

Missile 'B' Contract Awarded Chance-Vought

The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers 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

NOVEMBER 7, 1962



3-2-1-FIRE—Static firing test of a Nike Zeus booster motor at Redstone Arsenal gets intense attention of Dr. Craig Crenshaw, Chief Scientist, and Maj. Gen. Frank H. Britton, Chief of Research and Development, Army Materiel Command in Washington. Observing with them is Col. R. W. Burkett, Director of Directorate of Research and Development, Army Missile Command.

AT MISSILE COMMAND—

Gen. Britton, Dr. Crenshaw View Research And Development Progress

Rockets fired from an H-34 Helicopter highlighted a recent two-day tour at Redstone Arsenal by Maj. Gen. Frank H. Britton, Chief of Research and Development for the Army Materiel Command in Washington, D. C.

Accompanying Gen. Britton was Dr. Craig Crenshaw, Chief Scientist, Army Materiel Command.

The two were briefed extensively on operations of the Directorate of Research and Development, Army Missile Command and received a first-hand look at latest developments in all the R&D Laboratories.

After a welcome by Col. Raymond W. Burkett, Director of Research and Development, Gen. Britton was briefed on overall developments in the Directorate by John L. McDaniel, Technical Director of R&D.

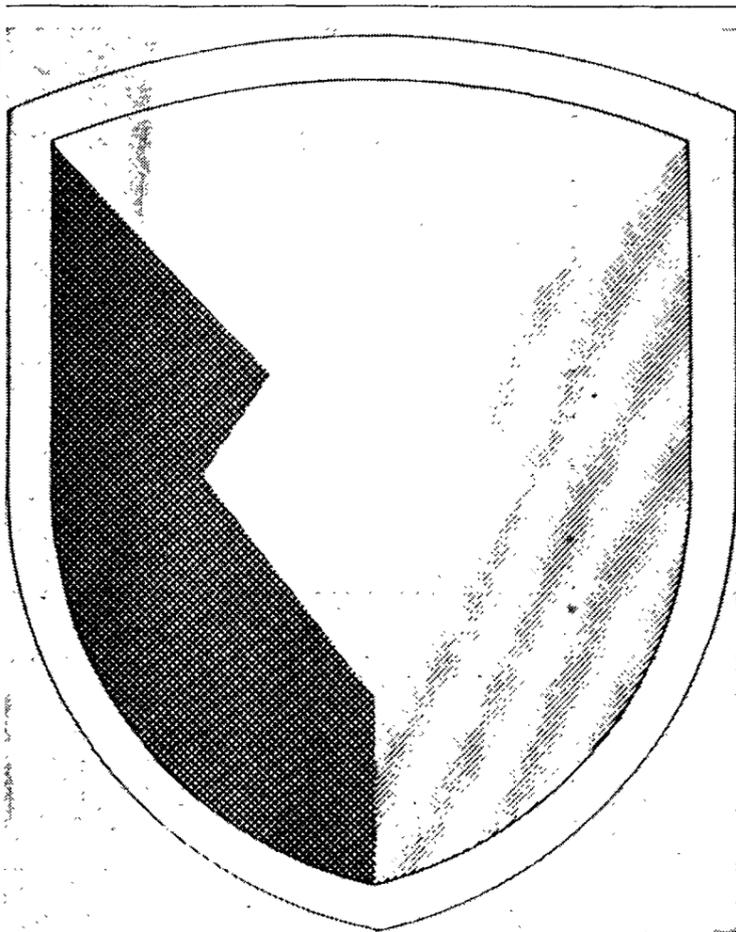
Gen. Britton and Dr. Crenshaw were briefed on surface-to-air systems by Col. John T. O'Keefe, Chief of the Development Division, and received status reports of research programs being conducted for the Advanced Research Projects Agency of the Department of Defense from William Lindberg, Chief of the ARPA Division.

Jess B. Huff, Jr., Director of the Guidance and Control Laboratory, showed the General the latest components designed to carry a missile to the target.

Gen. Britton saw how problems of re-entry heating are studied at ground level in the Physical Science Laboratory's plasma re-entry facility. John P. Hallows, Jr., Director of the laboratory, provided technical explanation.

Missiles of tomorrow were shown and explained by Lt. Col. James C. Miller, Jr., Chief of the Future Missile Systems Division. The propellants being developed to furnish power for these missiles, along with present-day propellants, were shown by Frank W. James, Director of the Propulsion Laboratory.

(See BRITTON on Page 3)



■ RED □ BLUE

AMC Adopts New Emblem

An especially designed shoulder sleeve insignia, symbolizing the joint role of the U. S. Army and American industry in support of national defense, has been authorized for eventual wear by the 20,000 military personnel of the U. S. Army Materiel Command (AMC).

The insignia design, which con-

sists of a red, white and blue shield, will also be used by the AMC as a decorative identifying symbol.

The white area represents the command and control elements of the organization with the red area used to represent the Army and

(See EMBLEM on Page 3)

Missile Command Will Be Manager

Chance Vought, a division of Ling-Temco-Vought, was selected as prime contractor by the Army Nov. 1 for two of its newest development programs, Missile B and a 1 1/4 ton truck, the XM 561.

Formal contracts for both systems will be negotiated between the Army and Ling-Temco-Vought. The Missile B contract will be for development and initial production of the missile system and is anticipated to be approximately \$100,000,000. The XM-561 contract will be for development of the new vehicle and it is expected to be approximately \$2,500,000.

Management of the Missile B program will be under the U. S. Army Missile Command at Redstone Arsenal, an element of the U. S. Army Materiel Command. Col. W. W. Holmes, Missile B Project Manager, and his staff are located at Redstone.

The Warren Ordnance Plant located in the Detroit, Mich., area has been selected as the site for the new work. The Warren plant is a U. S. Army-owned facility which has been used in the past for development and production of major Army weapon systems.

The selection of Ling-Temco-Vought as prime contractor for Missile B marks the end of the 60 day program definition phase conducted with Chrysler Corp., (See MISSILE 'B' on Page 3)

Commanders Conference Scheduled

Redstone Arsenal will spread the welcome mat this month for the Commanders Conference of the Army Materiel Command. Lt. Gen. Frank S. Besson, Jr., Commanding General of AMC, will lead the two-day meeting Nov. 15-16.

Maj. Gen. F. J. McMorrow, Commanding General, Army Missile Command, will be host for the conference that will bring together commanding generals of the seven subordinate commands of the Army Materiel Command.

The Generals will gather here for their periodic report to Gen. Besson on activities carried out by respective units of AMC.

Other major subordinate commands which will be represented here at the conference include the Army Weapons Command, Rock Island Arsenal, Ill.; Army Munitions Command, Picatinny Arsenal, Dover, N. J.; Army Mobility Command, Detroit, Mich.; the Army Electronics Command, Fort Monmouth, N. J.; the Army Supply and Maintenance Command, Washington, D. C.; and the Army Test and Evaluation Command, Aberdeen Proving Ground, Md.

EMPLOYEES GET HOLIDAY MONDAY, NOVEMBER 12

Army Missile Command employees will get a holiday on Monday, November 12, because Veterans Day fell on Sunday this year.

President John F. Kennedy, in an annual proclamation, has set November 11 for official observance of this holiday.

Sergeant Scores Twice On White Sands Range



LT. COL. GEORGE CHOW

Sergeant Project Office Has Major Personnel Change

Three major appointments and a number of personnel changes within the Sergeant Project Office at the Army Missile Command have been announced here by Col. John E. Aber, Project Manager.

Filling the three major appointments are Lt. Col. George Chow, Deputy Project Manager; Alton H. Hooker, Chief, Quality Assurance Division, and John E. Stair, Deputy Chief of the Program Management Office.

Other personnel occupying key positions include E. C. Roberts, Chief, System Engineering Division; James H. Draughon, Chief, Procurement and Production Division; John F. Hand, Chief, System Test Division; Maj. A. A. Hord, Chief, System Support Division; (See SERGEANT on Page 3)

WHITE SANDS MISSILE RANGE, N. M. — The Sergeant ballistic missile — unveiled to the public two weeks ago as this country's newest operational tactical missile — has scored two more consecutive successful firings.

The two firings combined the engineer and service test phases which establish conformance of production hardware to tactical needs and insure that the missile is adaptable to handling by troops under tactical conditions.

Both firings were by the Third Battalion (Sergeant) 38th Artillery from Ft. Sill, Oklahoma, supported by the 23rd Ordnance Detachment (Sergeant Direct Support).

On Oct. 24 some 300 top military, government, industry and press personalities witnessed the first tactical firing of the highly mobile and rugged Sergeant.

The two most recent shots made it three in a row for the soldiers who put the first round they ever fired right on target.

The solid fueled Sergeant is designed to replace the liquid fueled Corporal in the Army's surface to surface weapons inventory.

Sergeant is one of the programs selected for high priority management by the U. S. Army Materiel Command. Col. John E. Aber, Sergeant Project Manager, and his staff are located at Redstone Arsenal, Alabama. The Sperry Utah Company is prime contractor for Sergeant.

EARLY DEADLINE

Due to Veterans Day, all copy for next week's Rocket must be in the Editor's hands by the close of business Friday.

