Arsenal-Wide

Spot News

Dial 112

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

MARCH 9, 1966

REDEYE HITS MILESTONE

Soldiers Train With Redeye

The first group of U.S. military personnel qualified this week as Redeve weapon system instructors upon completion of a course conducted at Ft. Bliss, Texas.

Redeye is the world's smallest

guided missile—a shoulder-fired weapon that gives the infantryman an effective defense against low-flying enemy aircraft.

Fourteen U.S. Marine Corps and Navy personnel made up the initial group of trainees to qualify as Redeye gunners. They will serve as instructors in military will classes when the Redeye system becomes fully operational using units.

A total of about 80 gunner-instructors, including Army, Navy and Marines, as well as some allied troops, will receive training in a series of five classes.

Gunner training includes a familarization program in handling and operating the 30-pound Redeve. In classroom training, troops will study rules of engagement, ranging, firing sequence, hazards and safety measures and organizational maintenance.

Although actual firings will be made at small target drones, students are getting practical experience in tracking and ranging against a variety of aircraft, including the L-20, F-100, B-57 and helicopters.

Simultaneously with the gunner classes is a three-week program for maintenance personnel which is being conducted by General Dynamics of Pomona, Calif., Redeye prime contractor and Honeywell, prime contractor for an aerial trainer.

The maintenance program offers instruction on a test set designed for the Army by General Dynamics which checks the operational capabilities of the Redeye and the Honeywell trainer which looks (See SOLDIERS on Page 3)



MIAMI VISITORS SEE TOW-Maj. Ronald J. Lemanski of the TOW Project Office points out features of the heavy assault missile system to members of the Miami Beach Committee of 100. The visitors were at Redstone Arsenal Monday to tour Army and NASA facilities. Their morning tour included briefings and views of major Army Missile Command-managed systems in the Research and Development Directorate's Francis J. McMorrow Laboratories. The TOW here is mounted on the Army Mule, an in-house development of the R&D Directorate. Maj. Lemanski is Deputy Chief of the Systems Engineering Division of the TOW Project Office.

AMC Receives **National Safety Council Award**

The U.S. Army Materiel Command (AMC) has been awarded the National Safety Council Award of Honor for the third consecutive

Ex-Governor of Arizona, Howard N. Pyle, President of the National Safety Council, presented the award to Gen. Frank S. Besson, Jr., Commanding General, U. S. Army Materiel Command, for AMC's Fiscal Year 1965 safety program at a recent ceremony at Headquarters, AMC.

During the same ceremony Gen. Besson also received the Department of the Army Safety Award of Merit from Maj. Gen. R. F. (See SAFETY on Page 2)

Committee Of 100 Tours Visits Today Redstone

Approximately 50 members of the Committee of One Hundred of Miami Beach, Florida, arrived at Redstone Arsenal by charter plane Monday morning for a whirlwind tour of the U.S. Army Missile Command and Marshall Space Flight Center.

The Committee of One Hundred is an educational, cultural, civic group composed of more than 300 leading industrialists, financiers, educators and professional men (See COMMITTEE on Page 3)

Gen. Freeman

by the 55th U. S. Army Band; dinner with U. S. Senator John J. Sparkman and military and civilian leaders of the Redstone Arsenal community; a special meeting with Sergeants Major of the Army Missile & Munitions Center & School; and detailed briefings and inspection of ammunition and missile training and facilities, luncheon with Foreign Liaison Officers and a plane-side press conference just prior to departure
—these are highlights of the first official visit here today and to-morrow by Gen Paul L. Freeman Jr., commanding general of the U. S. Continental Army Command. (See FREEMAN on Page 7)

Redeye's Development **Tests End**

Almost seven years of research and development on the Army's Redeye, the world's smallest known anti-aircraft missile, have come to a successful end at the U.S. Naval Ordnance Test Station in China Lake, Calif. Developmental testing has been completed there and the weapon will soon go into engineering-service tests at White Sands Missile Range, N.M.

The 30 pound Redeye missile/ launcher package is designed to be fired from the shoulder of Army or Marine infantrymen in forward combat areas. Management of the program has been at the U.S. Army Missile Command, Redstone Arsenal, Ala., where Col. A. W. Reed is Project Manager for the joint Army-Marine program.

Feasibility studies began at General Dynamics/Pomona following a company proposal to the Army in 1958. Since that time Redeye has undergone a long series of successful firings against a variety of targets, including F-9 jet drones and helicopters.

Simplicity and sophistication have been blended into the Redeye to make maximum use of the Seventeen ruffles and flourishes infantryman as an integral part of the air defense system. Redeye would be carried into the combat zone in a three-weapon carrying case with each missile already packed in its own launcher ready for use. In combat, the launcher. which is of fiberglass, would be discarded after firing.

In actual use, all a soldier must do to fire the Redeye is aim it, engage two switches and press a trigger. Soldiers have fired Redeye and scored direct hits on drone targets after receiving only minimal instruction in the system.

The missile has two stages: the first ejects the missile from the (See TESTS END on Page 3)

Secretary Submits Missile Budget To Congress

Missile Command Systems Funding Needs Outlined

Funds for production of the Chaparral, Shillelagh, Redeye, Pershing and Lance missiles, and ground support equipment for Hawk as well as advance production engineering for the Hawk Improvement Program are among procurement items listed in Secretary of Defense Robert S. McNamara's recent statement to the Senate on the Defense program and bud-

In the research development area, the budget request provides for continued development of H aw k improvements, SAM-D, MAW and TOW missile systems.

In his statement before a Joint Session of the Senate Armed Services Committee and the Senate Subcommittee on DOD Appropriations, Secretary McNamara discussed procurement plans for systems managed by the Army Missile Command.

Army missile procurement, including spares, will total \$369 million in Fiscal Year '66 (\$64 million in the Supplemental request) and \$357 million in FY '67.

"The current year's procurement of Pershing missiles will complete the presently planned inventory requirements and provide for training consumption. Funds are included in the FY '67 budget to finance the procurement of improved ground support equipment," according to the

Defense Secretary's statement.

Also from the statement are comments on Lance, Shillelagh,

Redeye and Chaparral:
"For Lance, \$19 million of available funds will be used in FY '66 for production tooling and advance production engineering. In FY '67, we propose to procure a substantial number of missiles and the associated ground support equipment.

"The revised FY '66 program for Shillelagh includes a large purchase of missiles and the FY '67 request includes an even greater quantity. This infrared, commandguided anti-tank missile is the primary weapon for the retrofitted M-60 medium tank and the General Sheridan armored reconnaissance vehicle.

"For Redeye, the man-portable, shoulder-fired air defense missile, the revised FY '66 program provides for a major purchase of mis-

(See MICOM on Page 2)

Nike-X Needs Pointed Out In All-time High Budget

Statements by Defense Secretary Robert McNamara during recent Congressional budget hearings and briefings by other Defense authorities have clearly pointed out the status of the Redstone managed Nike-X missile defense pro-

For one thing, the Department of Defense has requested an alltime high budget this year of nearly a half-billion dollars for Nike-X.

This figure includes appropriations for the continued high priority development of the Nike-X system and operations at the Kwajalein Test Site in the Pacific.

A total of \$447 million was included in the Fiscal Year 1967 defense budget for Nike-X research and development, setting a new record for the system which over the past years has become the nation's highest funded defensive missile R&D effort.

The funding request topped last year's budget of \$410 million by \$37 million.

In addition, according to Secretary McNamara, another \$33 million was being requested for operations at the Kwajalein Test Site. These funds are over and above regular Nike-X R&D funds but are administered by the Nike-X Project Office to support all Kwajalein users including the Air Force. Navy and DOD research activities.

(See NIKE-X on Page 3)

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 876-1400 or 876-1500.

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Rocket Ruminations

In the spring a livelier iris changes on the burnished dove; In the Spring a young man's fancy lightly turns to thoughts of love. -Alfred Lord Tennyson

A Week Of Rededication

Girl Scout Sunday was observed at the Post Chapel by Redstone Arsenal's two Girl Scout troops, the three Brownie troops and the Cadettes and Seniors who attended services in uniform.

The Girl Scouts are the ambitious youngsters who are eager to learn how to serve their community.

They learn the business of give and take and make a practice of service in their daily lives. They may not help old ladies across the street, but they most certainly learn to help one another in communial endeavors.

