

The Redstone Rocket

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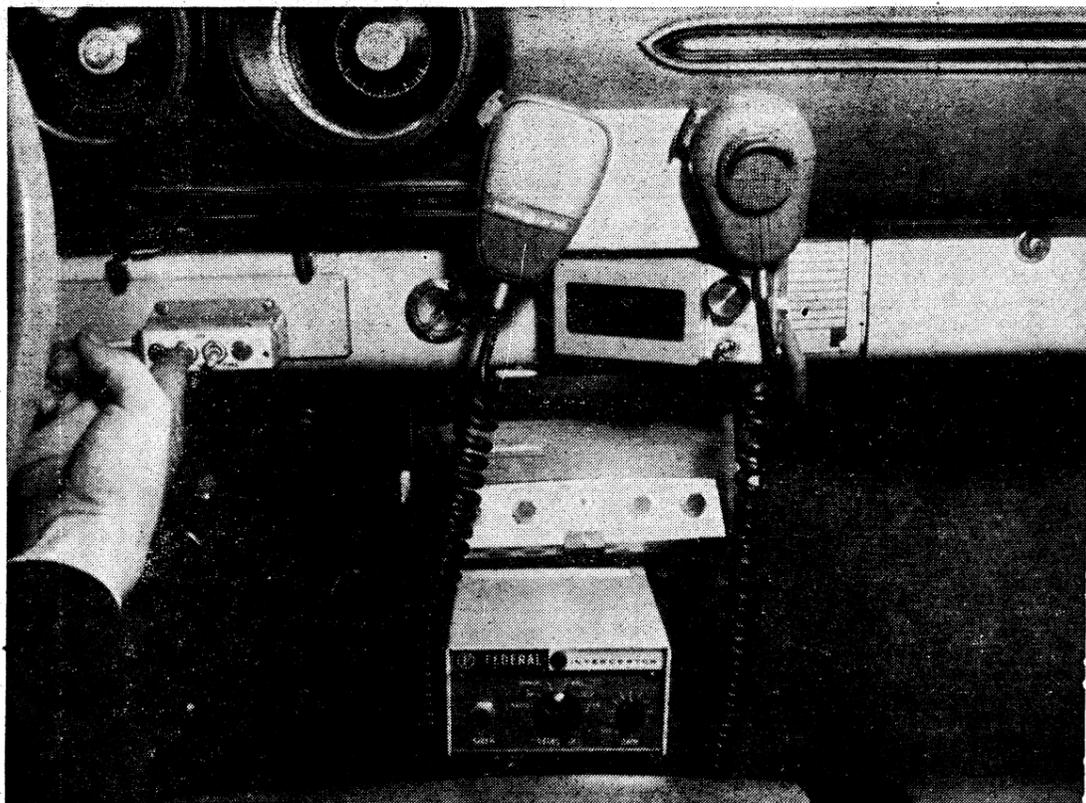
NOVEMBER 27, 1968

Arsenal-Wide

Spot News

Dial 112

MPs GET NEW SPEED CHECK DEVICE



FINGERTIP CONTROL—A toggle switch on the dashboard activates the new electronic device being used by the 291st Military Police to check the speed of motorists on the Arsenal's highways.

VASCAR Sees Backwards, Forward And Side Ways In Clocking Motorists

Traffic controls on Redstone Arsenal will soon be operating with a device based on new use of electronics.

The 291st Military Police Company's traffic control unit is getting ready to put into use a new visual average speed computer and recorder called VASCAR.

Radar units will also continue to be used by the MPs.

Officially, VASCAR use at Redstone Arsenal has not started, but traffic controllers in patrol cars are practicing with the revolutionary electronic speed calculating device. December 1 is the target date to begin operating.

VASCAR enables MPs to clock speeding motorists whether they are coming or going, behind or ahead of the police vehicle, or even on a cross street. The device works whether the patrolling vehicle is parked or moving.

VASCAR operates on the principle that speed equals distance divided by time. With VASCAR, an MP can measure the time it takes a vehicle to cover a certain distance, and from these measurements the device automatically computes the average speed.

Maj. Frank T. Morano, Provost

Marshal, said he has several men going through the rigorous 30-day training program to qualify them to cite traffic regulation violators based on VASCAR speed clocks.

When the training period is completed and tests show the MPs proficient, a manufacturer's representative is scheduled to give the men 25 tests on which they must be accurate within two-tenths of a mile on each. They will then be certified fully qualified.