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

All advertising copy and payments therefor are received by Mrs. Zillah T. Heath, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication. The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

Rocket Ruminations

Important principles may and must be inflexible.
—Washington

Thoughts On Veterans Day

November 11, 1962, marks the 44th observance of Veterans Day, a memory-filled occasion for many employes of the Army Missile Command who are veterans of wars in which the United States has been engaged since World War I.

The tense days in which our nation now lives gives greater emphasis than ever before to the sacrifices made in the interest of human freedoms by members of the Armed Forces of the United States.

This is a fitting time for all of us in the Missile Command—military and civilian—to pause for thought and prayer; pledging anew our devotion to the causes of liberty and freedom for which so many brave men and women have given their lives and health. We pray that the vigilance we show today will help keep our nation free of war in the future.

F. J. McMORROW
Major General, USA
Commanding

★ — ★
THE WHITE HOUSE
VETERANS DAY, 1962

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA
A PROCLAMATION

WHEREAS we are deeply conscious of the debt we owe to the men and women of our Nation who served in our armed forces during times of conflict, thereby preserving our heritage of freedom and advancing the cause of world peace; and

WHEREAS the continued devotion and adherence to the highest ideals of citizenship by our veterans has been inspirational to us in peacetime as well as in time of war; and

WHEREAS the eleventh of November has been dedicated to the cause of world peace by the Congress and has been designated as a legal holiday to be known as Veterans Day (Act of May 13, 1938, 52 Stat. 351, as amended (5 U.S.C. 87a));

NOW, THEREFORE, I, JOHN F. KENNEDY, President of the United States of America, do hereby invite my fellow citizens to join with me on Sunday, November 11, 1962, in observing Veterans Day by attending and participating in ceremonies which will demonstrate our continued desire for world peace and our heartfelt gratitude to our veterans whose service and sacrifice has advanced the cause of peace.

I direct the appropriate officials of the Federal Government to arrange for the display of the flag of the United States on all public buildings on Veterans Day.

I also call upon officials of the Federal Government and the State Governments, as well as upon local officials, to cooperate fully with the Veterans Day National Committee and interested patriotic organizations in their efforts to make clear to all our people the true significance of Veterans Day.

IN WITNESS WHEREOF, I have hereunto set my hand and cause the Seal of the United States of America to be affixed.

DONE at the City of Washington this nineteenth day of September in the year of our Lord nineteen hundred and sixty-two, and of the Independence of the United States of America the one hundred and eighty-seventh.
(SEAL)

JOHN F. KENNEDY

By the President:
DEAN RUSK
Secretary of State

Defense Gives Outline Of Security Information

Civilian and military personnel in the Department of Defense have been issued the following guidelines concerning information that may be damaging to the security of the Nation.

"The following information is considered vital to our national security and therefore will not be released by the Department of Defense. Any publication of such information will be considered contrary to the national interest.

"1. Any discussion of plans for employment of strategic or tactical forces of the United States including types of equipment and now or planned location of command or control centers or detection systems.

"2. Estimates of United States capability of destroying targets, including numbers of weapons required, size and character of forces required, ability of these forces to penetrate defenses, and accuracy or reliability of our forces or weapon systems.

"3. Intelligence estimates concerning targets or target systems, such as numbers, types and locations of aiming points in the target system, enemy missile and bomber forces, etc.

"4. Intelligence estimates of enemy plans or capabilities, or information which would reveal the level of success of United States intelligence efforts or operations with respect to Cuba or the Communist Bloc.

"5. Details as to numbers or movements of United States forces including naval units and vessels, aircraft, missile forces or ground forces, ammunition, equipment, etc. Announcement may be made of such unit movements after the movement has been completed.

"6. Degree of alert of military forces.

"7. Location of aircraft or supporting equipment. Presence of aircraft observable in the public domain may be confirmed.

"8. Emergency dispersal plans of aircraft and units including dispersal capabilities, times, schedules or logistical support.

"9. Official estimates of vulnerability to various forms of enemy action, including sabotage, of U. S. Armed Forces and installations.

"10. New data concerning operational missile distribution, numbers, operational readiness, Estimates of effectiveness of strike capability of missile forces.

"11. Details of command and control systems, including new or planned command posts and facilities, estimates of ability to survive enemy attack, security measures, etc., including sea or airborne command posts.

"12. Details of airlift or sealift capabilities, including size and nature of forces to be lifted, time limits for such lifts, and supply capabilities, with respect to possible specific areas of operation."

The above text is from a White House memorandum issued 24 October 1962 to editors and radio and television news directors.

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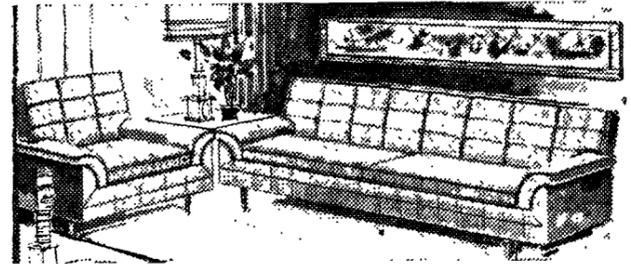
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(Continued From Page 1)

Maj. Robert D. Funke, Chief, Program Management Office; Maj. Richard M. Brunson, Chief, Field Office at Salt Lake City, Utah; and Alan M. Lederman, Chief, Operations Office.

Lt. Col. Chow came to Redstone Arsenal in 1960, following a tour of duty with a Military Assistance Advisory Group in Taiwan, Formosa. He was first assigned as project officer of the Weapons System project office in the Army Ballistic Missile Agency and later was senior Weapons System project officer.

In 1961, Lt. Col. Chow became the senior representative of an Army element stationed at Orlando, Fla. as the Technical Operations Officer, Pershing Project. He returned to Redstone Arsenal in October of this year as Deputy Sergeant Project Manager.

Hooker, the new Chief of the Quality Assurance Division, is a native of Elkins, W. Va. He is married to the former Bertha McKee, of Center, Texas. Hooker graduated from Elkins High School and Davis-Elkins College, at Elkins. He did graduate work at Texas A&M College at College Station, Tex. He also attended Wartime Service Schools at Harvard, MIT, the Naval Research Laboratories and Bell Telephone Laboratories.

A former Naval Commander, Hooker's last assignment was with a Patrol Bombing Squadron. He entered military service in 1942 at Corpus Christi, Texas. Hooker has received two Air Medals and one cluster, a Combat Air Crewman's wings and an Asiatic Theater Medal.

Hooker is a member of the American Institute of Engineers, the American Radio Relay League, the Huntsville Gem and Mineral Society, and the Huntsville Coin Club.

Stair, the new Deputy Chief of the Program Management Office, is a native of Judsonia, Ark. A graduate of Little Rock High School, Stair attended the University of Arkansas, Fayetteville, Ark.

Stair began work at Redstone Arsenal in 1958. He has been in

(Continued From Page 1)

Detroit, Michigan, and Chance Vought Division, Ling-Temco-Vought. Both companies won program definition contracts totaling approximately \$1,000,000 to refine and detail the concept of the new missile.

When developed, Missile B will provide increased fire support for the combat divisions. It will complement conventional artillery with both nuclear and nonnuclear supporting fire on the modern battlefield.

Planned as a simple low cost rugged and reliable weapon system, Missile B will use a new guidance concept developed by U. S. Army Missile Command engineers at Redstone Arsenal. The new missile is also the first Army missile that will use pre-packaged liquid fuel for its propulsion system.

Missile B was given to a prime contractor only after thorough program definition by the Department of the Army. Contractors from throughout the United States were asked to submit proposals for the missile. Eight industrial proposals were submitted and two contractors were awarded study contracts.

The XM 561 will be a six-wheeled vehicle which can swim inland water and traverse rough terrain with an agility unmatched by other wheeled vehicles. The contract calls for development and construction of several prototypes.

Management of the XM 561 program will be under the U. S. Army Mobility Command, Detroit, another element of the U. S. Army Materiel Command.

The basis of the new development will be a vehicle called the "Gamma Goat" already developed by Chance Vought on its own initiative. The "Gamma Goat" has

the general field of programming since that date. He is married to the former Betty Jeffery of Batesville, Ark.

Stair is the father of a son and three daughters. They are John E. Stair, Jr.; Bettye Stair; Mrs. Patricia Ann Friese, Waco, Texas; and Janice Stair, now attending the University of Alabama.

(Continued From Page 1)

The General was shown the Structures and Mechanics Laboratory by Holm Hinrichs, Director, and visited the Ground support Equipment Laboratory, where a helicopter armament program is underway. William C. Watson, Director of the GSE Laboratory, explained the armament program.

While here, the pair observed a scheduled static firing of the Nike Zeus booster motor at the Test and Evaluation Laboratory under the direction of William P. Lloyd, laboratory director.

The General toured the Electromagnetic Laboratory, where the electronic "brains" of Army missiles are developed under the direction of Delman E. Rowe.

demonstrated exceptional mobility over numerous rugged military test courses both in the United States and in Europe.

The Army in soliciting proposals for the development of the XM 561, specified that primary consideration would be given to maximum attainable mobility and other cross country and off-road capability.

After a thorough analysis of all proposals, including those from several automotive manufacturers, the Army selected the Chance Vought design concept as offering a substantially higher degree of off-road mobility.

