

The Redstone Rocket

Published by Jack W. Hoffhaus, a private individual, at Huntsville, Ala. Opinions expressed by the publisher and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JANUARY 7, 1959

Arsenal Enters the New Year With Personnel, Payroll, Building, Plans at Record Levels

COL. NEWHALL SAYS

OGMS Doubled in Size, Stature During 1958

One of the world's most unusual institutions of higher learning has sprung up here in the past six years to give Huntsville a solid claim to fame as an edu-

cational center of the new age of space.

It is the Army Ordnance Guided Missile School, the educational adjunct of the Redstone Arsenal. The "Space Academy," as newspapers around the world now call it, works closely with all agencies at the Arsenal but it is a separate command.

"OGMS has doubled in size and stature during the past year and is still expanding, with no slowdown evident in the foreseeable future," Col. H. S. Newhall, Commandant, said in making public a year-end summary of operations.

(See OGMS DOUBLED, Page 10)



864TH EMBLEM — The emblem pictured above was recently approved by the Department of the Air Force for the 864th Strategic Missile Squadron (IRBM-Jupiter) which is in training at the Army Ordnance Missile Command at Redstone Arsenal. The emblem, which is symbolic of the Squadron, was designed and submitted by T-Sgt. Leroy Ford, a member of the 864th. The emblem consists of a white missile on a blue background with yellow stars forming a "V" pattern. The motto, Optimus Maximus (Best and Greatest), is on a white scroll. The missile indicates the primary mission and symbolizes the 864th as the first Ballistic Missile Squadron in the United States Air Force. Col. William C. Erlensbusch commands the squadron which will be deployed to an advance base overseas upon completion of training at AOMC.

AOMC PROGRAMS EXTEND ACROSS FIELD OF ROCKETRY

Summary of ARGMA, ABMA Projects Given

Missiles and space programs being carried on by the Army Ordnance Missile Command as the New Year begins extend across the entire field of rocketry.

In size they range from the smaller battlefield weapons to a gigantic propulsion unit for deep space penetration.

A summary of the announced programs follow:

Army Ballistic Missile Agency JUPITER — The highly successful, inertially guided IRBM weapon system is in production at an advanced stage of development. (See AOMC on Page 6)



Dr. Stuhlinger Receives Fellow Award From Astronautical Society

Dr. Ernst Stuhlinger of the Army Ballistic Missile Agency's Research Projects Laboratory was the recipient of a Fellow Award at the fifth annual meeting of the American Astronautical Society held at the Statler Hotel in Washington, D. C. on Dec. 27.

During the AAS Honors Dinner, Hugh L. Dryden, Deputy Administrator for the National Aeronautics and Space Administration, presented the AAS Space Flight Award to Dr. James A. van Allen, Chairman of the Department of Physics, State University of Iowa.

The American Astronautical Society, founded in 1953, is a national scientific organization dedicated to advancement of the astronautical sciences.

Supply Support Seminar Set Here

Representatives from Ordnance agencies throughout the U. S. are scheduled to attend the Joint Supply Support Seminar for Missile and Rocket Units destined for overseas deployment. The joint seminar will be held at the Rocket Auditorium at Redstone Arsenal from 13 to 15 January, according to an announcement by C. F. Nooncaster, Assistant Chief of Staff for Support Operations, Army Ordnance Missile Command.

The purpose of this seminar is twofold—first, to brief all agencies on the responsibilities that have been assigned to the Army Ordnance Missile Command and the Ordnance Ammunition Command with respect to initial equipment of missile and rocket units either activated or reorganized and scheduled for deployment to U. S. or NATO Forces and, second, to acquaint these agencies with the management philosophy and the degree of control that will be exercised by

(See Supply on Page 3)

POPULATION NOW 20,000; PAYROLL IS \$125 MILLION

'58 Construction Totaled \$125 Million

Redstone Arsenal, birthplace of the Free World's first earth satellite, enters 1959, the second year of the Space Age, with personnel, payroll, construction projects, weapons and space programs at record levels.

Employment in the five agencies located on the Arsenal now stands at 20,000 including civilian, military and contractor employees. This is an increase of approximately 4,000 over 1957 year-end strength of 16,000.

The agencies include: Headquarters, Army Ordnance Missile Command, and three subordinate elements, Army Ballistic Missile Agency, Army Rocket and Guided Missile Agency, Redstone Arsenal; and the Ordnance Guided Missile School.

Salaries and wages paid to military and civilian personnel during 1958 totaled \$125,000,000, an all-time record. In 1957 the total payroll amounted to approximately \$81,000,000.

(See ARSENAL on Page 2)

Resupply Missile, Lobber, Will Be Test-Fired Here

A series of test demonstration firings of a ballistic resupply missile known as Lobber will begin at Redstone Arsenal Jan. 27, 1959, the Army Ordnance Missile Command has announced.

Lobber has been developed by the Convair Division of General Dynamics Corp. and has been offered to the Army for evaluation.

The missile system will be scrutinized in keeping with AOMC policy of study and evaluation of promising ideas.

Interested agencies of the Army will be invited to witness the demonstrations staged by Convair to determine whether the missile has military potential.

The Army is interested in small (See RESUPPLY on Page 10)

AP'S 'MAN OF YEAR IN SCIENCE' — Dr. Wernher von Braun (above), Director of Development Operations, Army Ballistic Missile Agency, has been named by the Associated Press as "Man of the Year in Science" for 1958. Dr. von Braun had also received the same honor for 1957. American successes in the field of science—particularly its satellite launchings—gave von Braun the nod over his runner-up, Adm. Hyman Rickover, developer of the atomic submarine, the AP announced. The "Man of the Year" selections of the AP are made in accordance with ballots returned by the 3,700 radio and newspaper members of the AP. In an annual poll they are asked to vote on the "top news personalities" of the year.

TALK FROM AUTO

2 OGMS Danes Treated To \$88 Phone Call Home

(Photo Inside)

A couple of Danes are feeling just great here today at the Ordnance Guided Missile School because of an unexpected gift, presented in a highly unusual way, by a generous North Alabama businessman.

Corporal's Bent Faith and Johan Ljungmann of the Royal Danish Ordnance Corps can tell a hitch-hiker story that has a happy ending.

The two corporals, 20 and 21 respectively, have been studying at the "Space Academy" for almost a year. Recently they had managed to save enough money out of their pay of \$115 per month—minus rations and quarters—to buy a 1951 Ford and make their way to Pensacola, Fla., for a few days vacation. They basked beneath the palm trees and enjoyed the tropical sun, but disaster struck when they started

back to the Missile School with only the barest amount of time left to avoid being absent without leave. The car broke down—and they were broke, too.

There was nothing left to do but get out on the road in a strange country and thumb rides, hoping that their foreign uniforms would arouse the sympathy of passing motorists.

They made it to Birmingham by nightfall, and there hospitality came riding down the pike in a light blue '58 Cadillac.

At the wheel was Joe B. Moore, owner of the Tennessee Valley Machine and Welding Company, heading home to Sheffield. His business affairs take him to many industrial locations in North Alabama, so his car is equipped with mobile telephone service which can connect by microwave with almost any place on earth.

(See PHONE CALL on Page 8)



'NEW MODEL JUPITER'—Redstone Arsenal, birthplace of the giant Jupiter Missile and satellite-launching Jupiter-C Rocket, now has another Jupiter—but this one only weighs six pounds 11 ounces, has moving parts, and makes loud noises. Her first name is Karen, she's the daughter of Mr. and Mrs. Alvin M. Jupiter of Redstone—and appropriately enough, she was the first baby born in 1959 (on Jan. 1, at that) at the Redstone Army Hospital. The proud parents are shown above, comparing sizes of the newest model Jupiter and a scale model of the Jupiter-C. The mother, Sylvia, was formerly a captain in the Women's Army Corps. The father is a Civil Service employe of the Field Service Division, Army Rocket and Guided Missile Agency. Little Karen is their first child.

