging with letters of appreciation.

Phrases such as "thank you very much for your courtesy and cooperation" and "we sincerely appreciate your helpfulness, assistance and hospitality" are found in letter after letter.

A recent letter from the Thomas E. Edison Industries summed it up this way:

"I would like to start by thanking you for the assistance rendered during my past visit. I can assure you that the method Sandia is using in handling of vendor representatives is superior to any system used by companies in the Southwest."

Electronics Courses

Four electronics courses will be offered beginning with an introductory course and advancing through progressively more detailed studies. Each course will have a lecture session and laboratory period and will be 12 weeks long.

Students taking a laboratory course must have completed or be taking simultaneously the corresponding lecture course.

Textbooks for all electronics lecture courses will be "Elements of Electronics" by Hickey and Villines. In Laboratory I and II the text will be "Basic Electricity" by Zbar and Schildkraut while Laboratory III and IV will use "Basic Electronics" by the same authors.

In addition to the four electronics courses and laboratories, Blueprint Reading (Mechanical) and Mechanical Measurements

(Elementary) will be offered. The first is a basic nine-week course including a brief arithmetic review.

Mechanical Measurements

Mechanical Measurements (Elementary) is a beginners course covering fundamental principles and use of measuring instruments. This course will run 12 weeks and enrollment will be limited to 24 students.

Enrollment in any of the Sandia Corporation Evening School courses can be accomplished by filling out enrollment cards which will be distributed to employees next week and returning the cards to General Training and Education Division 3124, Bldg. 849. Any questions can be answered by dialing ext. 52151.

A complete course schedule is printed on page 6.

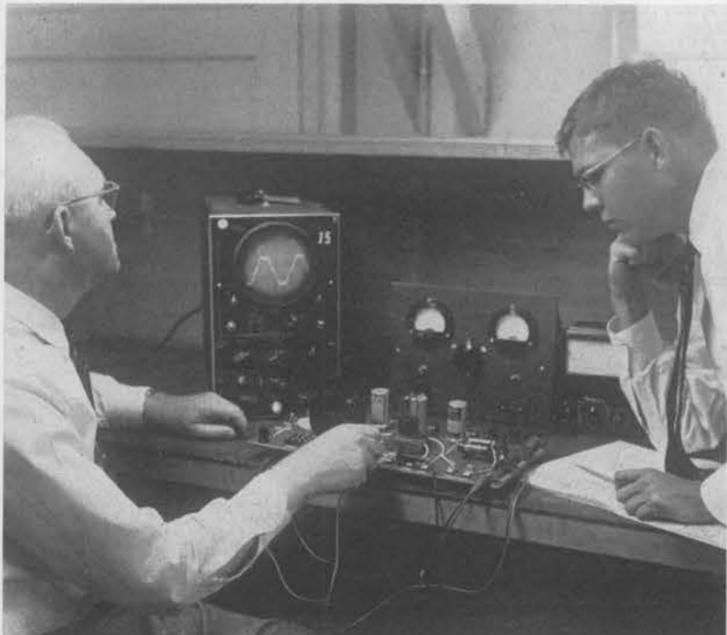
In addition to the Evening School program, the General Training Division is coordinating classes with Albuquerque Public Night School and Albuquerque Vocational Evening School. Although time, place and starting date have not been set, the following six-week courses will be offered on Tuesday and Thursday evenings at Albuquerque High School:

Typing, Shorthand, Business Arithmetic, Filing, Bookkeeping, and Business English.

Vocational School

The Albuquerque Vocational Evening School will offer eight courses in Shop Mathematics—Arithmetic I and II, Algebra I and II, Slide Rule, Plane Geometry, Plane Trigonometry and Compound Angles. Mechanical Drawing will also be offered. With the exception of the Slide Rule course which is eight weeks, all classes will meet for 16 weeks.

Schedules for the above Albuquerque Schools' courses have not been completed but will be posted on bulletin boards as soon as they are made available.



NEW ELECTRONICS LABORATORY for use of Sandia Corporation students enrolling in electronics courses offered in the Corporation Evening School is partially shown here. W. B. Maxon (left), Sandia Consultant, demonstrates to Bill Sturgis (3124).



The Sandia Lab News is an official publication of the Sandia Corporation, Albuquerque, New Mexico

Photography by Photographic and Reproduction Division.

Office: Room 10, Bldg. 829, Employee Services

Telephones
Sandia Base 6-4411
Ext. 25253, 26135



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.



Bill Laskar Photographer; Jim Pennington, Asst. Cherry Burns, Don Graham, Assistant Editors Robert S. Gillespie, Editor



CHAMPIONSHIP TRY — Carl Cappuccilli, Albuquerque Soapbox Derby Winner, returned home this week after competing in the national contest in Akron, O. He is the son of Juene Cappuccilli (2132-2), a stenographer in Model Receiving Inspection. Carl's glistening home-built racer, shown above, won him the Albuquerque title last July.

At Mathematics Course

Dick Hildner (5122) will be attending the mathematics summer meeting at Penn State College Aug. 26-30. The meeting is jointly sponsored by the American Mathematical Society, the Mathematics Association of America and the Society for Industrial Applied Mathematics.

The session will have a dual purpose for Dick. While at Penn State he will attend a meeting of section presidents of the Mathematics Association of America. Dick heads the section comprising Arizona, New Mexico and West Texas.

Congratulations

Born to:

Mr. and Mrs. Bill Caudle (5144) a son, Eric W., on Aug. 7.

Mr. and Mrs. M. E. Bush (5216) a son, Marvin Thomas, on Aug. 4.

Mr. and Mrs. Lyle Newman (7113) a son, Cary Douglas, on Aug. 4.

Mr. and Mrs. Alvin E. Farmer (7311) a daughter, Lynn Marie, on Aug. 2.

Mr. and Mrs. Jerry Foley (1611-3) a daughter, Shiela Ellen, on Aug. 9.

Mr. and Mrs. John M. Willis (1456-1) a son, Charles Richard, on Aug. 3.

Mr. and Mrs. William Brion (1442) a son on Aug. 15.

Mr. and Mrs. Joe Costales (4153) a son, Joseph Charles, on Aug. 9.

Mr. and Mrs. Carl Boxx (2131) a son on Aug. 14.

Mr. and Mrs. Ed Machin (1451) a daughter, Nancy Jane, on Aug. 2.

Mr. and Mrs. Ed Carpenter (7411) a son, Clint Wayne, on Aug. 7.

Mr. and Mrs. Irv Lenz (5221) a daughter, Lisa, on Aug. 9.

Mr. and Mrs. W. P. Stearns (1423) a son, Charles, on Aug. 14.

Mr. and Mrs. Gene Newlin (6010) a daughter, Charlene on Aug. 15.

Mr. and Mrs. B. N. Yates (7412) a daughter, Karin Lynn, on Aug. 3.

Weddings and Engagements

Annunciation Chapel at Hoffmantown will be the scene tomorrow morning of the marriage of Carol White (4135-2) to Robert S. Hogan of Maryland.

Bridesmaids will include Mary Beth Henry (2221).

The bride is an invoice clerk and has been with the Corporation since January, 1956.

A recent bride was Barbara Moseley (2553) who married A/2C Robert J. Porterfield of Kirtland AFB at a ceremony in the Christ Methodist Church.

Barbara has been employed at Sandia since February.

The couple will be at home at 512 Cagua Drive NE following a honeymoon in northern New Mexico.

The engagement of Barbara Cooper (2541-3) to William Ernest Western, stationed at Manzano Base, was announced recently.

Bernice Duke (4131) held an engagement party for her niece, Barbara, last Saturday.

No date has been set for the wedding.

Don Shadel (7411) and Bonnie Schowalter of Los Alamos were married July 26 at the United Church at Los Alamos.

Welcome Back

Organization 2711 welcomes back Edith Irwin after a lengthy illness.

Back on the job is Dick Jackson (7421) who has been confined to the hospital.

Sympathy

To Benino and Antonio Jinzo (2473) for the death of their brother, Max.

To Alfredo Fernandez (2473) for the recent death of his wife.

To Wayne Davis (consultant to 5120) for the death of his father July 23 in Medicine Lodge, Kan.

Former Sandia Patent Manager Dies Aug. 20

Donald MacKenzie, who retired from Sandia Corporation Jan. 1, 1957, died in an Albuquerque hospital Aug. 20. He had served as Patent Department Manager at Sandia for four and one-half years and had been a Sandia consultant since his retirement. He was 69 years old.



Donald MacKenzie

Prior to coming to Sandia he had been with Bell Telephone Laboratories for 11 years. Mr. MacKenzie was a lawyer and had earned three degrees, including a PhD from Johns Hopkins University in Baltimore.