They learn the habits of good citizenship and proper respect for themselves, God, country and flag. They also learn self-sufficiency indoors and out.

MICOM

(Continued From Page 1)

siles, and the FY '67 request includes a large additional quantity. These procurements will meet the present tactical inventory objectives and provide for training consumption.

"The FY '67 (budget) request includes \$62 million for the Chaparral system. This amount will provide for the procurement of a large quantity of missiles, the self-propelled and towed fire units, and equipment for training and testing Chaparral."

Further discussion on Chaparral and Hawk included these excerpts **from** the statement:

"First, as I describe last year, we have initiated a program aimed at reducing the forward area air defense problem in Europe. Funds were provided in the FY '66 budget to procure weapons for a number of new air defense battalions, each containing 32 guns (20mm) and 32 Chaparral missiles. Funds were also provided to procure equipment needed to convert a number of Hawk battalions to a more mobile (self-propelled) configuration.

"In the process of converting to the self-propelled configuration, total firepower will actually be increased, since the self-propelled battalion inree three firing platoons each, compared to the four batteries with two platoons each in the fixed-site battalion. We are now in the process of converting the Hawk battalions approved last year, and the FY '67 budget provides for conversion of more.

"Now as a result of extensive studies and tests we propose to ex-

and tests, we propose to expand the program begun last year and increase very substantially the of Gun/Chaparral batnumber

In the section regarding improved surface-to-air missiles, the Secretary said:

"Our FY '67 budget request provides for the continued development of improvements to the Hawk missile system with a view to decreasing its reaction time, speeding up its target-handling capability and improving its reliability. It also provides for the continued development of an advanced air defense system as a possible replacement for both Hawk and Nike Hercules in the 1970's. This effort, now designated SAM-D, and the Hawk Improvement Program are also oriented to the theater air defense problem."

Other excerpts from the statement are:

"The major change in the surface-to-surface missile force involves our proposal to procure Lance in FY '67. Initially, we plan to use Lance to replace Littlejohn and Honest John. However, Lance also shows promise as a more effective substitute for some tube artillery. Therefore, the currently proposed Lance force structure should be considered a minimum deployment, pending further Army study of this question.

"The increase in the number of composite Gun/Chaparral battalions and the increased effectiveness of the self-propelled Hawk will permit some reduction in our reliance on Redeye. We have revised the Redeye procurement accordingly.

"In addition, two other efforts are now underway to improve our air defenses. The

first, known as the Hawk Improvement Program, is designed to give this missile system increased effectiveness, Such an improved Hawk system would be a hedge against slippage or failure in the development of next gensra-

tion of air defense weapons ... Preliminary work on the improved system will be started in FY '67.

"The second effort is the new surface-to-air missile development, SAM-D . . . This system will be oriented principally to the defense of Army forces in the field against aircraft and short-range tactical ballistic missiles. Eventually, it would replace both Nike Hercules and Hawk in the field, complementing low altitude forward area weapons. It might also be used in conjunction with an anti-ballistic missile system for terminal bomber defense in the continental U.S. SAM-D will be designed to meet a high performance aircraft type threat, will have a capability against short range ballistic missiles, and, as presently conceived, would be the principal tactical air defense weapon for the 1970's.

"The FY '67 effort (for SAM-D) is directed toward the start of Engineering Development, assuming that the current contract definition is successfully completed. In addition, investigations are underway to determine the extent to which common subsystems and components could be developed for both SAM-D and the Navy's Advanced Surfaceto-Air Missile."

The statement reports that "The \$2 million requested for the (Navy's) 'Landing Force Support is to provide for the Weapon' flight testing of the Army's Lance missile in a sea environment i. e., launching the missile from a ship in support of landing forces."

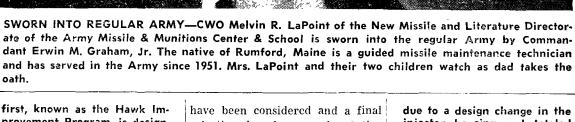
"Funds included in the FY '67 budget for the "Heavy Anti-Tank Assault Weapon (TOW) will provide for an expanded test program needed to insure a high level of reliability for this front line weapon system."

"Another major effort is the Medium Anti-tank Weapon (MAW) system. Two competitive systems

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selection has been made. Active development will commence this "With respect to the defense of hard point targets, we have

had for some years a multipronged effort to develop the concepts and the components for an advancing weapon system. The two major elements of this effort are HIBEX-an extremely high acceleration missile interceptor - and HAPDAR — a complementary phased array radar. These proiects have already been funded, a number of interceptor tests have been made and the test radar has just recently begun to operate. Over the next several months we will be studying and evaluating the data from these tests.

"With the exception of the Hercules, the surface to air missile forces are essentially the same as those projected a year ago. In the case of Nike-Hercules, we have decided to phase out 22 batteries deployed in defense of soft SAC bomber bases in the U.S. and Greenland . . . Currently we plan to use the assets of 17 of these Hercules batteries to replenish the maintenance float and the assets of the remaining fire for training. Over the FY 1956-67 period, this change will save about \$179 million in operating costs."

In the section of the report dealing with Value Engineering, the Secretary listed a savings on recent procurement for Lance. The savings were

due to a design change in the injector housing and totaled \$125,000.

SAFETY

(Continued From Page 1)

Seedlock, Director of Military Personnel, Office, Deputy Chief of Staff for Personnel, DA. This award is one of six Army awards given for effectiveness in the prevention of accidents throughout the last fiscal year. Won in worldwide competition, AMC is the only major field command in the United States to receive such recognition this year.

The AMC rate of civilian disabling injuries for fiscal year 1965 compared favorably with the all manufacturing average and related industry rates, e. g., AMC's accident rate per million man-hours of operation was 1.5; all manufacturing industries was reported at 12.6.

March 13, 1852 — The first newspaper cartoon of "Uncle Sam" appeared in a New York comic weekly.



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AIMING HIGH—In tests at NOTS, the infantryman's own antiaircraft missile system, Redeye, was recently examined by Brig. Gen. E. I. Mueller, U. S. Army, Director of Doctrine and Systems Office of the Assistant Chief of Staff for Development. He watched Con Wohlfert (right) fire three rounds at Ft. Bliss, Texas. Three KD2R prop drones were shattered, the first at 2500 feet by a warhead; the second at 400 feet by an unarmed round; and the third at a steep 4500 feet by another warhead.

TEST END

(Continued From Page 1)

launcher; the second drives it to the target. An infrared seeker mounted in the nose of the four foot solid propelled missile guides the Redeye to the heat source of the target. Redeye is roll fin stabilized and aerodynamically controlled in flight.

In engineering evaluation testing by NOTS, targets have included propeller-driven drones, jet and drone helicopters. Some missiles have been equipped with warheads and others with telemetry which examined flight

As a joint development of the U.S. Army and U.S. Marine Corps, each has provided a proportionate share of the Redeye development costs. Both services will like, and operates like, an actual share in the output of production missiles. Both plan to issue Redeye to combat units as soon as a sufficient quantity of missiles are available. Many NATO countries

have also indicated an interest in

Redeye began several years ago as an unsolicited proposal from the present prime contractor, General Dynamics/Pomona. From company studies, a proposal was evolved and presented to the Army. The concept envisioned a means of meeting the urgent need for protection for ground troops in the forward area from aircraft at

The Army initiated the Redeye program with the signing of a development contract with GD/Pomona on June 30, 1959, and limited production of the system began in the spring of 1964.

SOLDIERS

(Continued From Page 1)

weapon. The trainer allows instructors to evaluate performance of the gunners without actually firing a missile.

About 75 maintenance men will

NIKE-X

(Continued From Page 1)

Thus, if the budget is approved by Congress Nike-X will in the coming Fiscal Year be administering expenditures that average out to more than \$1.3 million dollars

According to the Defense Secretary, the \$447 million in Nike-X R&D funds will "continue on an urgent basis a reoriented anti-ballistic missile effort emphasizing the development of an austere version of the multi-function array radar (TACMAR), the missile site radar (MSR), high speed data processing equipment, the high acceleration Sprint missile and the new ex-atmospheric (Zeus) missile.

In describing the Nixe-X system, the Secretary noted that it might also contain a new radar which would increase the system's surveillance capabilities.