The Redstone Rocket

The Redstone Rocket is a privately owned newspaper published every Wednesday by Jack W. Hoffhaus, Hartselle, Alabama, with exclusive regard for the reader interests of personnel at Redstone Arsenal, Alabama, in accordance with an agreement between the publisher and the Public Information Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

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New Year's Day Statement By Gen. Medaris

The more than 20,000 military and civilian personnel of the Army Ordnance Missile Command look forward confidently to the New Year. In 1959, even more than in the year which has just ended, the ever-expanding influence of missiles will be felt broadly in the Defense Establishment, in industry, and in many other activities.

We anticipate continuing and orderly progress in the development, production, and fielding of the modern weapons systems for which we are responsible. Each in its special environment will contribute to strengthening the national defense and will enable the Army to reach its objectives with maximum efficiency and effectiveness.

We will carry on assignments in the outer space field for the National Aeronautics and Space Administration and the Advanced Research Projects Agency. We will utilize to advantage the unique capabilities of our research and development team and will coordinate the contributions of our sister services, Government agencies, industrial contractors, and research institutions to projects for which we are assigned responsibility.

The Command will put to good use in the year ahead facilities now under construction at Redstone Arsenal, the White Sands Missile Range, and the Atlantic Missile Range. Our objective now, as it has been constantly, is to achieve maximum results by the intelligent use of our resources.

Maj. Gen. J. B. Medaris
Commanding General
Army Ordnance Missile
Command

Arsenal

(Continued from Page 1)

Construction contracts totaling more than \$20,000,000 initiated or completed in 1958 have noticeably changed the appearance of the Arsenal. In the previous year construction investment amounted to \$13,000,000.

Current employment includes 12,031 Civil Service employees, 3,296 military personnel, 4,311 contractor employees and 570 construction workers.

Of the civilian personnel, 2,919 are employed at ARGMA, 4,933 by ABMA, 3,492 by Redstone Arsenal, 347 by AOMC Headquarters and 340 at OGMS.

Military strength includes 740 officers and 2,556 enlisted personnel distributed as follows: ARGMA, 152 officers, 170 enlisted men; ABMA, 86 officers, 312 enlisted men; Redstone Arsenal, 69 officers, 573 enlisted men; AOMC Headquarters, 130 officers, 68 enlisted men; OGMS, 303 officers, 1,433 enlisted men.

These totals do not include students enrolled at OGMS who numbered 482 per month at the beginning of 1958 and now average 899 per month. An estimated 5,000 students were graduated during the year. More than 7,200 are expected to be graduated in 1959.

The U. S. Air Force is represented by the 864th Strategic Missile Squadron (Jupiter) and has approximately 400 officers

and men. Ninety-five percent of the men have completed individual courses, and crew training is about 90 percent completed. Another Squadron, the 865th, has been activated at the Arsenal.

OGMS also trained some 700 supervisors and planners in the Jupiter system during 1958.

Employment among contractors is as follows: Arsenal, 286; ARGMA (including Thiokol and Rohm and Haas) 2,187; ABMA, 1,460 and OGMS 378.

In addition to construction carried on at the Arsenal, AOMC contracted for \$2,677,000 more in facilities to be provided at Cape Canaveral, Fla., for the oncoming Pershing Ballistic Missile program, for space to house more computer equipment and to enlarge the Engineering Building in the Army complex.

Capehart housing on the Arsenal, 316 units are being added, accounted for \$5,214,000 of the construction. Interim troop housing, a Post Exchange, off-site facilities for Capehart housing, and a water treatment plant cost more than \$2,500,000.

Topping the list of improvements to existing laboratories was the addition to ABMA's Guidance and Control Laboratory, costing \$2,721,588. A Pre-Flight Evaluation Laboratory cost over \$1,000,000.

During 1959 the construction program will approach the \$50,000,000 mark in AOMC. Of this amount, \$15,700,000 will be spent

U. of Fla. Grads Asked to Furnish Information to PIO

The AOMC Public Information Office has been contacted by the University of Florida and asked to provide the names, home addresses, and degrees of those University graduates who are employed at Redstone Arsenal.

The information will be furnished to the University News Bureau which is planning a series of feature articles on their graduates employed in research work for national defense.

Please forward the requested information on a post card addressed to News Desk, Redstone Rocket. (Bl. 4505). Additional pertinent information may be furnished if desired. Cards should be mailed prior to Jan. 20, 1959.

on the Arsenal for modification of the ABMA Static Test Stand, additional barracks, bachelor officer quarters, supporting mess halls and administrative buildings, missions engineering building, and captive test facility.

The remainder will provide more Capehart housing, range instrumentation, assembly buildings, a shock and vibration laboratory, fuel facility, and service area at White Sands, N. M. Missile Range and a launch facility at the Atlantic Missile Range.

During 1958 OGMS occupied new buildings and facilities costing \$7,700,000. About \$3,000,000 in buildings will be added in 1959.

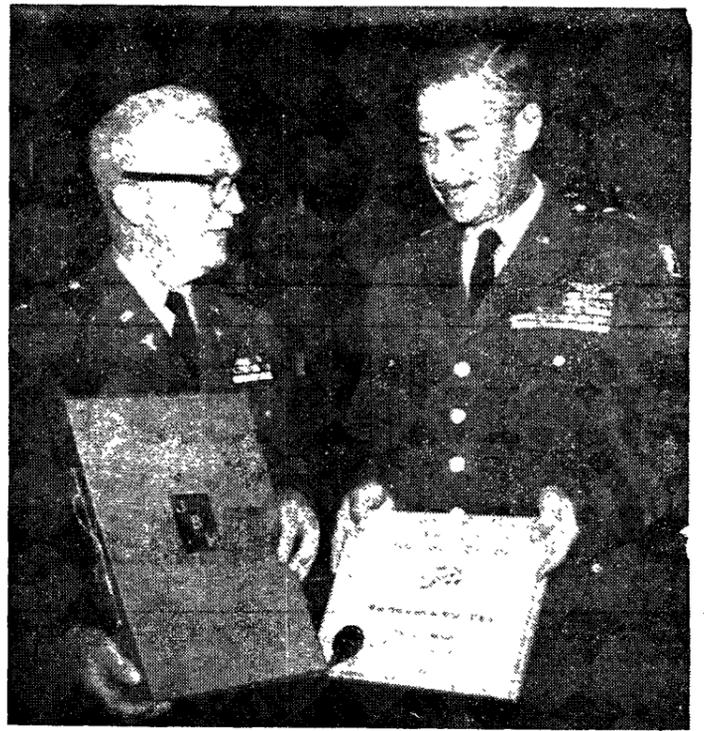
Payrolls were divided as follows:

OGMS, \$15,000,000; Thiokol Chemical Corp., \$8,000,000; Rohm and Haas, \$1,390,000; other contractor personnel, \$7,313,000; AOMC including ARGMA, ABMA and Redstone Arsenal, \$93,297,000.

AOMC also spent \$108,356,000 in Alabama during 1958 for materials, contracts, and miscellaneous expenditures. Including the 1958 construction program, the Command was directly responsible for expenditures of \$222,121,000 affecting the economy of Alabama and adjacent portions of Tennessee and Georgia.

Looking towards the New Year Maj. Gen. J. B. Medaris, Commanding General of AOMC, said:

"We anticipate continuing and orderly progress in the development, production, and fielding of the modern weapons systems for which we are responsible. We will also carry on assignments in the outer space field for the National Aeronautics and Space Administration and the Advanced Research Projects Agency."



