

The Redstone Rocket

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VOL. VII; NO. 42

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

FEBRUARY 25, 1959

ABMA Provides More Funds for Pershing Work

The Army Ballistic Missile Agency has provided \$1,178,246 in additional funds to the Martin Company for continuation of development work on the Pershing Ballistic Missile System.

The contract was negotiated by the Birmingham Ordnance District.

Construction of Pershing launching facilities is underway at Cape Canaveral, Fla., where the Army Ordnance Missile Command conducts test firings of the big missile systems and space vehicles for which it is responsible.

The Pershing system will eventually replace the liquid fueled Redstone Ballistic Missile, the Army's largest and most potent weapon. Pershing will be a solid propellant missile, lighter and more mobile than the Redstone.

SCOUT CAMPOREE SLATED ON POST

In conjunction with National Boy Scout Month, the Redstone Arsenal Boy Scout Council will hold a camporee on the Arsenal, Saturday and Sunday, Feb. 28 and March 1.

Participating units will be Troops 234 and 203, Air Explorer Post 234, and members of the Madison County Order of The Arrow (Scout honorary camping society).

The camporee will be held off Hansen Road approximately one and one-half miles from Patton Road. It will start about 10 a.m. Saturday and end at 5 p.m. Sunday.

Approximately one hundred boys, all dependents of Arsenal military personnel, comprise the two troops and the Explorer Post. Troop 234 has its headquarters at Squirrel Hill and draws its membership from the Capehart and Wherry Housing Areas. Its Scoutmaster is Lt. Laurence Smith. Troop 203 is headquartered in the Redstone Park Housing Area and is led by Pfc. Al Daniels. The Explorer Post is composed of boys from the entire Arsenal. SP4 Bob Gordon is the Post Adviser.

All scouting activities on post are sponsored by the Joint Activities Council headed by Col. Harry C. McClain, Post Surgeon.

Saturday morning and afternoon the boys will prepare their camp site and pioneering displays and participate in scouting skills and athletics. Saturday night the Order of The Arrow will have a ceremonial camp-fire and program. (See CAMPOREE on Page 2)

COMMUNICATIONS CLINIC SLATED

(Photo Inside)

Top communications experts from throughout the nation are leading discussions during a two-day Communications Clinic sponsored by the Army Ballistic Missile Agency at the Rocket Auditorium at Redstone Arsenal yesterday and today, according to Walt Wiesman, Communications Advisor of the ABMA personnel office.

Industries and organizations from the area are represented at the Clinic. Huntsville representatives from the following organizations slated to attend the clinic are: The Martin Co., Brown Engineering Co., Reynolds Metal Co., General Shoe Corp., Hayes Aircraft Corp., Huntsville Manufacturing Co., Ford Instrument Co., City of Huntsville Utilities, Chrysler Corp., Rohm & Haas Co., and General Electric.

Other attendees are from Valley Pride Packing Co., B. G. Goodrich Aviation Products, Martin Stamping and Stove Co., and the Alabama State Employment Service. A representative from the Office of the Chief of Ordnance, Earl Masincup, is also attending. Raymond Bouchard, who has developed company-wide program. (See CLINIC on Page 2)



COL. GERVASE L. BARNHILL

* * *

Col. Barnhill Assigned As Director of ABMA's Field Support Division

Col. Gervase L. Barnhill has been assigned as Director of the Field Support Division at the Army Ballistic Missile Agency.

Col. Barnhill was formerly Assistant to the Chief of Staff, Army Section, Joint U. S. Military Mission for Aid to Turkey.

He entered the Army in 1941 following his graduation from the University of Tennessee with a degree in chemical engineering. He also holds a Master's degree in metallurgical engineering from Stanford University.

During his service career, Col. Barnhill has completed tours of duty with the Army Air Corps Training Command, Ft. Worth, Tex. and Maxwell Field, Ala.; the 2nd Marine Air Wing, Okinawa; the Air Ordnance Office, Headquarters, U. S. Army Air Corps, Washington, D. C.; Ft. Louis, Washington; and the 2nd Infantry Division, Korea.

Prior to his assignment with the Military Mission in Turkey, he was an ROTC instructor at Oklahoma State College for three years. (See COL. BARNHILL on Page 2)

Two Units Have 100 Per Cent Membership In AFGE Lodge 1858

E. L. Lowther, President of RSA Lodge 1858, American Federation of Government Employees, announces that employees in Assembly Shop No. 2, Bldg. 4706, Fabrication & Engineering Laboratory, ABMA, are 100 percent organized in the Lodge. Charles H. Nipper, Chief Shop Steward, is credited with this work.

Also, employees of Bldg. 7115, Depot Div., RSA, are 100 percent organized in the lodge. James Holland Chief, Shop Steward, was instrumental in this accomplishment, Lowther said.

\$40 MILLION SET BY NASA FOR ARMY SPACE JOBS

The National Aeronautics and Space Administration has budgeted to the Army approximately twenty million dollars for space assignments during the current fiscal year, and another twenty million during the fiscal year which begins July 1, 1959.

This was made public by Dr. T. Keith Glennan, NASA administrator, in testimony before a Senate space subcommittee last week.

Projects listed for the Army included a 100-foot inflatable sphere satellite, and several Juno II boosters which will be used in satellite and space probe projects.

Florida College Honors Scientists

Dr. Von Braun Given Gold Medal; Three Others Get Degrees

Dr. Wernher von Braun was presented the Hamilton Holt Gold Medal for distinguished service to humanity at Winter Park, Fla., Monday during Founders Week program of Rollins College.

Dr. von Braun, director of the Development Operations Division of ABMA, was praised by the institution's president, Dr. Hugh F. McKean, for his "service to the forces dedicated to world peace." The Holt Medal honors the memory of the late president of Rollins College.

Three ABMA scientists were awarded honorary Doctor of Science degrees at the same ceremony "in recognition of the genius they have shown in helping maintain America's pace in missile development and bring about the advent of the Space Age."

They are: Eberhard F. M. Rees, Deputy Director, Development Operations Division; Fritz K. Mueller, Deputy Chief, Guidance and Control Laboratory; and Arthur Rudolph, Pershing Project Director.

In presenting the Holt Medal, Dr. McKean described Dr. von Braun with such glowing phrases as, inventor, extraordinary breaker of barriers, penetrating mind of the Space Age, master of mysteries and powers as yet beyond the grasp of ordinary man, bulwark of this nation against the threat of hostile opponents. "It is with an unusual sense of privilege," Dr. McKean said, "that I award you the Hamilton Holt Medal in recognition of your service to those forces which are dedicated to world peace."

He described Mr. Rees as "director of scientific research, brilliant innovator in the development, fabrication and testing of scientific material, alter ego of" (See FLORIDA on Page 2)

AT MEETING HERE

Project Mercury Plans Set Forth

Detailed plans for the early phases of the National Aeronautics and Space Administration's manned satellite, Project Mercury, were set forth at a meeting of scientists and engineers at Redstone Arsenal recently.

The conference was attended by 50 representatives of NASA, the Army Ballistic Missile Agency, the Army Ordnance Missile Command, and McDonnell Aircraft Co., St. Louis.

Dr. Wernher von Braun, Director of Development Operations at ABMA, was host chairman.

NASA has assigned ABMA several launchings in the Mercury project using Redstone and Jupiter ballistic missile boosters. Both of these missiles were developed by ABMA.

McDonnell Aircraft was recently assigned the job of developing the capsule which will carry the first American into outer space in a missile.

Max Faget of NASA, Mercury project engineer, announced the formation of six working panels, composed of personnel from all three organizations, to carry on the various aspects of the intricate project.

The panels will be concerned with such areas as range safety, design integration, and countdown and checkout procedures.

ABMA, as supplier of the boosters, is responsible for checking

out and launching the vehicles. The boosters will be employed in the first stages of the program to fire capsules over ballistic trajectories.

Plans are being made to recover both the capsule and the missile booster.

ABMA's portion of the program will be coordinated by Dr. Joachim Kuettner, project engineer of the Agency's Structures and Mechanics Laboratory. John Yardley is in charge of the McDonnell participation.



CAPT. SHEPARD B. NEWELL

* * *

CAPT. NEWELL NAMED ARGMA EXEC OFFICER

Capt. Shepard B. Newell has been assigned as Executive Officer at the Army Rocket and Guided Missile Agency.

Capt. Newell had served as Assistant Executive Officer since June, 1957.

He entered the Army as an enlisted man in 1941, completing basic training at Camp Wheeler, Ga. He returned to civilian life in 1945 and re-entered the Army in November 1947.

The following three and a half years he was stationed at the Birmingham Military District, Birmingham, Ala. In May 1951 he received his commission as an officer and was transferred to Redstone Arsenal, where he served as Post Adjutant, Administrative Inspector, and Aide to the Commanding General.

From November 1954 until March 1956 he served in Korea as Adjutant with the 59th Ordnance Group, U. S. Eighth Army. Upon his return to the United States he was once again assigned at Redstone Arsenal, first with the Arsenal's Adjutant's Office and later as a student at the Ordnance Guided Missile School.

During his service career, Capt. Newell has received the Good Conduct Medal. (See CAPT. NEWELL on Page 2)

Maj. Young Assigned To Post With AOMC

Maj. Willard W. Young is serving as Deputy Command Staff Judge Advocate at the Army Ordnance Missile Command.

Maj. Young was formerly with the office of the Deputy Chief of Staff for Logistics, Department of the Army, Washington, D. C. He entered the Army in 1943, completing Officers Candidate School at Ft. Benning, Ga. During his service career he has served overseas in Hawaii and Puerto Rico.

He is a graduate of Huntsville High School and received his LL.B. degree from the University of Georgia in 1948. He and his wife, have three children, Michael J., Ellen J., and Margaret H.

'MISS NATO' TO BE PICKED

Ceremony to Mark NATO's 10th Birthday

"Miss NATO" and 15 other Huntsville girls, representing the individual countries of the North Atlantic Treaty Organization, will participate in an international ceremony planned for Huntsville on April 4, in commemoration of the tenth anniversary of the signing of the NATO pact.