He is survived by his widow, Margaret, Albuquerque, and two sons, Malcolm, who lives in New Jersey, and William, with the Air Force in Mississippi.



NEW ADDITIONS to the Salton Sea Test Base staff were honored Aug. 10 with a dance at San Felipe Lodge sponsored by the Salton Sea Base Community Council. Guests included (L to R):

R. E. Hepplewhite (2480), Mrs. Hepplewhite, Dorothy Sehn, recreation chairman, Mrs. B. D. Neil and Billy D. Neil (2482). The social event was well attended by both residents and non-residents.

Sandianotes . . .

Vacationing Sandians Enjoy Mexico But Didn't Anticipate Earthquake

Sailor's Reward

A combination of business and pleasure paid off for Paul W. Rowe (5141).

Paul recently attended a conference at Colgate University on research administration, sponsored by the American Management Association. The "off-hours" recreation program during the seminar included competition in water sports.

The Sandia representative was a member of a two-man crew which won first place in the Penguin Class sailing races. His prize was a leather bound ash tray.

New Home Owners

Proud new home owners are Mr. and Mrs. Tom C. Garcia (2711), who are now living at 2726 Santa Clara NE.

Another new home owner is Claire Abraham (5121) who moved to 3225 Palomas Dr. NE with his family recently.

Jim Gallagher (4111-1) and his family will move into a new residence at 9625 Morrow NE soon.

Get Well Wishes

Division 2541 extends get-well wishes to Sverre Johannesen, who has been hospitalized for several weeks and is not expected back at work for two months.

Magicians Elect

The International Brotherhood of Magicians recently elected Frederick H. Darugh (1461-1) territorial vice president and Willard A. Scranton (1411-2) territorial representative.

Both men hold offices in the Albuquerque Magicians Club and the Atomic City Mystics.

Wedding Anniversaries

August seems to be challenging June for honors as the most popular month for marriage, judging from the number of wedding anniversaries this month.

Mr. and Mrs. Ed Mould (2721) celebrated their 37th anniversary on Aug. 9.

Last Monday Alcadio Romero (2711-5) and his wife observed their 18th wedding anniversary.

Bob Dawirs (1262) and his wife marked their 10th anniversary on Aug. 10.

Observing their 18th anniversary on Tuesday will be Mr. and Mrs. Max Weber (5125).

Golf Honors

Practice paid off for John Olson (7424) who won a set of golf clubs by placing first in the first flight of the medalist tournament held in Santa Fe recently.

Rooms Needed for Summer Employees

Can you accommodate an extra person in your home?

Living quarters are needed by a group of Sandia Corporation summer employees who have been living in the University of New Mexico's men's dormitory during the summer. They must move Sept. 1 to make room for returning students and hope to obtain housing for the last three weeks of their Albuquerque stay at about the same rate—\$1 per day.

Any employee who has a room that could be rented to these men may call John Shunny (3151), Ext. 36255.

Thomas A. Askew, Jr., Chief Review Branch Personnel Security

New chief of the Review Branch, Personnel Security Division at ALO is Thomas A. Askew, Jr. He recently transferred from the AEC Division of Security in Washington, D. C. In his new position he will be in charge of review and analysis in connection with personnel clearance activities for the operations office.

The post was formerly held by Miller McDonald who transferred to the ALO Organization and Personnel Division.

Agnes Vigil (7226) and Margaret Armijo (2461) anticipated interesting sights and lovely scenery when they decided to vacation South of the Border. The recent earthquake was an added attraction.

The girls had completed their two week guided tour of Taxco, Acapulco and Mexico City when the last night of their stay they were awakened by the rain-like sound of falling plaster. Their hotel was rocking and there was a general state of confusion.

Since authorities were expecting more quakes the following day, the "shook-up" girls were happy to leave for Albuquerque.



Margaret Armijo, Agnes Vigil —all shook-up in Mexico—

Going Away Party

Chester Wolowicz (7411), who is transferring to Livermore, was surprised last Friday with a cake and gifts from his fellow workers.

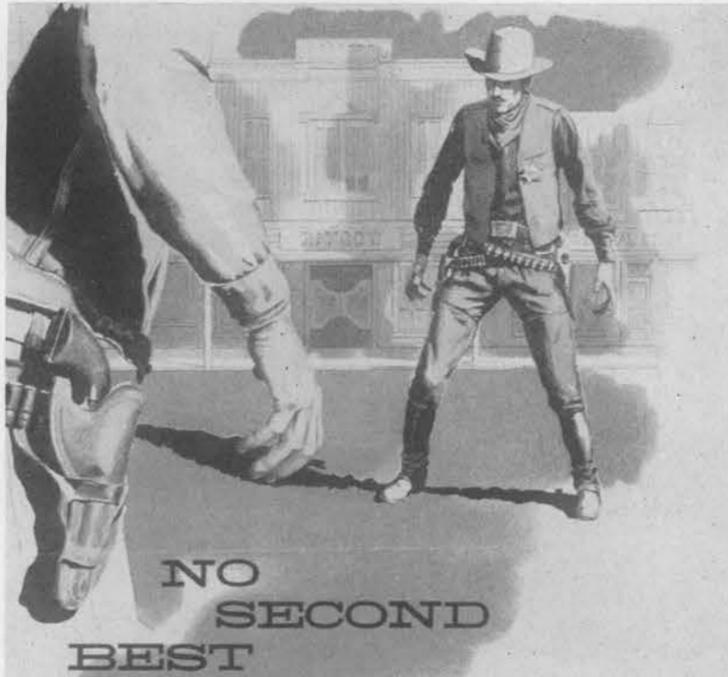
Mr. Wolowicz came to Sandia Corporation in 1950 as a draftsman. He advanced to the position of Section Supervisor and last year was promoted to supervisor of Division 7411.

He will be in charge of all drafting at the Livermore Branch.

Welcome Newcomers

Aug. 1-16

Albuquerque	Samuel M. Bragg, Jr.	2721
	Nary M. Campbell	3123
	Phyllis A. Drake	2221
	John C. Dessen	1613
	Isaac R. Griego	2464
	Marilyn D. Hummel	4142
	Sarah V. Kennedy	2464
	Lawrence A. Kent	2133
	Rosie J. McDowell	2471
	Marlene G. McLean	2482
	Mack M. Marrs	2133
	Glenna L. Moseley	7226
	Herbert A. Parsons	4152
	Holman V. Peterson	4151
	Laura D. Powers	2711
	Charles D. Salazar	2461
	J. Berman Sanchez	2464
	Donald P. Uselmann	2742
	Lucia C. Vigil	2541
	Alice D. Warder	7225
	Doris L. Willard	4135
	John R. Woodworth	2112
	Juan E. Zuni	2133
California	Jeroldine Clark, Livermore	8132
	Leonore Farnam, Livermore	8132
	Ira Dee McKinney, Hawthorne	5214
	Esher L. Nesbit, Glendale	3162
	Rox Richardson, Livermore	8142
Connecticut	Joseph A. Schatz, Starrs	5126
	Andrew C. Wilken, Bristol	1421
Illinois	Donald C. Adolphson, Rockford	1624
Indiana	John C. Weydert, East Chicago	5143
Iowa	Robert L. Sullivan, Ames	1624
Kansas	James R. Goodloe, Manhattan	2343
	Tillman J. Tucker, Manhattan	5132
Massachusetts	Joseph C. Keefe, Weymouth	2713
Missouri	Kenneth W. Shrock, Kansas City	1612
	Harold A. Kiehle, Alma	2532
New Jersey	Walter C. Mooney, Jr., Andover	2154
Ohio	Charles E. Hooper, Akron	2743
Oklahoma	Howard E. Frankel, Norman	3164
	William Stahley, Stillwater	1217
Oregon	James Blanchard, Klamath Falls	8122
Pennsylvania	Robert H. Gilkeson, Sellersville	7412
Texas	Jewel T. Wheelis, College Station	2542
Virginia	William Jackson, Alexandria	2153
Washington	Robert Baker, Seattle	8121
	Carl J. Benning, Jr., Seattle	1246
	Russell Boyer, Seattle	8121
	Vernon Seeley, Seattle	8122
Wisconsin	Thomas Kanneman, Green Bay	1262



**NO
SECOND
BEST**

When an aggressor threatens, you can't be second best. That's the way it is in our business, too. Our business is design and development of nuclear weapons—weapons that stop potential aggressors and defend our freedom. And in this kind of work, either you're best, or you're nothing. We can't afford to settle for less than the best—ever. That applies to our engineers and scientists, too. As our job and its importance grows, we need more capable scientists. To those who qualify, we offer exciting opportunities for professional growth and individual advancement. Engineers, physicists, mathematicians, and other scientists are needed in a broad range of specialized fields. We offer attractive living, too. In Albuquerque,

you'll find a fine climate and a blending of ancient and modern cultures provide pressure-free, relaxed, pleasant living. The University of New Mexico, located here, provides opportunity to earn advanced degrees under a Sandia-sponsored educational aids program. Varied recreational activities are nearby and homes for rent or purchase are available. MORE INFORMATION about Sandia Corporation, the work we do, and the opportunities now available are contained in our illustrated brochure. For your copy, please write Staff Employment Division 551.