DOUBLE HONOR — Maj. Gen. J. B. Medaris (right), Commanding General of the Army Ordnance Missile Command, was recently honored by both the Association of Ordnance Industry Physicians and the Madison County (Ala.) Medical Society. On behalf of the two organizations, Col. Harry C. McClain (shown above), Redstone Arsenal Post Surgeon, presented Gen. Medaris a certificate of honorary membership in the Association and a certificate of appreciation from the combined memberships of the Association and the Medical Society. The two organizations were recently guests of the AOMC for orientation tours and conferences, and held a joint dinner meeting at Redstone Arsenal.

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sile Command's West Coast Office, is now serving at Command Headquarters as Special Assistant to the Commanding General, Maj. Gen. J. B. Medaris.

Col. Crane entered the Army in 1941, and served overseas in Africa, Sicily, Italy, France, and Germany during World War II, receiving the Bronze Star in Germany in 1945.

After World War II he left the Army and worked as a research engineer on a gas turbine propulsion project. Upon rejoining the Army he served with the 2nd Armored Division, Ft. Hood, Tex., and later was appointed Post Ordnance Officer at Ft. Sill, Okla. From 1946 he served as an

ROTC instructor at the University of Oklahoma. For about two years he was Chief of the Systems Test Division of White Sands Missile Range, N. M.

Prior to assignment with the West Coast Office in 1955, he served two years as the Resident Ordnance Officer at Bell Telephone Laboratories, followed by an assignment in Paris with Dr. von Karman on the NATO Advisory Group for Aeronautical Research and Development.

Col. Crane received his BS degree in electrical engineering in 1941 from the University of Missouri and studied engineering at Shrivensham University, England, after World War II. He is a mem-

ber of Etta Kappa Nu, an honorary electrical engineering fraternity. He is also a graduate of the Command and General Staff College, Ft. Leavenworth, Kansas and the Guided Missile School, Ft. Bliss, Tex.

Col. Crane is the son of Mr. and Mrs. Elrow Crane of St. Petersburg, Fla. Mrs. Crane is the former Maryjane Shelver, daughter of Mrs. Hannah Shelver, 324 Mitchel, Ortonville, Minn.

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Lt. Col. Crane Named Special Assistant to Commanding General

Lt. Col. Glenn Crane, formerly chief of the Army Ordnance Mis-

Supply

(Continued From Page 1)

both the Army Ordnance Missile Command and the Ordnance Ammunition Command in fulfillment of these assigned responsibilities. Seventy-five Ordnance representatives will come here to attend the three-day seminar and tour the Missile Command's facilities. Approximately 35 members of the agencies within the Command will participate in the briefings to be held.

AOMC Support Operations is responsible for the coordination of all Ordnance Corps supply, maintenance, and technical assistance activities in support of field artillery missile units, both U.S. and NATO, slated for overseas deployment. Logistical responsibilities will also include support of Air Defense missile units, Ordnance Missile Support Units, Signal Missile Support Units, and Engineer Missile Support Units.

Personnel from the following agencies will be represented at the seminar: Office, Chief of Ordnance; Ordnance National Inventory Control Points; Distribution and Key Depots; Oversea Supply Agencies; Ordnance Districts; Fort Bliss; White Sands Missile Range; Fort Sill; and the Continental Army Command.

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AT OGMS RECEPTION—Col. H. S. Newhall, Commandant of the Ordnance Guided Missile School at Redstone Arsenal, Thursday held his traditional Commander's New Year's Day Reception at the Social Room of the Post Chapel. Shown exchanging greetings with members of the receiving line are Capt. and Mrs. George Morck. Capt. Morck, of the Royal Norwegian Air Force, is one of approximately 400 students from 11 Allied nations now undergoing training at OGMS. Left to right in photo are: Mrs. Morck; Col. Newhall; Capt. Mark L. Wilson (behind Col. New Hall). Allied Liaison Officer at OGMS; Mrs. Newhall; Capt. Morck; Mrs. Ernest W. Ewbank, Jr., Lt. Col. Ewbank, Assistant Commandant of OGMS.



AT AOMC RECEPTION NEW YEAR'S DAY—Maj. Gen. J. B. Medaris, Commanding General of the Army Ordnance Missile Command, Thursday held his traditional Commander's New Year's Day Reception at the Squirrel Hill Officers Club at Redstone Arsenal. Shown above exchanging greeting with members of the receiving line are Dr. and Mrs. Wernher von Braun. Dr. von Braun is Director of the Development Operations Division, Army Ballistic Missile Agency, an element of the AOMC. Left to right in photo are: Mrs. J. M. Colby; Brig. Gen. Colby, Deputy Commanding General, AOMC; Mrs. Medaris, Gen. Medaris; Mrs. von Braun; Capt. William A. Brooks, Aide-de-camp to Gen. Medaris; and Dr. von Braun.



MRS. J. B. MEDARIS, wife of Maj. Gen. Medaris, Commanding General of the Army Ordnance Missile Command, dances with her son, Cadet John Bruce Medaris, during the Christmas party held by the Command Executive Office. The party took place at the Squirrel Hill Officers Club with the Glenn Slayton band and Don Agee, vocalist from Decatur, featured on the program. About 100 persons attended. Cadet Medaris is a student at the U. S. Military Academy.

Canasta Group Will Resume Competition

The Canasta Group of the Redstone Arsenal Officers Wives Club will resume bi-weekly comp-

etition on Thursday, 8 Jan. at 10 a. m., Squirrel Hill Officers Club. All Club members are invited to participate in this activity. For further information and reservations, call Mrs. R. C. Roberts, ext. 7345.

Traditional New Year's Day Receptions Are Held

Traditional New Year's Day Receptions were held Thursday at Redstone Arsenal by commanders of the Army Ordnance Missile Command and its elements and the Ordnance Guided Missile

School. The AOMC receptions were held by Maj. Gen. J. B. Medaris, Commanding General, AOMC; Brig. Gen. J. G. Shinkle, Commander, Army Rocket and Guid-

ed Missile Agency; Brig Gen J. A. Barclay, Commander, Army Ballistic Missile Agency; and Col. K. T. O'Keefe, Commander, Redstone Arsenal.

The OGMS reception was held by Col. H. S. Newhall, Commandant of the School.

Traditionally on the first day of the new year, officer personnel at Army installations are received by their respective commanders.

In addition to the official military reception, Gen. Medaris also held an informal reception for civilian employees of his command and civilians of the Huntsville community.

Both Gen. Medaris' receptions were held at the Squirrel Hill Officers Club at Redstone Arsenal. The military reception was from 3 to 4:30 p.m. In the receiving-line, in addition to Gen. and Mrs. Medaris, were Brig. Gen. and Mrs. J. M. Colby. Gen. Colby is Deputy Commanding General of AOMC. Also in the receiving

(Continued on Page 5)

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AT ABMA RECEPTION—Lt. Col. and Mrs. Lee B. James exchange greetings with members of the receiving line at the Commander's New Year's Day reception held Thursday by Brig. Gen. J. A. Barclay, Commander of the Army Ballistic Missile Agency. Col. James is Chief, Research and Development Liaison Branch, Control Office, ABMA. Left to right in photo are Mrs. Thurston T. Paul, Jr.; Col. Paul, Deputy Commander, ABMA; Mrs. Barclay; Gen. Barclay; Lt. Alan Elston, Aide-de-camp to Gen. Barclay; Mrs. James; Col. James.



HOME FOR CHRISTMAS—Shown above are Col. and Mrs. K. T. O'Keefe with their son, SP4 John Cook (center), who spent the Christmas holiday season at home on leave from Ft. Campbell, Ky., where he is stationed. Picture was taken at Commander's New Year's Day Reception held Thursday by Col. O'Keefe, Redstone Arsenal Commander.