VASCAR is less evident than radar. Nothing shows on the outside. The computer is under the seat. A simple set of toggle switches on the dashboard lock in time and distance. An offender can actually check the reading himself if he is rash enough to argue with a law officer. Thirty-nine states have distributed these among the State Troopers.

There are two units about to start the patrol of Redstone Ar. (See VASCAR on Page 3)

Missile Command Artists Exhibit Personal And Technical Works Of Art

A unique art exhibit featuring work produced by Army Missile Command artists is being displayed at Birmingham's Oscar Wells Memorial Museum of Art, December 1-27.

All the work displayed was produced by artists working for the Missile Command. Art work to be exhibited was selected from those submitted by artists working throughout the Command.

Exhibits include both on-duty and off-duty work and include missile designs, landscapes, seascapes, still life, and posters.

A variety of mediums were used in the artwork, including pen and

ink, water color, collage, oil, casein, pastel, silk screen, acrylic, wood cut, and tempera.

Artists featured in the exhibit are:

Arsenal Support Operations Directorate: John Norris, Ronald Hertz, Marvin Thomas, Paul Dahl, James Roncker, Leon Hinds, James Kwiatkowski, Sam Wood, Phillip Andrews, John Kubilis, Jr.

Procurement and Production Directorate: William Marty, Nancy Birdwell, Randall Gilbert, Bill Sonderstrom, Carroll Bowman, Ira Humphrey, Adelio Lopes.

(See ARTISTS on Page 3)

Garrard Dies In Accident At Redstone

Funeral services for Phillip Hugh Garrard, an Army Missile Command engineer, were held Sunday at Spry Funeral Home in Huntsville.

Burial followed in Crestview Cemetery in Gadsden.

Garrard was fatally injured last Thursday night in a traffic accident on Redstone Arsenal. He was 31.

According to Military Police, Garrard's small sports car and a second vehicle carrying four soldiers collided head-on at the intersection of Patton and Neal Road. All the soldiers were injured but none fatally.

At the time of his death, Garrard (See GARRARD on Page 3)

Procurement Fair Set In December

A day-long Procurement Fair is being planned by the Army Missile Command Procurement and Production Directorate for Dec. 11 at Redstone Arsenal. The event starts at 8:30 a.m. in Bldg. 4488, the site of previous Fairs.

Announcements have been mailed to industrialists who are prospective suppliers of missile repair parts.

The Fairs permit contractors to examine current procurement needs and discuss them with Missile Command officials who will be present to offer assistance.

Thanksgiving Message 1968

On this of all days, each of us has some reason to set aside a few moments for a personal thanksgiving. Let us join in giving special thanks for the United States of America and the rights, privileges and blessings that we share as citizens of our great country.

CHARLES W. EIFLER
Major General, USA
Commanding

Seven Receive AUSA Award At Graduation Ceremonies

Academic laurels were the order of the day at Redstone Arsenal's Army Missile and Munitions Center and School as seven graduating students received awards from the Association of the U. S. Army for averages that bettered 96.0.

Top graduate was Lt. Col. Vincent DeFatta of Dallas, Tex., who led his ammunition and missile maintenance officer class and all 132 graduates with an average of 98.0.

Maj. Jimmy Hill of Tyler, Tex., and Maj. George Crowder of Roswell, N.M., also received AUSA awards in that course.

Staff Sgt. Manfred Knueppel and Sgt. Alfred Hagedorn led a seven-man all-German Nike missile radar and computer group, while other AUSA plaques were presented to Pvt. James Felde of Milwaukee and Pvt. William Barger of Richland, Wash., from ammunition storage training.

The AUSA specials were handed out by Donald C. Maliskey representing the Tennessee Valley (See SEVEN on Page 3)



COL. FRANK C. SCHOEN



SOUVENIR FOR IRAN—Maj. Gen. Charles W. Eifler (right), Commanding General of the Army Missile Command, presents to Maj. Gen. Mahmoud Naimi-Rad of Iran a memento during his recent visit to Redstone Arsenal. While here, Gen. Naimi-Rad and his party toured facilities and were briefed on Army activities.

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., 35809 Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

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Rocket Ruminations

The worst men often give the best advice.
Philip James Bailey

Let Us Give Thanks

Tomorrow is a National Holiday set aside as a special day of thanksgiving. Let us remember to give thanks for the good things which we as individuals and our country as a nation have enjoyed during the past year.