The girls were chosen from 40 contestants Thursday night at Huntsville High School auditorium by Leon Van Leeuwen, chairman of the NATO Celebration Committee, and the senior officers of the NATO forces now training at the Ordnance Guided Missile School.

The NATO "queens" and their respective countries are: "Miss NATO," Anna Gene Clift, daughter of Mrs. Annie M. Clift, 419

Eustis Avenue, S.E.; Belgium, Judy Chandler, daughter of Mr. and Mrs. Barry Chandler, Jr., 312 White Circle; Canada, Salley Fleming, daughter of Mr. and Mrs. Walton Fleming, 3607 Whitesburg Drive; Denmark, Judy Weber, daughter of Mr. and Mrs. Raymond G. Weber, 1302 Cleermont Drive; France, Linda Lambert, daughter of Mr. and Mrs. Okey D. Lambert, 217 Longwood Drive; West Germany, Susan Kinzer, daughter of Mr. and Mrs. Marvin D. Kinzer, Jr., 305 Lincoln Street; Italy, Carole Gingrich, daughter of Mr. and Mrs. John L. Gingrich, 4201 Saundralane Drive; Iceland, Martha Askins, granddaughter of Mrs. Frank Powell, Route 2.

Great Britain, Kay Rodenhaus-

er, daughter of Mr. and Mrs. Paul Rodenhaus, 407 Franklin Street; Greece, Diane Freeze, daughter of Dr. and Mrs. James M. Freeze, 1611 Governor's Drive; Luxembourg, Martha Cuthill, daughter of Mr. and Mrs. Robert W. Cuthill, 1402 Sierra Drive. The Netherlands, Judy Bullard, daughter of Mr. and Mrs. W. T. Bullard, 2617 Bonita Circle; Norway, Betty Smith, daughter of Mr. and Mrs. Robert T. Smith, 2305 Poincianna St., S. W.; Portugal, Sandra Parsley, daughter of Mr. and Mrs. Charles O. Parsley, 2020 Polk Drive; Turkey, Pat Quick, daughter of Mrs. William M. Quick, 1015 Harrison Avenue, S. E.; and United States, Marcia Saffell, daughter of Mr. and Mrs. (See CEREMONY on Page 2)

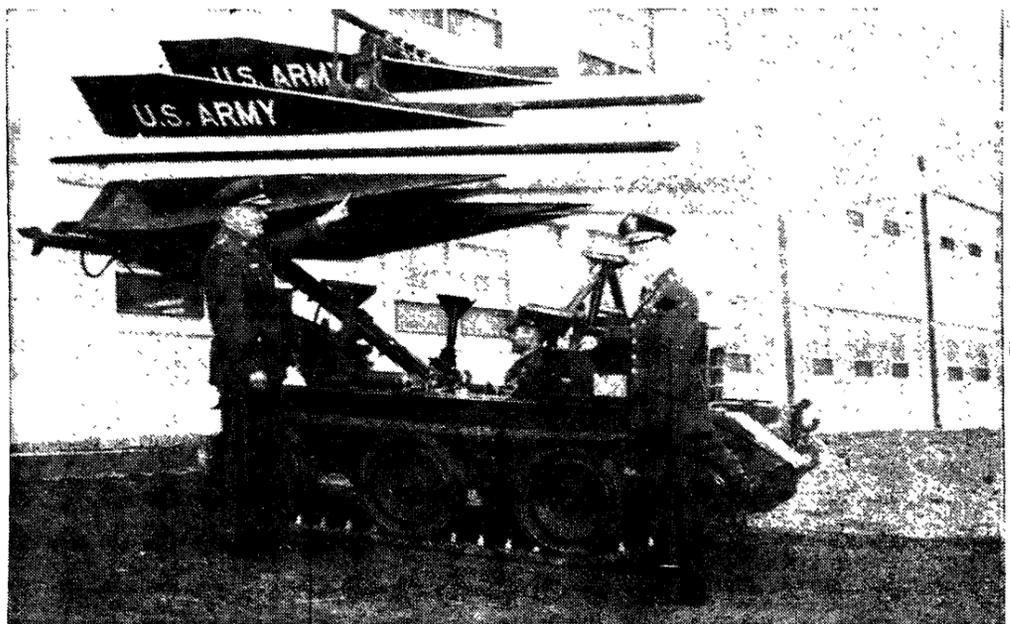
The Redstone Rocket

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NEW MISSILE—Lt. Col. W. T. Gilbert, head of the Surface-to-Air Missile Division of the Ordnance Guided Missile School, and Maj. R. W. Snyder, chief of the School's Hawk Training Branch, inspect the Hawk missiles just delivered to them for the start of training in the newly-developed anti-aircraft missile. The caterpillar-type vehicle is used to load the missiles onto their launcher after they have been assembled and checked out. Ten American men and two Canadian officers were enrolled in the first Hawk class at the Alabama "Space Academy" recently.



RAYMOND BOUCHARD
Communications Expert

Clinic

(Continued From Page 1)
rams for General Electric for the past several years, discussed "The Potential of Communication." Bouchard has recently provided public relations counsel for the Standard Oil Company and the American Meat Institute.

Harry C. Wardle, who discussed the operation of a communications program during the Clinic, has done public relations work with the United Fund and the Parents March on Polio Committee.

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Ceremony

(Continued from Page 1)
Donald H. Saffell, 713 School St. Chosen as alternates were Diane Braden, daughter of Dr. D. D. Braden, 2412 Whitesburg Dr., Joyce Askew, daughter of Mrs. Ruby Askew, 710 Cross Street, and Beverly Brown, daughter of Mr. and Mrs. Dallas D. Brown, 1416 Pratt Avenue.

Van Leeuwen said the girls will join with boys from the OGMS NATO countries in a ceremony highlighted by the singing of the NATO song, written especially for the occasion. Portions of the program will be featured as part of a nationwide telecast being planned by a major network.

Through the ceremony, Van Leeuwen says the celebration committee hopes to show the people of Huntsville and Redstone Arsenal the historic mission of NATO and the reason for the training of the European students at OGMS.

A joint civic-military committee is being formed to map further plans for the April event.

The development of communications ideas was discussed by Wayne L. Hodges, professor at the New York State School of Industrial and Labor Relations, Cornell University.

A newsmen who has covered Congress, the White House, and the State Department for a major wire service from 1939 to 1946, Robert E. Vivian, participated in the Clinic panel discussions. Also on the panel was Morris T. Hoverson formerly with U. S. News and World Report and Newsweek Magazine.

General sessions were held from 8:30 a.m. to noon and written communications from 1 to 4:30 p.m. yesterday. Oral communications sessions were scheduled from 8:30 noon today.

Florida

(Continued From Page 1)

Dr. Wernher von Braun. . . In recognition of your unreserved and unstinted service to this nation, and thereby to the bastions of peace and international order," Dr. McKean said, "it is my privilege to confer upon you the degree of Doctor of Science and to invest you with the privileges and honors appertaining thereto."

In bestowing the degree upon Mr. Muller, the college president praised him as "master of scientific intricacies that confound and bemuse the minds of men, possessor of a high level of competence in a broad range of scientific disciplines that have aroused the enthusiasm of your peers."

Mr. Rudolph was termed "maker of missiles, genius of management of men and of power, coordinator of vast systems of men materials and of institutions devoted to their development, mastermind of science, engineering and management. . . Rollins College today would recognize your unstinted contribution to the safety and security of our country."

Dr. van Braun and his three deputies described a 520 day round trip to Mars to more than 1,000 Rollins College students and guests Sunday. The scientists were featured in the school's 32nd annual "Animated Magazine." The imaginary expedition was based on Dr. von Braun's book "A Trip to Mars"

Col. Barnhill

(Continued from Page 1)
years and spent a year at Aberdeen Proving Ground, Md., serving as Assistant Chief of Staff for Operations and Training, Assistant to the Chief of Staff, and Executive Officer to the Commanding General.

He has received the Bronze Star, the Purple Heart and the Croix-de-Guerre (French).

Col. and Mrs. Barnhill reside on post with their three children: Stephanie, age 9, Bruce, age 7, and Roger, age 5.

Civilian

(Continued From Page 1)
exposure in the ammunition loading industry.

"Although other industries have compiled records of considerably over 5,000,000 man-hours, the record here would be considered a very fine performance in any industry anywhere," Albright said. "This very fine record should be called to the attention of all Redstone Arsenal personnel "and everyone should be encouraged to continue their safe work performance toward a compilation of 10,000,000 man-hours without a disabling injury."

Camporee

(Continued From Page 1)

ram for the Scouts and Explorers. Sunday morning, Chapel services will be held at the camp site. Sunday afternoon the boys will hold open-house from 2 to 4.

A court of honor and demonstrations of first aid, signaling and camping skills will also be held at this time.

All activities will be graded on a competitive basis to pick the honor patrol of each troop.

The Scouting Council has extended an open invitation to all military personnel and Arsenal employes to visit the camporee and see the Scouts in action.

Capt. Newell

(Continued From Page 1)

Conduct Medal, the World War II Victory Medal, the American Defense Service Medal, and the National Defense Service Medal.

He is a member of the Masonic Lodge (Helion) at Huntsville, and the American Ordnance Association. He and his wife, the former Avhlee E. Whetstone, reside on the post with their two children, Shepard B. Newell II, who is two years old, and Ronda M. Newell age 10.