He described the Nike-X system as one of the "major components" in the United States' Limiting" defense sysems.

In describing the Depart-ment of Defense's attitude toward Nike-X, another Defense official, Assistant Secretary Paul Ignatius, had this to say during an industry briefing:

"The Chinese Communists have detonated two nuclear devices and could possibly develop and deploy a small force of ICBM's by the mid or latter part of the 1970's. In an effort to undermine the United States deterrent credibility, or to blackmail their neighbors, such a deployment might seem attractive to them.

"For this reason, an effective US defense against such a threat might not only negate the threat, but might possibly weaken the incentive to produce it."

Then, in a compliment to Nike-X, he said "the prospect and feasibility of such a moderately priced defense is now more promising than it was some time ago."

Secretary McNamara said of such a Nike-X defense, "The initial investment and five years operating costs (including R&D) would be about \$8-101/2 billion depending on the number of cities defended and the density of the area coverage."

"Once fully deployed, this defense system could be augmented to increase its effectiveness against larger or more sophisticated threats."

He added, however, "on the basis of our present knowledge of Chinese Communist nuclear progress, no deployment decision need be made

be trained initially, the Army said. Development of the Redeye system has been funded jointly by the Army and Marine Corps. Both services will share in the output of production missiles.

Training of gunners and maintenance personnel represents a major milestone in the fielding of the Redeye weapon, the Army

Capable of being carried by a single soldier or marine and fired from the shoulder, Redeye gets its name from an infrared heat seeking device it employs to "home" on the heat of an aircraft's engines.

In operation, initial target detection and tracking is done visually by the gunner. When the aircraft is within range of the missile and its infrared seeker has lockedon the target, a simple squeeze of the trigger fires the missile. Soldiers firing the Redeye in tests have scored direct hits on a variety of aircraft after only a few hours of instruction.

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The Redstone Rocket

now. However, the development of essential components should be pressed forward vigorously."

A further word of commendation for Nike-X was voiced by Daniel J. Fink, Deputy Director of Defense Research and Engineering. He said during a recent industry briefing in Boston: active defense against ballistic missiles we have the Nike-X, an outgrowth of the Nike Zeus, an extremely successful development program up to now. It has been the greatest contributor to exposing the fallacy of the old cliche that you can't hit a bullet with a

The headquarters for the Nike-X Project is at Redstone. Some 300 persons are employed in the Project Office which is headed by Col. I. O. Drewry.

March 11, 1960 — A U.S. plane toid, PIONEER V, was launched from Cape Canaveral, Florida, into orbit around the Sun.

COMMITTEE

(Continued From Page 1)

from all over the United States and Canada, who spend their winters in South Florida.

Dedicated to community service, the organization sponsors one field trip a year to give members first hand knowledge of activities having national importance.

Maj. Gen. John G. Zierdt briefed the visitors on Army activities at Redstone Arsenal and Dr. Wernher von Braun discussed the mission of the Marshall Space Flight Center. The group toured the Army installation during the morning and Marshall in the after-

The Huntsville Army Advisory Committee hosted a luncheon for the visitors at the Redstone Officers Open Mess and in the evening the Huntsville Industrial Expansion Committee gave a dinner at the Carriage Inn.

Committee of One Hundred flew back to Miami early Tuesday.

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Girl Scouts learn patriotism, the meaning of scouting and proper handling of their Nation's flag.

Girl Scouts are found all over the world. Sunday, the beginning of Girl Scout week, they went to church in uniform and in a body. At Redstone Arsenal there are

Girl Scouts are curious as kittens | three Brownie troops, two Girl Scout troops, one troop of Cadettes and one troop of Seniors. Advancement depends on age.

> The Neighborhood Chairman counts between 150 and 160 girls on the roster. Mrs. John McCombs recently took over as Neighborhood Chairman from Mrs. Maclynn Abbott who had served in that capacity since September.

> Mrs. R. L. Andrist, Mrs. Gene Herrick and Mrs. Anthony Johnson are the Brownie Troop leaders.

> Mrs. Charles F. Walker and Mrs. Orville O'Neal lead the Scouts. Mrs. Robert S. Kinch is the Cadette leader and Mrs. Richard (Continued on Page 5)



ALL LIGHTED UP-Peggy Osman opens wide for Colonel James Thompson, Post Dental Surgeon, during a lecture and demonstration of proper tooth care at a joint meeting of Girl Scout Troops 191 and 134.



SERVES TEA—Senior Girl Scout Donna Miley serves Mrs. Maclynn Abbott (left) and Mrs. Leslie Heath during a tea the girls gave for mothers and special guests, the Flying Petticoats.

Page 4

The Redstone Rocket

March 9, 1966

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FLAG BEARERS AND GUARD-Befor every meeting the Girl Scouts pledge allegiance to the flag of the United States and repeat the Girl Scout promise: On my honor I will try to do my duty to God and my country . . . "Bearers and guards above are (left to right): Sandra Stembridge, Kimberly Niedermeyer, Deborah Walker and Christine Rawhouser.

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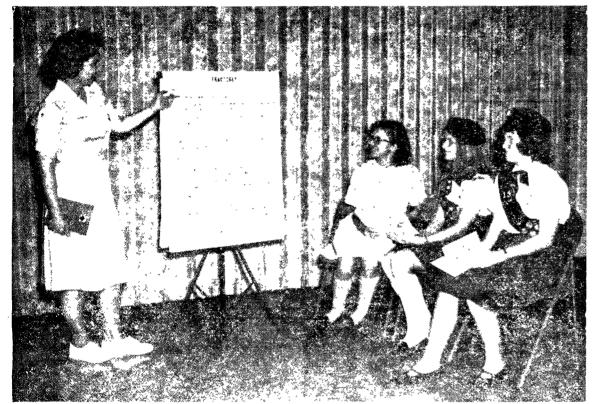
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CEREMONY-Candles in the ceremonial logs shine brightly as Girl Scout Troop 134 prepares for a fly up ceremony for members about to join their troop from the Brownies.



FIRST AID CLASSES-Mrs. John McCombs, Neighborhood Chairman for the Redstone Arsenal Girl Scout, teaches first aid to a class of Cadettes. The girls are taught elementary first aid methods and to tie bandages. The Cadettes are (left to right): Susan Kinch, Louise Hartman and Nancy Allen.



ON GIRL SCOUT SUNDAY—Girl Scouts and Brownies were their uniforms to church last Sunday. They sat in a reserved section with their leaders in observation of the Sunday that began Girl Scout Week. Brownies are especially delighted to have a chance to sing. Left to right are Madeleine Leskantz, Donna Jackson and Lauren Andrist.

GIRL SCOUTS

(Continued From Page 4)

Augustine is the leader of the Senior Scouts.

One of the services the older Scouts perform is showing visitors from other Girl Scout Troops around the Arsenal, explaining life on a military reservation, what the workers are trying to accomplish, and what it feels like to be among the Space Age pioneers.

Both the Boy Scout and Girl Scout Troops are financed by the Joint activities Council at Redstone. The Council is headed by

the Post Dental Surgeon, Col. James Thompson, who sometimes accomplishes two missions at one lecture. He tells the Scouts how to take care of their teeth, and Propulsion Units he examines them for cavities at the same time.

Each of the Troops has an assigned area in Splinter Village behind Civilian Personnel. Here they work, play, entertain and learn the fundamentals of good citizenship. An area on the North Division on Redstone Arsenal. end of the arsenal is at their disposal for campouts and cookouts.

Drive Safely

Thickol To Build

The Army Missile Command has announced the award of a \$342,000 contract to Thiokol Chemical Corporation for work on propulsion units. The work will be done at the corporation's Huntsville

Work authorized by award will cover a nine months period.

The contract was executed and negotiated by the Missile Command's Procurement and Production Directorate headed by Col. B. A. Saholsky.