At times it may seem that it hasn't been such a good year. Americans are giving their lives daily for their country on a foreign battlefield. Some of our cities and towns are experiencing civil disturbances. Two national leaders were the victims of assassin's bullets. We have just been through a national election during which vindictives were voiced by disagreeing factions. Hunger persists in a land of plenty.

But our forefathers who set the example of joining together to give thanks had similar problems. They paused to take stock of their blessings and weigh them against the fears of dangers ahead. Likewise we should do the same thing, asking for courage and guidance in the wise use of our resources as we solve our individual and national problems.

Let us not forget that our heritage is one which was hard-won, and fought for by our forefathers, and be determined to cherish and preserve it for the generations of Americans to follow us.

ARMY HISTORY CENTER OPENED

CARLISLE BARRACKS, Pa. (ANF) — The U.S. Army Military History Research Collection was officially opened recently with a dedication ceremony at Carlisle Barracks, the home of the Army War College.

The collection is designed to be a center to which any scholar doing research in military history can come to find not only books but original source material as well.

"For this collection to be worthwhile," General Bruce Palmer Jr., U.S. Army vice chief of staff, said at the dedication, "the entire U.S. Army must cooperate." He asked the audience to spread

the word that the collection seeks the donation of personal papers, records, letters, diaries, photographs and other items that provide personal accounts of history at the time it is being made.

"These items not only serve to preserve the legends of the past proud service," General Palmer said, "but will help throw light on the future course of this great Army of the United States."

Anyone wishing to donate material to the collection may write Col. George S. Pappas Jr., director, U.S. Army Military History Research Collection, U.S. Army War College, Carlisle Barracks, Pa. 17013.



DISCUSS MUTUAL ACTIVITIES—Vice Admiral Noel Gayler, Deputy Director, Joint Strategic Target Planning Staff, Offutt Air Force Base, Neb., center, talks with LTC. G. E. Budd, acting chief of the Army Missile Command Missile Intelligence Directorate, and R. A. Clinton of the Directorate during a recent visit to Redstone.

Command Post Fits In Pod

FT. BELVOIR, Va. — An Army "Commanders Pod" inserted into an armored riverboat is being examined by the Army Combat Developments Command, as the latest wrinkle in fighting the Viet Cong in the Mekong Delta.

CDC riverine warfare specialists are examining the 9-by-24-foot portable pod being developed by the US Navy Inshore Warfare Project Office to assure it can adequately accommodate an Army tactical operations center. This is a Battalion Headquarters staff with their radios, maps, and other gear required for an Army commander to direct tactical operations in the inundated areas in the southern end of Vietnam.

The portable headquarters mod-

ule being shown by the Navy to members of the Army is designed to be lowered into the well-deck of an armored troop carrier, a principal craft used in Riverine warfare flotillas. Rather than requiring separate command craft, one of the Navy ATCs containing the Army commander's pod becomes the command control boat.

To prevent the Viet Cong from identifying the command boat and giving it their full sniper and water-mine attention, the Army pod on board will not change the appearance of the boat. While it may look like the other carriers in the Mobile Riverine Force, the

command pod in the hold may house a fully operational Army Brigade headquarters.

"In land combat, the fighting unit has a command vehicle of some sort," explains Maj. Edward H. Redline, Mobility Division of Combat Developments Command. "It may be a van or a hut on a truck. In airmobile operations like the 1st Cavalry's we use a helicopter for a command ship. What the Navy has done is show us a new way to provide the battalion commander with a pop-in command post for waterborne patrols and fights."

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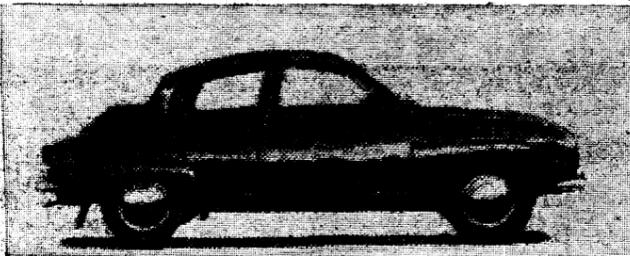
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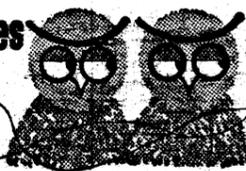


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FLIP OF SWITCH—The new electronic device known as VASCAR can clock any one of the three cars at the intersection, and the operator doesn't have to stop to get a computation, just set the switches for time and distance between visual points to find the average speed.