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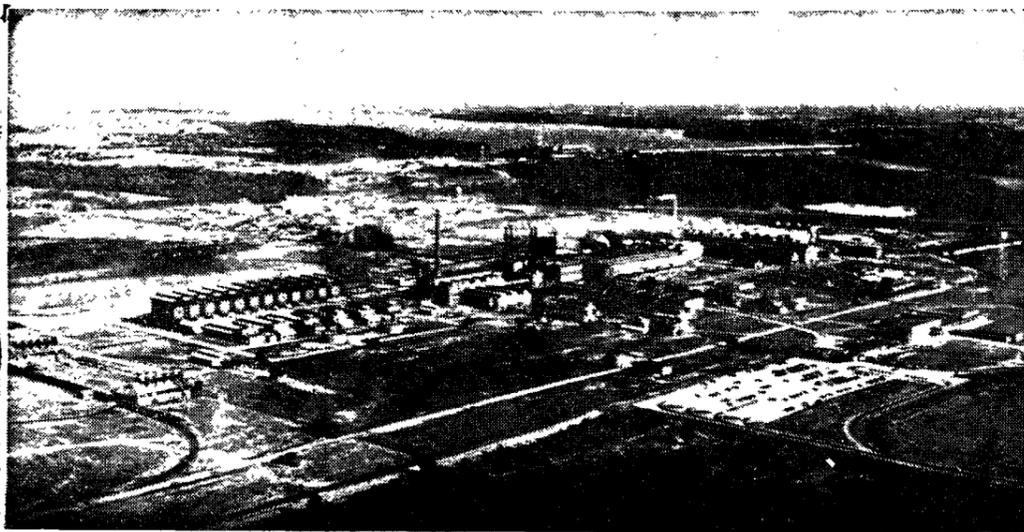
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AIR VIEW of Tennessee Valley Authority Fertilizer-Munitions Development Center at Muscle Shoals, Ala., is shown above with Wilson Dam in background. These properties were constructed during and following World War I and were assigned to TVA in 1933. The chemical plant has been modernized for the development of new fertilizers that are more economical to the farmer as applied to the soil. National defense needs also are served by these facilities.

* * * * *

TENNESSEE VALLEY AUTHORITY IS KEY MEMBER OF INTERSERVICE COMMITTEE ON TECHNICAL FACILITIES

(Editor's note: The following article is one in a series on organizations which comprises the membership of the Interservice Committee on Technical Facilities (ISCTF), Southeastern U. S. Chairman of the committee is Charles L. Northrup, Chief of the Systems Test Branch, Test and Evaluation Laboratory, Ordnance Missile Laboratories Division, Army Rocket and Guided Missile Agency.)

The Tennessee Valley Authority, a member of ISCTF, was created to supplement the efforts of a region to develop its total resources for the benefit of the area and the Nation. Its mission was and continues to be to bring into balance the utilization of resources.

During the last century, this unity of effort has resulted in a river under control; interregional commerce; in electric energy for farms, homes, factories, and defense installations; in revitalized soil and restored forests; in increased agricultural and industrial production; in the development of a great recreational asset; in increased economic well-being within the region; and a major contribution to the industrial and defensive strength of the Nation.

Today, the Tennessee River is the world's most fully developed and regulated river system. Thirty-one dams strategically placed

in the system give TVA engineers an almost fingertip control of the tremendous quantity of water that finds its way into the reservoirs behind the dams.

Since 1936, when TVA began reservoir operations with closure of Norris Dam, \$119,500,000 has been saved through flood damage averted at Chattanooga, Tenn. Additional millions have been saved elsewhere in the Valley and in the lower Mississippi Valley. To date, directly traceable savings in flood damage averted is more than \$131 million.

The Tennessee River waterway is always maintained at an 11-foot depth or more to allow navigation for vessels of 9-foot draft. Since 1933 commercial freight traffic on the Tennessee River has increased from 33 million ton-miles to more than two billion, from 940,000 tons to more than 12 million.

Generating units have been installed in all TVA dams. It became clear, however, during and after World War II that the river could not supply all the electricity the Valley region would need. Not only were farms, homes, and factories demanding more, but new factors, vitally important to the Nation, had entered the picture in the form of vast atomic energy plants and a huge laboratory for testing supersonic aircraft. These defense plants required prodigious amounts of power. Their requirements grew so rapidly that within a few years they were using over 30 billion kilowatt hours a year—more than half of all the power produced by TVA.

An ample supply of power is a must in any dynamic economy. To get it, TVA turned to steam-electric generation and already has built seven modern, efficient stations. The two largest—Kings-ton and Shawnee — together generate more than 3 million kilowatts of power and use nearly 10 million tons of coal a year. The other five — Gallatin, Colbert,

John Sevier, Johnsonville, and Widows Creek — will generate 5 million kilowatts and, when units now under construction are completed, will need about 15 million tons of coal annually.

The region has the resources to provide this additional power at low cost. Large reserves of coal at reasonable prices are nearby. The navigational channel provides economical transportation for the coal. The lakes created by TVA dams offer many steam plant sites well located to supply expected future loads. These lakes also afford ample condensing water essential for low-cost steam generation of electricity. And the integrated TVA system, with its large and diversified loads, makes it possible to use very large steam generating units, another essential for low-cost steam power production.

When the Government built its nitrate munitions plants at Muscle Shoals during the first world war, Congress was aware of their value as producers of fertilizers during peacetime. How these plants and the nearby power production facilities were to be used became the subject of a national debate, which was unresolved until the facilities were turned over to TVA in 1933.

Today, the facilities at one of the plants have been modernized to produce both nitrates and phosphates, on a demonstration scale. Augmented with up-to-date laboratories, they are the Nation's most extensive facilities for fertilizer research and development.

Institute of Radio Engineers Section Sets Meeting Thur.

The Huntsville Section of the Institute of Radio Engineers will meet at the Fox Restaurant on Thursday, Feb. 26, at 6:30 p.m.

IRE members will hear James G. Alexakis discuss "Modern Missile Power Supplies," at the Auditorium of Huntsville High School later that night at 8.

Alexakis is the General Manager of Engineered Magnetics of the California Division of Gulton Industries of Metuchen, New Jersey. He has complete responsibility for research and development in the fields of low voltage magnetic amplifier type power supplies.

Alexakis has taught both electrical engineering and mathematics and is a member of the Engineering Society of the University of California.

WANTADS GET RESULTS



"SIR...I REQUEST TO BE MOVED FROM IN FRONT OF THE TROMBONE SECTION."



WEEKEND TRANSPORTATION for Pfc. Albert J. Cadaret II, a recent Soldier of the Month, was provided by the Crescent Cab Co. of Huntsville. The Holiday Inn Motel provided lodging under the program which is sponsored by the Redstone Arsenal Committee of the Chamber of Commerce. W. J. Bost, left, was Cadaret's driver.

Coin Collectors Invited to Attend Meeting Fri. Night

All coin collectors in the Huntsville area are invited to attend a meeting in the Twickenham Hotel Friday night, Feb. 27, at 7:30 p.m. The purpose of this meeting will be to determine if numismatists or coin collectors are interested in forming a coin club. A certain amount of coins may be exchanged among collectors at this meeting.

Objectives of a coin club are to encourage and promote the science of numismatics by the acquisition and study of coins, paper money, and medals; to encourage and assist new collectors, and to foster the interest of youth in these subjects; to stimulate and advance affiliations between collectors; to acquire and disperse numismatic knowledge; to provide an annual display of numismatic materials; and generally to represent all coin collecting interests.

If further information is desired on the scheduled meeting, contact Henry T. Williams, JE 2-5419, or Donald E. French, JE 6-2302.

A little girl wrote in answer to a question at an examination: "The Armistice was signed on Nov. 11, 1918 and since then we have had two minutes of peace every year."

Sfc. Mansir Receives Commendation Rib'n

Sergeant First Class Darrel E. Mansir recently received an Army Commendation Ribbon with Metal Pendant for exceptionally meritorious service as a movement control specialist with the Army Ordnance Missile Command.

His award was presented by Maj. Gen. J. B. Medaris, Commanding General, AOMC. Sfc. Mansir is scheduled to leave for a new assignment in Korea soon.

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SIX HUNTSVILLIANS on "Exercise Lucky Delta" recently were (left to right), SP4 Arthur T. Boyd, 2002 Pontiaciana St., automobile repairman; Sgt. Alvin B. Burleson, 1601 Randolph, armor repair; M/Sgt. Russell E. Wilson, 2902 Thurman Circle, operations sergeant; SP5 Edwin Bledsoe, 1122 Wellman Ave., supply sergeant; M/Sgt. Robert Labbe, 2903 Hillsborough Road, ordnance supply supervisor; and Pfc. Bobby G. Hill, 515 W. Clinton St., clerk typist.

'LUCKY DELTA' EXERCISE BEGINS; UNDER THIRD ARMY DIRECTION

FORT GORDON, Ga.—"Lucky Delta," a mammoth command post exercise directed by Third Army headquarters, got underway here recently.

Some 4,600 commanders and staff members — including more than 30 general officers—are representing 43 Reserve, National Guard and active Army units in the exercise. Lt. Gen. Clark L. Ruffner, Third Army commander, is exercise director, and Gen. Bruce C. Clarke, Continental Army Commander, from Ft. Monroe, Va., will be an observer.

The exercise, a continuation of the Lucky Bravo and Lucky Charlie maneuvers held here in 1957 and 1958, is designed to keep commanders posted on the latest Army methods and techniques,

including airborne doctrines, use of atomic and electronic warfare principles and employment of tactical air-support.

Free Hand

Participants have a free hand in meeting and dealing with combat problems posed during the two-day maneuver play. Supervisory control will be maintained by exercise directors and controllers, and a critique will be conducted at conclusion of the play.

Third Army officials emphasize that "Lucky Delta" is a training exercise, and is not based on any existing war plans.

The Ninth Tactical Air Force, from Shaw Air Force Base, S. C., is scheduled to participate with Army units in the big operation.

Units Listed

The 15 active Army units are: Third U. S. Army, Ft. McPherson, Ga.; XXXIV Corps (played by Third Army Hq personnel); From Ft. Bragg, N. C.: XVIII Airborne Corps, 82nd Airborne Div., 504th Army Security Agency 504th Army Security Agency (played by 317th ASA Bn.), and 55th Medical Group; From Ft. Benning, Ga.: 2d Infantry Division, 3d Transportation Battalion (Helicopter), the 54th Medical Group, and 39th Transportation (truck); From Gordon, Ga.: 41st and 42nd Civil Affairs and Military Government Companies; 101st Airborne Division, Ft. Camp-

bell, Ky.; 108th AAA Brigade (played by Ft. Stewart, Ga. cadre); 3d Infantry Brigade, Ft. Rucker, Ala., (played by 2nd Battle Group, 31st Inf. Regt.)