Movie Schedule

THEATER NO. 1

WEDNESDAY, March 9
"Hold On!" (F) THURSDAY-FRIDAY, March 10-11 "Harper" (M)

SATURDAY, March 12 Walt Disney's "Those Calloways"

SUNDAY-MONDAY, March 13-14 "The Art of Love" (M-YP) TUESDAY, March 15 "The Naked Prey" (M)

THEATER NO. 2

WEDNESDAY, March 9

"Operation Crossbow" (M-YP)

FRIDAY, March 11 "Johnny Tiger" (M)

SATURDAY, March 12

"Hold On!" (F) SUNDAY, March 13 "Harper" (M)

TUESDAY, March 15 "Gunpoint" (F)

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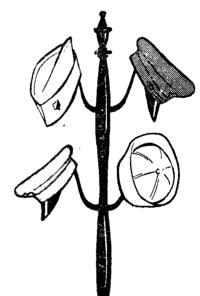


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May, Lavoy and Sarge On Civilian Honor Roll

Parade Of Stars

Field Services League: Al Sarge, 609 (223), Mel Tack, 584 (212), Bob Hall, 583 (226), Ed Leahy, 583, Nick Sparks, 552, Troy Faulkner, 549, Bob Adams, 549, Hal Williams, 548 (227), John Echenroth, 544, Mike Shuput, 535.

Supply Management League: Charlie Colvard, 574, Fred Stewart, 569 (222), Cliff Cline, 562, Don Tyler, 562 (222), Art Calsoni, 560, George Bush, 559, Tom Lindsay, 558, Ross Vinson, 558, Jerry Crutcher, 550, Hal Miller, 547.

AMC League: Floyd Clark, 576 (213), Al Rossi, 574 (202-203), Gerry Keagy, 570, Jack Moore, 561 (226), Jim Kyzer, 559 (211), Jim Gulley, 556, Jim Watts, 555, Walt Heflin, 550, George Thurlow, 540 (211).

Redstone League: Wayne May, 625 (213-241), Chuck Lavoy, 608 (211-206), Dick Cizek, 572, Howard Goodlett, 563 (223), Will McCoy, 561, Bill Davenport, 560 (214), Joe Leary, 556, Jim Gulley, 556, Jim Denk, 551, Walt Jackson, 547.

Another trio of Honor Roll counts were posted in the Civilian Panthers swept the Tow Boys led Bowling leagues last week as Al by a 555 put together by Jim Sarge made the elite list for the third time along with newcomers, Wayne May and Chuck Lavoy.

Both of the latter pair performed their pin splitting antics in the Redstone League at the Pin Palace while Sarge is a regular in the Field Services League that rolls at the Parkway Lanes.

May fired games of 213 and 241 around a 171 for a three game total of 625 to grab bowler of the week honors. Lavoy rolled games of 211 and 206 in a 608 set and Sarge had a 223 in his 609 total.

May's efforts were enough to lead the Photo Lab to a 3 to 1 win over the Pin Palace with a 2967 team total. Will McCoy helped the cause along with a 561.

The league leading Dean's Trailer Court team used Lavoy's honor roll count as a springboard to a clean sweep, to protect their four point bulge over the Six Shooters and the Ginger-Ruth Co.

Standard Oil turned in the top team effort of the evening, but their 3008 was only good for an even split with Giles Garden Center. Bill Davenport had a 560 and Jim Gully collected 556 more for the Oilers, while Dick Cizek turned in a 572 and Bob Lindeman

their lead in the Field Services League to five and a half points by winning three while the runner up Crackers were absorbing four straight losses.

Sarge fired his league leading total for the Expediters while Mel Tack won a duel with Bob Hall and Ed Leahy for second place honors. Tack felled 584 sticks, one more than each of his adversaries.

loss and square the standings.

Floyd Clark set the Mauler pace 1016 and a series total of 2998. Clark upset 567 sticks, Jim Gulley had a 556 and Clint Guold accounted for 527 more. The Bombers had a 1023 opener and a 2951 total as Jerry Keagy fired a 570

as Al Rossi fired a 574, and the Joe Yancher.

Watts.

In another unexpected sweep the Cavaliers followed the lead of Jack Moore (561) over the Skip-

The Huntsville Brick and Tile five suffered their first setback in several weeks of Supply Management League activity when they lost three out of four to the Debuggers. It had little affect on the standings, however, since the Tilers still have a commanding nine and a half point lead over the All-Sports Trophies.

Charley Colvard set the pace for the Debuggers with a 574 and George Bush chipped in with 559 more. Tom Lindsay led the Tilers with 558.

The best team total of the week was put together by the Satellites when they dropped 3006 sticks in winning a trio from the Manglers

Another team that has shown a remarkable recovery after having been far down in the standings most of the year is the New Streaks who have risen from 15th place to ninth place by capturing 18 straight points.

added 540 more for the Gardeners. Undefeated Pair The Guided Muscles boosted Meet in Handball

Six players are still in the running for the 1966 Unit Level Handball singles championship following play last week.

Two of them, Willie Clinton and Irv Lyles, have won three matches apiece and will meet this week in The Maulers checked a disheart- the winner's bracket final. The ening slump of recent weeks in others have each lost a single the AMC League long enough to match. They are Tony D'Ambrohand the leading Bombers a 3-1 sius, Tom Ellis, Jim Oaks and John Kovac.

Clinton handed D'Ambrosius his that included games of 1055 and first setback last week after dropping the first game, 21-20. He evened matters with a 21-12 victory in the second game and then took the third, 21-11.

The only other match last week and Walt Heflin added 550 more. saw Ellis continue his comeback In a pair of upsets, the Lancers after an opening round loss with a took three from the Thunderbirds 20-21, 21-17, 21-13 victory over

German Athletes **Set Unit Level Volleyball Pace**

Foreign students at the Missile and Munitions Center hold the upper hand in early play of the Unit Level volleyball league as four of the 13 teams still own unblemished

The German Staff heads the pack with three straight wins, the German Officers have won both of their matches while the Japanese team and MICOM own a single victory apiece.

The Staff volleyballers captured a pair of wins last week at the expense of the Third and Fourth ETC while the Officers picked on Second ETC for their second win. MICOM and the Japanese were idle.

Triple headers are scheduled for tonite, Thursday of this week plus Monday and Tuesday evenings of next week.

Third ETC (0-3) hopes to get into the win column for the first time when they take on Officers No. 1 (1-1) in the 6:00 opener this evening. The 6:30 match pits the Fourth ETC (1-1) with the German Students, (0-2) and in the final match pits the German against the German Officers.

Norma Street Takes **S&M** Singles Title

For the second consecutive week Norma Street made her prowess as a bowler pay off when she captured the annual Supply and Maintenance Singles title in competition with 93 employees of the directorate last Sunday.

Norma put together scratch total with 124 pins of handicap for a 679 total, 30 pins more than Ralph Sturgill could muster. tional election for the first time.

Rocket Rollers **Keep On Rolling**

Leaving the individual heroics ning most of the points.

Last week the Rollers had their left on the schedule. system working to perfection as they had a lower scratch total in each of the three games with the Bad Gnus, yet came out on the winning end of three points.

The Gnus were spotting the Rollers 43 pins per game, and that proved their undoing in each of the first two games and total pins.

John Harris led the futile Gnu attack with a league leading 572 and Al Cox added a 532 while the Rollers failed to place a single individual in the 500 class.

The Black Jacks followed the lead of Lin Grubbs to a 3 to 1 win over the Squirrel Hill Mob to keep in step with the leaders, two and a half points off the pace. ed with 544, and Ron Parker shot

The other two matches also end-Rounders beating the Missilemen.

the Rounders and Don Walizer rolled a 206 game for F Troop.

She succeeds Pat Hood as the S&M champion.

It was just a week ago that Mrs. Street teamed with Ginny Hight to capture second place in doubles for the Huntsville Women's champ-

Sturgell took the scratch title in the S & M meet with a 599, I. R. Kellogg shot a 566 the same as Mel Webb.

Nov. 8, 1864 — Soldiers in the field were allowed to vote in na-

Lucky Strikes Tie Wheezers For Lead

A five-team free-for-all seems to their opposition, the Rocket to be in store for the A-B-C Offi-Rollers continue to roll along in cers Bowling League as the eightthe MMCS Officers League win team loop heads down the home stretch with five weeks of action

> The Wheezers and the Lucky Strikes are tied for the lead with the S Wonners, the Saturn V and the Hopefuls in a third place deadlock, two games behind the lead-

The Strikes bolted into a tie for the lead last week with a 3 to 1 win over the Black Jacks while the Wheezers were being held to a split by the S Wonners. In other matches the Pin Splitters spoiled the Hopeful hopes with a 3 to 1 setback and Saturn V had the same winning margin over the Stump Knockers.