RECENTLY APPEARING in national technical magazines the Sandia Corporation employment ad reproduced above aroused many favorable comments including a request for a print from a "grown up little boy" at Douglas Aircraft Company.

Sandia Advertisement Draws Praising Letter

One of Sandia Corporation's employment advertisements appearing in national magazines recently drew an unusual letter of admiration and request for a print of the ad.

The letter was from M. M. Miller of the Douglas Aircraft Company, Inc., Santa Monica Division and read as follows:

"Is it possible to obtain a print suitable for framing of the picture including the slogan of the 'Marshall and Gunman' appearing in your current employment advertising?"

"As Chief, Acoustics Section, Engineering Department, Douglas Aircraft Company, Inc., Santa Monica, California, I appreciate the slogan; as a pistol hobbyist I like the reference to the use of guns; and as a grown up little boy I can't resist the 'Western' setting."

"It would be a gratifying picture to hang on my wall."

As requested, a copy of the illustration was sent to Mr. Miller for framing.

To Publish UNM Evening Schedules; 'U-Night' Sept. 16

A summary of courses offered next semester by the University of New Mexico Community College will be published in the next issue of the Sandia Lab News. Under the provisions of the Sandia Corporation Educational Aids program, 50 per cent tuition is refunded by the Corporation to employees who successfully complete job-related University courses.

Annual University Night is scheduled Monday, Sept. 16, at the Coronado Club. University officials will be on hand to counsel anyone interested in registering for UNM classes.

Staff Training and Education Division, 3123, is coordinating with the University in arranging classes of interest to Corporation employees. Further information may be obtained from W. H. Bailey, ext. 45157.

Industrial Photography Publishes Article by J. J. 'Mike' Michnovicz

An article by J. J. "Mike" Michnovicz, supervisor of Photo and Reproduction Division 2462, appears in the August issue of Industrial Photography. It is illustrated with cartoons by Cecil Kinney (2463) and photographs by the Photo Section.

"Hiring Personnel for Industrial Photography" is the title of the article and is a summary of a paper Mike presented at a national photography convention in Washington, D.C. earlier this year.

Gun Club Schedules .30 Cal. Shoot for Sunday Morning

Sandia Gun Club will hold a .30 calibre Army Qualification shoot Sunday, Aug. 25, at 8 a.m. on the Sandia Base 1000 inch range.

Members are requested to bring NRA and club membership cards.

The course of fire will be the Army "C" course at 200 yards. Further information may be obtained from Martin Corney (4141), Alb. 5-1490.

Sandia Corporation, Three Unions Sign Contracts This Month

Sandia Corporation and three Unions have signed contracts covering wages, hours and working conditions for the next two years.

Officials of Metal Trades Council and Office and Clerical Unit signed their agreements Aug. 12 and the Officials of the Guards Union signed their agreement Aug. 13.

P&M and O&C agreements expire June 30, 1959, and the Guards Union contract expires Sept. 30, 1959.

R. D. Flaxbart Sandian Who Serves Community in Many Different Ways

This is another in a series of articles describing the community activities of Sandia Corporation employees.

Between Kiwanis, Air Force Reserve and church interests it must be hard for Mrs. Flaxbart to keep track of which meeting her husband is currently attending. R. D. Flaxbart (2473) takes an active part in all.

Back in 1951 "Flax" was one of the founders of the Redeemer Lutheran Church, the first church of that denomination in the Heights. Started with about 80 members (half of them Sandians) the membership now numbers 350 adults.

The parish house was built first, then an educational building, and last month, Flax, as chairman of the finance committee, opened bids for construction of the church itself.

Several years ago he was also president of the Snow Heights Civic Association, organized to deal with neighborhood problems on zoning and park improvements. Flax noted, "The association died a natural death after it accomplished its purpose."

Flax has been active in Kiwanis since 1942 when he helped organize a club in Illinois, his former home. After coming to Albuquerque he joined one of the existing chapters and last December helped organize the Hiland Kiwanis, the only Kiwanis group in town which holds evening meetings. The club has 46 members and Flax is the president. The Hiland Kiwanis has already done considerable



R. D. Flaxbart

work with underprivileged children in the village of Tijeras. Family assistance has been given, eye glasses have been purchased for children whose parents cannot afford them, and supplementary milk is provided for some youngsters at the A. Montoya School in Tijeras.

As if all these activities aren't enough to keep three men busy, Flax has also been in the U. S. Air Force Reserve since 1946 when he left active duty. There are training courses every two weeks and a short period of active duty every summer.



LETTER OF COMMENDATION for Army service has been received by Bob Jones (1422-1). He had been an engineer at Sandia for three years when called up for two years duty in the Army. After return to Sandia in May Bob received a letter from Col. Lloyd E. Fellenz, commanding officer of the Chemical Corps' Research and Development facility at the Army Chemical Center, Edgewood, Md., lauding the Sandian for his "outstanding job" in development of an automatic field alarm.

Organic Chemistry Class Offered by St. Joseph's College

An evening course, Organic Chemistry 101, will be offered by the College of St. Joseph next semester. Five credit hours will be awarded students completing the course. It will meet for three hours of lectures and six hours of laboratory sessions each week. Registration information and schedule of meeting times may be obtained from James Roy, Alb. 5-7427.

OSU Alumni to Swim and Dine

The Alumni Club of Ohio State University plans to kick off the social season with a swimming party and patio supper Sept. 7 at the home of Dr. and Mrs. G. E. Rader.

Club President Ted Smart (1452) points out that membership in the club is open to former students and their wives or husbands.

Reservations for the OSU party may be made by calling Mrs. George F. Miller at Alb. 9-4230.

Two Meetings of Colloquium Planned

Sandia Corporation Research Colloquium will hold two meetings in the next two weeks, Craig Hudson (5511) of the Colloquium Committee announces.

"Measurements of Transients in Reactors" will be discussed by Warren E. Nyer Wednesday, Aug. 28. Mr. Nyer is with the National Reactor Testing Station in Arco, Idaho. Tickets will be required for the meeting.

"P-N Junction Theory and the Junction Transistor" will be discussed by M. J. Leivo Wednesday, Sept. 4. Mr. Leivo is a professor of physics at Oklahoma State University, Stillwater. No tickets required for this meeting.

Both Colloquium meetings will be held at 9:30 a.m. in the basement conference room of Bldg. 802.

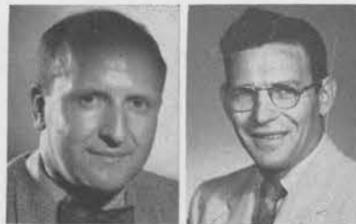
SERVICE AWARDS

10 Year Pins



Daniel J. Padilla 7311 Sept. 2, 1947

Daniel H. Juckett 2111 Sept. 2, 1947



Lawrence R. Neibel 7320 Sept. 2, 1947

Billy W. May 2111 Sept. 5, 1947



Robert D. Statler 5254 Sept. 2, 1947

Cecil H. Johnson 7412 Aug. 25, 1947

Supervisory Appointments

DONALD L. HAYES to supervisor of Illustrated Parts Break-down Section 7122-3, Military Publication Division I.



"Don" has been with the Corporation a year and a half as a technical writer in organization 7120.

Before coming to Albuquerque he was with LeTourneau Westinghouse, heavy equipment construction firm in Peoria, Ill., for 15 years. He was a tech writer there for eight years, then section chief in administration, and later administrative assistant to the director of engineering.

Don majored in Mechanical Engineering at the University of Illinois and served three years in the Army Engineers during World War II in the U. S. and in Europe.

DONALD L. HARRISON to supervisor of Groups I and III Document Control Section 2461-4, Document Control Division I.



"Don" has been with Sandia Corporation for six years. Most of the time he has

been working in manufacturing engineering procedures and planning.

He studied at the University of New Mexico for two years before being employed by Sandia.

Don served three years in the Air Force as a supply sergeant.

WILLIAM H. CHANDLER to supervisor of Labor Relations Division 3221.



"Bill" came to the Corporation in June 1951. He was supervisor of the Industrial Relations Methods Section 4112-2 for four years prior to his transfer to Labor Relations last April.

Immediately prior to moving to Albuquerque he was a buyer for the mail order division of Montgomery Ward for five years.

Bill holds both Bachelor's and Master's degrees from the University of Texas in Industrial Relations.