The XM 561 will derive its mobility from two lightweight units working in combination — a four wheeled tractor unit and a two wheeled carrier linked together to provide power to all six wheels and pivoted to permit unusual flexibility. An articulation system between the sections will keep all six wheels on the ground at all times, regardless of terrain.

The Army expects that most of the major assemblies for the vehicle would be obtained from the automotive centers of Michigan.

About 50 companies were solicited to submit proposals. Of this number six ultimately submitted proposals.

EMBLEM

(Continued From Page 1)

the blue area to represent industry. The white lozenge also symbolizes the flow of materiel through the combined efforts of the Army and industry.

The AMC, which is parent organization of the Army Missile Command, is the largest and most complex element created by the reorganization of the U. S. Army. It consists of a nation-wide network of more than 250 military installations and activities engaged in developing, producing, supplying and maintaining weapons, equipment and other materiel for the Army.

OVERTIME PAY GUARANTEED

Federal wage-board or ungraded employes have been guaranteed overtime pay for working beyond an 8-hour day or a 40-hour week under a law recently signed by the President. The new provisions became effective October 12, 1962.

Old work-hour laws were confusing and ambiguous, Mr. Kennedy said, and an overhaul was in order. The new law repeals the old laws which covered "laborers and mechanics" and applied only to hours of duty (not pay) and it amends the 1943 pay statute that governs overtime pay for all wage-board employes.

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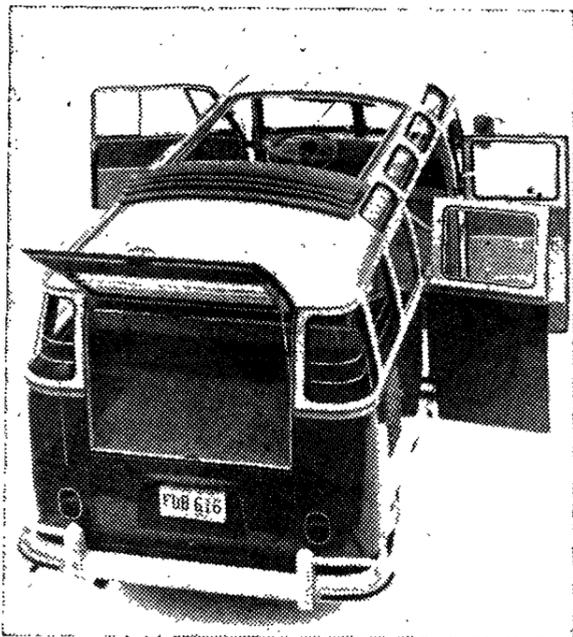
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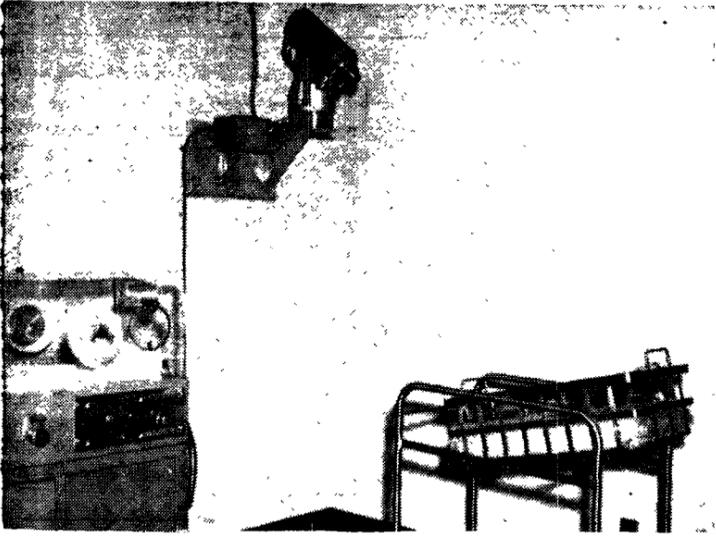
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the standard window protected babies from contamination now holds six additional beds for mothers.

Television is being used in metropolitan areas where a great many babies are handled daily because it insures greater protection. At the Army hospital, the camera will focus on any section of the nursery, but during visiting hours a special crib will be used. Everyone will have the opportunity of viewing his offspring.

Inside the nursery, the lights are kept at normal daylight to avoid any chance of injuring a baby's eyes.

Watching the screen, each father will have the opportunity to prove his little darling is a bigger and better ham than his neighbor's—a natural.

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CAMERA READY TO ROLL—The television camera for the closed circuit system in the obstetrics ward nursery at the U. S. Army Hospital, Redstone Arsenal, is ready for the first baby to make his debut before father. Maj. Saul Vitner, who heads the obstetrical staff, polices the area with a security guard against germs as carefully as a clean air laboratory is policed in a nuclear laboratory.

Television Debut Comes Early At Army Hospital

One more first for the Army established by Redstone Arsenal, so far as the U. S. Army Medical Corps here knows, is the installation of closed circuit television in the obstetrics ward nursery of the U. S. Army Hospital.

The principal audience are fathers who have waited for news from the delivery room. Directors of picture production, as well as co-stars, are the obstetrical nurses.

Maj. Saul Vitner is the chief of Professional Services at the hospital and keeps as tight a security guard on his stars as any Hollywood studio.

In this way, the obstetrical area is as sterile as a clean air laboratory, uncontaminated by stray germs clinging to street clothes. Dust is filtered through air conditioning units.

The closed circuit television camera is installed in the nursery, the viewer in the waiting room and the sound beamed from the nursery so that a nurse can place the baby on camera and identify him during visiting hours.

The new nursery area is a second-story addition to existing construction of the hospital, and is only part of the original plan for modification of the building at the time it was accepted according to Col. Harry C. McClain, Post Surgeon. Other modifications in other areas are underway.

The former crib area, where

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Awards and Decorations

Army Commendation Medals have been awarded the following:

Col. S. C. Holmes, formerly Assistant Chief of Staff for Research and Development at the Army Missile Command, now at Aberdeen Proving Ground as Chief, Unlimited Warfare;

Lt. Col. W. W. Cobb, formerly FABMDS Project Manager here, now reassigned to Ryukyu Islands;

CWO William E. Rehback, Com-

munications Center, Army Missile Support Command, now reassigned to Germany;

Lt. Leon Guzinsky, Pershing

Project Office, Missile Command, now in the Research and Development Directorate;

Capt. S. R. Silnes, aide to Brig. Gen. J. G. Zierdt, now at the Ordnance Guided Missile School;

A Certificate of Achievement was presented the following:

Capt. B. F. Register, Jr., Procurement and Production Directorate, Missile Command.

Dr. Carter Will Address Writers And Illustrators

Dr. William W. Carter, Chief Scientist of the U. S. Army Missile Command, will be a featured speaker when experts in technical communication gather here next week.

Dr. Carter will address the assembly on the scientist in communication Thursday morning during the Third Annual Seminar/Art Show sponsored by the Huntsville Chapter of the Society of Technical Writers and Publishers. "TECHNICAL COMMUNICATION—Spanning Time and Space" will be the theme of this year's session.

The judges for the Art Show will be Maltby Sykes, Professor of Art at Auburn University, Peter Denby, Ford Times Illustrator, Winston-Salem, N. C. and Robert Hollister, Publication Manager, Douglas Aircraft Company, Santa Monica, California.

Mrs. Mary Jane Hearn, General Chairman, said activities will get under way Wednesday night at Russel Erskine Hotel with a reception for the Seminar speakers and Technical Art judges and will conclude at noon Friday. About ten sessions during the meeting will be presentations featuring speakers who are nationally distinguished in various aspects of technical communication.

Stevan Dohanos, national magazine illustrator will address the banquet Thursday evening. At this time the judges will announce and present the art awards, Mrs. Hearn said.