AT ARGMA RECEPTION—Shown above exchanging greetings with members of the receiving line at the Commander's New Year's Day Reception held Thursday by Brig. Gen. J. G. Shinkle, Commander of the Army Rocket and Guided Missile Agency, are Col. and Mrs. J. B. G. Britton. Col. Britton is Senior British Army Liaison Officer at Redstone Arsenal. Gen. Shinkle's reception was held in his home at 5 Wadsworth Drive on the post. Left to right in photo are Mrs. R. O. Lehtonen; Col. Lehtonen, Deputy Commander, ARGMA; Mrs. Shinkle; Gen. Shinkle; Col. Britton; Lt. Alton H. Evatt, Aide-de-camp to Gen. Shinkle; and Mrs. Britton.

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(Continued from Page 4)

line for the second reception, held from 5 to 7 p.m., were Col. and Mrs. Keith T. O'Keefe. Col. O'Keefe is Commander, Redstone Arsenal.

The reception held by Gen. Shinkle, the ARGMA Commander, was in his home at 5 Wadsworth Drive, on the post, from 2 to 4:30 p.m. Comprising the receiving line were Gen. and Mrs. Shinkle and Col. and Mrs. R. O. Lehtonen. Col. Lehtonen is Deputy Commander, ARGMA.

The reception by Gen. Barclay, ABMA Commander, was held from 12 to 2 p.m. at the Officers Club on post. In addition to Gen. and Mrs. Barclay, Col. and Mrs. Thurston T. Paul, Jr., formed the receiving line. Col. Paul is Deputy Commander, ABMA.

The Redstone Arsenal Commander, Col. O'Keefe, held his reception from 12:30 to 2:30 at his home on post, Bl. 7121, Headquarters Circle. Col. and Mrs. O'Keefe received guests. The Redstone Arsenal Deputy Commander, Col. Owen T. McCloskey, was on leave at the time of the reception.

Col. Newhall held his reception

* * *

for OGMS personnel from 2 to 4 p.m. in the Social Room of the Post Chapel. Guests included officers of 11 Allied nations now receiving training at OGMS, and also officers of Army Signal Electronic Training Detachment No. 2. In the receiving line were Col. and Mrs. Newhall; Lt. Col. and Mrs. Ernest W. Ewbank, Jr.; and Maj. and Mrs. R. G. Cooper. Col. Ewbank is Assistant Commandant. Maj. Cooper is Signal Corps Liaison Officer at OGMS.

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865TH GRADUATES — The 865th Strategic Missile Squadron graduated its first two officers from the Guided Missile Operations Officer Course recently. Lt. Col. John C. Eigenmann, Deputy Commander, second from left, and Lt. Col. George A. Doersch, Chief of Operations, third from left, display diplomas which qualify them as launch officers for the Jupiter IRBM. Left to right are Lt. Daniel W. Cronin, instructor in Orientation Course, Ballistic Missile Branch of the Ordnance Guided Missile School, Lt. Col. Eigenmann, Lt. Col. Doersch, and Lt. Col. Ernest W. Ewbank, Jr., Assistant Commandant of OGMS. The 865th, in training at the Army Ordnance Missile Command and OGMS, is commanded by Col. Glenn B. Daughton.

AOMC

(Continued From Page 1)
 ment. The 864th Strategic Missile Squadron (Jupiter) is nearing the end of training at Redstone Arsenal for early development. In December, a modified Jupiter was employed for space application for the first time as the booster stage of the JUNO II

space probe.
REDSTONE — While the developmental program has ended and the missile system is in production, ABMA retains responsibility for basic Ordnance functions of production, storage, issue and repair. During 1959 the Agency will support overland proficiency firings of the missile by artillery units at White Sands Missile Range. One artillery group trained at the Arsenal is deployed in NATO with the Redstone System.

PERSHING — This solid propellant ballistic missile system will eventually replace the liquid fueled Redstone. It is being developed by ABMA with the Martin Company, Orlando, Fla., as prime contractor. First tests of Pershing rocket motors have been conducted.

NASA Projects — Under technical direction of the National Aeronautics and Space Administration, the Missile Agency is preparing for several space pro-

jects to be carried out in 1959. Both Redstone and Jupiter missiles will be utilized.

ARPA Project — Development is proceeding on accelerated basis on a "super booster" developing 1,500,000 pounds thrust by clustering Jupiter type liquid fuel rocket engines. This project was assigned by the Advanced Research Projects Agency.

Army Rocket and Guided Missile Agency

CORPORAL — The missile system will continue in production and active field support will be provided. Corporal is deployed in NATO.

SERGEANT — The Jet Propulsion Laboratory is pushing the development of this solid fuel replacement for Corporal under ARGMA direction. The Sperry Engineering Laboratory will produce the missile.

HONEST JOHN — Support will be provided troop units deployed with the system overseas. Development of an improved type rocket will continue in 1959.

LITTLE JOHN — Development of this artillery rocket system will continue in 1959.

TARGET MISSILES — Efforts to develop a low-cost training target missile are proceeding. Development will be initiated on medium performance and hypersonic ballistic target missiles. Continued support will be provided for troop training.

LACROSSE — Production of this Field Artillery guided missile system by Martin Company will proceed in 1959.

HAWK — Evaluation of this anti-aircraft guided missile under extreme environmental conditions will be continued. Quantity production is expected to be initiated in the new year.

NIKE AJAX, NIKE HERCULES — During the coming year, defense of the United States and its Allies will be strengthened by increased deployment of the operational anti-aircraft guided missile systems.

NIKE ZEUS — Development and testing of the anti-missile system will proceed on a high priority basis.

PLATO — Development and component testing of this mobile field Army anti-missile system will be continued.

REDEYE — Development of this surface-to-air guided missile system will begin early in 1959 by Convair.

LOBBER — Testing of the Convair-developed cargo transport missile system will be performed at Redstone Arsenal in 1959.

Feasibility studies, design and possible development of other weapons systems will continue by ARGMA.



A SCENE REPEATED 3,348 TIMES — Mrs. Woodson Shumaker, a volunteer nurse, prepares to accept blood-donor SP-4 James R. Ito's contribution at Redstone Arsenal, in a scene which was repeated 3,348 times during the past year at the headquarters installation of the Army Ordnance Missile Command. The total 1958 blood collection was 507 pints over the 2,841 pints donated during 1957.

3,348 Pints of Blood Given by Post Personnel To Red Cross During '58

A total of 3,348 pints of blood were given by Redstone Arsenal personnel to the American Red Cross Bloodmobile during the past year, it was announced by Maj. Jesse A. Garner, RSA Blood Chairman.

This represented an increase of 507 pints over the total of 2,841 donated during 1957.

Seventy-seven more would-be donors volunteered during 1958 to give blood, but had to be rejected for various reasons.

Military personnel gave 990 pints, civilian personnel 2,358.

The Bloodmobile paid six regular visits to the post, and one emergency visit, during the past 12 months. The emergency visit, in July, was necessitated by the heavy demands on the ARC's Birmingham Regional Blood Bank occasioned by the unusual number of traffic accidents during the early Summer months.

In four out of the six regular visits this year, blood donations exceeded those for the same period of 1957.

The last visit of the Bloodmobile this year netted 577 pints, on Dec. 11.