During World War II he served three years in the Army, two of those years he was in the South Pacific.

He is an affiliate of the American Institute of Industrial Engineers.

Five Year Pins

Aug. 23-29

Raymond T. West 1215, Leon W. Gotchall 5521, Esequiel K. Montoya 5243, Robert D. Pace 5254, Pedro Gallegos 2232, Manuel G. Martinez 2121, G. C. Warnick 5512, Adelina Sanchez 7225.

Fred T. Hansen 2532, Muriel R. Neuberger 2553, Joseph H. Billings 2351, Richard C. Zaluga 1461, Carter D. Broyles 5111, Harry A. Warrick 5531, Charles J. Uribarri 2335, Isaac L. Clements 2412, and Ignacio B. Ortiz, Jr. 2232.

Aug. 30-Sept. 5

Paul L. Kerley 1413, Richard A. Buck 1612, S. O. Edwards, Jr. 7411, Jack R. Lawrence 4121, James A. Beaudet 2543, J. A. Paulhamus 2553, Alfred J. Quant 1625.

Andrew C. Ellington 1442, Flaviano Saavedra 2352, Harold J. Wild 2221, Mabel L. Hendricks 5125, Clifford K. Rudy 2443.

Ibrie L. Brazell 2418, Emily J. Coris 2731, William A. Gorry 1281, Charles M. Good 7412, Sabino Luna 2419, Edith D. Miller 7225, W. E. Glisson 2415, and Leonard J. Baker 2232.

Two Year Certificates

Aug. 23-29

Douglas W. Reeves 2463, Janet I. Davis 7225, Delores N. Smith 2133, Barbara A. Doty 7225, Eugene J. Foderaro 1611.

Joseph R. Suknot 7411, John F. Smatana 1613, Eileen M. Hanley 7323, Richard R. Petrini 2133, Malcolm H. Woodward 1614, Jake F. Gonzales 2154, and Mary E. Sanchez 5111.

Aug. 30-Sept. 5

Orlando Vigil 2472, Howard J. Jackson 1423, John E. Postlethwaite 1217, Marilyn L. McCorsin 2464, Rudolph E. Lovato 2112, Gene Lloyd 2463, and Edna S. Baca 7221.

They cost, cost, cost...

Nation's Disabling Injuries Cause Staggering Dollar Loss

A shout of surprise and fear rang through the Tech Area recently drawing the attention of passersby to the roof of uncompleted Bldg. 836. A construction worker cried out as he was slipping from a scaffold. In a moment he plunged to the ground.

A group of fellow workers gathered around him and in a short time he was hustled off in an ambulance. Later it was reported he suffered cuts, bruises and shock. He also had hurt his back.

Such a short lived drama, resulting in a disabling injury, occurs on the average of once every three seconds. The cost to the nation in time lost, medical care, etc. is \$11,200,000,000 annually.

This cost does not pay for the injury's initial sharp flash of agony, the pains of recovering or the loss of earning power resulting from permanent injuries. It is impossible to put a dollar sign on this cost of disabling injuries.

Staggering Sum

Costs that can be determined come to the staggering sum mentioned above—11 billion, 200 million dollars. And these costs extend to everyone, injured or not. They result in higher prices, increased taxes, high medical expenses and loss of wages.

Consider just how much money this is:

It is equal to one year's net income of the 135 largest railroads,

utilities and corporations in this country.

It exceeds the total expenditures of the U. S. Navy for 1955.

It would clothe every man, woman, child in the nation for one year.

It would build 1,000,000 new single family homes.

It would build 300,000 new Class A schoolrooms.

It is enough to pay for three shots of Salk vaccine for every person in the world.

It would build 2,000 new 300-bed hospitals.

Indirect Costs

But even here the costs of disabling injuries do not end. There are indirect costs from employees stopping work out of curiosity or sympathy, to assist the injured person and to discuss the accident.

Supervisors must investigate the accident, arrange for the absent employee's production to be continued by others and to select, train and break in these replacement employees.

Other costs arise from the lowered production of the new em-

ployee and cost of material spoiled by him. Injuries frequently result in property damage, more expense.

Studies have shown that injuries result in excitement and lowered morale and these in turn cause more disabling injuries.

The indirect costs of some accidents never end. The machinist who loses his hands, the painter who loses his eyes, the farmer who loses his legs feel the financial losses the remainder of their lives.

Military Service Completed by Three

Three Sandians have returned recently after service in the armed forces.

William R. Martin (1264) had been with Sandia eight months when he was called into the Army service. After three months of officers' school at Fort Monmouth, N. J., he was assigned to Fort Gordon, Ga., as assistant adjutant of a signal battalion for three months. Bill's wife and young son accompanied him to his post.



Mr. Martin

Another returned employee is Roscoe Champion, who had worked at Sandia two years in Specifications Division (now 7422) when he reported for Navy duty. Now, three and one-half years later, he is with Electrical Systems Division (1263).

Roscoe made several cruises with a naval aviation squadron, including six months in the Mediterranean, and then was stationed at the Fleet Air Intelligence Training Center near Norfolk, Va. The Champions returned to Albuquerque with two sons—one just two months old.

Another Navy returnee is Roland Trehearne (3152-2), who also served three and one-half years. He had been with Sandia Corporation a year as an engineer in design and development when called in to service. His tour included cruises to Europe, Africa and two to the Pacific.



Mr. Trehearne

Sports Subjects Featured In Noon Movie Program

A wide variety of black and white films will be offered the coming two weeks during the Corporation's noon movie program.

Aug. 27-30 the offering will be: "Harlem Globetrotters," "Deep Sea Adventure" and "Sports Carnival in Madison Square Garden."

Sept. 3-6 the program will include: "Communism," "Artificial Respiration" and "What Makes a Good Party."

The movies are shown in the basement conference room of Bldg. 802 on Wednesdays and Fridays and in Bldg. 849 on Tuesdays and Thursdays. All shows start at 12:10 p.m. and are free.



DEMONSTRATING the "electronic watchdog" that he and Billy Ray (5222) built, Gene Bussey (1421) shows parents Bob (2462-1) and JoAnn Ferguson how the device will start a light blinking should their daughter Beverly cry during the night. Both parents have impaired hearing and appreciate the mechanical sentinel.

Electronic Watchdog Built By Sandians Helps in Rearing Child

Blonde, blue-eyed Beverly was an active healthy baby—a joy to her parents, Bob and JoAnn Ferguson. And they were conscientious parents. Since both had impaired hearing they spent the nights in shifts sitting up watching the baby in case she was restless or cried during the night.

Bob works in the Photo Section 2462-1 as a photo printer. He discussed his problem with the men in the Lab and as talked he got an idea. Since he and his wife woke up in the mornings to a flashing light rigged to an alarm clock, why not a device that would flash a light when the baby cried?

He investigated the idea but found no such device in commercial production. A price an electronics firm quoted to develop such a device was out of the question for Bob. He decided to build his own and went to the Library Section looking for information. His inquiries led him finally to Gene Bussey (1421) and Billy Ray (5222).

These two Sandians both long on electronic experience, found the idea challenging. With spare parts from their electronic hobby equipment, they put together a compact unit that did the job. It took a

couple of hours of planning time, a test of the equipment, and a Saturday afternoon to fabricate and install the unit.

Little Beverly is 18 months old now. Her parents sleep nights confident that the electronic watchdog will wake them if the baby needs them.

Disaster Instruction Cards Distributed To Sandia Employees

Wallet-size cards listing location of Reporting Centers for Sandia Corporation personnel in the event an evacuation of Albuquerque ever becomes necessary are being distributed to all employees this week. The cards also identify emergency signals and are to be issued to all adult dependents of employees.

Distribution of the cards is part of a Defense and Disaster Plan for evacuation and reassembly of Sandia employees and their families. Reporting Centers have been established at Gallup, Socorro, Tucumcari and Farmington containing radio and telephone communications equipment to speed the task of getting almost 7,000 employees in touch with their families.

By reporting to the centers, contact can be made with employees after Albuquerque has been evacuated. It will be the responsibility of each individual to report his or her location to a Personnel Reporting Center in order that information concerning the Corporation's plans to resume operations can be disseminated to all employees.

Distribution of the cards will be within Departments. If an additional supply of cards is needed, more can be obtained from Employee Services 3122.

The Defense and Disaster Plans are being developed into a comprehensive program providing for adequate alert signals, practical evacuation procedures and the reassembling of families and the assigning of employees to work locations for carrying on the work of the Corporation.

To Repeat Lecture Series on IBM 704

Plans are being made to repeat a recent series of lectures by David Karthaus (5126) on "Fortran"—the automatic coding system for IBM electronic data processing machine 704.