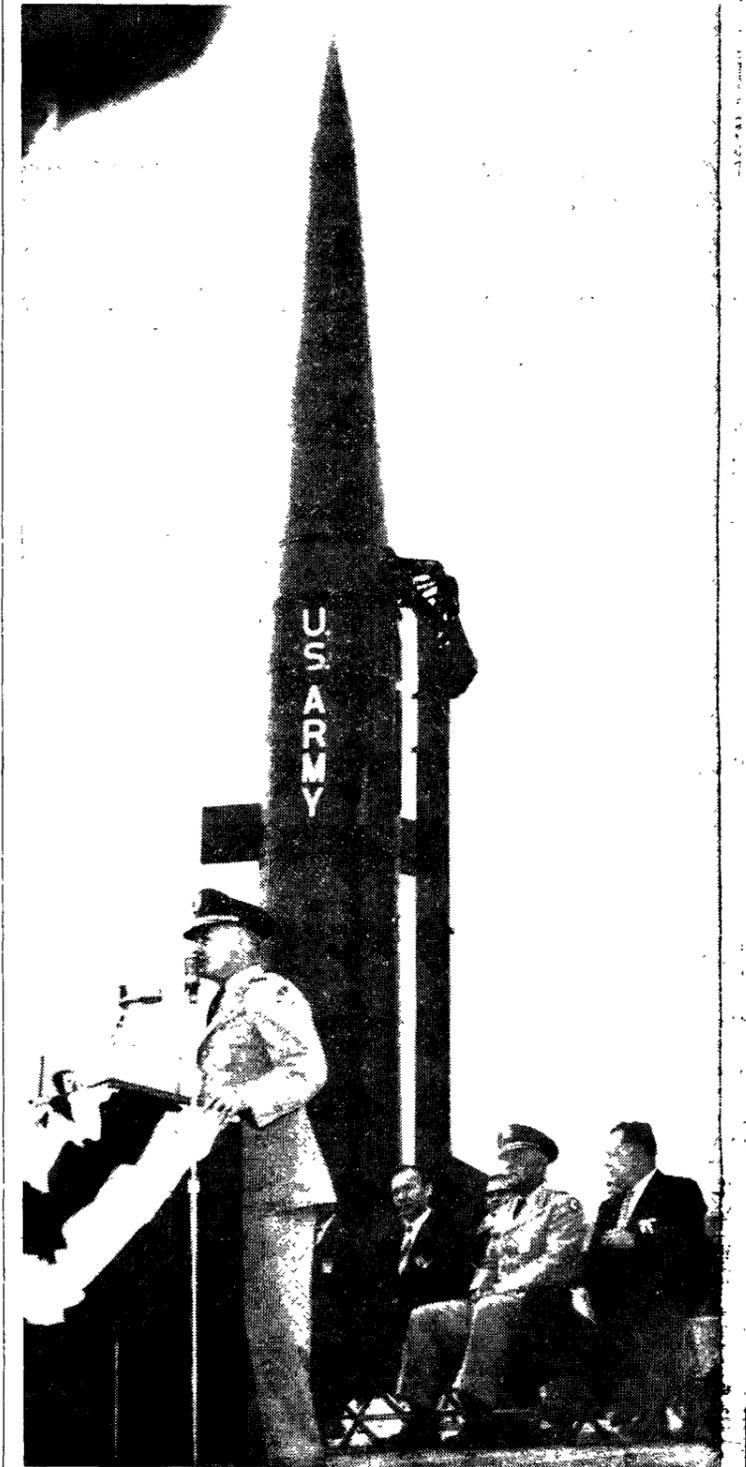
Huntsville Mayor R. B. Searcy will officially welcome the group.

Other speakers and their topics will be:

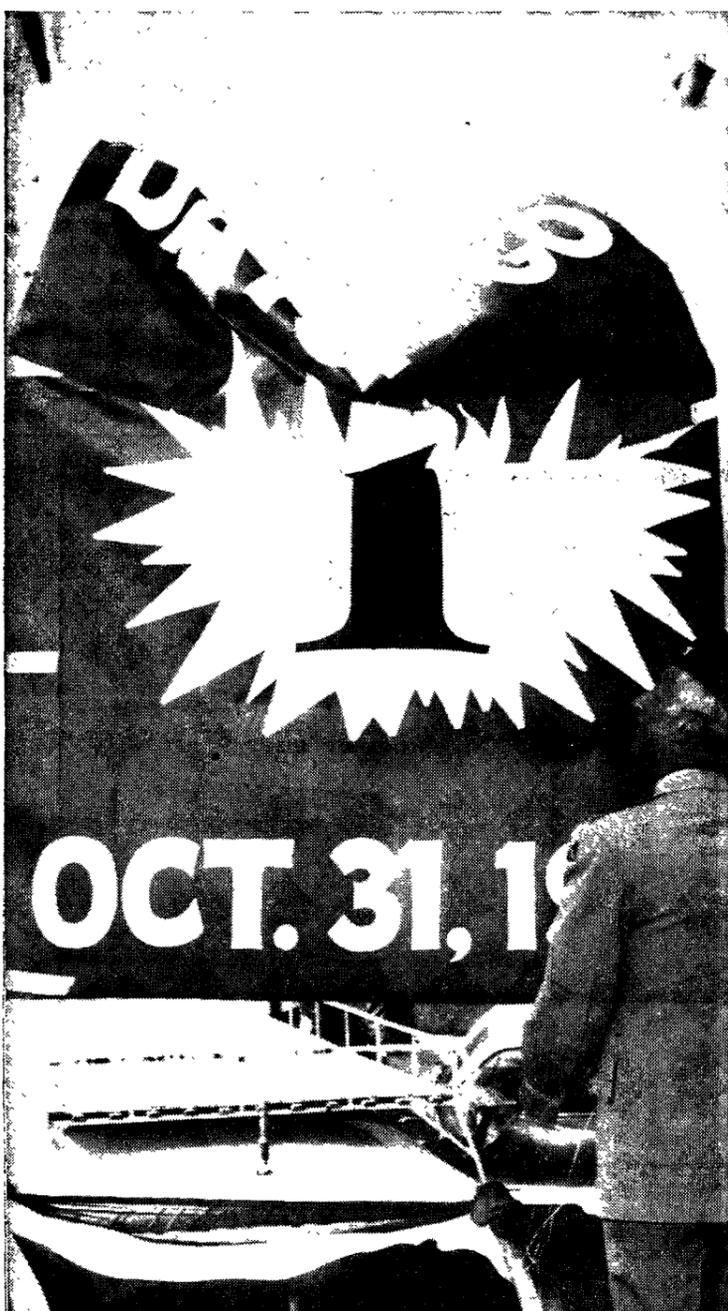
Francis R. Royer of New York, President of Royer and Rogers, "Progress of the Technical Data Industry"; Ron Ferdie of Marshall Space Flight Center, "Communicating With Life in Other Worlds." Miles R. Hardenburg, U. S. Army Missile Command, "From Here to There"; H. L. Chadbourne of the U. S. Navy Electronics Lab, San Diego, "QRC Reporting Technique."

H. Neil MacCarthy, Washington, Manager of College Park TAAG Designers, Inc., "Technical Communications—A Tool of Management"; Dr. Hunter P. MacCartney of IBM in Rockville, Maryland, "Obligations of a Professional Society"; and Walter F. Wiesman, Information Office Marshall Space Flight Center, "The Human Element in Technical Communication."

Attendance will be limited to 250. For information concerning registration, contact J. Dexter Nilsson, Registration Chairman, at 876-8943 or 536-7169.



'WELL DONE'—Brig. Gen. H. P. Persons, Jr., Deputy CG, Air Defense Systems, congratulates Pershing project personnel for a job well done during ceremony at Orlando last week. General Persons represented Maj. Gen. F. J. McMorrow who was unable to attend the event marking delivery—ahead of schedule—of first Pershing tactical hardware. Col. W. J. Macpherson, Commandant of OGMS, was another participant in the ceremony. Seated behind Gen. Persons (L-R) are Sidney Stark, Martin director of advanced programs; Col. R. B. Sell, Commander, Birmingham procurement district, and G. T. Willey, vice president and general manager, Martin Orlando.



AND THEN THERE WERE NONE—Col. Oliver M. Hirsch, Acting Deputy Commander for Land Combat and Pershing Project Manager, rips the last page from the countdown calendar to climax short ceremony last week marking delivery to the Army of first items of Pershing tactical hardware. Martin made delivery of the equipment—first to go to Army tactical units—ahead of schedule.

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Sports by Handy

By SFC Robert Handy

The standings of the various leagues bowled at the RSA Bowling Lanes for this past week are as follows:

BANTAM LEAGUE		
Team	Won	Lost
Lucky Strike	3	0
Jetsons	3	0
Wildcats	0	3
Strikeouts	0	3

RSA OFFICERS LEAGUE		
Team	Won	Lost
Slowburners	22	10
Bandits	20	12
Spoilers	19	13
Robes	16	16
Alleycats	10	22
Medico No. 5	9	23

SCHOOL TROOP COMMAND LEAGUE		
Team	Won	Lost
Deuces	28	8
Keglers	26½	9½
Aces	24½	11½
Electrons	23	13
Spares	15	21
Strikes	13	23
Ten Pins	12	24

ARMY-AIR FORCE OFFICERS LEAGUE		
Team	Won	Lost
Lucky Strikes	46	18
Black Jacks	42	22
King Pins	42	22
Pin Splitters	37	27
Raiders	37	27
Jupiters	24	40
AF Juplos	22	42
Hopefuls	6	58

E. M. MIXED LEAGUE		
Team	Won	Lost
Belt & Ryan	22	10
Jones & McClure	21	11
Bennett & Hoyer	20	12
Foster & Lagaze	15	17
Jones & Mair	14	18
Louis & Mounce	14	18
Metcalf & Welch	11	21
Cooley & Chervanik	11	21

RSA TROOP COMMAND LEAGUE		
Team	Won	Lost
Raiders	17	7
Rats	16	8
Curvals	14½	9½
Ohms	13½	10½
*Ordets	9	11
*S & E's	9	11
Jockeys	9	15
Keynotes	2	22

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OGMS OFFICERS LEAGUE		
Team	Won	Lost
Adm.	20	4
Researchers	15	9
Bohunks	14	10
OTD	10½	13½
Commoners	6½	17½
UTC Tipplers	6	18

THURSDAY MORNING LADIES LEAGUE		
Team	Won	Lost
Off 'N' On	21	7
Hit 'N' Misses	15	13
Up 'N' Down	11	17
Misfits	9	19

OFFICERS WIVES LEAGUE		
Team	Won	Lost
Jumpin Jacks	20	8
Alley Cats	17	11
Merry Mrs.	15	13
Team No. 8	15	13
Hi Fi's	13	15
Gamblers	12½	14½
E-Z Rollers	10½	17½

OFFICERS MIXED LEAGUE		
Team	Won	Lost
Bombers	40	23
Bowl Weevils	34½	28½
D-Yanks	34	29
Red Stones	34	29
D-Doms	30	33
Pin Poppers	28½	34½
Hi Counts	26	37
Baby Splits	25	38

ARMY-AIR FORCE OFFICERS LEAGUE		
November 1, 1962		
Team	Won	Lost
Lucky Strikes	54	18
Black Jacks	50	22
King Pins	48	24
Pin Splitters	45	27
Raiders	37	35
Jupiters	26	46
AF Juplos	22	50
Hopefuls	6	66
200 Games: Namath	—	228;
Furphy	—	224; Thompson — 222;
Reichert	—	218; Green — 215;
Neidhardt	—	210; Lau — 208;
Erminger	—	202.