The 20 Reserve units are: From the Atlanta, Ga., area: 81st Infantry Division, 425th FA Group, 301st Armored Group, 425th Transportation Group, 310th Civil Affairs and Military Government Group; 335th Signal Group, and 319th Engineer Group (both from Forest Park, Ga.); 474th Quartermaster Group (Chamblee, Ga.). Other Georgia units: 332d Medical Group, Savannah. Alabama units: 926th Engineer Group, Montgomery; 349th Engineer Group, Opelika; 411th Ordnance Group, Huntsville. Florida units: 312th AAA Brigade, Orlando; 406th FA Group, Gainesville; 301st Engineer Group, Gainesville; 343d Ordnance Battalion, Tampa. South Carolina units: 304th Ordnance Battalion, Charleston; 437th FA Group, Florence. Tennessee units: 373d Quartermaster Battalion, Nashville. Mississippi units: 405th FA Group, Meridian.

The seven National Guard units are: From North Carolina: 30th Infantry Division, Raleigh; IV Corps Artillery, Charlotte; From South Carolina: 51st Infantry Division, Columbia (and Tampa, Fla.); 228th AAA Group, Newberry. From Florida: 48th Armored Division, Jacksonville (and Macon, Ga.); From Alabama: 31st Infantry Division, Mobile. From Tennessee: 30th Armored Division, Nashville.

Alaskan: "North of the Arctic circle I've seen the wind blow 60 miles an hour all night long."
Texas: "That's nothing. In Texas I've seen the wind blow 60 miles an hour all night, too."
Alaskan: "Yeah, but how long are your nights?"

NEW PAY VOUCHER SYSTEM IN USE FOR ENLISTED MEN

On payday, under the old pay system, a private was given a handful of crisp new bills by his C. O. and left to wonder what had happened to the rest of his \$78.00.

If, as some did, he went to the Finance Office to check, he might be denied the right to personally inspect his pay record. That was understandable, due to the large number of privates at Redstone Arsenal with similar curiosity, but it left the poor private to wonder if somebody was getting rich at his expense.

Now, under the new military pay system, any such confusion is eliminated.

The new system requires that each man be given, with his pay, a pay voucher itemizing payments and deductions.

This system apparently received the overwhelming approval of enlisted men. It not only keeps the enlisted man better informed as to his pay status but, many believe, should reduce cases of underpayment and overpayment.

How's Your Know-How?

- (AFPS Weekly Feature)
1. Who was the founder of America's first school of journalism?
 2. The Statue of Liberty is on Bedloes Island in New York Harbor. True?
 3. "I have been driven many times to my knees by the overwhelming conviction that I had nowhere else to go." Who said it?
 4. Who was the first commander in chief of the Navy and how large was his fleet?

- (Answers to Quiz)
1. Robert E. Lee, as president of Washington University, in 1869.
 2. Not since 1956, when the name was changed to Liberty Island.
 3. Abraham Lincoln.
 4. Capt. Esek Hopkins, appointed in 1775, who commanded eight ships.

CARTOON OF THE WEEK

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2 Exams Announced

Two new examinations have been announced by the U. S. Civil Service Board of Examiners, one for physical science aids and the second for medical technicians.

The physical science aid exam has three options; general, mathematics, and physics at grades GS-3 (\$3495 per year) and GS-4 (\$3755). The examination is numbered 5-35-4(59).

Grades for medical technician range from GS-3 (\$3495 p.a.) to GS-7 (\$4980 p.a.). This announcement is numbered 5-35-3(59).

No written test will be required on either exam.

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SPORTS

QUIZ

- Where will the 1960 Winter Olympic games be held?
- Name the only professional boxing champion to go undefeated during his fistic career.
- What college first played football as we now know the game?
- When was the only time the Rose Bowl game was played outside California?
- What fullback recently set a new record for ball carrying in modern Big Ten football history?

(Answers to Quiz)

- Squaw Valley, Calif.
- Rocky Marciano retired as heavyweight champ in 1955 with 43 KOs, six decisions and no defeats.
- Harvard.
- The 1942 game between Oregon State and Duke was played in Durham, N. C.
- Bob White of Ohio State, with 178 carries, broke the old mark of 163 set by Minnesota's Paul Giel in 1953.

RSA MIXED BOWLING LEAGUE STANDINGS

(16 Feb.)

	Won	Lost
Peapickers	112½	49½
Bombers	101½	60½
Hi-Counts	88½	73½
Pindroppers	82	80
D-Yanks	73	89
Bowlweevils	68	94
Blindmice	62	100
Holyrollers	61½	100½

Women over 180: M. Dooley 180; B. McGraw 182; M. Rabinowitz 185.

Men over 200: T. Paul 216; 203 612; B. Vowell 200; R. Abraham 207; J. Ludick 211.

Special Services Activities

POST SERVICE CLUB OPERATING HOURS

Monday thru Saturday 1000-2200.

Sunday and Holidays 0900-2200.

LIBRARY OPERATING HOURS

Monday thru Friday 0900-2200.

Saturday and Holidays 1000-2200

CRAFTS SHOP OPERATING HOURS

Monday and Tuesday—Closed.

Wednesday thru Friday 1400-1630 and 1730-2200.

Saturday and Holidays 0800-1630

Sunday 1230-1930.

RSA BOWLING LANES OPERATING HOURS

Mon., Wed., and Sun., 1300-2300

Tues., Thurs., Sat., Hol., 1000-2300.

Friday 0900-2300.

League Play:

Friday 0900-1115 — 1600-1715 and 2000-2300.

Monday thru Thursday 1600-1715 and 2000-2300.

GOLF DRIVING AND ARCHERY RANGE OPERATING HOURS

Sun thru Sat., 1300-1830.

POST GYMNASIUM OPERATING HOURS

Monday thru Friday 1030-2130

Saturday 0930-1700

Sun. — 1300-1600.

The Gym will be reserved for ladies of the post Tuesday, Wednesday and Thursday mornings from 0915-1115 hours.

Post Library

ANNA L. FARRAR, LIBRARIAN

It's YOUR POST LIBRARY! Why not make it truly YOUR library by taking full advantage of its many opportunities for enjoyment and self-improvement? These are some of the new books you will find ready for circulation:

James Agee, "Agee on Film".

Stanley Berenstain, "It's All in the Family".

Geoffrey Bocca, "Adventurous Life of Winston Churchill."

Pat Boone, "Twixt Twelve and Twenty".

John Chapman, "Broadway's Best, 1958".

Leslie Charteris, "Senor Saint".

John Creasey, "Case Against Paul Raeburn".

Jacob Dunn, "Massacres of the Mountains".

John Galbraith, "Journey to Poland and Yugoslavia".

Paul Gallico, "Mrs. Arris Goes to Paris".

Althea Gibson, "I Always Wanted to be Somebody".

Ralph Hammond-Innes, "The Land God Gave to Cain".

James Horan, "Seek Out and Destroy".

"Information Please Almanac, 1959".

John Jennings, "The Golden



INTELLECTUAL TYPE--That's Miss Era Condra, this week's Rocket Pin-up, shown above catching up on her reading. Incidentally, such eye-catching attire as this is strictly not allowed in the Post Library, Special Service officials advise. (Seems it keep's the boy's minds off their books.) A native Huntsvillian, Miss Condra works in the Supply Management Branch, Field Service Division, Army Rocket and Guided Missile Agency.

SANDERS PROMOTED

Jack William Sanders of Hq. & Hq. Det., ARGMA, was recently promoted to first lieutenant. He is assigned to the Research and Development Division of ARGMA. A native of Summerville, S. C., he is a graduate of The Citadel.

Eagle".

Charles Knickerbocker, "Jupiter Island".

Mary McMinnies, "The Visitors".

Samuel L. Marshall, "Sinai Victory".

Robert Mines, "My Mind Went All to Pieces".

Thomas Mount, "Gun-smoke Cure".

Scott O'Dell, "The Sea is Red".

Francis Sampson, "Look Out Below."

Carolyn Shaw, "Modern Manners".

Arthur Symons, "Soldiers and What They Do".

This Week Magazine, "What Makes You Tick?"

Hillary Waugh, "Girl Who Cried Wolf".

Year, "Year, 1958".

William Zinsser, "Seen Any Good Movies Lately?"

WANTADS GET RESULTS

Safety Scoreboard

(As of 20 Feb.)

Days since last civilian disabling injury	85
Our goal	90
Days since last military disabling injury	18
Our Goal	30
Days since last contractor personnel disabling injury	76
Our goal	90
Days since last government motor vehicle accident	0
Our Goal	30

DRIVING RECORD (Government Vehicles)

(As of 20 Feb.)

Organization	No. Accidents (1959)	Days Since Last MV Accident
Transportation Div. (RSA)	2	21
Post Engineer Div. (RSA)	7	6
Provost Marshal Div. (RSA)	2	15
Depot Operations (RSA)	5	0
All Other RSA	1	5
Thiokol (ARGMA)	1	37
All Other ARGMA	1	48
OGMS	3	10
ABMA	0	50

UNIVERSITY AIDS KOREAN ACADEMY

SEOUL, Korea—The University of Maryland, which has bought the college campus to American servicemen serving overseas, is donating books to the new Eighth U.S. Army Memorial Library of the Korean Military Academy.

The first shipment of 200 books to reach the Korean "West Point" included many on the humanities, social and natural sciences. Although current editions, they have lost their usefulness to Maryland because of changes in curriculum.

The books donated under this continuous program carry the seals of the University and of the Eighth U.S. Army, to whose fallen soldiers the library was recently dedicated by General I. D. White, Commander in Chief, U.S. Army Pacific.