VASCAR

(Continued From Page 1)

senal and a motorist can't be sure that moving car is not one of the two. He even may be on a side road clocking a speeder . . . or he could just be parked alongside the road. It's a guessing game, but VASCAR does not guess.

GARRARD

(Continued From Page 1)

ard worked in the Test and Reliability Evaluation Laboratory of the Missile Command's Research and Development Directorate.

A graduate of Auburn University, Garrard had worked at the Missile Command as a co-op student prior to receiving his career appointment in government service in 1961.

Survivors are his wife, Mrs. Annette S. Garrard; two sons, Patrick Scott Garrard and Russel Pierce Garrard; his parents, Mr. and Mrs. O. H. Garrard of Gadsden; three sisters, Mrs. John Butler of Gadsden, Mrs. Mae Cline of Huntsville and Miss Gail Garrard of Gadsden; a brother, Bill Garrard of Gadsden; maternal grandmother, Mrs. Stella Scarborough of Albertville; and paternal grandparents, Mr. and Mrs. Pat Garrard of Albertville.

SEVEN

(Continued From Page 1)

Chapter.

Col. Frank C. Schoen of the Army Missile Command's Land Combat Systems office was guest speaker to the graduates of 13 different courses. His audience included officers and enlisted men from the U. S. Army and Marine Corps and the allied forces of Ethiopia, Germany and Tunisia.

Col. Schoen emphasized two major points: (a) It is up to each individual where he proceeds from school, just as it has been "up to you" to use the ability to fulfill course requirements; and (b) to keep in mind the sole reason for future assignment after MMCS is for support of the combat arms.

"Your selection for this school was a major turning point in your life," he told the students. "It has turned you to an area of unlimited potential."

Col. Schoen evaluated some of the personality traits necessary for success—"tried and true old-fashioned American virtues."

He also remarked on the mutual interests of men from different nations and said we must accentuate those rather than the differences.

U.S. Savings Bonds and Freedom Shares—the gifts that keep on giving.

ARTISTS

(Continued From Page 1)

Research and Development Directorate: Don Davis, Bill Higgins. Supply and Maintenance Directorate: Richard Miller.

Sentinel Systems Command: Richard Miller (formerly of the Missile Command).

Meantime, paintings by Phillip Andrews are being shown at the Gadsden Museum of Fine Arts through Dec. 6.

His collection includes a predominance of water colors which Andrews painted in Europe and the United States. Andrews is in Production and Procurement.

Flying Club Buys Plane

The Redstone Flying Club recently acquired a new plane, bringing the club's total to three, according to Capt. Richard C. Cohen, president.

The most recent acquisition is a Cessna 150 two passenger trainer. The other two are a Cessna 195 five passenger plane and an L-17 which carries four passengers.

The airfield headquarters is at Lacey's Spring.

A recent election placed Lt. Larry L. Bartosh in the vice president's chair; Lt. William P. Smith, secretary; and Capt. Martin Roy, councilman. The club, with 21 members to date, has one commercial pilot, four private pilots, and the balance of the membership are student pilots.

Better Visibility Sought, Found In New Optical Unit To Aid Combat Observers

FT. BELVOIR, Va.—Army aerial observers and commanders in Vietnam will soon have in their hands a unique motion-compensating vision device, thanks to the short-cut procedures pressed into action by the US Army Combat Developments Command (CDC).

The problem calling for quick response was not essentially native to Vietnam. Using field glasses while riding over a country road means poor visibility, but it's even worse in a helicopter or fixed wing plane jouncing over the war zone. So the aerial observers and commanders there asked the developments community for help.

The help they sought was for some kind of a motion/stabilization gadget attached to viewing devices that would not only work but could be delivered to Vietnam almost immediately.

On their side were two "management devices" that could be focused on the problem and which Department of the Army asked the US Army Combat Developments Command (CDC) to promptly activate. One was the ENSURE program or Expedited Non-Standard Urgent Requirement for Equipment. The other was the Center Team Concept or pooling of developments talent found at all Army Service School and Branch centers.

The Center Team at the US Army Aviation Center at Ft. Rucker, was called into action.

Three optical motion-compensators/stabilizers were known to officials in Vietnam who requested they be checked out against certain critical criteria. The CDC team promptly got the three candidate systems before the talented Army Aviation Center Team, and in three weeks, compressed the evaluation and recommended immediate procurement.