Ray DeBolt grabbed individual scoring honors when he fired a 568 to lead the Lucky Strikes. Grubbs had a 214 game and end- His team mate, Rex Javins, added a 534 to the cause.

Jim Bochnowski fired a 543 for the Hopefuls, Jerry Keefe collects ed 3 to 1 with F Troop taking the 530 maples for the Stump Knockmeasure of the Satellites and the ers, Tom Ellis shot a 523 for the Wheezers and Lin Kidd led the Bob Percy felled 516 sticks for S Wonners with 517.



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School Receives Flying Boxcar Ammo Trainer

The last of three Air Force planes to become unique, multimillion dollar classrooms, arrived at the Army Missile & Muntions Center & School Friday, Feb. 25.

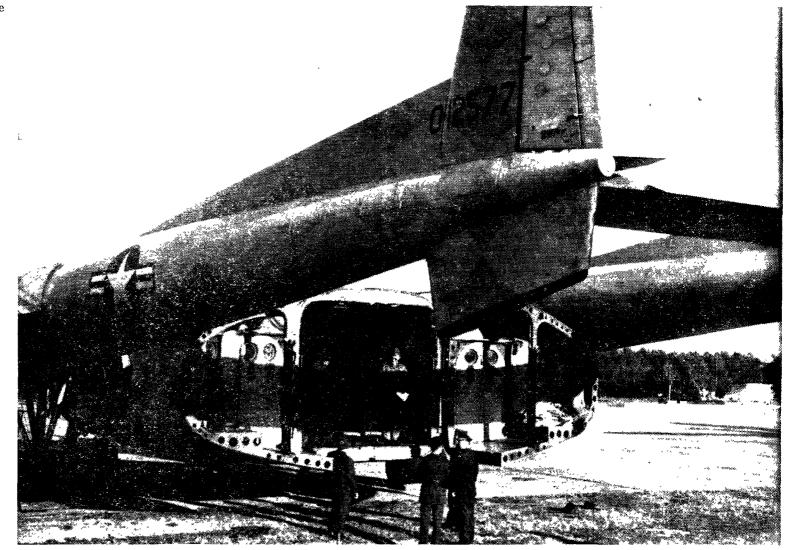
An Air Force C-119 "Flying Boxcar" landed at the Redstone Arsenal Airfield to join a B-47 bomber and an F-89 jet fighter, all ready part of the growing MMCS facilities. The three will become instruction training aids in the disposal of explosive ordnance items and ammunition loading. The three planes run the assets of MMCS to over \$70 million.

The C-119 is a twin propellar engine cargo plane characterized by two long fail booms instead of the usual fuselage configuration. The podlike, boxy fuselage is suspended under the wings and has a rounded nose and aft section.

The cargo aircraft is to be used by the Ammunition Department of the Directorate of Individual Training for training of ammunition handling and loading in realistic exercises. The other two aircraft are scheduled for use by the Explosive Disposal Division of the Directorate of Unit Training to simulate crash conditions likely to be encountered by disposal personnel, and to train them in correct methods of entering and disposing of explosive items.

The three aircraft now rest on one corner of the Redstone Arsenal Airfield but will be partially dismantled and loaded on large trailers for their ride to training areas. The wings will be removed prior to their journey and replaced at the training site. The path taken by the grounded birds is the same used to transport the giant Saturn boosters from their test stands to barges on the Tennessee River for transport to Cape Kennedy.

Flying



OPEN SESAME—The crew of a giant C-119 "Flying Boxcar" checks the rear door of their aircraft upon delivery to officials of the Army Missile & Munitions Center & School at the Redstone Arsenal Airfield. The cargo plane has a unique twin boom tail section

and a pod-like fuselage making it particularly adapted to air the dropping of vehicles and troops. It is to be used to train students of MMCS in ammunition loading techniques.

Air Force Base, San Antonio, Texas, were the pilot Major Troop Carrier Squadron of the 921 Winford H. Kincaid, co-pilot Capt. Troop Carrier Group of the 433 Elliot Kemp and S/Sgt. Paul Troop Carrier Wing based at the plane from Kelly Woodward the flight engineer.

The plane is from the 67th Kelly Air Force Base.

Captain Robert F. Scott and four | 17, 1912. None of Scott's team surmen reached the South Pole Jan. vived the trip back from the pole.

The Redstone Rocket

March 9, 1966 Page 7

FREEMAN

(Continued From Page 1)

Honors will be rendered when the General arrives at the Redstone Air Field at 5 p.m. this afternoon to be greeted by Col. Erwin M. Graham Jr., MMCS Commandant and representatives of other agencies here.

Tonight Gen. Freeman will be honored by Col. Erwin M. Graham Jr., MMC&S commandant, and his staff and facility at a dinner at the Officers Open Mess. Special guests will include U.S. Senator John J. Sparkman whose visit home after the Foreign Relations Committee hearings on Viet Nam coincided with the CONARC commander's schedule; Mayor Glenn H. Hearn of Huntsville and Madison County Commission Chairman James R. Record.

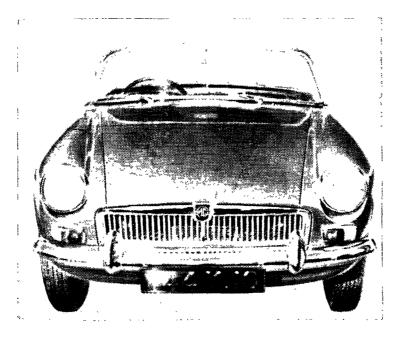
Tomorrow morning Gen. Freeman will attend briefings at AMMC&S headquarters, then visit the Missile Command Dept. which pioneerea common block tronic training techniques now being considered for Army-wide adoption; Sergeant Division of land Combat Missile Dept; meet with Sgt. Major J. C. Meachum and the Sergeants Major of the entire School; a training aids demonstration at the Officers Training Dept.; inspection of Hawk Div. of Air Defense Dept; detailed of the ammunition training facilities established since CONARC last year concentrated all such training here, with special attention to the ammunition renovation line and ammunition records-keeping and field expedients.

At luncheon Gen. Freeman will meet representatives of MMC&S, Army Missile Command and Missile Support Command, Nike X and Sam-D Project Offices, Combat Developments Command Ordnance Office, Army Air Defense Command and Marine Corps Liaison Offices and the British, Canadian, German Army and Air Force, Japanese and Korean Liaison Officers.

Newspaper, television and radio correspondents of the Tennessee Valley area have been invited to meet with Gen. Freeman at the Redstone Air Field for a brief conference just prior to his departure early tomorrow afternoon.

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Chemical Society To Hear Address By Dr. Morgan

Dr. Paul W. Morgan, with the Textile Fibers Department of E. I. DuPont Company, will address the North Alabama American Chemical Society tonight, at 8:00 p.m., on "Condensation Polymers Prepared by Low-Temperature Methods."

The discussion will include a description of typical polymerization methods, examples of different types of condensation polymers prepared at low temperatures, and structure-property relationships in polymers.

Dr. Morgan has over sixty publications and patents on such subjects as polymers with high thermal stability, cellulosic derivatives, plant pigments, photostability of dyes and polymers, and moisture permeability of polymeric films. This outstanding research chemist has written a book on condensation polymers and received the Delaware American Chemical Society Section Award for the best scientific publication for 1959

The talk will be given in the auditorium of the Research Institute of the University of Alabama on Sparkman Drive in Huntsville. American Chemical Society members and interested parties are invited to attend.

Red Cross Staff Says 'Thank You'

The Madison County Chapter of the American Red Cross today issued a statement of gratitude to the residents of Huntsville and Madison County who contributed funds to the Red Cross through their gifts last fall to the United Givers Fund.

The occasion, explained Harold Bee, chapter chairman, is the opening March 1 of Red Cross month, as proclaimed by President Lyndon Johnson.

"Because it is unnecessary for our chapter to conduct a fund raising campaign in March, the Madison County Chapter will devote the month to telling the Red Cross

story," Bee said.
"This will be done with the cooperation of the newspapers, radio and television stations and other public spirited citizens of the Huntsville area."