The U. S. Army Advisory Group, Korea, serves in an advisory capacity to the Academy.

Northrop Aircraft Changes Name to Northrop Corporation

A. A. Demetriou, manager of the Huntsville office of Northrop Aircraft, Inc., has advised The Redstone Rocket that the firm's name has recently been changed to Northrop Corporation.

The new corporate name, he explained, is the line with the company's broadened scope of operations which includes guided missiles, target drones, space research projects, and electronic, electromechanical, and optomechanical products as well as aircraft.

The company's Northrop Division at Hawthorne, Calif., has taken the new name of Norair. Other Northrop divisions are Nor-tonics, at Hawthorne and Anaheim; Radioplane, Van Nuys and El Paso, Texas; and Northrop International, Beverly Hills, Calif. The Northrop Corporation's Huntsville office is located in Room 312, Utilities Building.

CARTOON of the week

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Gen. DeShazo Named Deputy CG, 3rd Army

FORT MCPHERSON — Two Korean Combat veterans and comrades in arms were reunited recently as Maj. Gen. Thomas Edward De Shazo, a native of Bridgeton, Ala., joined Third Army.

Gen. De Shazo served as the artillery commander for the 2D Infantry Division in Korea in 1951; then Third Army's present commander, Lt. Gen. Clark L. Ruffner, commanded the same division.

In welcoming Gen. De Shazo Gen. Ruffner announced that he would be the Deputy Commanding General of the Third United States Army. He then presented Gen. De Shazo with a Continental Army Command Citation from General Bruce C. Clarke, for his leadership, acumen, and planning abilities in direction of the Artillery and Missile School, and commanding the Artillery and Missile Center at Fort Sill, Oklahoma, from March 1956 to January 27, 1959.

Gen. De Shazo succeeds Maj. Gen. Crump Garvin who retired Dec. 31st. As Deputy Third Army Commander he supervises Reserve activities in the Third United States Army Area, which comprises the states of North and South Carolina, Georgia, Florida, Alabama, Mississippi, and Tennessee.

Gen. De Shazo's military record dates back to World War I when he left high school in Montevallo, Ala., in May, 1917, to enlist. He soon became a Scout Corporal with Battery E, 117th Field Artillery Regiment, 31st Infantry Division.

On being mustered out of the service in January 1919, De Shazo returned to Montevallo and high school. Graduating in June he entered Marion Institute at Marion, Ala. In his second year there he was appointed to West Point. He was commissioned a second lieutenant of field artillery in June 1926, and assigned to duty at



OUTSTANDING UNITS CITED—Outstanding Unit Plaques were recently awarded to three units at Redstone Arsenal by the post's Character Guidance Council. Awards were given in three categories—for battalion-size, company-size, and detachment-size units—based on accumulation on points during the past six months. The plaques were presented by Col. K. T. O'Keefe (left), Redstone Arsenal Commander. Accepting the awards for their

units were (left to right) Capt. Gilberto Cardenas-Lartigue, Medical Detachment, U. S. Army Hospital; Capt. Harrelson Blackwell, Hq. & Hq. Det. A, Ordnance Guided Missile School; M/Sgt. Harry Keever, same unit; Maj. Jesse Garner, Redstone Arsenal Troop Command; and Lt. Col. Claude E. Cason, School Troops, OGMS.

Fort Sam Houston, Texas.

From the date he was commissioned in the artillery until he took an artillery group to North Africa in July, 1943, Gen. De Shazo had served in all various jobs that a young artillery officer could have.

Gen. De Shazo assumed command of the 6th Armored Field Artillery Group in September 1942 and took the group through the arduous campaigns in North Africa, Italy and Southern France.

Following World War II, Gen. De Shazo was assigned to Fort Sill, Okla., as assistant Commandant of the Artillery School. Following that he was assigned to the Military Advisory Mission in Turkey, and later to the Pentagon in Washington, where he was Chief of the Policy Planning Branch, Plans Division, in the Office of the Assistant Chief of Staff for Operations.

Shortly after the outbreak of hostilities in Korea, Gen. De Shazo became Commander of the IX Corps Artillery in Korea, and it was while serving with the corps that he was promoted to brigadier general. Returning from Korea, Gen. De Shazo was named Commander of the 11th Airborne Division Artillery at Fort Campbell, Ky.

In December, 1952, he was promoted to Major General. A short time later he was assigned to Paris, France, as Chief of the Military Assistance Advisory Group. He has just completed his third tour of duty at Fort Sill, the last one being as Commanding General of the Artillery and Guided Missile Center, and as Commandant of the Artillery and Guided Missile School.

During his distinguished career in the Army, Gen. De Shazo has been awarded the Distinguished Service Medal, the Silver Star,

the Bronze Star with two Oak Leaf Clusters, the Air Medal, the Commendation Ribbon, the Legion of Merit, the French Legion of Honor, French Croix De Guerre with Silver Star, the French Croix De Guerre with Palm, and the Italian Bronze

Cross.

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The Hanging Tree

HUNTSVILLE CHALLENGED TO SUPPORT SCHOOLS WITH NECESSARY RESOURCES

A sweeping challenge was given Huntsville residents last week to support their city school system with "the necessary resources if the schools are to fulfil the heavy obligations placed upon them in the best interests of the city and of our country."

The challenge was made by Dr. G. G. Quarles, Chief Scientist of the Army Ordnance Missile Command, before a meeting of the Huntsville City Teachers Association at the Huntsville High School auditorium.

"These matters of interest concern a much larger audience in whose hands rests the power of decision and action," Dr. Quarles said.

"A school can become a show window which inspires pride in the citizens who support it—or an object of ridicule and shame. The choice between these extremes is the community's not that of the State, or the Federal Government, or the Parent Teachers Association or the faculty," he said.

Feverish Growth

Citing the feverish growth Huntsville has experienced since the Army centered its missile and space programs here, he said that some dislocations were to be expected.

"The city has been remarkably successful in adjusting to the abrupt transition from an agricultural and closely related industrial economy based upon cotton to a novel type of industry related to rocketry.

"Housing, sanitation, and traffic flow problems press for solutions. Though these must be recognized by the community and resolved as quickly as resources permit, I firmly believe the educational

problem demands priority," Dr. Quarles said.

Curious Paradox

He stated that it is one of the curious paradoxes of our time that the spectre of unemployment has been raised in Huntsville, where employment has reached an all-time high, and where demand for scientific and technically trained manpower has not been satisfied.

"A fairly large number of otherwise capable people are not sharing the benefits of technological progress simply because their training and experience cannot be utilized in this new kind of economy," he said.

More than 13,000 students are housed in 406 classrooms at present in the Huntsville school system. Dr. Quarles recalled that 60 more classrooms were planned during the past year, and 30 of these are in construction. "Your schools grew at the rate of one new classroom per week throughout 1958, a remarkable accomplishment in itself," he said "It is quite apparent nevertheless that the system is still 'running to catch up' and that the end of building is not at hand."

"Buildings alone do not make fine schools. Of far greater importance is the quality of instruction provided by the teacher," Dr. Quarles said.

Cites Figures

He then cited figures to show that only 30 per cent of the Huntsville teachers have bachelor's or master's degrees. "In other words," he said, less than one in three possess the minimum preparation accepted in many states and cities."

Low salaries were blamed by Dr. Quarles for the shortage of degree teachers. In making a comparison with teacher salaries and those paid at the Army Ordnance Missile Command, which he said has the largest payroll of any industry in the state, he commented. "It seems incredible that a college graduate teaching in Huntsville receives less than a Federal employee who is a messenger, carrying papers between offices."

"Evidently the public forgets that teachers are men and women who earn their living, who support families, who pay taxes, who buy homes and cars—or who would do so if they could afford them.

Point of No Return

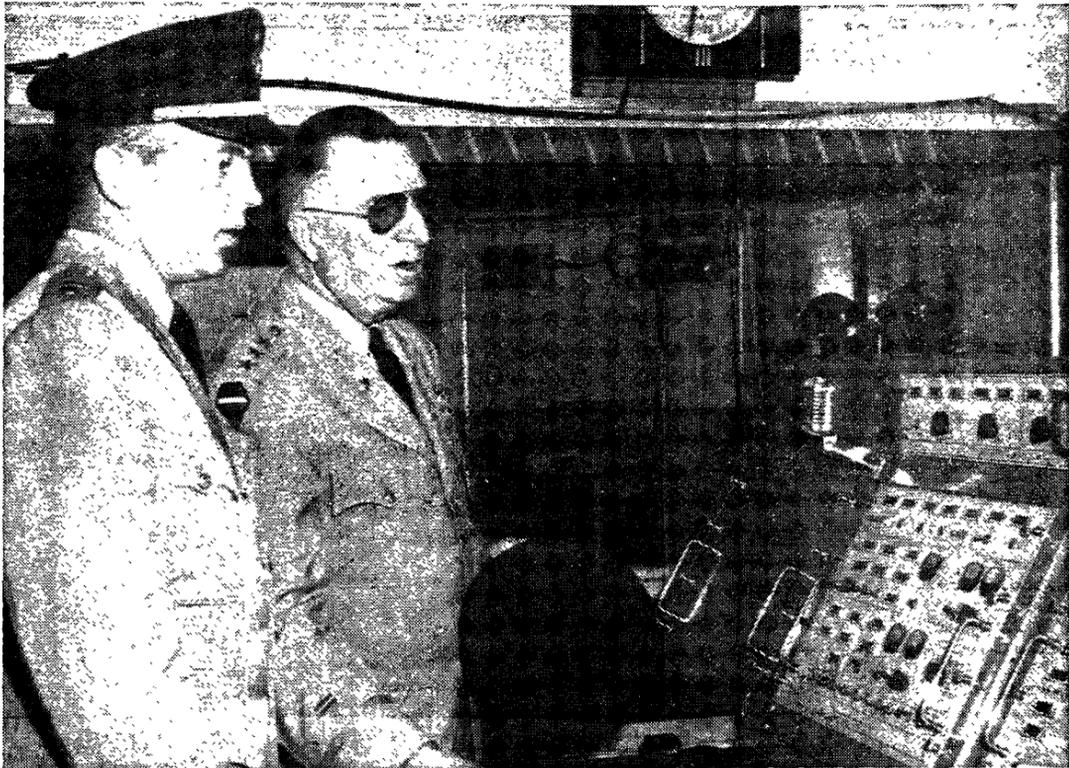
"However dedicated the individual teacher may be to his profession, there comes a point of no return when his reward ranks him lower in the eyes of society than a common laborer."