"The response to each visit during 1958 has been most gratifying, with people from all parts of the Arsenal participating," Maj. Gar-

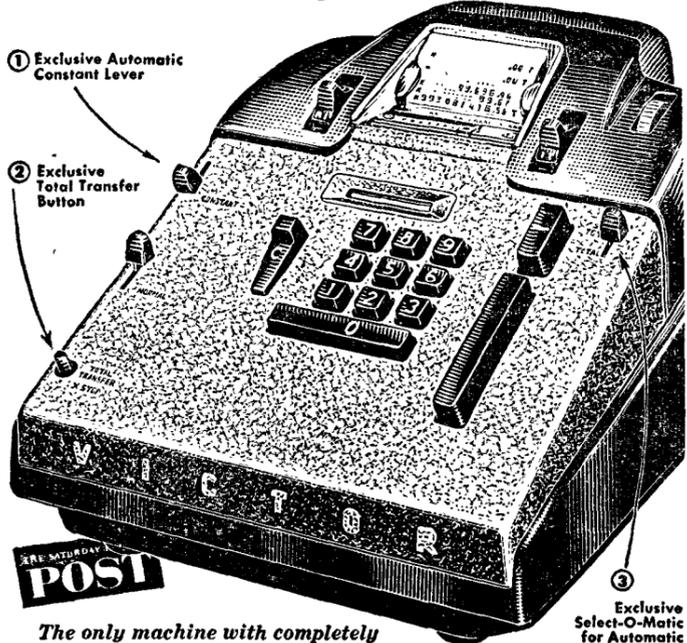
ner stated. "We would like to express our thanks to the coordinators, recruiters, donors, and to everyone who had a part in making each visit a successful one."

Maj. Garner said he spoke in behalf of the following officials connected with the post's blood drives: Miss Corrie Knight, Field Director, Madison County Chapter, ARC; Mrs. Thelma Dawson, Bloodmobile coordinator for Redstone Arsenal; CWO U. L. Jacobs, Bloodmobile logistics officer; Mrs. J. N. Jean, chairman of volunteers; Mrs. D. J. Walsh, chairman of Gray Ladies; Mrs. H.N. Brownson, chairman of staff aide services; Mrs. H. V. Smith, chairman of volunteer dependent nurses at Redstone; and Mrs. D. E. Foxworthy, chairman of canteen services, Madison County Chapter, ARC.

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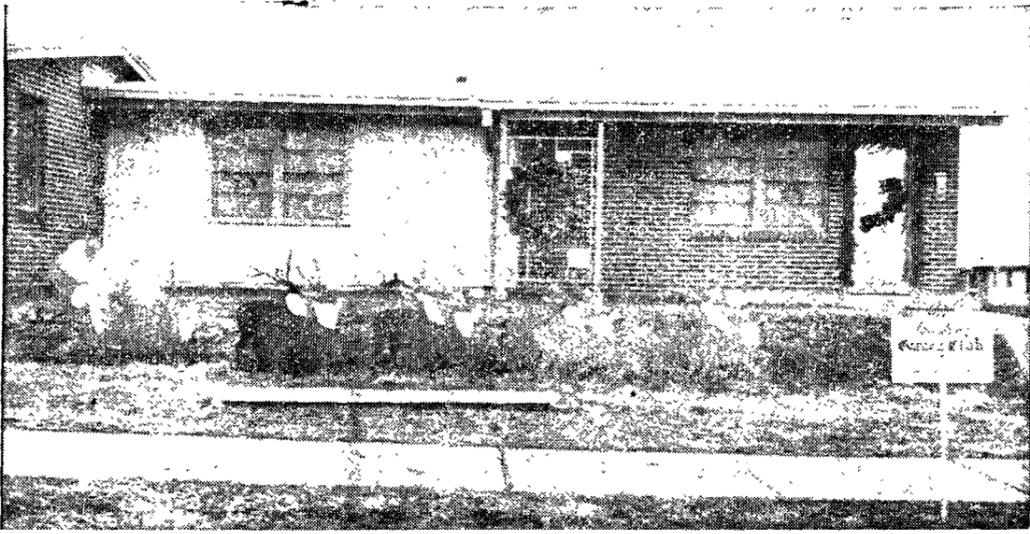


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SANTA AND HIS REINDEER—A sleigh full of surprises with Santa Claus and his reindeer highlighted on the lawn of Capt. and Mrs. Donald L. Voorhees won the Redstone Garden Club plaque for achievement in December. The Garden Club makes monthly awards to families who have made the most improvement in the area surrounding their quarters. The January meeting of the Garden Club is scheduled for Jan. 20 at Pearsall's Florist Shop at 1:30 p.m.

RSA Garden Club Plaque Awarded to Capt., Mrs. Voorhees

The Redstone Garden Club awarded the club's plaque to Capt. and Mrs. Donald Voorhees, Quarters 250D, for achieving the best decorative display for December.

The Christmas luncheon of the Redstone Garden Club was held at the Redstone Room in the Squirrel Hill Officers Club on Dec. 11. Highlight of the luncheon was the rendition of Christmas songs by Jewel Evatt and Max Kamp, accompanist.

The next meeting of the Garden Club will be held at Pearsall's Florist Shop on Jan. 20 at 1:30 p. m. There will be a tour of the greenhouse and a question and answer period. Anyone wishing to attend or any prospective new members should contact Mrs.

Bids Called for New ARGMA Building, Similar To ABMA Headquarters

Bids for a new building, which would be similar to the present Army Ballistic Missile Agency headquarters building, were advertised by the Army Engineers last week.

The multi-million dollar project, to be called the Missions Engineering Building, will be constructed on the north side of Martin Road, between Mills and Patton roads.

The structure will house engineering and administrative workers now at Redstone Arsenal. The new building will be an Army Rocket and Guided Missile Agency facility.

The new building will be built

Robinson at Arsenal ext. 7452.

of structural concrete and will have three parallel wings of three stories each. The total floor area will amount to about 208,000 sq. feet, or the equivalent of about 170 average-sized houses.

Bids on the project will be opened at the U. S. Army Engineer district office in Mobile on Jan. 14.

Missilemen Volleyball Team Needs Players

Experienced volleyball players are invited to join the Missilemen team in the Huntsville YMCA League, it was announced by George Ferrell, team captain.

The team is composed of both military and civilian players from Redstone Arsenal.

Games are played once or twice weekly, at 5:30 p. m. at the "Y." Interested persons should contact Ferrell at ext. 5330.

Pfc. John Wilder Is Cited for Work

Pfc. John E. Wilder of the Army Ordnance Missile Command, recently received a Commendation Ribbon with Metal Pendant for meritorious achievement.

He is the son of Mr. and Mrs. John B. Wilder, of Norridgwick, Pfc. Wilder is a physical sciences assistant in Operations Research Division, AOMC Assistant Chief of Staff for Military Applications and Training.

employe group. All civilian employees of the Army Ordnance Missile Command are eligible for membership and all members and guests are invited to attend meetings.

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DANES GET UNUSUAL GIFT—Danish Army Corporals Bent Raith (left) and Johan Ljungmann tell friends at the Ordnance Guided Missile School how a North Alabama businessman, Joe B. Moore of Sheffield, treated them to an \$88 telephone call to Denmark while they were bowling along a highway in his telephone-equipped Cadillac.

Phone Call

(Continued from Page 1)

As he rode along with the two young foreigners, Moore explained the battery of push buttons and dials in the big car. Then the talk got around to the special telephone installation.

On the spur of the moment, he

Diner: "Waiter, what kind of soup is this?"

Waiter: "It's bean soup, sir."

Diner: "I don't care what it's been...what is it now?"

Safety Scoreboard

(As of 5 Jan.)

Days since last civilian disabling injury	40
Our Goal	60
Days since last military disabling injury	16
Our Goal	30
Days since last contractor personnel disabling injury	31
Our Goal	60
Days since last government motor vehicle accident	2
Our Goal	30

19-year-old sister. Everybody was so excited that they forgot to awaken a 13-year-old brother who is still sulking. Herr Raith, in turn, called the parents of Cpl. Ljungmann at Hillerod, 20 miles away, and relayed messages.

When the Danes got out at Decatur for the last lap to Huntsville, Moore told them the \$88 charge for the 20-minute talk to Denmark was a special gift to two Vikings far from home.