CDC, which determines the Ar-

my's combat needs from the user's viewpoint even surfaced a windfall during its expedited evaluation of observer aids. The approximately 10-inch and four-pound electricaly-powered device selected also has a zoom capability like the TV camera covering a football game, which can pick out the quarterback's hands. Thus, the optical device can give the Vietnam observer a steady view of a village then zoom in on the door or window of a single hut.

Other elements of the Center team attacking the Vietnam observer's jouncy-vision problem were the Aviation Center, Aviation School, Test Board, Board for Aviation Accident Research, Human Research Office and the Army Aeromedical Research Unit.

BROCKMAN IN OKINAWA

Leonard M. Brockman is the Executive Secretary for the Joint Services Labor Committee, Office of the Representative of the Commander-in-Chief Pacific, Ryukyu Islands. He arrived on Okinawa on October 10, 1968 to assume his present duties. Prior to his assignment to Okinawa, he served as Labor Relations Advisor with the U.S. Army Missile Command Civilian Personnel Office.

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DELBERT S. SPEARS

Spears Goes To Vietnam

Another U. S. Army Missile Command civilian employee left last week for a one year assignment in South Vietnam.

Delbert S. Spears will serve as a supervisory classification specialist in the Office of the Civilian Personnel Director, U. S. Army Vietnam. He has been Special Assistant for Equal Opportunity on the staff of Maj. Gen. Charles W. Eifler, Commanding General of the Missile Command.

A native of Kewanee, Ill., Spears has been at Redstone Arsenal since April, 1951. Prior to coming here, he had been a personnel technician at Rock Island Arsenal, Ill.

A World War II veteran, he attended Western State Teachers College, Macomb, Ill., and University of Wisconsin.

SHOPPING TRIP

A Christmas shopping and sight-seeing trip has been planned for Enlisted Men by the Service Club Dec. 7.

The tour will include Decatur and the surrounding area. The trip has been planned for a stop at the Huntsville Jetport on Highway 72 and Christmas shopping at shopping centers in Decatur and Huntsville.

The bus will leave the Service Club Saturday morning at 10 a.m. and return at approximately 4:30 p.m.

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University To Offer Citizenship Course During Winter Term

American Citizenship, a non-credit course for foreign-born adults, will be taught during the winter term at the University of Alabama in Huntsville. This course, offered once a year, is designed to help prepare persons who are candidates for U.S. citizenship for the citizenship test administered by the U.S. Department of Justice.

American Citizenship will be held on Tuesdays and Thursdays from 10:10 a.m. to 12:10 p.m. beginning December 3, and will be taught by Dr. Frances Roberts, professor of history and political science. It will include a survey of American history, politics, and a study of governmental functions on the local, state, and national levels.

Materials and tuition fees are paid by the Naturalization Service, U.S. Department of Justice.

Persons who are interested in taking this course should apply as soon as possible to the UAH Office of Student Records, Morton Hall. Application deadline is Wednesday, November 27. For further information write to Office of Student Records, P.O. Box 1247, Huntsville 35807, or telephone 837-4700, extension 266.

New Arrivals

PFC and Mrs. Jeffery W. Coats, daughter, Michele Lorraine, Nov. 15.

CPL and Mrs. Will Hines, son, Will Bryant, Nov. 15.

SP5 and Mrs. Bruce Miller, daughter, Laura Jane, Nov. 15.

MSG (Ret) and Mrs. Richard L. Kilpatrick, son, Colin Robert, Nov. 17.

SP8 and Mrs. John F. Miller, daughter, Jeanette Ann, Nov. 19.

CPT and Mrs. Bobby R. Ward, daughter, Nov. 19.

Theatre Schedule

WEDNESDAY, November 27 — "The Angry Breed" (M)

THURSDAY-FRIDAY, November 28-29 — "The Ambushers" (M)

SATURDAY, November 30 — "The Private Navy of Sgt. O'Farrell" (G)

SUNDAY-MONDAY, Dec. 1-2 — "The Impossible Years" (G)

INCREASED ADMISSION: adults 50c, children 25c

TUESDAY, Dec. 3 — "Elvira Madigan" (M)

Two shows nightly at 6:00 and 8:30 p.m. Sunday Matinee at 2:00 p.m.