"We of the Red Cross are most grateful to the people of this community who have generously supported the efforts of our local chapter with their UGF donations and their willingness to serve as volunteers in the many programs of the Red Cross. I am sure those who have benefited from these programs join us in this message of thanks. During the month of March our efforts will be turned toward telling the story of these volunteers and the many progra in which they participate, and of the ways the Red Cross strives to serve the people of this communi-

At The Service Club By Betty Hayes

Would you like to know where to spend your leisure hours this week? Your problem is solved because the Service Club offers a program each night.

Since Wednesday evenings are set aside for film time, Molly has scheduled two colorful and eniovable travelogues for tonight Join us for the showing, which will begin at 7:30 p.m.

Thursday evening small games will be played at 8 p.m. Monopoly, stratego, scrabble, cribbage. tactics, and concentration are only a few games available. Refreshments will be served to those who participate in the games.

What is the contest for this week? The answer is shuffleboard, which begins Friday at 8 p.m. Let's see if you win the prize for this month.

Don't forget coffee hour on Saturday afternoon at 3:30.

Saturday evening a surprise menu will be prepared in the kitchen at 6 p.m. Come early so you won't miss appetizing Irish

Is pinochle your favorite card game? If it is, bring your partner and enter the contest Sunday at 7 p.m.

Once again the evening of games will be played in the main lounge Monday night.

The big event for this week will be the Shamrock Revue at 8 p.m. Tuesday. A variety of delightful entertainment will be in store if you mark your calendar for this

Congratulations to Bing Heethius, 6th ETC, the pool champion for March.

Check the March program to see if you have the lucky service num-

Next week you can look forward to Skullabaloo featuring The Group. More information on this event and other events next week.

See you at the Service Club.

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PVT. ROBERT J. BARREN JR.

Pvt. Barren Earns Soldier Of Month Title For School

Pvt. Robert J. Barren Jr., son of Nike Hipar Acquisition Radar and Maj. (Ret) and Mrs. Robert J. Bar- Radar Simulator Repair Class ren, 7420 N Loop Road, El Paso, Number 129. He is scheduled to Texas, has been selected as Post graduate this September. Soldier of the Month at Redstone Arsenal, Alabama.

Army Missile and Munitions Cen- on his military knowledge, perter and School and is a student in sonal appearance and knowledge basic training at Ft. Polk, La.

Before being selected as the Post Soldier of the Month, Barren Barren is assigned to the 1st had to progress through three Enlisted Training Company, U. S. selection panels. He was judged

G. Maynard Smith **Schedules Talks**

G. Maynard Smith, Atlanta attorney and prominent lecturer in the field of labor relations, will speak to two groups at Redstone Arsenal next week.

On Wednesday morning he will address Col. Thomas W. Cooke Commanding Officer, Army Missile Support Command, and his staff under a program designed to keep managers abreast of the latest developments, trends, and practices in the field of management. His subject will be "Mistakes of Management."

Members and guests of the Huntsville Chapter, Society for personnel Administration will hear Smith on Tuesday evening at the regular dinner meeting of the Society held at the Redstone Arsenal Officers Open Mess.

Smith's law firm specializes in the field of labor relations, representing management exculsively. He was a prosecuting attorney for ten years and a Special Assistant to the United States Attorney General. In 1951, he was appointed as an industry member of the National Wage Stabilization Board.

He was formerly District Governor of Georgia Kiwanis and President of the Atlanta Kiwanis Club. He served in the Navy as Special Assistant to Admiral Louis Denfeld with the rank of commander.

of current events.

Pvt. Barren graduated from Bel Air High School, El Paso, in 1962 and attended Texas Western College for three years. The 21 year old soldier entered the Army in August 1965 and completed



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CHISELER-Army Sgt Charles D. Kirk (Miami, Okla.), assigned to the Airborne Department's Jump Committee at The Infantry School, Fort Benning, Ga, spends free time chiseling a life-size statue of an airborne trooper. The replica will stand 5 feet 11 inches tall when completed and will be placed in McCarthy Hall at Fort Benning's Lawson Airfield.

Professional Engineers **To Meet Tomorrow Night**

The Northeast Chapter of the Alabama Society of Professional Where It Is and Where It Is Go-Engineers will meet tomorrow ing." The General is in charge of

Officers Open Mess.

Brig. Gen. Edmund F. O'Connor, Director of Industrial Operations at the Marshall Space Flight Center, will talk about "Marshall night at 6 p.m. at the Redstone the Saturn programs management.

is rare to find things as they were even a few years ago. This is especially true at the Army Missile & Munitions Center & School where progress is as rapid as the space age itself.

For example, the staff at MMCS has grown from fifteen at its inception in 1952 to the present 1900, and the student output has swelled from five in the first graduating class to nearly 7,000 expected to receive diplomas this

However, several things at MMCS have changed little. Among them are three of the original staff members, the original headquarters building and some cedar trees planted when the Center began operation.

The first commandant of MMCS was Col. Erwin M. Graham, Jr., then a major, who has returned to assume the same job after many years absence. Two of the original secretaries were Mrs. Martha Hobbs, now coordinator for civilian personnel matters in the Office of the Secretary, and Mrs. Jewell Lemley, a librarian in the MMCS Technical Library. Both have served continuously at MMCS since beginning work on March 10, 1952.

The original headquarters building was a converted ammunition structure and was the first property of the Center. The Redstone Arsenal facility now boasts over \$70 million worth of the most modern teaching facilities and equipment to be found on any Army installation. MMCS with its total graduates numbering 39,000 rates as the largest institute of advanced learning in the state of Alabama.

As for the original cedar trees, well they have prospered as has the Center. From the seedlings planted by Mrs. Hobbs and Mrs. Lemley 14 years ago, they have grown to their present gigantic size. Their progress symbolizes that of the Center with prospects for the future brighter than ever.

So while things sometimes change rapidly, a certain stability

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FROM TINY SEEDLINGS—Three of the original staff of the U. S. Army Missile & Munitions Center & School reminisce about the growth of the cedar trees and the Center itself. Col. Erwin M. Graham, Jr., was the first commandant of the \$70 million facility which had its humble beginning in the single building in the background and again holds that post. Mrs. Martha Hobbs, left, and Mrs. Jewell Lemley remember planting the cedar seedlings 14 years ago at the founding of MMCS and have watched them grow to their present size during continuous service.

is evident at MMCS, with its ing missile and munition technolgrowth keeping abreast of soar- ogy.

The Redstone Rocket

March 9, 1966

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Easter . . .

Ensembles To Catch the Eye!

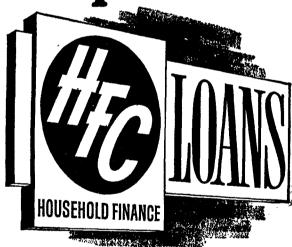
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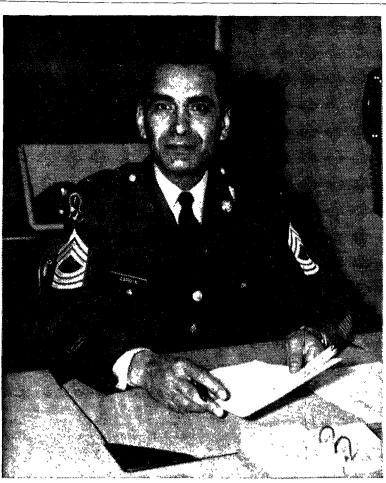
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M/SGT. MONICO GARCIA

Vietnam Veteran Promoted

came home to Redstone Arsenal Garcia joined the Army more than with an Air Medal and a Bronze Star Medal has just been promoted to Master Sergeant E-8.

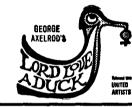
A veteran, from Viet Nam who, native of Roma, Texas, M/Sgt. He is M/Sgt. Monico Garcia, a and Japan with the 24th Infantry

LYRIC THEATRE

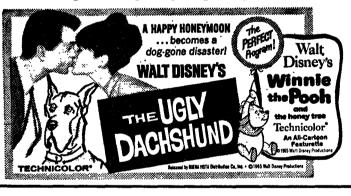
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Reserves Fill Key Positions Energy Conversion

a successful Officer Candidate School graduate were named to key positions at the Army Missile & Munitions Center last week by Col. Erwin M. Graham Jr., com-

Capt. Thomas F. Breen, 26, of Medford, Mass. is Assistant Secretary. A 1961 graduate in physics at Boston College, Breen will aid Lt. Col. L. V. Dowd Jr. in management and supervision of the School's roster of 7,000 students per year and 2,000 military and civilian members of the staff and faculty. Commissioned in the Reserve Officers Training Corps and trained in artillery, married and a veteran of Korean service, Breen resides at 236-B Niblo dr. at Redstone Arsenal. In the Continental Army's school system, his position corresponds to that of Assistant

First Lt. George L. Earle, 26, of Humble, Texas is Assistant Information Officer. In 1964, he was graduated from Texas A & M University at College Station with the degrees of bachelor of science in both journalism and animal husbandry and later was assistant editor of the university's agricultural extension publications department. He is married and resides at 214-F Dyer cir. at the

Division in 1949-50.