The first presentation of the series was for members of 5126 organization. Others in this work who are interested in hearing the lectures may call Ext. 27247 for information about a possible repeat of the talks.

Cartoonist Kinney Uses Humor To Emphasize Serious Side of Work

"Any Way You Look At It," a series of cartoons appearing in the pages of the Sandia Lab News recently, is the work of Cecil Kinney, technical illustrator in 2463.

Being funny is difficult, especially on a serious subject like security. But the more serious the subject the better a laugh can emphasize a point, Cecil believes.

"You have to cultivate a viewpoint," Cecil says. "Observe day-to-day happenings with the thought of injecting a humorous element. Most any situation can be enlarged to include humor."

Cecil has been cultivating a cartoonist's viewpoint ever since his college days on the campus of the University of Oklahoma. He was a regular contributor of cartoons to the college paper and to "Smoke Signal," campus humor magazine. He earned a Bachelor's degree in Fine Arts, graduated in 1950 and began employment with the Corporation in January of that year.

At Sandia, Cecil has contributed many cartoons to the Lab News and has illustrated numerous booklets and brochures. His most



Cecil Kinney, 2463

—Cultivating a cartoonist's viewpoint—

recent effort was the drawings for the "Welcome to Sandia" booklet and a similar publication for the employees at Salton Sea. This work is in addition to his regular assignment, technical illustration.

any way you look at it...



Scientific Authors

Sandia Employees' Technical Papers Read, Heard by Extensive Audience

Sandia Corporation scientists have been prolific authors recently with the publication of the following technical papers:

"Environmental Testing of Solderless Connectors," by J. A. Barber (1611) published by the Office of Technical Services, Department of Commerce.

"Applying Flexible Printed Circuits in Electronic Equipment Design" by George Volda (1416) published in July issue of Machine Design.

"Critical Survey of the General Limitations of the Nondestructive Testing Field" by D. W. Ballard (1624) in the July-August issue of The Journal of the Society for Nondestructive Testing.

"The Effects of Reflections from Randomly Spaced Discontinuities in Transmission Lines" by R. K. Moore, Sandia Consultant, in IRE Transactions on Microwave Theory and Techniques, April issue.

"A Precision Short-Length Wire Cutter" by J. A. Price and P. L. Kerley (both of 1413) in the July issue of Electronic Industries and Tele-Tech.

"The Trifilar Pendulum and Its Application to the Experimental Determination of Moments of Inertia" by G. W. Hughes (1215) published by the American Society of Mechanical Engineers, March 25.

Other Sandia authors will pre-

sent technical papers at various conferences and conventions. Among those scheduled are:

"A Power Method Measuring the Torque Producing Output of a Magnetic Amplifier Driving One Phase of a Two Phase Servo-Motor" by E. H. Bowman (1472) to be presented at a Special Engineers Conference of the American Institute of Electrical Engineers Sept. 4-6 in Pittsburgh, Pa.

"Tabulation of the Trivariate Integral" by G. P. Steck (5125) to be presented Sept. 10-13 at the annual meeting of the Institute of Mathematical Statistics in Atlantic City, N. J.

"Scale Model Study of Shock Mitigation at Ground Impact of a Parachute Retarded Vehicle" by W. D. LaCoss (5131) to be presented at the National Shock and Vibration Symposium Sept. 12-13 at Massachusetts Institute of Technology.

"Design Techniques for Technical Manpower Conservation" by M. C. Jones (1652) to be presented at Electronics in the Field of Nuclear session of the Mid-American Electronics Convention in Kansas City, Mo., Nov. 13-14.

"Pulse Generator Based on High Shock Demagnetization of Ferromagnetic Material" by R. W. Kulterman (5132) to be presented at the Conference on Magnetism and Magnetic Materials in Washington, D. C., Nov. 18-20.

New Weapon Effects Book Now in Library

Sandia Corporation's Technical Library has on hand for general circulation two copies of "The Effects of Nuclear Weapons," published by the AEC.

The book, edited by Samuel Glasstone, supersedes a previous publication, "The Effects of Atomic Weapons."

Personal copies of the new book may be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C., at \$2 a copy.

Women Bowlers Invited to Join Jewelette League

Women interested in becoming members of the Ladies Jewelette Bowling League are invited to attend an organization meeting at the Coronado Club, Tuesday, Sept. 3 at 7:30 p.m.

According to club secretary Lillian McCullar, league play will get underway Sept. 10 with play every Tuesday.

Only members of the Coronado Club can use the club's bowling facilities.

For additional information call Mrs. McCullar at Alb. 9-0638.

1400 Sews Up Top Spot in Softball League With 23-7 Victory Over 2500

Team 1400 clinched the championship of the Sandia Employees Softball Association last week by defeating 2500 23-7.

All question of the outcome of the game was settled as early as the second inning when a single by Gene Glaze started an onslaught of 7 runs. The rally was capped when a double by Victor Sirwinski brought in three runs.

In the sixth inning slugger Sirwinski homered with two on base. Before the inning ended 7 more

A single elimination tournament is underway this week with 1400 the favored team. Semifinals will be played Monday, Aug. 26, on Diamond B with games starting at 6:45 and 8:30 p.m. Final game for the tournament championship is scheduled Wednesday, Aug. 28, at 7 p.m. on Diamond B.

Teenage Cotillion For Base Dependents Scheduled Sept. 3

A Teenage Cotillion sponsored by the Sandia Base Women's Club is scheduled Tuesday, Sept. 3 from 7:30 to 11 p.m. at the Sandia Base Officer's Club. Teenage dependents of Corporation employees residing on Sandia Base or Wherry Housing and dependents of the Sandia Base Women's Club members are among those invited to attend.

The Cotillion will feature dancing and buffet refreshments. Admission will be 50 cents per person. Reservations may be made by calling Mrs. W. S. Hutchinson, ext. 32271, or Mrs. W. S. Isengard, Alb. 6-7533.

STANDINGS		
Team	Won	Lost
1400	14	2
1200	13	3
2100	11	5
3100	11	5
7400	11	5
AEC	11	5
2500	10	6
1600	9	7
2200	7	9
5200-1	7	9
7200	7	9
5500	6	10
4100	5	11
5100	5	11
2300	4	12
2400	3	13
5200-11	2	14

runs were in for 1400. League record for 1400 was 14 won and two lost. In second place was 1200 with 13 won and 3 lost. Four teams tied for third place — 2100, 3100, 7400 and AEC — with 11 won and 5 lost records.

Former Dorsey Band To Be At Club; Full Social Program Next Two Weeks

The late Jimmy Dorsey's orchestra, now conducted by Lee Castle, is the featured attraction at the Coronado Club next month. Tickets will go on sale to members Tuesday, Sept. 3.

The group will appear at the club from 8 to 12 Friday night, Sept. 13. Tickets for guest admission will go on sale Sept. 9. Cost to members will be \$2 plus tax, \$3 plus tax for guests.

Events for the next two weeks include a Social Hour tonight featuring the music of Jim Wilson and his combo, followed by an informal dance tomorrow night from 9 to 1 with Ray Giles and

his orchestra. Admission to the dance is 50 cents per member, \$1 plus tax per guest.

The Family Night movie Sunday stars Susan Ball, Victor Mature and John Lund in "Chief Crazy Horse," the saga of the Sioux leader who defeated Custer in battle.

An informal dance Saturday, Aug. 31, offers the music of Leigh Sprague and his orchestra.

A new event, starting the first week of September, is a Cribbage Nite beginning at 7 p. m. every other Wednesday. Admission is 50 cents a person.



CHAMPIONSHIP TEAM of the Sandia Employees Softball Association is 1400 shown here in a victory pose after beating 2500 23-7 last week. In the first row (L to R) are Ken Gillespie, Leo White, Gene Glaze, Lee Hogue, Joe Bradshaw and Art McMullen, manager. Standing are Chet Clyde, Charlie Blain, Bruce Johnson, Vic Sirwinski, Dean Yearout, Leland Allen and Frank Daut.

SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER	SHOPPING CENTER
<p>CLASSIFIED ADVERTISING</p> <p>Deadline: Friday noon prior to week of publication.</p> <p>RULES</p> <ol style="list-style-type: none"> 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. <p>FOR SALE</p> <p>BOB-TAILED KITTENS, rare Manx breed. Hakes, Alb. 6-2114, 405 Louisiana Blvd. SE.</p> <p>'50 KAISER TRAVELER, \$150. Davis, Alb. 9-3217 after 6 p.m.</p> <p>'56 STUDEBAKER 4-dr. sedan, 2-tone, automatic transmission, R&H, 16,000 actual miles, \$1695. Hitchens, Alb. 5-1974.</p> <p>MALE BEAGLE, AKC, \$30; 6-volt air compressor, 40 PSI, \$15; tape recorder, needs work, \$20; 100' 1/2" wire rope, \$10. Cole, ext. 31160, 645 San Pablo SE.</p> <p>'51 BUICK RIVIERA, 2-tone green, radio, heater, dynaflo, \$445. Schaefer, Alb. 9-2826.</p> <p>PRACTICE PIANO, \$100. Roane, Alb. 9-1761, 2909 Garcia St. NE.</p> <p>50'x135' LOT, zones 1R to 3R, 3404 Anderson SE. I'm building on adjacent lot, need cash. Make offer. Paved, utilities. Fegan, ext. 21278.</p> <p>SNOW RESALE, 3 br., den, screened patio, sprinklers, carpeting, air conditioned, beautifully landscaped. Cherb, Alb. 9-0949 or 5-8109, 9925 Leyendecker Rd. NE.</p> <p>GIRL'S BICYCLE, 26", \$25. Roof, Alb. 4-0687.</p> <p>'52 BUICK Tudor sedan, whitewalls, tinted glass, 49,200 miles. Open to offers, will consider trade. Ramirez, 1211 Copper Ave. NE, Apt. 8.</p> <p>'54 FORD PICKUP, 6 cyl., \$775. Also Rotahiller, \$250. Pritchard, Alb. 6-5667.</p> <p>BEAGLE PUPPIES, AKC registered, \$35. Hogue, 1435 Espejo NE, Alb. 9-1807.</p> <p>CLARINET, Pedler, used one year, half price, \$65, includes music stand, case and books. Pace, Alb. 9-5036, 1101 Clancy Dr. NE.</p>	<p>PLATFORM SCALES, new Fairbanks, capacity 1000 lbs., \$65. Davis, telephone Cedar Crest 9.</p> <p>'48 CHEVY TRUCK, 8 cyl., two ton, \$495 or will trade for pick-up in good condition. Redinger, ext. 35152, 3/R Ranch, Trieras, N.M.</p> <p>LIVING ROOM SUITE, light green, 2 piece, \$50 or best offer. Thomas, Alb. 9-3838.</p> <p>GAS RANGE, Norge, reasonable. Litz, Alb. 9-2886.</p> <p>DAVENPORT-BED, green, \$75; chair, green or tan, \$20. Goodman, Alb. 6-3781 after 3:30 p.m.</p> <p>MALE COLLIE, 8 months old, registered, housebroken, training started, \$25. Barker, Alb. 9-2365.</p> <p>BLUE COUCH, makes into a bed, and matching chair, \$50. Wanted: short-haired puppy. Brown, Alb. 4-3983.</p> <p>PORTABLE COOLER, large, white, used one week, less than half price, \$25. Thompson, ext. 22149.</p> <p>WALL TENT, 8'x10', heavy duck material, green, 6' 6" center poles, 30" side wall used three weeks, \$40. Brown, Alb. 9-5405.</p> <p>PIANO, Betsy Ross spinet. Howard, Alb. 5-7846.</p> <p>LADY SCHICK razor, aqua colored, nearly new, \$10. Southerland, Alb. 6-5865.</p> <p>'48 CADILLAC 62, 2-door, practically new tires and tailored seatcovers. Ideal second car for \$325 cash. Runyan, Alb. 5-6719.</p> <p>TWIN WASH TUBS, lightweight on rollers, metal lid, hose connections on drains, \$13. Cockrill, Alb. 6-5502.</p> <p>IRONER, GE table model, \$35. Connolly, Alb. 9-1517.</p> <p>FRIGIDAIRE RANGE, full size electric, 8 years old, \$40. Pennypacker, Alb. 8-2114.</p> <p>ADMIRAL TV, 17", complete with swivel table and rabbit ears, \$60. Liguori, Alb. 6-3613.</p> <p>SLEEPING BAG, all down, featherlight, could use cleaning and some stitching, but no tears, \$30. Ward, Alb. 6-5749 after 5:30 p.m.</p> <p>GAS STOVE, 1955 Ideal, 4 burners, large oven and broiler. Osborn, Alb. 5-0691.</p> <p>JAP RIFLE, .25 cal., will sell or trade. Roth, Alb. 3-0522.</p> <p>'55 CHEVROLET 2-dr. station wagon, R&H, overdrive, 29,000 miles, \$1395. Ross, Alb. 9-1526.</p> <p>'56 ALLSTATE SCOOTER with windshield, cost \$275, will sell for \$175. White, Alb. 9-3095.</p> <p>ENCYCLOPEDIA AMERICANA, 30 volumes; Popular Science, 10 vol.; Lands and Peoples, 7 vol.; new bookcase. Half of equity, take over payments. Costillo, Alb. 3-7088.</p>	<p>NEXT DEADLINE FOR SHOPPING CENTER ADS THURSDAY NOON, AUG. 29</p> <p>COMMUNICATIONS RECEIVER, HQ129X, 75 WCW transmitter; carload of Ham gear. Any offer over \$150 or will trade. none, Alb. 5-4811.</p> <p>PLEASURE HORSE, 3/4 Thoroughbred, gentle well-trained. Masterson, Alb. 4-1231, 2700 Rio Grande NW.</p> <p>DOUBLE BED, springs and mattress, \$20; studio couch, \$20. Weber, Alb. 5-6811, 3117 Madeira NE.</p> <p>'40 PLYMOUTH coupe, no additional outlay necessary to drive, \$49.50. Wallis, Alb. 6-4241, 6205 Bellamah NE.</p> <p>'50 FORD, R&H, 4 new tires, clean. Sandlin, Alb. 9-2828, 9521 Woodland NE.</p> <p>MOTOR SCOOTER, new motor, \$100. Buchanan, Alb. 9-7306 after 5 p.m.</p> <p>SOFA AND CHAIR, blue-green, \$45; Wur-litzer spinet piano, \$300; tank vacuum cleaner, \$15; maple dining furniture, \$175. Barnes, Alb. 8-1583.</p> <p>'47 CHRYSLER Royal 6, fluid drive, 4-door, R&H, nearly new tires, \$150. Reidel, Alb. 9-4460, 8707 Woodland Ave. NE.</p> <p>BANJO, tenor, Kay professional type, case, extra strings, \$45. Daut, Alb. 5-2529.</p> <p>20" BICYCLE, boy's Hopalong Cassidy model, thornproof balloon tires, \$18.50. Kubiak, Alb. 6-1513.</p> <p>AT-1 35 WATT XMTR, \$15; 522 VHF XMTR, \$5; 3480 receiver with internal AC power supply, \$35. Kent, Alb. 9-4129.</p> <p>SHOT GUN, Meridan 12 gauge, 30-inch double, boots, rubber hip waders, 16" high leather, size 9, best offer. Kodel, Alb. 6-0096.</p> <p>BABY BUGGY, \$10; baby bathinette, \$5. Stack, Alb. 6-1982.</p> <p>POLAROID CAMERA w/flash, light meter, new, \$50; chinchillas, mated pair, young, sell or trade for what have you. Baker, Alb. 5-7924 after 5.</p> <p>'51 STUDEBAKER, Starlite coupe, automatic transmission, R&H, priced to sell. O'Connell, Alb. 5-7924 after 5.</p> <p>GAS RANGE, Kenmore 42" deluxe 54, fully automatic, clock and grill in center or 5th burner, \$125. Sullivan, Alb. 6-7823.</p> <p>26" BICYCLE, girl's, \$15. Grey, Alb. 5-3470, 120 Pennsylvania NE.</p>	<p>'57 BUICK Special Riviera, two-tone, dynaflo, R&H, padded dash, WSW, windshield washer, 5000 miles, priced to sell. Gosser, 343 Madison NE.</p> <p>ELECTRIC RANGE, Kenmore deluxe, deep well, fully automatic, \$110 or trade for clothes dryer, motor scooter, diamond ring, etc. Hinds, Alb. 5-7671.</p> <p>REFRIGERATOR, 9 1/2 cu. ft. deluxe model, automatic defrost, \$100. Smith, Alb. 4-0126, 1018 Aztec NW.</p> <p>COLDSPOT REFRIGERATOR, must see to appreciate. Spencer, Alb. 3-0268.</p> <p>LIVINGROOM SUITE, 2-piece deep red mohair, make offer. Stricker, Alb. 6-3830.</p> <p>'56 MOTOR SCOOTER, Cushman, make offer. See at 7605 Euclid Ave. NE. Ouellette, Alb. 3-3248.</p> <p>'46 PICK-UP, International, metal bed. Miller, ext. 29233 noontimes.</p> <p>21" TV, Admiral, blond console, \$100; roll-a-way bed, mattress, \$20. Anaya, Alb. 6-6251.</p> <p>2 BR. HOME, near bases, special for one week only, total price, \$4750; \$575 down, \$55 month. Chavez, Alb. 2-1791.</p> <p>SPRINGFIELD RIFLE, .30-06, military stock, \$47; 3-speed, 22-inch window fan, \$30; folding accordion door, 8'x8", half-price, \$50. Shunney, Alb. 9-2787.</p> <p>DINETTE TABLE, drop leaf mahogany Duncan Phyfe, 36x50, \$20; blond dinette table, 36x40, w/leaf, matching chairs, \$30. Newman, Alb. 6-3295.</p> <p>1/2-TON FORD pick up, deluxe cab, late model, low mileage, \$1600 cash. Mahoney, Alb. 5-6017.</p> <p>'48 DODGE pick up, 1/2-ton, 4-speed transmission, \$295. Sullivan, Alb. 5-8070, 1408 Alvarado NE.</p> <p>TROPICAL FISH w/tank, \$6; red chair, \$28; boat, 17'x6' with trailer, trade for real estate or best offer. Villela, Alb. 6-2766.</p> <p>24" BICYCLE, girl's, \$12. Mancuso, Alb. 9-4279.</p> <p>DINING ROOM SET, 6-piece, mahogany finish, \$50. Chaves, Alb. 5-7749.</p> <p>2 BR. HOUSE, large expandable, large landscaped lot, choice south valley location, \$13,500, take over 4 1/2% loan. Amonette, Alb. 3-8928, 1827 Neat Lane SW.</p> <p>GAS RANGE, full size, \$35; lawn mower, \$5. Pollard, Alb. 8-1709.</p> <p>COLT, cap and ball, model 1851, 36 cal., 7 1/2" barrel, complete and original, trade for old rifles. Lane, Alb. 9-3962.</p> <p>REFRIGERATOR, Coldspot, 8 cu. ft., \$70; 17" TV console, \$85; mahogany bed, two chests, \$200; Hotpoint automatic washer, \$70. LeCompte, Alb. 5-3261 after 8 p.m.</p>	<p>35mm CAMERA, Clarus, f/2.8 Wollensak, 50mm lens, rangefinder, focal plane shutter, speeds to 1/1000, flash, filters, case, \$50. Davis, Alb. 5-8840.</p> <p>ELECTRIC RANGE, Westinghouse deluxe 42", two ovens, four surface units (automatic, high speed, deep well, large), \$175. McGehee, Alb. 6-3486.</p> <p>UNDERWOOD PORTABLE, with carrying case, excellent condition \$50; 3-gal. pump-type sprayer, \$6. Sherwin, Alb. 5-8866.</p> <p>WANTED</p> <p>BUTANE TANK, large. Tiley, Alb. 6-8110.</p> <p>FIREPLACE ACCESSORIES, preferably brass plated. Garcia, Alb. 2-1182.</p> <p>GIRL'S SIDEWALK bike, size 14" or 16". McCullar, Alb. 9-0638.</p> <p>MOVIE PROJECTOR, 16mm sound; also slide projector for 3 1/2 x 4 standard lantern slides as well as 35mm slides. Ballard, Alb. 9-4530.</p> <p>TO TRADE two 1/2 h.p. motors for one 1/2 h.p. Gabaldon, Alb. 9-5901.</p> <p>BABY CARE in my home, days, age six weeks to 1 year, graduate child nurse, 20 years experience. Shaw, Alb. 8-1492.</p> <p>TO TRADE '57 Chevy 1/2-ton pick up, 3 speed, for '54 Chevy auto on even equity. Skelley, Rt. 1, Box 354, Los Lunas, New Mexico.</p> <p>GOOD HOME (not our own) for sleek, short-haired pure black female kitten. Tatum, Alb. 2-9021.</p> <p>GARAGE for storage of household belongings; prefer NE or SE Yale to Carlisle area. Olheiser, Alb. 3-0819.</p> <p>TO TRADE Coldspot refrigerator, large, for apartment size refrigerator. Mercer, ext. 32244.</p> <p>FOR RENT</p> <p>LARGE ROOM in private home, morning kitchen privileges, gentleman preferred, \$40 month. Atkinson, Alb. 5-4570.</p> <p>MOUNTAIN COTTAGES, modern, 1 bedroom, on North 10; one house trailer space; rent, \$55 cottages, \$15 trailer space. Souder, ext. 3-4161.</p> <p>FURNISHED ROOM for employed person in new home; private bath and entrance, garage, Nob Hill section SE. Roberts, Alb. 5-2001.</p>