SATURN BOOSTERS BOWLING LEAGUE		
A-DIVISION		
Team	Won	Lost
Brown Engineering	24½	11½
Martin Co.	23	13
Norris Riddle Furn.	21	15
Arrowhead Products	19	17
Tenn. Valley Oxygen	19	17
Redstone Mach. & Tool	18½	16½
Republic	17	19
Hilding-Holmberg	16	20
Huntsville Trailer Ct.	15	21
Push Overs	7	29
200 Games: H. Mathews	—	216;
E. Davis	—	207; Fleshman — 203.

B-DIVISION		
Team	Won	Lost
Murphree Mort. Co.	28	8
Tri-Lanes	22½	13½
Redstone Fed.	—	—
Cred. Un.	22	14
Hayes Top Seven	20½	15½
Lockheed	20	16
C. W. Stewart Mach.	18	18
Hayes Designers	17	19
Modern Mach.	15	21
Progressive Welders	13	23
Hayes Ex-Cons	4	32

Football

Football is over for 1962. Due to emergency causes, teams are not to travel to other posts to play so Redstone is finished for the 1962 season. With a little prior planning, Redstone is going to have a strong and full schedule for 1963. It is tentatively planned for a post team to play all takers, and all games to be played on the new field. This seasons play was not to write home about with only three teams participating in the Post Level Football League. The spectators increased

about 40% over the previous years and the equipment used kept the injuries down considerably. The units making up the three teams, Crusaders (Hq OGMS), Knights (Hq RSA), and the A-Bombs (Co. A-B OGMS) deserve much credit for their spirit and gameness in making this a successful football season, considering the "short" season. Next year it is hoped that Redstone will make itself known in the Army football world, as well as they did in softball and baseball.

Golf

A new inclosed facility for the Golf Course is being built for the comfort and ease of the "little ball chaser." The date of the opening ceremonies will be announced in the Rocket and Daily Bulletin in the near future. The new building will include a lounge, storage room (locker room), pro shop, and a concession for drinks and what have you. Prize winning events are anticipated on opening day for those interested in participating. Prizes will (golf equipment) be given to the winners of each event.



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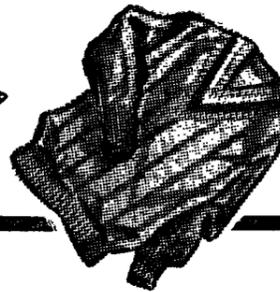
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IT'S ANYBODY'S BALL.—Field Day for the Golf Group sponsored by the Redstone Arsenal Officers Wives Club brought the golfers to the course in many kinds of costumes to play an unorthodox game with ping pong balls, left handed clubs for right handers and other hazards to a golfer's game. Above the mixed up sportswoman with golf shoes, a football helmet and a baseball uniform is Mrs. W. D. Lewis. The Arab sheik in the center is Mrs. William Clisson and the lady Arab is Mrs. V. J. Laver.

Golf Group Holds Annual Field Day

Field Day for the Golf Group sponsored by the Redstone Arsenal Officers Wives Club drew seventeen golfers in costume to the Arsenal course last Wednesday.

The costumes ranged from Mrs. Charles Payne as Little Bo Peep to mixed up athletes, Arabs and

beatniks.

The play was hazardous to good golf. Ping Pong balls, lopsided balls, left-handed clubs for right-handed people were a few of the hazards.

At the end of play Mrs. Payne won a prize for being closest to the pin on No. 8; Mrs. William Higgins, had low gross, Mrs. Edward Sentar scored low net.

Mrs. George Grace had the longest drive on No. 9 and Mrs. C. F. Owens had the longest drive; Mrs. C. H. Fuller had the least putts and Mrs. W. D. Lewis the most putts.

The most strokes on No. 5 were made by Mrs. J. B. Cobb, with Mrs. William Clisson finishing with the most strokes aggregated.

The Golf Group plans an end-of-season Scotch Foursome with husbands on Nov. 18, with a buffet supper at the Squirrel Hill Officers Club following play.

On Nov. 15 they will elect new officers at a brunch at the club.

Martin Overpass Almost Complete

Redstone Arsenal personnel using Martin Road to and from Memorial Parkway and Whitesburg Drive won't have too much longer to wait for easing of driving conditions.

Weather permitting, the overpass at the Parkway leading to Whitesburg Drive should be completed within a month. This was the word given Monday by J. B. Vinson, Resident Engineer, and H. B. Burnum, Division Engineer, of the Alabama State Highway Department.

The base coat of asphalt has been spread and the final layer is in process of being applied. "With good weather, the cloverleaf will be ready for traffic within a month," they said.

Boy Scouts Hold Training Seminar

The Tennessee Valley Council of the Boy Scouts of America held its second annual "Key-Three" Training Seminar at the Ordnance Missile School on Nov. 2.

Director of the Seminar was Maj. J. M. MacDonnell, Commander of UTC and leadership training chairman of the council.

The session was held for incoming officers to prepare them for positions in the Scouting Program for 1963. The district chairman,

district commissioner, and the district executive composed the "Key-Three." They are responsible for recruiting, training, guiding and recognizing the adult volunteer workers.

Col. William J. Macpherson, Commandant, opened the seminar and representatives from each of the eight districts of the council spoke on recruiting and training volunteers.

Reemployment rights have been provided for Federal employes who leave their jobs to serve on active duty in the Armed Forces.

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Officers Wives To Hear Duckett

Carl Duckett, Missile Intelligence Officer of the Army Missile Command will talk to the Redstone Arsenal Officers Wives Club at a sherry-luncheon at the Squirrel Hill Officers Club Tuesday, Nov. 13.

Mr. Duckett's topic will be "The Modern Russia."

Reservations, which must be made by noon Friday, are being handled by Mrs. Harry C. McClain and Mrs. Donald Smith. Mrs. Earl Otto will accept cancellations until 9:30 a.m. on Monday.

The Rocket Nursery will be open.

Mrs. Deppensmith Wins Party Bridge

Mrs. Lloyd F. Deppensmith was the winner of the bridge competition at the Squirrel Hill Officers Club at the Thursday meeting of the Party Bridge Group sponsored by the Redstone Arsenal Officers Wives Club.

Second and third place were taken by Mrs. J. R. Kingston and Mrs. Robert R. U. Scott.

Ten tables were in play during the session.

Reservations for the month of November will be handled by Mrs. E. S. Schorsten.

Lt. Col. Kirchhofer Wins Bridge Game

At Monday night Party Bridge at the Squirrel Hill Officers Club last week, Lt. Col. M. L. Kirchhofer was high with a 4900 total followed by Mrs. Winford Patton with 4690.

Second for the men was Lt. Col. Jesse Fishback; second for the women, Mrs. R. W. Washburn.

Mrs. Eugene Krembs is handling reservations to play with the group. Any club member is eligible to play.

SOCIAL ^{and} CLUB EVENTS

Noncommissioned Officers Wives Help Needy Families

The Noncommissioned Officers Wives Auxiliary determined to do some good as well as have fun through their organization.

The fun part of the organization centers around the parties, suppers and socials the group has once a month and includes getting together with husbands.

The good is adopting one family at a time who needs help. Adoption is through the Huntsville-Madison County Welfare Agency. When the Agency gives the Auxiliary a name, a committee again screens the family to learn whether or not the organization can help. The aim is to help re-establish economic solvency while the family keeps its self respect.

According to Mrs. Louis DeMichele, chairman of the welfare group, the help given needy families is "the most gratifying work" she has ever undertaken.

Auxiliary members collect clothes, toys and anything else that families discard, refinish the toys and distribute them where they are needed. Mrs. DeMichele said a phone call is all that is needed to get her to pick up items intended for discard, but still usable.

An example of the way the Auxiliary helps individuals and families is reflected in a high school girl who has now been adopted into a sister's family. The girl needed clothes, school books, lunches and transportation to school. The sister has little money.

So, the Auxiliary arranged the clothes and the transportation to school where the books were fur-

nished. Now, the girl is almost self-supporting including the transportation fare through baby sitting jobs.

Their present project is a family with a temporarily invalidated father. Members of the Auxiliary take turns visiting the families with Mrs. DeMichele.

Any donations not usable by the family the Auxiliary adopts are put in one of the Salvation Army's Little Red Schoolhouses in Huntsville.

Tool, Manufacturing Engineers to Tour

The American Society of Tool and Manufacturing Engineers, Huntsville Chapter 171, will tour the Autolite Corp. plant at Decatur next Monday night with the American Society of Industrial Engineers.