Dr. Quarles cited sources of revenue with which schools are supported, and concluded that a broader tax base would appear to be necessary if financial assistance to schools is to be increased as it must be to achieve the desired results.

He repeated the need, expressed frequently in recent years, for more engineers and scientists. He said the educational system of the United States must supply steadily-increasing numbers of trained scientists and engineers "if we are to continue to enjoy an ever-increasing standard of living."

Need Not Limited

"However," he said "the need for more technical education is not limited to the training of engineers and scientists. . . . Today's industry, and certainly that of the future, will require a considerably higher level of skill and understanding. Automation makes it possible for more routine processes to be performed by machines, but these machines must be controlled and maintained by men who have a higher level of train-



SIGNAL CHIEF VISITS CAPE—The Chief of the Army Signal Corps, Lt. Gen. J. D. O'Connell (right), visited the ABMA Missile Firing Lab at Cape Canaveral last week. He is shown here with Capt. J. R. Ross of the AOMC Field Office. Gen. O'Connell was at the Cape to witness the launching of Vanguard II satellite, instruments of which were designed by the Signal Corps.

Religious Services

POST CHAPEL — Bldg. 3714

PROTESTANT

Sunday — 0945 hours, Sunday School, 1st Session 4th grade through Senior High.

1000 hours — Adult Bible Class in TV Room of Service Club.

1100 hours — Sunday School. 2nd Session — 3 yrs. of age through 3rd grade.

1100 hours — Morning Worship. The nursery for babies and small children is open during this service.

ing. Our schools must be re-oriented to meet these requirements."

He suggested that this region should look into the need for establishing a technical or vocational training institution to avoid diluting the genuine efforts of the high school.

1830 — Christian Youth Fellowship — Jr. High Young People and Senior High

Wed. — 1800 hrs. — EMCU.

Wednesday — 1845 hours — Chancel Choir rehearsal.

Thursday — 1530 hrs. — Junior Choir Rehearsal.

RSA PARK — Sunday, 0945 hours — Bldg. 9600 — Sunday school classes.

JEWISH — Temple B'Nai Sholom (corner of East Clinton and Lincoln)

Friday — 2000 hours — Regular service. O'Neg Shabbot (Sabbath Social) at Temple Annex following service.

Sunday — 0930 hours — Religious School at Temple Annex

CHRISTIAN SCIENCE SERVICES

Sunday — 1100 hours — Held in Huntsville at White St. and Wells Ave. Wednesday evening meetings are held at 1930 hours.

CATHOLIC

Sunday — 0745, 0845 and 1230 hours—Mass.

1830 — Youth Religion Class. in Chaplains Office

MONDAY—2000 hours — Convert Class in Chaplain's office.

TUESDAY—2000 hours — Novena in Honor of Miraculous Medal.

FRIDAY—2000 hours — Way of Cross.

Saturday — 1000-1045 hours—Altar Boys Class.

Catechism classes — 1000-1130.

Confessions — 1800-1900 hours.

CHAPEL NO. 2 — Sunday — 1100 hours — Mass.

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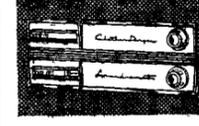
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Air Explorer Post Of Boy Scouts Holds Father, Son Banquet

Air Explorer Post 234, Boy Scouts of America, held its semi-annual Father and Son Banquet recently. The Post is comprised of dependents of military personnel at Redstone Arsenal.

Highlighting the event was presentation of the Post's charter to Col. Sterling G. Holmes, Post committee chairman, by Burton Niemyer, of the Organization and Extension Committee, Madison County Scout District.

Later, Col. Holmes presented Scouts with awards earned during the past two months. Boys receiving awards included Bob Holmes, Ralph Smith, Mike Murray, Bob Denny, John Zierdt, Tim Koeneman, Tom Koeneman, and Ken Clardy.

Members of the Adult Committee who received their membership cards were Capt. Donald Smith, Col. John G. Zierdt, Maj. Russell Bergman, Capt. Robert M. Denny, Col. Harry M. Murray, Col. Holmes, and M/Sgt. Wynn.

Explorer Scout Ralph Smith won the prize, a box of candy, in a question contest held after the banquet.



EXPLORER SCOUT GROUP—Shown above are members and adult officials of Boy Scout Air Explorer Post No. 234, which received its charter last week. Left to right are: SP-4 Robert Gordon, assistant advisor; Ken Clardy, Tim Koeneman, Richard Kloos, Alan Montgomery, Tom Koeneman, Bob Holmes, Randy Bergman, Bob Denny, John

Zierdt, Mike Murray, Jim Wynn, Ralph Smith, and Lt. James W. Davis, advisor. Members of the Explorer Post are all dependents of Arsenal military personnel. Explorer Scouts must be over 14 years old and may continue to be members until they are 17.

* * * * *

Quarterly Dinner Meet Of Tenn. Valley Post, AOA, Slated April 17

The quarterly dinner meeting of Tennessee Valley Post American Ordnance Association, will be held April 17 in the National Guard Armory on Memorial Parkway, Huntsville.

This was decided by officers and directors at a meeting Thursday night in the Utilities Building, conducted by R. W. Cuthill, president. Milton H. Cummings, program chairman, announced the dinner speaker will be D. A. Kimball, president of Aerojet-General Corp., Azusa, Calif. The April meeting will be open to wives of members.

President Cuthill appointed these committees to arrange the affair: menu, Secretary Jeff D. Darwin; decorations, Morris Knight, Tom Hewes, Maj. R. L. Crossman; guests, Dr. Ralph Swann, Dr. W. M. Mebane, M. K. Rankin; program, Cuthill, Cummings, Mel Duke, George Williams, tickets, Cummings, chairman, G. L. Harris Army Ordnance Missile Command; Col. Thuston Paul, Army Ballistic Missile Agency; Col. Reino Lehtonen, Army Rocket and Guided Missile School; contractors, A. A. Demetriou, Walter Harper; W. M. Talbot; city, Karl Woltersdorf, George Mahoney; out of city, Tom Johnson, Lawrence Skelly, Mel Duke.

All the committees will meet with Cummings March 19. Chairman Harold F. Torok of

Laboratory. He holds a B. S. degree from Murfreesboro State College, and was previously employed as principal at the Lincoln School, Fayetteville, Tenn.

Unger to Address Joint Meeting Thur.

Jurgen Unger of ABMA will speak on "Interplanetary Navigation" on Thursday 26 Feb., at a joint meeting of the American Rocket Society and the Rocket City Astronomical Association, at the Huntsville Electric Auditorium at 8:00 p.m.

Unger will discuss typical trajectories for Earth-Mars flights, possible systems for obtaining mid-course coordinates, an optical system for the determination of position, errors, and the use of astronomical optics.

Unger was born in Danzig, Poland, and earned his degree in math and physics from the Karlsruhe Institute of Technology. He is employed in ABMA's Structures and Mechanics Laboratory.

Charles G. Given Is Accident Victim

A 66-year-old, longtime Redstone Arsenal employe from Gurley was killed Thursday in a traffic collision on Memorial Parkway S., as he headed home from work.

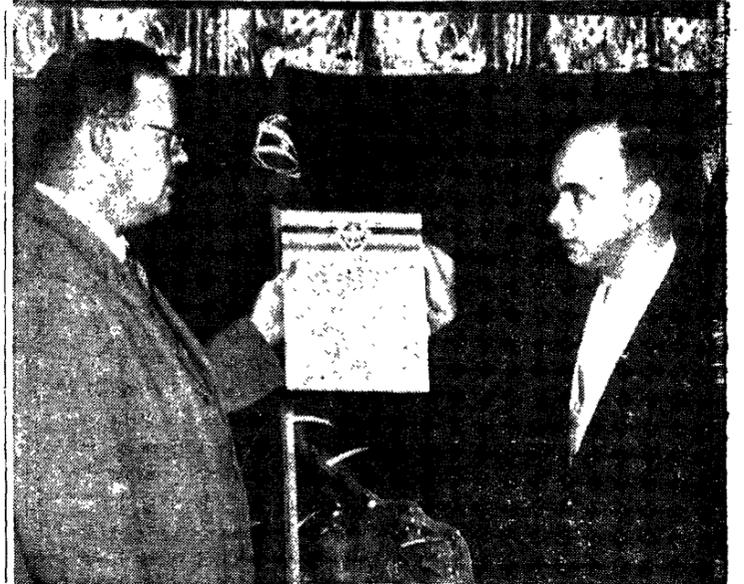
Funeral services for the victim, Charles Grafton Given, were held Sunday at the Gurley Methodist Church, with the Rev. Billy York officiating.

Burial followed at Henshaw Cemetery at Scottsboro.

Given, who had worked at Red-

stone Arsenal since 1941, was employed as a warehouse foreman for the Consolidated Supply Office. He was chairman of the board of stewards of the Gurley Methodist Church, a Mason, and a member of the Veterans of Foreign Wars.

He is survived by his wife, Mrs. Nona M. Given; two daughters, Mrs. R. E. Phelan of Edwards,



SCOUTS GET CHARTER—Col. Sterling G. Holmes (right) last week accepted a charter for the recently organized Boy Scout Air Explorer Post No. 234 from Burton Niemyer, of the Organization and Extension Committee, Madison County Scout District. Col. Holmes, the post's committee chairman, is Assistant Chief of Staff for Research and Development, Army Ordnance Missile Command. The post is composed of dependents of Arsenal military personnel.