Small boy's dream...

Giant Rubber Bands Snap New 'Slingshot' Accelerator

A giant device utilizing the principle of a small boy's slingshot is the newest environmental test facility in Sandia Corporation's Area III.

The instrument will duplicate shocks and accelerations a nuclear weapon might undergo in a plane during catapult launching, arrested landings on an aircraft carrier, during strenuous and severe flight conditions, or shocks inherent in transportation and handling.

The Shock Cord Accelerator, known as the "Slingshot" by its

designers, was put through its performance paces this month under the direction of project engineers R. L. Ault (1612) and H. D. Sivinsky (1613). Actual testing of weapons will begin shortly according to Max McWhirter, leader of Dynamic Test Section A, 1612-1. Responsibility of designing and developing the Slingshot was shared by this section and Design Section B, 1613-2, under M. R. Madsen.

Force 480,000 Lbs.

The principle of a slingshot, including the stretching of rubber bands for power, is used in the new facility. One thousand shock cord loops, actually compressed elastic bands wrapped with cotton braiding, will supply up to 480,000 lbs. of force and generate accelerations up to 54 times the pull of gravity. The shock cord loops are 5/8 inch in diameter and are 20 ft. long.

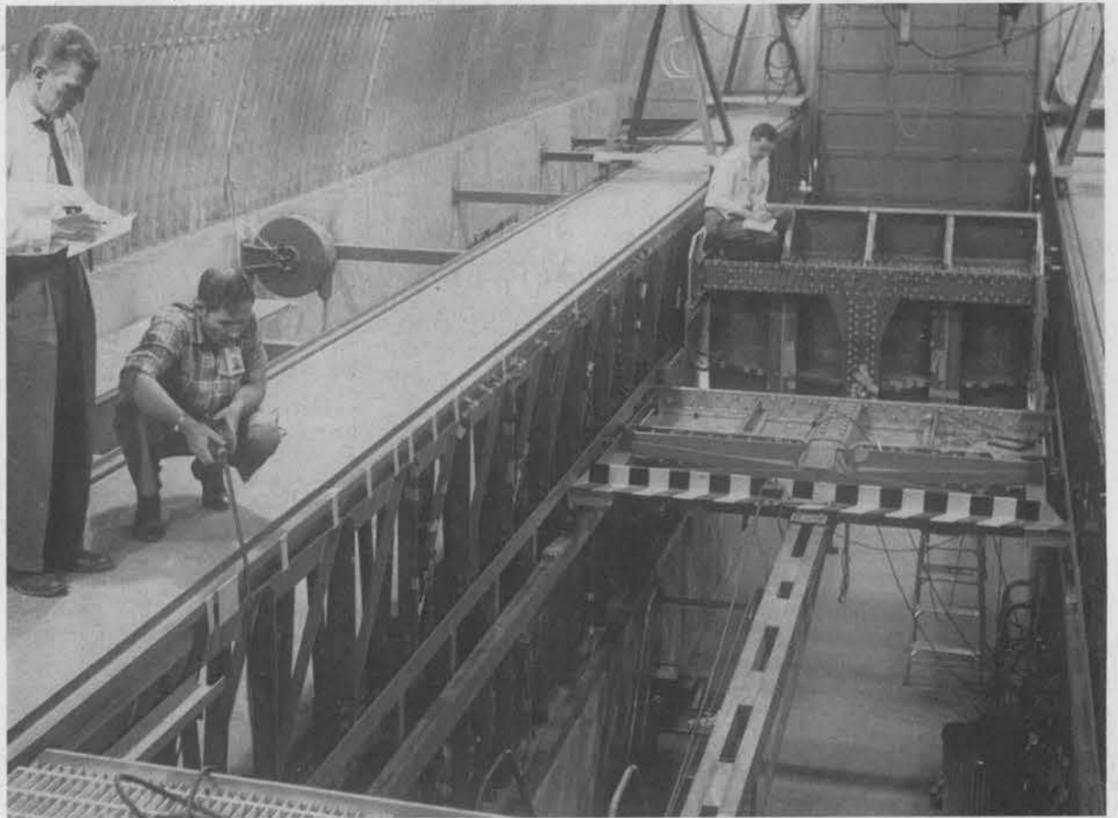
Hydraulic cylinders utilizing the pumps from the nearby Centrifuge installation supply the means of stretching the shock cords. The cylinders are attached to a pusher beam which in turn is attached to the shock cords. Resting on a 120 ft. track and in contact with the pusher beam is the cart which carries the test unit. When the pusher beam is released with an explosive actuated release mechanism, the cart shoots down the track.