"It just proves that anything can happen in the U. S. A. — and usually does," say the delighted Danes.

asked Cpl. Raith to pick up the phone and put through a call to Denmark while the car bowled along the highway.

Faster than the reindeers of Saint Nicholas, the call went through to Cpl. Raith's father, Herr Einar Raith, a salesman of office machines, at 16 Nyvej (New Road) in Copenhagen, some 7,000 miles from North Alabama. It was six o'clock in the evening somewhere near Cullman, but in Denmark it was one in the morning.

Nevertheless, Herr Raith answered. After some initial disbelief, there was pandemonium in the quiet Copenhagen suburb for the next 20 minutes. Cpl. Raith talked to his parents and to his

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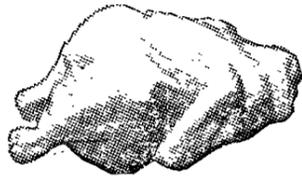
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Assistant Secretary of Army Frank Higgins to Speak at First Meeting of Chattanooga AOA Group



FRANK H. HIGGINS

The Honorable Frank H. Higgins, Assistant Secretary of the Army, will be featured speaker at the first annual meeting of the Chattanooga Chapter, American Ordnance Association, on Thursday evening, Jan. 8, at Chattanooga.

His subject will be "The Business Side of the Army."

The meeting will be held in

the Tennessee Room of the Patten Hotel beginning at 6:30 p. m., EST. A reception and social hour will precede the dinner.

Representatives of Chattanooga's industrial and civic organizations are invited to attend the event, as well as all members of the Tennessee Valley Post, American Ordnance Association, of which the Chattanooga Chapter is a segment. The Tennessee Valley Post has its headquarters in Huntsville, and tickets for the Chattanooga Chapter meeting are available from all officers and directors of the Post, including the Secretary, Jeff Darwin.

Secretary Higgins has served as Assistant Secretary of the Army since 1954. Originally designated Assistant Secretary of the Army for Logistics and Research and Development, his title was changed in 1955 to Assistant Secretary of the Army for Logistics.

Born in Averill, Mich., he was graduated from Tri-State Business College, Toledo, O. Prior to entering Army service in 1942 as a colonel, he was employed in executive capacity with industry.

During his military tour of duty, Secretary Higgins served as assistant to the Chief of Ordnance, War Department, Washington, D. C. and executive officer of the Production Engineering Section, Chief of Artillery Ammunition; and as special assistant to the Under Secretary of War.

He received the Legion Merit for his World War II accomplish-

ments, and returned to executive duties with industry in 1945.

In 1949 he went to Paris, France, as chief of the Machinery and Equipment Section of the Industry Division, Economic Cooperation Administration and assistant director of the Mutual Defense Assistant Pact program in Paris.

He returned to executive duties with industry in 1950.

Three years later he was appointed as Deputy Assistant Secretary of the Army (Materiel), becoming Deputy Under Secretary of the Army in February 1954 and Assistant Secretary of the Army in August 1954.

An honorary member of the American Ordnance Association, Secretary Higgins was awarded the Charles L. Harrison Gold Medal Award for outstanding service to American Ordnance on October 16, 1956. He is also a member of the American Legion; the Union League Club; Rotary; the Postoria, O., Country Club; the Detroit Athletic Club; and the American Club, Paris France.

Sen. Estes Kefauver To Accompany Higgins To Meeting of AOA

Senator Estes Kefauver will accompany the Honorable Frank H. Higgins, Assistant Secretary of



'CARPENTERS' FOR KINDERGARTEN — Pupils of the Redstone Post Kindergarten inspect their new classroom furniture—including five tables and 50 stools—built for the class by enlisted men of the 32nd Ordnance Detachment, Ordnance Guided Missile School. Shown above delivering the furniture to the Redstone Park Community Hall are (left to right) Pfc. Lyle S. Bartell, Sgt. William L. Evans, Pfc. John S. Derdzinski, and SP5 Lonnie L. Harrison. Looking on at left is Mrs. William B. Hawkins, kindergarten teacher. About half the personnel in the 42-man OGMS unit constructed the furniture in three weeks on a voluntary basis during off-duty hours, according to M-Sgt. Henry J. Bullard, operations sergeant. The project was organized by Sgt. Bullard, a member of the post's Joint Activities Council, which sponsors the kindergarten. Sgt. Bullard estimated his men's contribution of effort resulted in a saving of approximately \$400 to the Council.

the Army, when he arrives in Chattanooga on tomorrow to address the first annual meeting of the Chattanooga Chapter, American Ordnance Association.

The meeting is scheduled for 6:30 p. m. EST at the Tennessee Room, Patten Hotel. Secretary

Higgins will discuss "The Business Side of the Army."

A reception and social hour will precede the dinner meeting. Representatives of Chattanooga's industrial and civic organizations have also been invited to attend the event.

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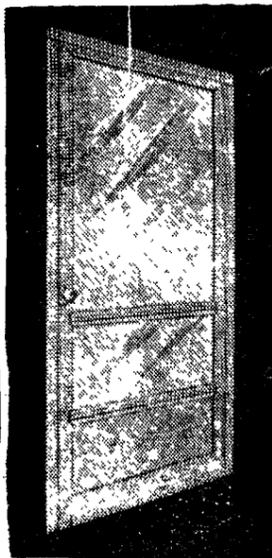
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AT CHILDREN'S CHRISTMAS PARTY—Santa Claus arrived at Redstone Arsenal a little early (on Dec. 22) laden with Christmas gifts for all dependents of Arsenal military personnel during the day-long Annual Christmas Party. The children, ranging in age from infants to nine years of age, were divided into four groups. Parties were held simultaneously at 9:30 a.m. and at 1:30 p.m. The Arsenal's Rocket Auditorium and the Post Theatre were packed to capacity for the parties sponsored by the Arsenal's Joint Activities Council through its Special Projects Committee. Santa is shown above presenting a gift to Mary Frances Ingledew, age 7.

1,000 Children Attend Christmas Yule Party

One thousand children of Redstone Arsenal military personnel attended the Arsenal's Annual Children's Christmas Party held Dec. 22nd at the Post Theater and Rocket Auditorium.

The guests, ranging in age from infants in arms up through nine years were feted with a program of Christmas music, movies, and distribution of gifts.

The party was sponsored by the Arsenal's Joint Activities

OGMS Doubled

(Continued from Page 1)

The statistics disclose the growth of a huge training center with students from all branches of the U. S. armed forces and from 11 allied nations.

OGMS has become the third largest institution of higher learning in the state, ranking only behind the University of Ala-

bama and Auburn. Faculty, staff, and permanent administrative and maintenance personnel now number 2,076, up from 1,165 a year ago. Its payroll is \$15,775,000 for the fiscal year ending on June 30th, up from \$9,140,000 last year. In fiscal 1960, it is expected to top \$27,000,000.

More than 5,000 students were graduated last year, bringing its "alumni" to 12,725 trained in six years of operation. Graduates in the New Year should approximate 7,500, an increase of about 50 per cent. Civilian employees at the school increased last year from 197 to 340. The curriculum was expanded during the past year from 23 courses to 47, to accommodate more Army and allied students as well as hundreds of Air Force students sent here for ballistic missile training. Courses vary in length from five months to more

bama and Auburn.

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than one year.

OGMS now uses 93 buildings, many of them the most modern of their type. The school in 1958 occupied three huge new academic buildings, two vast laboratories and other facilities costing \$7,700,000.

These added 141 new classrooms, three auditoriums and more than 100,000 square feet of "study hall" space where students can take apart and reassemble missiles ranging from the giant Jupiters and Redstones to the small Hawks.

Also completed and occupied were 14 troop barracks and a 1,000-man mess hall which has become North Alabama's largest cafeteria.