The Tool and Manufacturing Engineers will meet at 6:30 p.m. at the Starlight Motel restaurant for a dinner and business meeting before the tour.

The group is inviting prospective members to join them for both events. Reservations must be made by Friday by calling 539-0781 before 3 p.m., 536-3263 after 5 p.m.

Births at Post Hospital

Ramon Diaz, III, 6 lbs., 6½ ozs., Oct. 24, son of Sp5 and Mrs. Ramon Diaz Jr.

Harold William Scruggs, 7 lbs., 10½ ozs., Oct. 28, son of Sp4 and Mrs. James W. Scruggs.

Christy Lynn Houck, 9 lbs., 4½ ozs., Oct. 29, daughter of Pfc and Mrs. Eugene A. Houck.

Susan Elizabeth Keffer, 7 lbs., 9 ozs., Oct. 29, daughter of CWO2 and Mrs. Paul J. Keffer.

Ian Kerry Monson, 7 lbs., 2¼ ozs., Oct. 29, son of 1/Lt. and Mrs. Phillip R. Monson.

Timothy Francis Twomey, 9 lbs., 2½ ozs., Oct. 30, son of CWO2 and Mrs. Michael J. Twomey.

John Charles Thomas, 7 lbs., 10 ozs., Oct. 31, son of Sfc and Mrs. Dale A. Thomas.

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Raytheon Contracts Total Over \$2 Million For Hawk

The Raytheon Company, Lexington, Mass., was awarded two contracts totaling \$2,984,329. for work in support of the NATO-Hawk program, the Department of the Army announced Nov. 2.

A \$1,630,386 award covers continued engineering services. The work will be done at Raytheon plants in Andover and Lawrence, Mass.

The second award, \$1,353,943 is for production of Hawk components, with the work being performed at Raytheon plants in Andover, Lawrence and Bedford, Mass., and Bristol, Tenn.

Hawk is one of the weapon systems the U. S. government participates in with foreign nations in production as well as logistical support.

Hawk, a surface to air missile designed for use against low altitude targets, has project management headquarters at the Army Missile Command.

The Boston Procurement Dis-

FOREIGN STUDENTS SET STUDY PACE

Foreign students at the Army Ordnance Guided Missile School are setting a fast academic pace and now have won 27 out of 39 Association of the U. S. Army plaques presented to men who averaged 96 or better.

Airman Martin Pfeiler of the German Air Force won the honor Friday with an average of 96.4 in the Hawk mechanical repair course.

The graduates, who included U. S. and German students, heard Capt. Harry F. Ennis of the Army Missile Command's Field Service Directorate urge them to participate in "Operation Feedback" which supplies missile research and development experts with first-hand information from the field.

Major Verne C. Wolfe, chief of operations at OGMS, presided at the ceremony in the Redstone Arsenal Theater.

trict will administer the contract for the Army.

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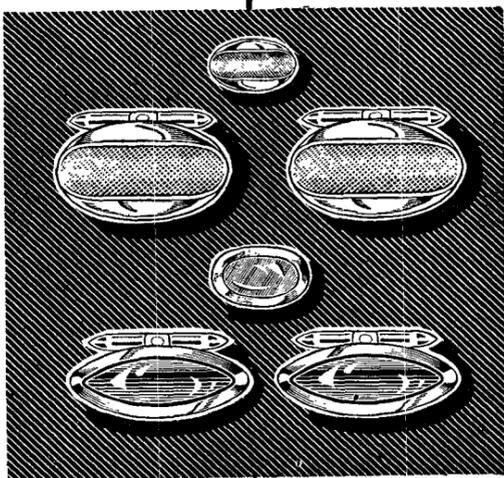
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At the Service Club

By Brenda Hanson

The torrential deluges we've been having on and off all month are known as "Seasonal Changes". It is oft said that these seasonal changes bring a cooler crisper atmosphere, cool nights, colorful scenes and time to adopt yourself to the fact that the winter season is approaching us again. However, since this moonsoon season began, outdoor recreation is downright fool-hardy, so this brings a search for indoor entertainment and recreation. The Service Club stands open and ready to provide fun and shelter during the fall and winter evenings.

After the bustle and rush of last weeks packed schedule, you may be wondering if this week will be a bit of a let-down. Let me reassure you that after glancing through the club schedule for the coming days, I feel sure that the varied program for this week will offer even more than the previous week.

The monthly EM Council will have its regular monthly meeting on 7 November, at 1400 hrs. Also on 7 November, beginning at 1900 are the Dance Classes. If you are interested in learning to dance, come to the Service Club on Wednesday evening and join the progressing group.

Then on 8 November beginning at 2000 hrs. is Game Night. This includes games of all sort. Shuffleboard, pool, parchessi, chess, pinochle, hearts, checkers and many various others are available to you on this date. Be happy to

have you come and participate in the games of your choice.

Friday night, 9 November is the night of the Table Contest. The contest will begin at 2000 hrs. If you like to play ping-pong, this is a good chance to display your skill. Prize will be given to the winner.

Saturday night, 10 November is the night holding the date for the special event of the week. A Mexican Supper is on the program. We will start serving at 1830 hrs. Come early and don't miss out on some free food. At the present, we have no certain predictions of just what the food will be, but we will grant you, your time and effort will not be wasted if you come down and partake.

November 11, beginning at 0900 hrs., Molly will be serving hot coffee and donuts from the kitchen. Then, climaxing the evening, the Record Dance will swing out under the theme of "Swirl-A-Way." The dance begins at 2000 hrs. So we'll be looking forward to seeing you at the dance.

12 November, the Redstone Arsenal is celebrating the holiday, Veterans' Day on Monday instead of Sunday, so we'll be serving coffee and donuts at 0900 hrs. The club and its facilities will be open to you beginning at 0900 hrs. and remaining until 2200 hrs. Make your plans to visit the Service Club. Then at 2015 hrs., games with prizes will be given. At the present, we have TWO GRAND PRIZES, a Schick Electric Razor and a Tennis Racket, Balls, and a rack. As other prizes, we have a nice array of interesting selections.

Tuesday, Nov. 13, which is the real attraction of the week is the

Rocket Society, Aerospace Plan Ballot on Merger

Harry Harcrow, Chairman of the Huntsville Section, Institute of Aerospace Sciences and Walter L. Berry, President, Alabama Section, American Rocket Society, plan the various features in the proposed plan for merger of the two societies.

Ballots are being received by members of the ARS and the IAS for voting on the proposed mer-

ger. Total membership of the merged societies would be approximately 40,000. Of these, at least 900 are in the Huntsville sections, and 15 hold important positions in the national organizations.

proval by the membership is now required. This depends upon a total vote of at least 50% of the memberships and upon at least two-thirds of those voting favoring the merger.

The proposed merger has been under consideration by the two societies for almost two years and has been approved by the Boards of Directors of both societies. Ap-



PROPOSE MERGER—Harry Harcrow (left) Chairman of the Huntsville Section, Institute of Aerospace Sciences, and Walter L. Berry, President of the Alabama Section of the American Rocket Society, discuss features of the proposed merger of the two societies. Balloting by members from both societies will decide the issue.

Both Harcrow and Berry urge the local members to register their opinions on the proposed merger by returning their completed ballots as soon as possible.

lots as soon as possible.

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Are our eyes any less precious today? We still depend on them, as on no other senses, every waking moment of our lives. We still employ them as the basis for our entire system of teaching and learning.

Yet there is a difference between then and now. A tremendous difference. Now we ask our eyes to work as they were never intended to.

Once we used our eyes to sight game at a distance. Or to spot an enemy in time to welcome him properly. Now we spend hours in reading, watching TV, sewing, operating machinery. All close-up viewing.

Once we drove horses and buggies. And this activity called for normal distance viewing. Now we drive cars. At high speeds. Speeds demanding lightning - fast adjustments in eye - focusing. Imposing enormous tension, strain, energy output.

Once we used our eyes almost entirely for long-range daylight seeing. Now we use (and abuse)

them for long periods in close-up work under artificial light.

All this, mind you, we require of our one pair of eyes. What's really incredible about the miracle of sight is that our eyes perform the many wonders they do, for as long as they do.

Fortunately, help is available when we require it. Modern ophthalmic science and techniques now provide an amazing range of visual aids. We can get lenses that are anti-reflection coated. Lenses that are impact resistant. Tri-focals. Prescription sunglasses. Special lenses and glasses custom-designed for the special ways we now work, study and play.

Whether you wear glasses or not, don't forget one important thing. Your eyes are changing. Gradually, perhaps imperceptibly. So that you're actually unaware of the fact that you're not seeing as well as you did. Or as you MIGHT.