OTHA JEAN

Sojourners to Hear Talk By Otha Jean

Redstone Chapter 353 of National Sojourners will hear an address by Otha Jean of the Army Ballistic Missile Agency, at its monthly business and dinner meeting Friday night, Feb. 27. The meeting will be held in the Explorer Room of the Squirrel Hill Officers Club. A social hour will begin at 6:30 p. m., followed by dinner at 7:30.

Reservations for the meeting should be made with Eugene Allen, ext. 4144, or George Buyske, ext. 4144 or 5680.

The guest speaker is a senior mathematician in the Performance Section, Future Projects Branch, of ABMA's Aeroballistics

Calif., and Mrs. Charles Hopper of Huntsville; a sister, Mrs. Elizabeth G. Graham of Gurley; two brothers, Fred T. Given of Chase City, Va., and Sam Given of Birmingham; four grandchildren and three nephews.

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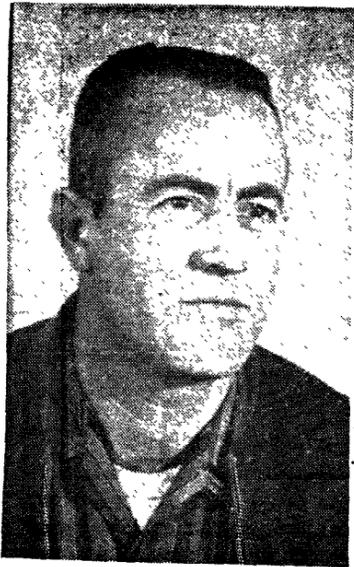
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MURRAY M. PRITCHETT

Murray Pritchett Is 'Safe Worker of Week'

The "Safe Worker of the Week" selected by the RSA Safety Division is Murray M. Pritchett, Crane Operator, Buildings and Grounds Branch, Post Engineer Division, RSA.

Pritchett's selection was based on the recommendation of his supervisor and those who have worked with him for many years.

He has operated heavy equipment including all types of cranes, bulldozers, and road patrols since 1954 and has been employed at Redstone Arsenal since July, 1942. With the exception of one year in the Army with the Ordnance Aviation Service during World War 2, his employment at Redstone has been without a break. During this time he has done many jobs and has never received an injury serious enough to cause him to lose time from

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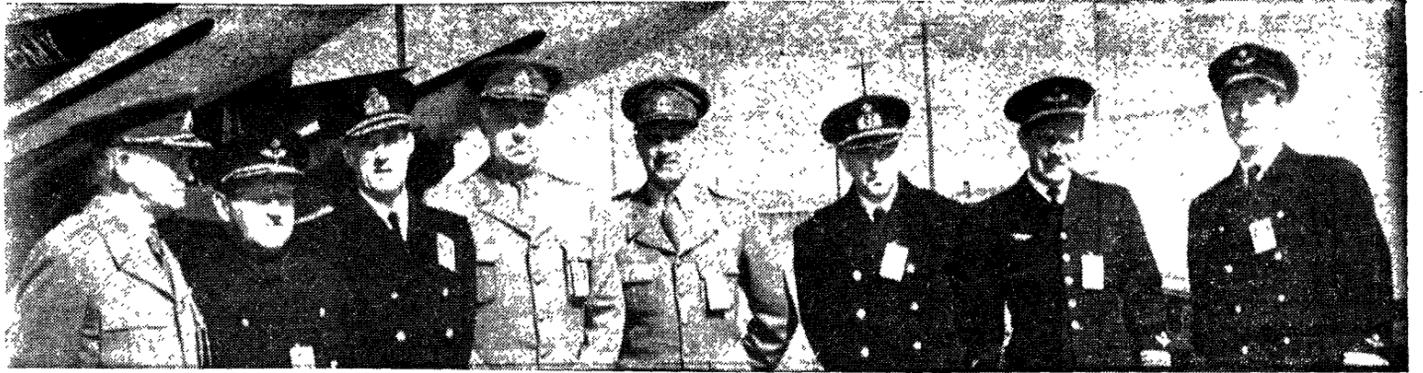
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SWEDISH OFFICERS VISIT—A group of Swedish Army officers who visited Redstone Arsenal for an orientation tour last week are shown above at one of their stops, Bl. 5671, where they observed equipment and procedures at the Hawk Key Personnel Course being conducted by Raytheon Corp. under monitorship of the Training

Branch, Research and Development Division, ARGMA. Left to right are Brig. Gen. Carl E. Jentzen, Maj. Gudmund Rapp, Rear Adm. Einar C. Blidberg, Col. Lofgren, Commodore Sven O. Rosenberg, Maj. Gen. Bo Thorsten Rapp, Col. Sten. L. Flodin, and Brig. Gen. Sven A. Thofelt.

SERGEANT MISSILE REPLACING CORPORAL IN WSMR TEST PROGRAM

WHITE SANDS MISSILE RANGE, N. M.—An old soldier has faded away after seven and a half years of activity at White Sands Missile Range, but a new and mighty replacement already is taking over the vacated position in the nation's missile roll call.

The Corporal test program here is no more. The smaller but deadlier Sergeant is taking over.

Termination of Engineering Firing operations for Corporal also means deactivation of Corporal Project of Ordnance Mission's Systems Test Division. Corporal training firings at Oro Grande will continue under Continental Army Command supervision.

Nucleus of Project

Key personnel from Corporal Project will form the nucleus of STD's new Sergeant Project, according to Col. John Redmon, chief of Ordnance Mission, and Lt. Col. Walter Clifford, chief of STD.

These personnel have been involved in contractor-support operations with Jet Propulsion Laboratory on the Sergeant system for the past 18 months.

Now in its research and development phases of testing, Sergeant is a solid-propellant weapon only 30 feet long. Corporal is liquid-fueled and is 45 feet long.

Rugged Missile

Sergeant is as rugged as its non-com name sake. It is air transportable can deliver a nuclear punch into the enemy's mid-section, and is invulnerable to any known countermeasures.

The outgoing Corporal Project was activated at WSMR in August, 1952, as America's first ballistic guided missile. Sergeant was

Barney Voted Best In Toastmasters' Annual Contest

Walt Barney of ABMA was voted best speaker for the Redstone Toastmasters at the club's annual speech contest recently.

Other speakers in the runoff program were Maj. Jack Caryi, Henry Clifford, and Bob Smith. Barney will represent the Redstone club in the forth coming area contest.

Thurman Burns was Toastmaster for the occasion. Al Ginzburg presented a program for Table Topics. Frank Sutherland served as Grammarian and Tom Stramiello was "Ah" Counter and Joke-master. Chapter president Maj. Caryi presided.

Bob Merrell, Firestone Representative at Redstone, was voted into active membership.

Al Ginzburg was elected best speaker at the meeting of Feb. 10. Bob Cramer, Frank Cameron, and Dave Holden also spoke on this occasion. Tom Stramiello headed up the program as Toastmaster. Bob Smith presented a Table Topic program on Valentines Day.

The General Evaluator, Herman Schapler headed the panel of evaluators. Herb Adcock was Parliamentarian and Steve Dobbs was Grammarian. Bill Greene served as "Ah" Counter and Joke-master.

Guests for the evening were Douglass Pamplin of Raytheon and Arnold Kneithel.

Persons interested in becoming members of Redstone Toastmasters are encouraged to call the club president, Maj. Caryi, at ext. 5143.

unveiled Feb. 18, 1958.

Since the first Corporal Engineering user firing at the missile range in early 1953, 78 of the powerful and majestic weapons have been test-fired by STD personnel. Some 140 engineering static tests also were conducted on the Corporal system components and ground handling equipment since 1953.

Such non-firing testing on Corporal still is in progress, and STD project personnel will assist in these mop-up activities which will continue until September of this year.

The project changeover will see few changes made, and integration from one project to the other has been in progress over the past year.

Gen. Medaris Wins Freedom Honor Medal

Maj. Gen. J. B. Medaris has been awarded the George Washington Honor Medal by the Freedoms Foundation at Valley Forge, Pa., for an outstanding speech in the spiritual values category, public address, during 1958, it was announced Sunday.

Gen. Medaris, Commanding General of Army Ordnance Missile Command, delivered the address, titled "The Challenge of Our Times," Feb. 3, 1958, at the Mid-Winter Convocation of Rollins College at Winter Park, Fla.

During the ceremony, which was part of the annual Founders Week program at the college, Gen. Medaris was awarded an honorary Doctor of Science degree.

Group Prepares Papers for National Meet Military Elect.

Six Redstone Arsenal employees are preparing technical papers for possible presentation at the Third National Conference on Military electronics to be held in Washington, D. C., next June and July.

They are Wilhelm Angele, Jess Huff, Robert C. Martin, Ludie Richards, and William Stripling all of Guidance and Control Laboratory, Army Ballistic Missile Agency; and Stephen L. Johnston, Technical Feasibility Studies, Army Rocket and Guided Missile Agency.

READ THE WANTADS

Accountants Assn. Hears Guest Speaker

Harold W. Luenstroth, assistant controller of Mallinckrodt Chemical Works, was guest speaker at the recent technical session of the North Alabama Chapter of the National Association of Accountants at the Athens Country Club.

Luenstroth stressed the difficulty, but importance, of product costing in companies that make numerous items in varying price ranges. He said, "In our economy, the consumer controls the price; management must control the cost if the company is going to be profitable." Philip Herman, Ford Motor Company, Sheffield, introduced Luenstroth to the chapter.

James Thomas, Rohm and Haas, Huntsville, announced that the chapter had been awarded a book selection for the chapter's high national standing. The book will be presented to the Florence State College Library.

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the job.

Off the job he has an interest in a farm and for recreation especially enjoys hunting squirrels, water skiing, and swimming. He is not only an old-timer at Redstone but is native of these parts, being born and raised at Elon and having attended high school at New Hope. He and his wife, Zora, now live at Elon.