Later, he served on Okinawa as a Military Policeman.

From 1955-58 he was with an aviation unit in Germany. His 18 years ago and has seen service most recent overseas station was with the Infantry. He was in Korea Da Nang, Vietnam. He served there for a year as an Aviation Operations Sergeant for the I Corps, and his citations were for his performance in that job.

For the past year he has been in Air Traffic Control at the Redstone Arsenal Airfield. With his promotion, he has been moved into the front office as Operations

He says he has no hobbies, but he takes his sons fishing and feeds the sons sandwiches while they fish. Ricky is 8, Greg, 6, and Vincent is 31/2. The Garcia's oldest daughter bears the feminine form of her father's name, Monica, she is 14; her sister, Lisa, is 41/2.

M/Sgt. Garcia is married to the former Miss Joan Willett, daughter of Mr. and Mrs. C. D. Willett of Owensboro, Ky. His mother, Mrs. Jovita Garcia, is in Roma Texas. His sister, Marcia was a school teacher at Roma until she decided to return to school herself. She is enrolled at Pan American College in Edinburg, Texas.

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sioned in ROTC at College and later qualified as an instructor in the Nike air defense missile system at the School.

Second Lt. Thomas F. McDonald, 24, of Ridgewood, N. J., is Assistant Foreign Liaison Officer. He was graduated in 1964 from the University of Scranton, Pa., with bachelor of science degree in sociology. He volunteered for Army service last year and was awarded his commission at Officer Candidate School at the Infantry Training Center, Fort Benning, Ga. He assists Major R. W. Rhiem in the educational, hospitality and administration program that involves several hundred Allied students and their wives and families at the School. He resides in bachelor officer quarters at Redstone.

et cetera...

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Two young ROTC officers and Arsenal. Earle was also commis- Lecture Scheduled At Institute

Dr. William J. Levedahl, Manager of the Nuclear Research Department at the Martin Marietta Corporation will lecture at the University of Alabama Research Center Tuesday about recent advances in direct energy conversion. He is scheduled to begin at 10 a.m.

He will cover direct conversion of heat into electricity which became practical during the 1960's and is rapidly finding important uses in space, underwater, and remote-terrestrial applications. The implications of recent research in thermoelectrics, thermionics, magnetohydrodynamics, and heat pipes will be discussed as will radioisotope and nuclear-reactor heat sources.

Dr. Levedahl received his B. S. at Massachusetts Institute of Technology in 1948, an M. S. at the University of Maryland in 1952, and Dr. Ing. from the Technische Hochscule Aachen in 1954.

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TECHNICOLOR' PANAVISION' FROM WARNER BROS.



The Army's top missileman, supports advanced technology in Mai. Gen. John G. Zierdt, outlined missile defense research." to Boston businessmen today what the Army wants in missiles, where missile dollars are being spent and recommended ways that industry might share in development

"We want multi-purpose missile systems," the Commanding General of the U.S. Army Missile Command noted, "and we're looking for systems featuring simplicity and low cost."

His remarks were directed to industrial leaders assembled in Boston for the National Security Industry Briefing, the first of five such briefings scheduled during March and April throughout the United States.

Gen. Zierdt praised the audience "for what I think is the most heartening recent development in the missile business—the increased interest on your part in helping us find solutions to our problems."

Then the General discussed Army missile expenditures for FY

67, among them: . . . about \$447 million for continued development of the Nike-X missile defense system; \$70 million to cover contractor and support operations in the Lance ballistic missile; about \$120 million for missile repair parts; \$150-200 million on critical component work and exploratory and advanced development on a new, forward area air defense system; \$50 million which the Missile Command manages for the Advanced Research Projects Agency which

"In addition, we anticipate initiating engineering development on a medium anti-tank assault weapon and on SAM-D, a new mobile air defense system," said Gen. Zierdt.

Although production of several of the Army's major systems is essentially complete, "We have initiated with the prime contractors development programs to upgrade the capabilities of three: Pershing, Sergeant and Hawk," he

To get in on part of the action, Gen. Zierdt advised the industrial

Do work as a subcontractor or supplier to one of the major firms holding one of the Army's prime because "we are reviewing every loadings. one of our missile systems to introduce competition wherever possible"; produce missile repair parts; and develop new hardware for passive homing.

University Announces Full **Schedule For Spring Quarter**

The University of Alabama in ish, and Speech. Huntsville has announced a full schedule for the Spring Quarter.

In the College of Arts and Sciences, there are classes to be taught in art, biology, chemistry, finance, and management. earth science, French, geography, German, mathematics, physics, political science, psychology, Span-

which the Army can use.

The Redstone Rocket

A few advances that the Army seeks and will fund, the General

-An infrared seeker that would lock on target after launch.

- A low cost gyro capable of contractors; establish competition withstanding high acceleration

> -A way to identify targets for out-of-line-of-sight weapons. -Subminiature optical sensors

In the College of Commerce and Business Administration, there are courses in accounting, business law, business statistics, economics,

March 9, 1966 Page 11

Educational psychology is to be taught beginning in the spring in the College of Education. Several other courses in the College of Education began last month and continue through June 1.

The College of Engineering courses include engineering drawing, electrical engineering, general engineering studies, industrial engineering, mechanical engineering, and engineering mechanics.

In addition to the offerings listed above, a large program is offered leading to Master's degrees in dents making application for the mathematics, physics, and engi-spring quarter is March 14, 1966.

Brewer To Be Speaker At **Chemist Meet**

The North Alabama Section of the American Institute of Chemical Engineers will hear Albert Brewer at their meeting Tuesday at the Congress Inn in Decatur.

The regular meeting will be preceded by a tour of Chemstrand Company's acrilan facilities at 4:30 p.m. The Chemists will assemble at the Congress Inn at 6:15 p.m.

Brewer will talk about industrial development in Alabama.

Reservations for tour and meeting are being handled by Mrs. M. H. Larimer, 876-9422. Deadline is Friday.

neering.

Full information about the courses being offered may be obtained upon request to the registrar, University of Alabama in Huntsville. Deadline for new stu-

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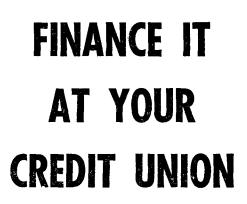
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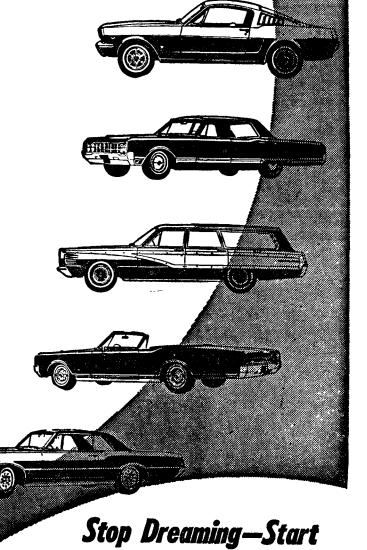
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Offered for the first time on the Huntsville campus, this course will provide credit toward a major or minor in geology or geography any curriculum. The course will standing of the floor of the oceans be designed for students who may be considering careers in earth science, for public school teachers who are teaching earth science, or for government and contractor to study the physiography of the first made-in-U.S.A.-satellite of the personnel who are concerned with nearby Cumberland Plateau and Sun placed in orbit.

Geomorphology deals primarily with the classification and understanding of landforms. It involves a detailed description of the naday, Wednesday, and Friday from tural processes which have acted on the surface of the earth. It enables the student to understand the topography and geology of large areas on the continents and In recent years, geomorphology or as an elective in practically has contributed to a better underand the surface of the moon.