Electric Brakes

Electric brakes in a cable drum stop the cart while the pusher beam slams into a stop mechanism mounted on the track. This stop mechanism is movable and its position on the track controls the duration of tests.

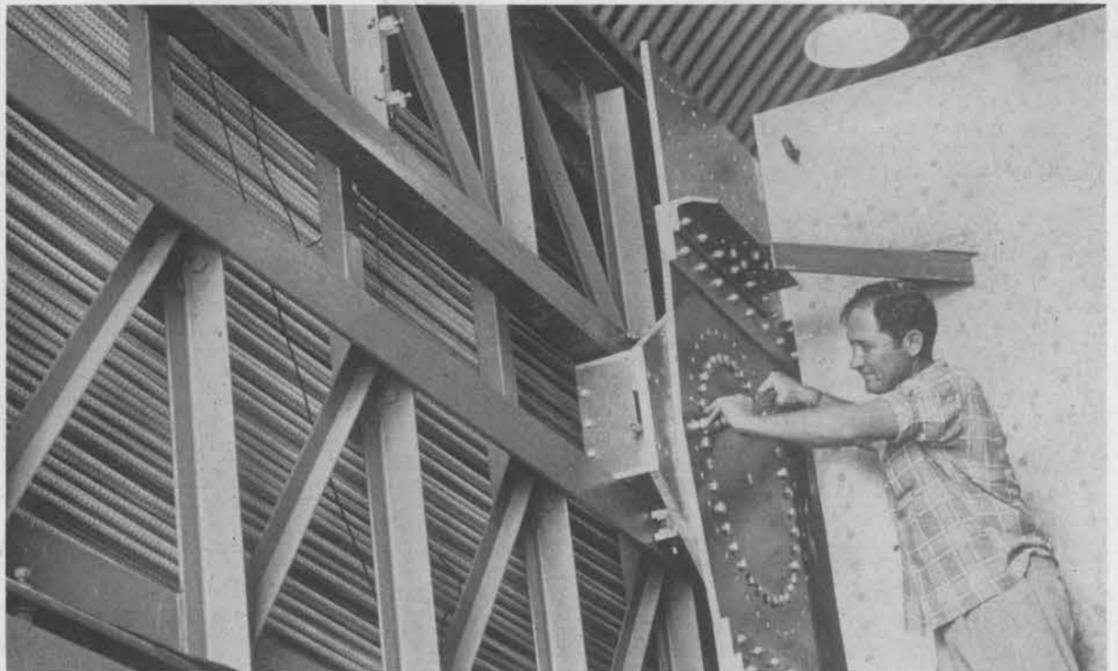
The building which houses the "Slingshot" is partially underground, constructed of steel and reinforced concrete and includes several levels for the facility and access areas. Giant doors on the south end of the facility open during a test, since the rails of the track run almost the entire length of the building plus 40 feet beyond.

Also instrumental in the design, fabrication and proof-testing of the facility have been R. L. Hager, L. P. Navoda, R. F. Harlan, H. J. Blechinger, W. C. Clark and B. W. Duggin (all of 1612); M. O. Jones and W. T. Owens (1613); and K. V. Atkisson (7412).



FINAL INSPECTION of the new "Slingshot" test installation is performed by (L to R) M. R. Madsen (1613-2), Bill Owens (1613-4) and Max McWhirter (1612-1). Max is sitting on the cart that would con-

tain the test unit. In the pit is the pusher beam which stretches the shock cords. The cords are mounted inside the structural walls on each side of the pit and are not visible in this photo.



TWO BANKS of shock cords supply the power for acceleration tests in the new "Slingshot" test in-

stallation in Area III. Operator Bill Owens (1613-4) adjusts the ring bolts where the test unit will ride.

Issue Caution On Discussion Of News Articles

Sandia Corporation employees are being cautioned to avoid discussion of newspaper articles which might involve classified information.

From time to time information appears in newspapers which employees recognize as relating to Sandia operations and which may not have been released through official channels. In such cases, Sandia Corporation Security Department advises, it is wise to refrain from discussing the article in question with people outside of the project until official verification of the information and its releasability is received.

It is contrary to AEC policy to either confirm or deny published reports of unofficial or speculative nature which might involve classified information.

Publication of information previously classified does not constitute "declassification" of the material and should not be regarded as justification for down-grading the classification of official documents pertaining to the activity in question.

Hospital Insurance Plan Approaching Good Financial Basis

Equitable Life Assurance Company, Sandia Corporation Hospitalization - Surgical Insurance Plan carrier, recently announced that for the policy year ended April 30, 1957, premiums received amounted to \$381,169.08. Claims paid totaled 89.1 per cent of the amount taken in, or \$339,317.28.

Last year, when the \$35 deductible feature was not in effect, claims payments were 106.8 per cent of the amount received by the Insurance Company in premiums.

The new figures indicate that the Hospitalization Plan is approaching a healthy financial condition as a result of the \$35 deductible feature.

The difference between claims paid and premiums received is divided between operating and administrative costs and establishing legally required reserve funds.

Four Sandia Scientists Finish Assignments at Research Institute

Four Sandia Corporation scientists (all 5133) recently returned from assignments at Stanford Research Institute, Palo Alto, Calif., where they directed studies in radiation effects research with SRI personnel.

Irving Auerbach directed work in the radiation of polymers by electrons from a resonant transformer source and gamma rays from SRI 10 kilocurie cobalt source.

Herman Stein and Dick Berner were initiating investigations in the effects of radiations on semi-conducting materials.

Asher Kantz was directing neutron bombardments utilizing a 2 Mev Van de Graaff accelerator. Work on various solid state materials was initiated.

Sandia Corporation Evening School Schedule

COURSE	DAY	TIME	BLDG. RM.	INSTRUCTOR	PREREQUISITES
Blueprint Reading, Mechanical Sec. A	Monday	7-8:30	849 2	W. V. McGuire (7412)	Arithmetic through fractions and decimals
Blueprint Reading, Mechanical Sec. B	Monday	4:45-6:15	849 2	A. Russell (7412)	
Mechanical Measurements, Elementary*	Wednesday	7-9	849 1	K. R. Dickerson (3124)	Arithmetic through fractions and decimals
Electronics I Sec. A (Lecture)	Tuesday	4:45-6:45	849 3	R. L. Davis (1452)	None
Electronics I Sec. B (Lecture)	Thursday	7-9	849 3	R. A. Mikkelsen (7111)	None
Electronics I* Sec. A (Laboratory)	Monday	4:45-6:45	833 —	R. L. Davis (1452)	Previous or concurrent enrollment in Electronics I
Electronics I* Sec. B (Laboratory)	Tuesday	7-9	833 —	C. W. Allen (7113)	Lecture
Electronics I* Sec. C (Laboratory)	Wednesday	7-9	833 —	F. I. Magee (7113)	
Electronics I* Sec. A (Lecture-Lab Combination)	Saturday	8-12:15	833 —	C. R. Blaine (1456)	
Electronics II Sec. A (Lecture)	Monday	4:45-6:45	849 3	R. T. West (1215)	Knowledge of subjects covered in Electronics I
Electronics II Sec. B (Lecture)	Tuesday	7-9	849 3	M. A. Elich (7113)	
Electronics II Sec. C (Lecture)	Wednesday	7-9	849 3	L. R. Ptacek (1452)	
Electronics II* Sec. A (Laboratory)	Tuesday	4:45-6:45	833 —	B. Johnson (1611)	Previous or concurrent enrollment in Electronics II
Electronics II* Sec. B (Laboratory)	Thursday	4:45-6:45	833 —	L. R. Ptacek (1452)	Lecture
Electronics II Sec. A (Lecture-Lab Combination)	Saturday	8-12:15	849 3	L. D. Watkins (5242)	
Electronics III Sec. A (Lecture)	Thursday	4:45-6:45	849 3	N. A. Cordova (2131)	Knowledge of subjects covered in Electronics II
Electronics III* Sec. A (Laboratory)	Monday	7-9	833 —	A. F. Lawrence (1614)	Previous or concurrent enrollment in Electronics III
Electronics III* Sec. B (Laboratory)	Wednesday	4:45-6:45	833 —	N. A. Cordova (2131)	Lecture
Electronics IV Sec. A (Lecture)	Monday	7-9	849 3	W. B. Maxson (3124)	Knowledge of subjects covered in Electronics III
Electronics IV* Sec. A (Laboratory)	Thursday	7-9	833 —	W. B. Maxson (3124)	Previous or concurrent enrollment in Electronics IV

* Enrollment limited to 24