Under construction for 1959 occupancy, programmed or awaiting official approval are a number of other buildings, including another group of structures to house 1,200 troops, another of the large 47-room academic buildings, and a technical library that will house one of the world's most complete collections of books and literature on missiles and rockets. Projects already under way or approved will cost approximately \$3,000,000. Approval of others may double that total before the end of 1959.

OGMS has now graduated the pioneer missile students from eight nations of the North Atlantic Treaty Organization—Belgium, Canada, Denmark, France, Germany, Great Britain, Italy and Norway. Still in training are the first missile groups from Turkey, Greece and Nationalist China.

The school also has trained students from the Navy, Marine Corps and presently is instructing hundreds of Air Force students in ballistic missile courses.

In addition to its academic functions, OGMS also trains and sends tactical ordnance missile support units onto active duty throughout the world. The school activated eleven U. S. and four

Resupply

(Continued From Page 1) missiles which might be useful in combat in delivery of high priority cargo to troop units isolated from their parent organizations.

Convair offered to flight test the Lobber at the Arsenal, location of the Missile Command headquarters, on the ranges operated by the Army Rocket and Guided Missile Agency.

NATO units in fiscal 1958. It will activate twenty-three units in 1959; twenty-five in 1960; and forty-seven in 1961, indicating steady growth.

Col. Newhall called special attention to the establishment of the OGMS television branch during the past year.

The school is now telecasting live courses in missile maintenance to Fort Knox, Ky., on a regularly scheduled basis by large screen closed circuit television. The programs are produced several times a month and last two hours, a major television venture.

Col. Newhall said the Army is now planning to make further use of these large screen television facilities, with the possibility that 1959 will find OGMS the center of an expanding TV network for missile instruction to various parts of the nation.

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FOR SALE — 1957 Schult Mobile home. 35 ft. 1 bedroom, like new condition. Located Lot 2, B & J Mobile Court. Call R. Stevens, Ext. 3022. 1-14p

FOR RENT in Scottsboro—Large furnished apartment, 4 rooms and bath, adults only. See at 710 Market St., or phone Scottsboro 369 or 357. 1-21c

FOR SALE — 10' wide, 51' long Mobile Cruiser, washer, dryer, wall to wall carpeting, awning, other good features. Phone Redstone ext. 2355 or JE 6-7740. 1tc

AUCTION SALE—Our next auction sale will be held tomorrow night, (Thursday, Jan. 8) 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). Wholesale Sales Co., Four Lane Drive, city limits. Phone JE 6-2103. 1tc

FOR SALE — Brand new 1958 8-ft. Philco Refrigerator used 2 months. \$175. Unexpectedly transferred. Can be seen at 3007 Meridian St. N. 1tp

FOR RENT — 5 units of 3-room apartments, furnished, ceramic tile baths, each unit has two private entrances, all modern. Good location. Phone JE 4-6990. 1tp

FOR SALE—Nice, beautiful new brick veneer home in Guntersville, Alabama, three bedrooms, 1½ ceramic tile bath, carport, storage, concrete drive, nice level lot, 3% down, payment on FHA, already have commitment. Immediate possession. Contact Cornelius Real Estate Company, phone Justice 2-3027, Guntersville, Alabama. 1-16-59

FOR SALE — Homes built to your plans and specification in Arab, and Guntersville, 1% down up to \$13,500. for qualified veterans in restricted subdivision. Contact Cornelius Real Estate Company, Guntersville, Ala., phone Justice 2-3027. 1-16-59

JUST COMPLETED trailer park, large lots, water and electricity furnished. 1¼ miles north of Athens Court House on Ala. 127. \$25 per month. Phone 1749 after 5 p.m. Raymond Bennett. 1-15c

HOUSE FOR SALE IN HARTSELLE—On U. S. 31 in city limits. Get away from high prices. Brand new, brick veneer, 3 bedrooms, pine paneling in living room, dining room, and kitchen. Bath, utility room and carport. Built-in gas heat panels. Call MRS. N. E. BAILEY, Hartselle SP 3-9146 or SP 3-9512. ttc

FOR RENT—New house in Guntersville in Sunrise Shores waterfront, 3 bedrooms, bath, utility room and carport, \$120.00 per month, unfurnished. Phone JU 2-4959. ttc

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FOR SALE — Beautiful 112x145 ft. lot in Athens best section, \$2600.00 cash. Call J. B. Elliott, Redstone ext. 8428. ttc

WE BUY — SELL OR TRADE—AUCTION HOUSE, W. Holmes St. Furniture sold off the floor each day of the week. Phone JE 6-2241. ttc

TRAILER SPACE available at Decatur Trailer Park, concrete patios, laundry facilities on Highway 31 South, also at Uptown Trailer Court, Decatur, Ala. Convenient to churches and schools, business district. Five blocks south of river bridge on Highway 31. Modern laundry facilities. Wiring adequate for any kind of electrical appliance. Free laundry service to patrons of Decatur Trailer Park. For reservation write P. O. Box 239, Decatur, Ala. ttc

MONEY for Part-time Farm Owners and folks with Homes in the Country. Ask for details on the low-cost, long-term, real estate loan plan now available from the Equitable Life Assurance Society of the U. S.

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SO. SPARKMAN ST. — 3 bedrooms, 2 baths, living room, dinette, kitchen, large den, basement, carport, large porch, furnace heat. Several outbuildings, one with bath, fenced-in back yard, barbecue pit, 202x272 corner lot, paved both sides, 27 shade trees. This is it!

WOODLAND DRIVE & CEDAR ST. CORNER — 7 rooms, bath, carport, screened porch, air conditioned, fenced-in back yard, TV antenna. Both streets paved, city sewerage, and immediate possession. A dandy value.

W. MAIN ST. — 30 acres, 6-rm. house with bath, city utilities, car and tractor shed and work shop. Ideal for subdivision.

509 NO. CEDAR ST. — Modern, ranch style, with large living room, kitchen, 2 bedrooms, bath, extra large den. Has attached garage, paved driveway, paved street, city sewerage, plenty of shade trees, air-conditioned, electric heat, complete with drapes.

523 E. MAIN ST. — New brick veneer, living room, dining rm., kitchen, 3 bedrooms and bath. 140x879-ft. lot. Look at this one.

HAMMETT ST. — 3 bedrooms, bath, living room, large kitchen and dining combination, newly decorated inside and out. Immediate possession, and only \$5,500.

PIKE ST. — (Adjoins new Hammett addition east edge of town) Brand new 3-bedroom, kitchen-dining combination, living room, ceramic tile bath, carport, storage. Full insulated, electric heat, TV outlets installed.

TWO BRAND NEW 3-BEDROOM brick veneers on Highway 31 in town.

WESTOVER TERRACE — 115 Crestline Drive, brand new 3-bedroom, living room, family room, kitchen, ceramic tile bath, electric heat, built-in electric kitchen, 2 bedrooms, wall-to-wall carpet. Carport and storage, city sewerage. For only \$12,000 — FHA loan available.

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ROOMS FOR RENT—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial JE 4-6452. ttc

LOT FOR SALE — Suitable for duplex, 100x150 ft. located on Jordan Lane and Highway 72. Phone JE 2-2652. ttc

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Drive out and see our display of quality home furnishings at wholesale prices. Our low overhead permits us to give you extra discount savings. Ask about our easy pay plan. Furniture Outlet Store, Meridianville, Ala., Phone JE 6-6857. Go Out-a-way — Less-to-pay ttc

Contracts Awarded For Additions to Arsenal Facilities

A contract for \$1,507,020.95 for extensive additions to ARGMA and ABMA facilities for development of missile propellants at Redstone Arsenal has been awarded to Daniel Construction Co. of Birmingham, Ala., by the Army Engineers in Mobile.