> The course will include both topographic study and interpretation of aerial photographs. In addition, there will be a field trip veral (now Cape Kennedy)

The University of Alabama will earth-orbital scientific applica- Interior Lowlands in Madison County.

Geomorphology will be taught by John R. Rogers of Chrysler Corporation. Rogers formerly was associated with Brown Engineering Co. and Texaco Inc. and holds an M. S. in geology from the University of Illinois.

Students who have not previously attended the University of Alathe relationships between regions. bama who wish to enroll for geomorphology are urged to apply for admission at once at room 108, Morton Hall. Deadline for applications is March 14.

> March 3, 1959 — The Army's Juno II launched from Cape Cana-

Page 12 The Redstone Rocket

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March 9, 1966

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Page 14 The Redstone Rocket

March 9, 1966

1. For Rent

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3. Miscellaneous

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FOR SALE—Large antique, solid rock beaded basket chandelier \$800.00 Antique Chippendale Desk, \$185.00. Both bought from same estate in Washington, D. C. See by appointment only, Phone 534-6139. Its

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Carl A. Pinyerd Named Acting Manager, Pershing

Arsenal missileman for the past weapon system.

He replaces Col. Edwin I. Donley, who now is serving as Deputy Commander for Land Combat Systems at the Army Missile Command. Col. Donley recently was nominated for the rank of Brigadier General.

Pinyerd held engineering and management positions on such rocket and missile projects as Honest John, Ajax, Hercules, Lacrosse and Redstone, after coming to Redstone in 1953. He became Assistant to the Technical

Third Army Has New 10

HEADQUARTERS, THIRD U.S. ARMY, Fort McPherson, Ga., Col. Wesley H. Burr Feb. 28 officially assumed the duties as the Third

U.S. Army Information Officer. He succeeds Col. Daniel E. Halpin, who has been the Third Army IO here since June 1964. Col. Halpin's new assignment is with the Office of the Deputy Chief of Staff, Operations and Training.

Coming to the Information Office is not a new experience for Col. Burr, nor is the information business. He served as the Information Officer at Fort Benning, Ga., in 1951.

After serving a tour of duty in Heidelberg, Germany, with Hq, USAREUR, as Deputy Information Officer, Col. Burr was assigned here as the Executive Officer of the Information Office.

He served in that position until Jan. 1962 when he was assigned as Secretary General Staff, Third U.S. Army. His duties as SGS terminated in Jan. 1965 when he was promoted to his present grade and was consequently made Chief, Personnel Services Division, Deputy Chief of Staff, Personnel.

In August 1965 he was appointed as Chief, Field Inspection Section, General Inspections Branch, Inspector General Officer, Third U.S. Army, where he served until his newest assignment.

Col. and Mrs. Burr, the former Alice King, live at Qtrs. 533, Apt. B, Fort McPherson. They have four children, Roger 25, Mardeene 23, Penelope 18 and Janice 12.

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Carl A. Pinyerd, Jr., a Redstone Director of the old Army Ballistic Missile Agency in 1956 and 13 years, has been named Acting later was assigned responsibility Project Manager of the Pershing for management of feasibility and component development studies which ultimately provided the basis for the Pershing propulsion and control systems. He took over direction of the research and development phase of the Pershing Project in 1960 and was advanced to Deputy Project Manager in

> He is a native of suburban Chicago and attended high school in Harvey, Ill., before entering the Army in World War II. He graduated from Auburn University in 1951 with a bachelor's degree in Industrial Management. He also has studied at the University of Illinois and University of

In 1964, Pinyerd was presented the annual Holger N. Toftoy Award by the Alabama Section of the American Institute of Aero- sons and a daughter.

The Redstone Rocket

Manufacturing Course Offered At University

The University of Alabama at to be taken. Huntsville is offering a short course on materials and processes of manufacture March 21-25 at the Research Institute.

Students will gain a basic knowledge of the important areas of fessor of industrial engineering at production processes that deal with metal and plastics and will be able to understand some of the basic principles and theory as well as the practical applications. Instruction will include wherever feasible the advantages and disadvantages of different processes and will cover some of the practical problems and the precautions

nautics and Astronautics for "Outstanding Technical Management of the Pershing Project."

He is married and has three

— March 9, 1966

The course will be taught by Dr. Robert E. Shannon, associate professor of industrial engineering at the University of Alabama and Dr. Jack R. Walker, assistant pro-

specific

Classes will be open to only 40 students and will be held from 8:30 a.m. until 5 p.m. each day. The coordinator of conference

Page 15 Georgia Institute of Technology.

activities, University of Alabama, P. O. Box 860, Huntsville has the details regarding this

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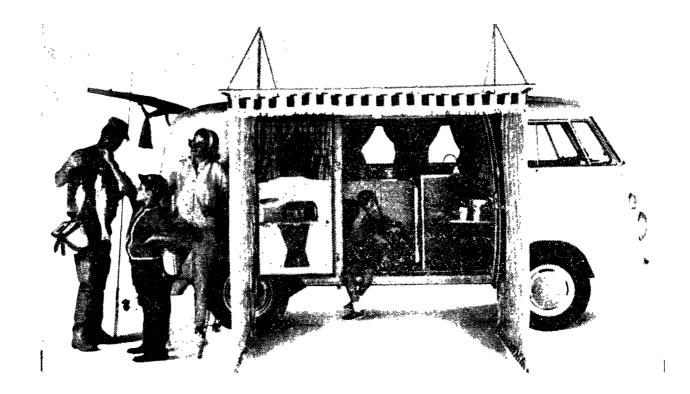


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GS-1085-13 GOT (Anthropology) GS-2010-12
Inventory Management Specialist,
GS-2010-12
Inventory Management Specialist
GS-2010-12
Inventory Management Spec (Elec),
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Inventory Management Spec (Maddington) Inventory Management Spec (Med), GS-2010-11 Inventory Mgmt Spec (Subsistence), GS-2010-11 GS-2010-11 Hoventory Mgmt Spec (Stock Control), GS-2010-9 GProperty Acct)
Laundry & DC Plant Supt, GS-1653-10 AManagement Analyst, GS-343-11 KManagement Analyst, GS-343-11 KManagement Analyst, GS-343-7 KMechanical Engineer (Gen), GS-830-13 AManagement Analyst, GS-341-7 KMechanical Engineer (Gen), GS-830-12 GMechanical Engineer (Gen), GS-830-11 CMechanical Engineer (Util), NM-830-11 CMechanical Engineer (U Nuclear Reactor Power Plant Oper, WB-5401-12

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"Do it now, do it correctly, and follow it through," were the words of advice given 172 graduates of the Army Missile and Munitions Center & School Friday, Mar.

Quoting the words of wisdom was Lt. Col. Marvin H. Snow, Chief of the Military Assistance Program in the Directorate of Supuly and Maintenance of the U.S. Army Missile Command.

Col. Snow, a Viet Nam Veteran is well qualified to administer the advice as he has been connected with the missile systems since 1955. He also deals in his daily

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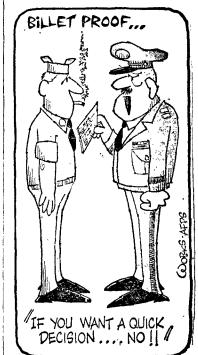
Okinawa

March 9, 1966 GRADUATES HEAR job with intricate matters collect munition Renovation, Pvt. Vernon Lemke.

In speaking to the missile and ammunition graduates he advised them to learn the language of the country to which they are assigned. He explained that a soldier is the best ambassador this country has and he is a better ambassador if he can speak the native tongue of the country.

In jest Col. Snow referred to missile systems as being of the feminine gender. He explained by saying that they can be "contrary" and hard to handle but urged the technicians not to give up in their efforts to maintain the weapons at the highest level.

Honor graduates of the nine classes were: Pvt. Richard Kimmel, in the Nike Launcher Control Repair; SFC Adam Goodman, Jr., Hawk CW Radar Repair; PFC Robert L. Corey, Hawk Internal Guidance and Launcher Electronics Repair; Pvt. Charles Larson, in Ammunition Storage class 11; Edward Kerchenski, Ammunition Storage class 12; Pvt. James Bain, Ammunition Records class 8; Pvt. Ronald Reissmann, in Ammunition Records class 9; and in Am-



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