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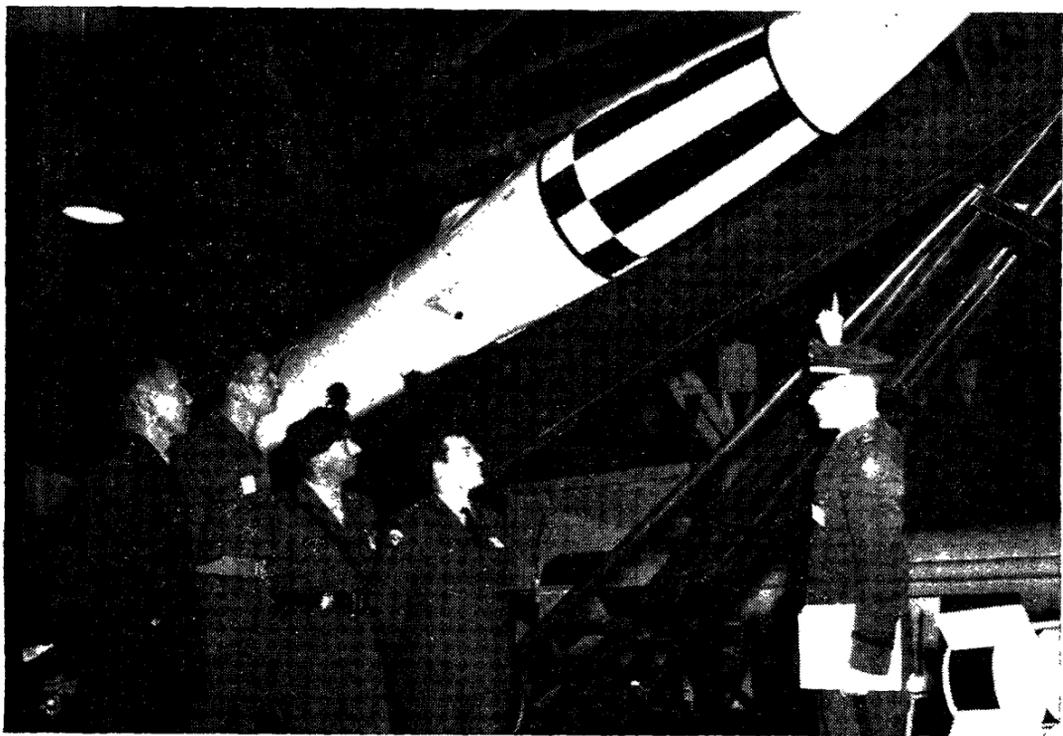
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MISSILE ORIENTATION—Officers from four Allied countries are given pointers on the Honest John missile during a tour of the Army Missile Command's Demonstration Laboratory at Redstone Arsenal. Talking with them is 1st Lt. R. H. Wick, Protocol and Allied Liaison Officer, Ft. McClellan, Ala. From left to right are Lt. Col. Chin Hsiang Nieh of China, 2nd Lt. Aboul Salaam of Iraq, Maj. Mohammad Asghar of Pakistan and Maj. Mahmut Sayinli of Turkey. They were part of a group of foreign officers visiting Redstone Arsenal from Ft. McClellan where they are attending school.

All In A Play-Day

FORT CARSON, COLO. (ANS)—A devastating new concept of warfare was recently revealed to Fort Carson officials by Young Monte

Albert of Atlantic, Iowa. In a letter requesting pictures of Army equipment, Monte wrote: "My dog and I like to play army with toy army men. I set up the enemy and my dog 'Shorty,' steps on them."

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Research Experts From NATO Visit

Aeronautical research experts representing eight North Atlantic Treaty Organization countries studied developments in missiles during a visit to Army Missile Command facilities here Friday.

The 35-member group composed the Structures and Materials Panel of the Advisory group for Aeronautical Research and Development for NATO countries.

Col. R. W. Burkett, director of Research and Development, and John L. McDaniel, technical director, welcomed the group to Army facilities.

While visiting here, the group received an orientation on the structural aspects of material research by Heinrich A. Heitcheer, Director of the Structures and Mechanics Laboratory.

Other Missile Command personnel who spoke to the group included Ken Parr, Propulsion Laboratory; Richard Ely, Physical Sciences Laboratory; W. C. Watson, Ground Support Equipment Laboratory; William V. Gudaitis, Guidance and Control Laboratory;

Engineers Will Share Tour of Decatur Plant

The North Alabama Chapter of the American Institute of Industrial Engineers will tour the Decatur Division of the Electric Autolite Company and will dine at the Sirloin Room of the Corbelian Hotel Nov. 12.

The tour will be shared with the American Society of Tool Engineers. Arrangements have been made by Herbert E. Gay and Bob Ryland.

A social hour is scheduled at 6 p.m. followed by dinner and a business meeting at which 1963 nominations for a new slate of officers will be presented.

J. Wheeler Bird, Jr., Donald Denholm and William Hagen are on the nominating committee.

At the December meeting of the AIEE, nominations may be made from the floor and the actual ballot will be cast in January.

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UGF Counts \$167,433

As the Redstone UGF campaign entered its final week, reports revealed that Fair Share participation was high. Total collections on the same report amounted to \$167,433.

Of the total donors 71 percent contributed a Fair Share or more. Drive officials complimented the quality of response.

Thurman Burns, UGF Campaign Executive Secretary, said that the percentage of donors giving a

GENEROUS CHIEF

Charles A. Cockrell, chief of the Field Army Ballistic Missiles Defense System, received a check from Brig. Gen. H. P. Persons Thursday afternoon for sustained superior performance and promptly handed it to the executive officer intact.

Cockrell's check was credited five ways to include his staff on the United Givers Fund roles and make the Staff the highest per capita contributors, an average of almost \$50.

Fair Share contribution this year for the same area of reporting was higher than last year. However, total arsenal participation is lower, he added.

Contractors of the Nike Hercules and Pershing systems reached 100% Fair Share contribution this week. Their donations amounted to \$1,280.

Accounting records have remained open, according to W. T. Bledsoe, Finance & Reports Chairman, for last minute collections. These will include paying of pledges which were not completely paid out by Nov. 2.

UGF SCOREBOARD

	% Pledged
Msl Cmd Staff	63
Proc & Prod Dir	100
Research & Dev	86
Sply & Maint Dir	95
Msl Spt. Cmd	66
Guided Msl Sys	
Hawk	97
Nike-Herc	81
Nike-Zeus	47
Mauler	76
OGMS	87
Area Engineers	48
Bal Msl Sys	
Pershing	78
Sergeant	59
Missile "B"	85
Msl Intell	63
Thiokol	86
Rohm & Haas	110
Air Defense Sys	101
	% Participation
Msl Cmd Staff	73
Proc & Prod Dir	99
Research & Dev	96
Sply & Maint Dir	99
Msl Spt Cmd	85
Guided Msl Sys	
Hawk	93
Nike-Herc	91
Nike-Zeus	46
Mauler	81
OGMS	83
Area Engineers	80
Bal Msl Sys	
Pershing	91
Sergeant	54
Missile "B"	100
Msl Intell	75
Thiokol	92
Rohm & Haas	86
Air Defense Sys	100

Mobile Missile Exhibits Slated For Vets Parade

Four mobile missile exhibits from Redstone Arsenal will participate in the annual Veterans Day parade in Huntsville on Nov. 10.

Appearing on the reviewing stand will be a Redstone Arsenal employe, Carl Bolden, the only

known holder of the Congressional Medal of Honor now residing in the Huntsville area.

Featured exhibits in the parade will be the Army Missile Command's mobile displays of the Honest John, LaCrosse, Nike Hercules and the Littlejohn.

In addition, other Army missile displays will appear in Nashville and Florence on Nov. 10, for similar Veterans Day activities. Other displays will be in Birmingham on Nov. 12, for ceremonies there.

Officials scheduled to be on hand for the Huntsville observance include Sen. John J. Sparkman, guest speaker for the event. Sen. Sparkman will also serve as

a judge for the parade entries.

Other judges of the parade will be Preston Farish, commander of the Disabled American Veterans Chapter 26; J. Oliver Snow, commander of the Veterans of Foreign Wars Post 2702; Doyce Thompson, commander of American Legion Post 37; and the senior officer attending from the Army Missile Support Command.

Events of the day will open at 1:30 p.m., when Sparkman will speak at a short dedicatory ceremony at the reviewing stand, located on the west side of the Court House square. The parade will begin at 2 p.m.

Closing out the Huntsville ob-

NEW LAW

President Kennedy has signed into law a bill which authorizes the hiring of readers for blind Federal employes at no cost to the Government. Readers may be paid by blind employes themselves or by non-profit organizations. Passage of the law is expected to increase employment opportunities for the blind.

servance will be an 11th hour ceremony at Maple Hill Cemetery where a wreath will be placed on the Soldier's Monument by the three veterans organizations participating.

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1961 MERCURY
4 Door, Fully Equipped, Air Condition, Like New, **SAVE**

1961 CHEVROLET
Convertible, Sharp White, Extra Clean, **Save \$\$\$**

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Station Wagon, Standard Shift, Red Finish, A Real Nice Buy, **Save \$\$\$ Now**

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Local, Nice, **Save \$\$\$ Now**

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Tech Writers, Illustrators Interpret Terms

They Write Manuals For Men In The Field

A lot of documentation goes into fielding a missile, and interpreting engineering terms into everyday language calls for versatility on the part of the tech writer.

Versatility is exactly what is found in the Publications Branch of the Directorate of Supply and Maintenance of the Army Missile Command, headed by Col. Robert W. Van Wert.

Missile manuals are like "told to" stories by reporters. They begin with the engineers or users who tell it to the technical writers and illustrators.

Translations from engineer terms to technicians' terms sometimes require painstaking effort on the part of the writers particularly. A missile engineer is taught to think in a language separated from the rest of the world by diagrams and terms that only another engineer can translate.