Construction of a three-story

Houses For Sale BELAIR

SUHILL ROAD — 3 bedrooms, 2 ceramic tile baths, large, living room, nice dining room, pine panel den, gas forced air heat, nice large lot, connections for automatic washer and dryer, carport.

MARTHA DRIVE, BELAIR — 4 bedrooms, 2 ceramic tile baths, large kitchen with dining area, carport with big utility room, automatic washer and dryer connections.

LAKEWOOD DRIVE— Very nice 3 bedroom house on beautiful lot, aluminum awnings, 4 channel TV antenna, beautiful shrubs, nice bermuda grass lawn. Should see to appreciate.

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MODERN HEALTH Club Services — Central YMCA, 203 South Green St. is offering massages, turkish baths, electric heat cabinets, ultra-violet and infra-red lamps, diathermy, sun lamp swimming pool. Graduate Masseuse in charge. Phone JE 2-2444. ttc

NOW OPEN — Self service coin operated Brandon Street Laundromat. Open 24 hours a day 6 days a week at 2108½ Brandon St. S. W., next to Hill's Super Market. ttc

Redstone Employee Gets Yule Card From Secretary of Army

Samuel B. Holman, of Finance and Accounting Division, RSA, was pleasantly surprised to find among the Christmas cards he received one from Secretary of the Army Wilber Brucker.

Holman had met the Secretary back in June when Brucker visited the post. Sec. Brucker had expressed a desire to meet any World War veterans who had served in his old outfit, the famed 42nd (Rainbow) Division. Holman was a private first class in that division at the same time Brucker was a young second lieutenant.

Holman's prized Christmas card read as follows: "The Secretary of the Army and Mrs. Brucker wish you every happiness at Christmas and throughout the New Year."

"That was sure nice of him, wasn't it?" commented the Redstone employee. "I'm surprised he would remember meeting me."

engineering building, engine preparation and assembly building, and other special purpose facilities are included in the contract. This represents the second increment of the propellant test facilities contracted for at Redstone Arsenal.

Another contract for \$245,296 for construction of a vertical test stand, and modification of an existing building in the general area of Buxton and Patton Roads, was awarded to Butler and Cobbs, Montgomery, Ala. The structure will be used in test work by both ARGMA and ABMA.

A kangaroo visited a psychiatrist. "What's wrong?" asked the doctor. "I don't know," replied the kangaroo, "I feel jumpy all the time."

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'58 Highlights of Army's Missile and Space Programs Listed

The following significant events, representative of the progress achieved in Army missile, rocket and space programs during Calendar Year 1958, have been tabulated by the AOMC Public Information Office:

JANUARY

7 - Pershing Ballistic Missile System initiated by Defense approval of the Army's proposal.

15 - Activation of the 864th Strategic Missile Squadron (Jupiter) by the U. S. Air Force at Redstone Arsenal.

15 - Successful testing of the Lacrosse Missile System light-weight helicopter transportable.

31 - Launching of Explorer I, first U. S. scientific earth satellite employing the Army-developed Jupiter C multi-stage rocket.

MARCH

26 - Launching of Explorer III scientific earth satellite.

31 - U. S. Army Ordnance Missile Command activated with Maj. Gen. J. B. Medaris as the first Commanding General. Brig. Gen. J. A. Barclay becomes commander, Army Ballistic Missile Agency; Brig. Gen. J. G. Shunkle, commander, Army Rocket and Guided Missile Agency; Col. K. T. O'Keefe, commander, Redstone Arsenal. Maj. Gen. W. E. Laidlaw was named commander of White Sands Missile Range and Dr. William E. Pickering as head of the Jet Propulsion Laboratory.

MAY

1 - Sergeant solid propellant surface-to-surface missile system unveiled at White Sands Missile Range as development under supervision of Jet Propulsion Laboratory, an AOMC element, approaches production stage.

5 - Hawk air defense missile destroys QF-80 aircraft flying at treetop level.

16 - First firing of a large U. S. ballistic missile, the Redstone, by combat troops conducted at Cape Canaveral, Fla.

18 - First successful recovery of full-scale IRBM nose cone, launched by a Jupiter from Cape Canaveral, Fla., with assistance of the U. S. Navy.

25 - Establishment in ARGMA Field Service Division of Military Assistance Program which provides field service assistance to Allies employing U. S. weapons systems.

JUNE

1 - Activation of the 865th Strategic Missile Squadron (Jupiter), by the U. S. Air Force at Redstone Arsenal.

2 - First overland firing of a large U. S. ballistic missile by combat troops. A Redstone was successfully launched by the 40th Field Artillery Missile Group (Heavy) at White Sands Missile Range.

20 - Deployment of the Redstone Ballistic Missile System in NATO by the 40th Field Artillery Group (Heavy).

28 - First Nike Hercules battalions deployed in the continental U. S. at Washington, D. C., New York, N. Y. and Chicago, Ill.

JULY

1 - Project AMMO demonstrates Army missile system capabilities at the White Sands Missile Range.

17 - Second full-scale Jupiter IRBM nose cone successfully recovered after firing from Cape Canaveral, Fla.

22 - Explorer IV scientific earth satellite launched from Cape Canaveral, Fla.

25 - Series of Nike Hercules firings at Eglin Air Force Base, Fla. demonstrate its capability of singling out a specific target among a group of aircraft flying at different altitudes in different directions.

AUGUST

15 - Advanced Research Projects Agency assigns to ABMA responsibility for development of a 1,500,000-pound thrust liquid propulsion unit for space applications.

15 - Construction begins on 316 Capehart housing units at Redstone Arsenal.

20 - Facilities for Nike Zeus system testing under construction at White Sands Missile Range.

28 - First tactical Jupiter IRBM delivered to U. S. Air Force and accepted by 864th Strategic Missile Squadron.

SEPTEMBER

15 - Nike Hercules battalion deployed on Formosa.

19 - Secretary of the Army Wilber M. Brucker and his Civilian Aides visit the Missile Command at Redstone Arsenal.

22 - Hawk air defense missile fired by military personnel kills QF-80 drone at White Sands Missile Range.

OCTOBER

10 - Jupiter tactical preparation demonstrated by 864th Strategic Missile Squadron at Redstone

Arsenal.

12 - Nike Zeus booster, designed to propel the missile to high altitude within extremely short time, successfully tested at Redstone Arsenal. This was largest solid propellant thrust motor known to exist at the time.

24 - Redstone Ballistic Missile undergoes static firing at White Sands Missile Range, the first time such a test had been conducted there.

NOVEMBER

5 - Last firing of a Redstone Missile in the research and de-

velopment phase successfully conducted at Cape Canaveral, Fla.

18 - Commanding General addresses the NATO Parliamentarians Conference in Paris, France.

19 - Nike Hercules achieves spectacular success in destroying high-altitude, high-speed targets. Speeds in excess of 2,000 miles per hour, altitudes of more than 100,000 feet, were involved.

24 - AOMC Headquarters established in new office building at Redstone Arsenal.

26 - Pershing solid propellant '58 highlights of army's ... galley2.

motor tested at Redstone Arsenal.

DECEMBER

3 - A Presidential Order transfers Jet Propulsion Laboratory to management of NASA. AOMC becomes principal Army agent for conduct of space projects assigned by NASA.

6 - Army-NASA deep space probe launched at Cape Canaveral, Fla., employing the Juno II rocket configuration for the first time. Probe penetrated more than 65,000 miles into space and re-

turned valuable data concerning cosmic radiation detected by the Explorer satellites.

13 - First successful flight of the Jupiter IRBM incorporating the tactical ballistic shell configuration. The on-target firing also as a secondary mission carried a primate over IRBM distance and contributed highly useful data for Army and Navy medical research into space flights.

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THE REDSTONE ROCKET — JANUARY 7, 1959



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