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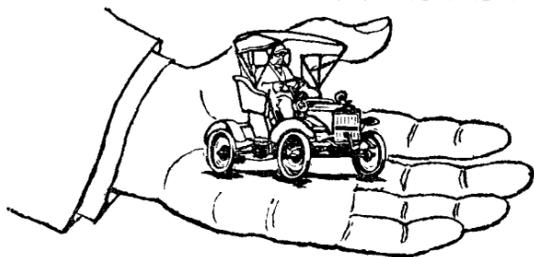
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AUCTION SALE—Our next auction sale will be held tomorrow night, (Thursday, Feb 26 at 6:30 p.m. There will be plenty of good used furniture and appliances and other useful items. Prizes given all during sale. (Use your cents to save dollars). Warehouse Sales Co., 5013 Governor Drive, Phone JE 6-2103. 1tc

WATERFRONT LOTS for sale. Approximately 40 desirable waterfront lots priced from \$800 to \$2,500. Terms to suit the purchaser. See Ed Neely Real Estate, Guntersville. Phone JU 2-3914 or JU 2-3230. 3-18c

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Gen. Werner, 3rd Army Chief of Staff, Ends Illustrious Army Career

Fort McPherson, Ga. — Brig. Gen. Richard J. Werner, Chief of Staff of Third Army, has officially ended a long and illustrious career.

At a retreat parade recently at Fort McPherson, Ga., Gen. Werner officially bid farewell to Third Army Headquarters personnel. He was also presented with an Oak Leaf Cluster to his Legion of Merit Medal.

He was cited for his outstanding service during the period of May, 1948, to 31 January 1959. "Gen. Werner distinguished himself by outstanding service in successive positions of great responsibilities. . . . He culminated his long distinguished career as Chief of Staff, Third U. S. Army, displaying unusual professional ability, judgement and leadership in supervising the staff in the resolving of numerous complex problems. . . ."

Gen. Werner, a native of San Antonio, Texas, graduated from Texas A & M College in 1925, receiving a degree in architecture. Having served in the ROTC while at Texas A & M, Gen. Werner was commissioned a second Lieutenant in the Army Reserve Corps. Later he transferred to the Texas National Guard. Gen. Werner served as Chief of the Georgia Military District in Atlanta, Ga., from Jan., 1955, until December of 1956. As District Chief, he supervised the training of all of the state's Army Reservists.

Before becoming Chief of Staff of Third Army, Gen. Werner was appointed Senior Advisor to the First Korean Army. In World War II, Gen. Werner Commanded the 141st Infantry Regiment, 36th In-

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fantry Division, and served with Headquarters Fifth Army in North Africa. He led his regiment in the amphibious invasion of Italy at Salerno and was wounded in the Battle of San Pietro, Italy. After leaving the division in 1944, Gen. Werner served as Executive Officer, G-1 (Personnel) & Section, Headquarters Fifth Army in 1945. He returned to the United States and was assigned to duty in Washington with the War Department General Staff as Chief of Officers Branch, G-1, Division.

He also served as a member of the Joint Operations Review Board, Logistics Sections, in the Army and Navy Staff College. In 1946 he became Executive Officer of the National War College, holding this position until his transfer in 1950 to the United States forces in Austria, where he served as Secretary to the General Staff, and later as Deputy Chief of Staff. In 1952, he became Commanding Officer, Salzburg Military Post and later served as Chief of Staff, Headquarters Tactical Command, United States Forces, Austria.

Returning to the States in September, 1953, Gen. Werner became professor of military science and tactics at Clemson Agricultural College, Clemson, S. C.

Gen. Werner has been awarded the Silver Star, the Legion of Merit, the Bronze Star with Oak Leaf Cluster, the Purple Heart and the Combat Infantry Badge.

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Wash — 25c (9 Lb. Load) Dry — 10c (10 Minutes)
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6 DAYS A WEEK — HOLIDAYS TOO!



Sfc. Bray Receives Commendation

Sergeant First Class Eyler P. Bray, Jr. of the Army Rocket and Guided Missile Agency, recently received an Army Commendation Ribbon with Metal Pendant for exceptionally meritorious service. The award presented by Col. Harold N. Brownson, Chief, ARGMA Control Office.

Sfc. Bray left last week for a new assignment in Korea. A native of Arcadia, Fla., he graduated from Georgia Military College, Milledgeville, Ga., in 1944.

Operation Blonde

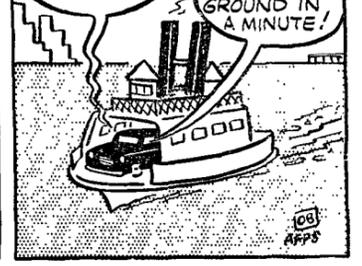
YES, SIR—IT WAS THE BIGGEST TYPHOON IN HISTORY—I WAS TIED TO THE MAST TELLING THE CAPTAIN HOW TO KEEP HER BOW INTO THE WIND !!!



...WHY SOME OF THE WAVES WERE GOING RIGHT OVER MY HEAD... I DON'T FEEL SO GOOD...



OH, I'M GETTING SICK!!



DON'T WORRY! WE'LL BE ON SOLID GROUND IN A MINUTE!

They call it "legal tender," That green and crackling stuff.

It's tender when you have it, But when you don't, it's tough.

ELBERT RUDDER

* * *

Elbert Rudder Named 'Safety Supervisor'

Elbert Rudder, Equipment Specialist, Experimental Mechanics Section, Structures & Mechanics Laboratory, ABMA, has been selected by the RSA Safety Division as "Safety Supervisor of the Week" based on his long outstanding safety record.

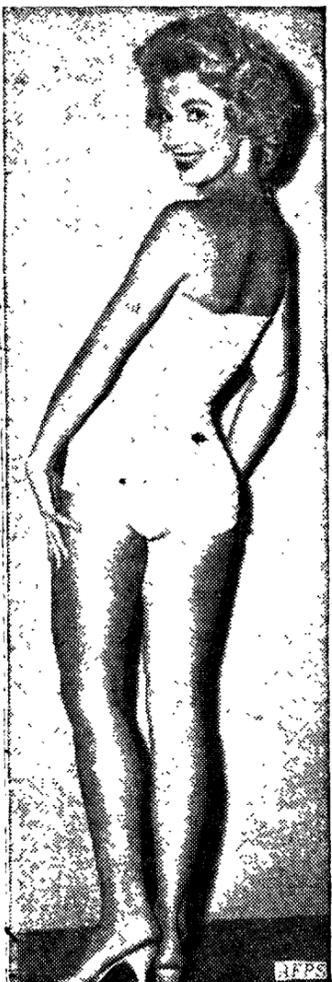
Rudder and co-workers are currently engaged on development of missile separation devices. He has been on similar work since he was employed at Redstone Arsenal in March, 1951. Prior to this time he was employed at Holloman Air Force, Alamogordo, New Mexico, and Wright Field, Dayton, Ohio.

Even during World War II as a technical sergeant he was engaged in research and development work and spent one and one-half years at Eglin Air Force Base, Fla., investigating the German V-1.

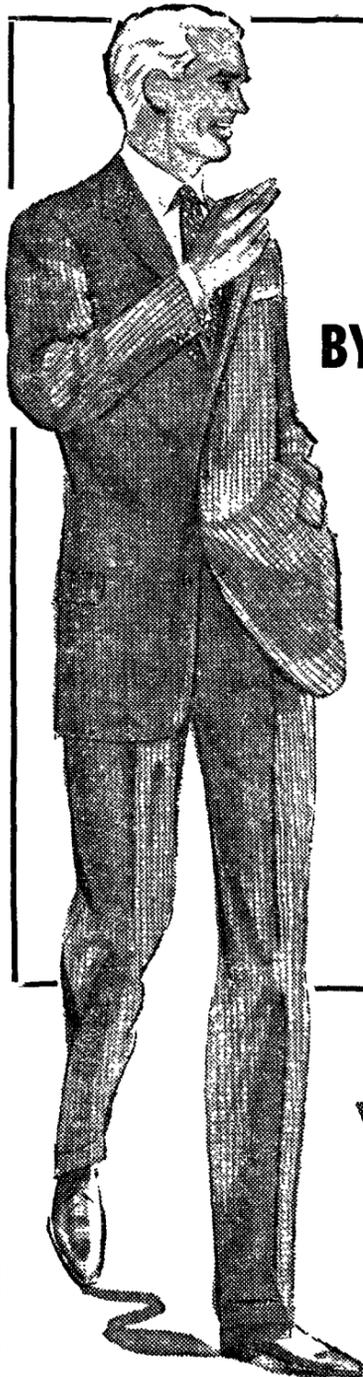
Rudder's original home is at Stevenson, Ala. He now lives with his wife and two children, Tommy, 6, and Paula Kaye, 4, in Madison, Ala. Off the job he is very interested in his farm where he has developed a peach orchard of 400 trees.

Rudder is sold on the importance of working safely, safety officials report. He has never received an injury himself and to his recollection no one under his supervision has ever lost time because of an accidental injury. "This is indeed a respectable record in view of the fact that Rudder's long experience has caused him to work with all types of shop equipment, explosives, and other hazardous materials," safety officials said.

Joyce: "What do you call a man who tries to pick you up in a car?"
Jane: "How big is the car?"



WELL TURNED — Ruta Lee, frequently on view in the "77 Sunset Strip" TV series, manages to keep her eye on the proceedings. Can you?



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Today's leaders in suit making will be the style leaders of tomorrow . . . and you'll be way ahead with Varsity Town clothes from Dunnivant's. They have selected only the finest materials and fabrics for the making of their new spring suits. Come in today and select your favorite for Easter and Spring. Solids, blends, and muted stripes . . . you'll love every minute you wear them.

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- CAMPUS TOGS ● BOTANY '500'

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Take the load off your shoulders in a smart new lighter-weight sport coat for spring. Choose from our sparkling array of styles, colors and patterns.

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