When Missile Command technical writers complete a work, it goes to the editors under Bobby Frazier, who prepare the copy for the printers. The Directorate of S&M uses three local printers for black and white work and sends color and classified material to the Government Printing Office in Washington for publication. The Printing Control Officer from the Adjutant General's Office is William Marks.

Manuals produced in the branch are distributed throughout the

world: anywhere a missile system is in the hands of troops or stored.

The manuals cover all phases of missile handling from operation through maintenance and supply lists for spare parts. Ed Hart is the chief of the technical publications section. Under him are men and women assigned to write technical manuals for each missile system.

George Rudd heads the short range ballistic missiles section. EN-TAC and the S-58 simulator are the responsibility of Alex Oliver's section while Robert Davenport is in charge of writers on Lacrosse systems.

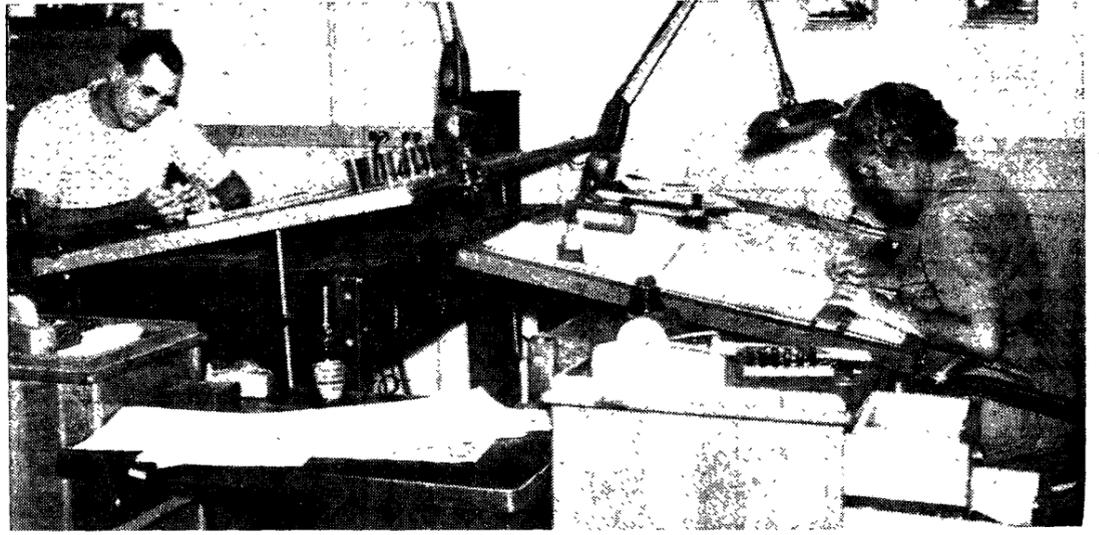
Bill Fleming's section handles high altitude missiles, and Ed Gollop's the low altitude missiles. Aubie Latham is in charge of writing about long range ballistic missiles. Samuel Bagley is responsible for field artillery and antitank missiles.

The chief of the Publications Branch is Harold C. Strange, a veteran of five and one-half years at Redstone Arsenal and of 14 years in the publications field.

Altogether, it takes about 65 technical writers on the staff to keep abreast of missile advances and refinements.

An additional 80 cataloguers are needed to keep the supply manuals current. This section has Joe H. Haley at its head.

Like every sizeable organization, the Publications Section has an administrative office to keep the normal flow of support paperwork moving. Clyde Estes heads this



VISUAL ARTS—Bill Stagg works on slides in the Illustration Branch of the Supply and Maintenance's Publications Section while Mrs. Opal Collins decorates a brochure. Other illustrators and artists concentrate on supply manuals and technical manuals.



LOOK . . . THEN WRITE—Alex Oliver and Robert Davenport examine a circuit before putting into words the exact operation of an instrument panel. Both are technical writers in the Directorate of Supply and Maintenance, Army Missile Command. The publications section, which employs more than 200 people, produces the manuals necessary to train and maintain missilemen and missiles in the field.



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office.

Illustrators are divided into three sections: Troy McKleroy is chief of the technical illustrations branch; Mary Jane Hearn heads supply, and Dorothy Chorba is in charge of publications which include charts, brochures, slides and pictures.

The illustrators work in any media required for their end product, from pen and ink to oils and cameras. Many of them have produced a great deal of artwork on the side. The end product may be a schematic, half-tones of missile components or concept of a future missile. The illustrators support the technical or supply information of the writers, clarifying the descriptions with visual art.

Altogether, it takes 257 people to handle the work of the Publications Section.

Movie Schedule

WEDNESDAY, November 7
"David and Goliath" (F)
THURSDAY-FRIDAY, Nov. 8-9
"The Lion" (M-YP)
SATURDAY, November 10
"The Sad Sack" (F)
SUN.-MON., Nov. 11-12
"If a Man Answers" (M-YP)
TUESDAY, November 13
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Page 14 The Redstone Rocket — Nov. 7, 1962

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1959 Plymouth Suburban 2 dr. wagon. V8, auto., clean local one owner. Low mileage and nice.	1958 Chevy 6 cyl., 4 dr., auto., radio, heater. Beautiful turquoise and white. Nice one. Ready to go.
1956 Buick 4 dr. Roadmaster, full power, including seats and windows, extra nice. New set Premium whitewalls. See this one.	1957 Chevy 4 dr. hardtop, 6 cyl., str shift. Clean, low mileage, baby blue and white. Economy and beauty.

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FOR RENT — 3 room furnished apartment, private bath, hot and cold water, front and back entrance, 2 large porches, \$60.00 per month. Phone 772-6628. ltp

FOR SALE — Pointer pups, 5 mo. old, phone 881-3487. ltc

FOR SALE — Utility trailer—4x6 bed with 3 ft. sides—all steel angle frame—6 months old — spare tire and wheel included. \$65.00. Phone 539-4684. ltp

SECOND CAREER FOR RETIRED MILITARY—Or active duty military planning retirement. To represent 96 year old national concern in Huntsville area. Complete training program. Applicant must have management potential and 5 figure income objective up to \$500 per month training allowance plus commissions to qualified representative. Non military with sales, teaching or executive background also eligible. Replies in strict confidence must include age, education, past experience and marital status. Write Frank Williams, 1010 Frank Nelson Building, Birmingham 3, Alabama. 11-14c

54, V8, 4 DOOR FORD — New paint job, heater, good running condition. Almost new tires, straight shift, ideal second car. \$200.00. Phone 539-1449. ltp

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FOR SALE — Registered German Shepard's. Rin Tin Tin and Bullet boodline. Small to breeding age. Phone EL 3-2176 Decatur, Alabama, after 5:30 P.M. 11-21c

WANTED — A ride from 128 Walker Ave., N. E. to vicinity of Bldg. 4705-07-11-12. Call Mounts, 536-8705. ltc

OLD COINS — I buy old coins—old gold coins; Indian head pennies, complete sets; Canadian coins. Darrell Sanders, Grand News Stand, Clinton Ave., downtown Huntsville. tfc

BARCLAY APARTMENTS—Nicely furnished, brick veneer, 1 or 2 bedrooms, ideally located for Redstone employes, phone 536-0775 or 536-0776. 11-14c

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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 534-6452. tfc

FOR RENT — 3 room and bath furnished apartment, 3202-9th Ave., West, \$65.00 per month, phone 534-2659 after 4:30 p.m. ltc

ON THE LAKE, LESS THAN 20 MILES FROM ARSENAL GATE — Boat storage for rent. Rooms with bath for rent. Contact W&W Land Co., 106 N. Lincoln, Phone 534-1451 or 536-3113. tfc

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BRITISH GENERAL VISITS—Maj. Gen. John M. McNeill (center), Commander of the British Army Staff in Washington, D. C., examines a LASER (light amplification by stimulated emission of radiation), in the Electromagnetic Laboratory, Directorate of Research and Development, Army Missile Command. Buford Jennings, physicist in the laboratory, explains the operation of LASER. Gen. McNeill spent two days at Redstone Arsenal recently. He was briefed in several laboratories of the Directorate. At left is the British Liaison Officer at the Missile Command, Lt. Col. William Graham.

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LT. COL. H. H. HEWITT

LT. COL. HEWITT HEADS COMMAND QUARTERMASTER

Lt. Col. Henry H. Hewitt has been assigned as chief, Quartermaster Division, Missile Technical Support Office, Army Missile Command.

He came to Redstone Arsenal from the U. S. Army, Pacific, where he served in plans and operations of the Quartermaster Office from May, 1959. His previous military service included tours at Ft. Warren, Wyo.; Ft. Lee, Va.; Korea; Ft. Bragg, N. C.; and Natick, Mass.

Col. Hewitt entered military service in September, 1940, with the 41st Infantry Division, a National Guard unit from Washington. He is a native of McVie, N. D.

A graduate of Jackson College, Honolulu, Hawaii, he also attended University of Washington, Columbia University and University of Virginia.

Col. and Mrs. Hewitt are parents of two sons, Henry H., two and George W., 11 months. They are making their home on Redstone Arsenal.

CASHIERS NEEDED

The U. S. Board of Civil Service Examiners has issued Announcement No. AT-35-16(62) for sales store cashier-checker at a GS-3 rating (\$3760 a year).



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