Try A Wantad



WIVES MEET MAYOR—The wives of German officers from the Missile and Munitions Center and School are greeted by Huntsville's Mayor Joe Davis. Mrs. Harriet Leach of the Huntsville Council for International Visitors introduced the German ladies to Mayor Davis who presented them each with an Honorary Citizenship of Huntsville. From left to right: Mrs. Heide Bachmann; Mrs. Brigitte Elter; Mrs. Ingrid Goettling; Mrs. Renate Hertsch; Mrs. Irmgard Huebschmann; Mrs. Helga Kaiser; Mrs. Edeltraud Kobert; Mrs. Rotraud Ludwig; Mayor Davis; Mrs. Ingeborg Schultz; Mrs. Antje Siebrecht; Mr. A. E. Terry and Mrs. H. W. Tesch.



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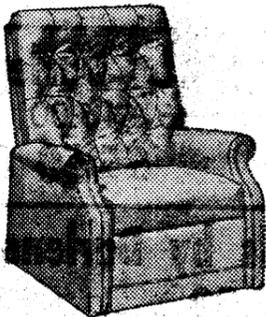
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POLISH THOSE EAGLES—Col. Edwin A. Rudd checks the results as his wife and daughter, Martha, polish the new insignia of rank which had just been pinned on. Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command, did the honors in promoting his Pershing Project Manager during a ceremony attended by a number of his fellow-workers.

Army Judges To Learn 'Who Serves Best Chow'

HEADQUARTERS, THIRD U. S. ARMY, Fort McPherson, Ga. — Soldiers dining in the Third U. S. Army's mess halls may notice a little extra effort being put into the preparation of those gastronomic delights known as "good Army chow" during the coming weeks.

From Nov. 20 through Dec. 15, mess sergeants throughout the seven Southeastern states will be competing for the Philip A. Connelly Award for Excellence in Army Food Service. Sponsored by the Food Service Executives Association, the award is named for a former international president of the association.

Under the provisions of the award program, each major installation in Third Army will select and nominate its best single-unit mess hall and its best consolidated mess, which is a dining facility serving the men of more than one company. Starting with Redstone Arsenal, Ala., on Nov. 20, Lieutenant Colonel L. M. Hining, Third Army food service adviser, will visit each post and select a Third Army finalist in each category.

Selection will be based on the

quality of the food served, efficiency of preparation, and other technical considerations.

The best single-unit and consolidated messes in Third Army will be compared with nominees from the other four continental Armies, and the two judged best in the nation will then compete against messing facilities in Europe, Alaska, the Pacific, and U. S. Army Forces Southern Command. Units based in Vietnam will nominate mess halls in a special category—Best Combat Area Mess.

Final selections will be made during April and May, 1969; announcement of winners and runners-up is to be made by July 1.

Trophies will be presented to the mess stewards in charge of the winning single-unit and multiple-unit messes at the annual Food Service Executives Association Convention in Baltimore next August. Plaques are to be awarded to runners-up.

The Philip A. Connelly Award represents the first world-wide contest to choose the best Army dining facility since 1962. In recent years, commanders at battalion, division and post level have been conducting "Best Mess" award competitions — now, even fighting units in Vietnam are invited to help settle the question of "who serves the best chow in the Army."

ROAD SIGNS point out possibly dangerous sites to highway travelers around the world—even on rock-strewn Vung Chua Mountain near Qui Nhon. Several units of the U.S. Army's 1st Signal Brigade operate communications facilities on the mountain. Soldiers have placed a road sign near the top to warn of nearby Viet Cong: "Drive Carefully, V.C. Crossing." (ANF)

Federal Surcharge May Mean Higher Payments by Soldiers

WASHINGTON (ANF) — U.S. Army finance officials have pointed out that federal income tax deductions from the monthly paychecks of Army members may not be enough to cover a soldier's total annual federal tax liability.

This situation means, in effect, that a soldier may be faced with a larger than usual federal income tax payment due when he files his 1968 income tax return after the end of this year. It is a result of the new surcharge on in-

dividual federal income taxes.

The U.S. Army Finance Center suggests that Army personnel may wish to increase voluntarily the amount of money withheld monthly for federal taxes. This will decrease the amount they will owe when they file their 1968 tax returns.

To increase the amount of tax withheld during the year, the taxpayer has the option of claiming fewer exemptions or authorizing additional amounts to be deducted from his pay.

The new surcharge is what is commonly called the 10 per cent federal surcharge on individual income taxes. Actually, for most taxpayers the surcharge will amount to 7.5 per cent for 1968, because the tax did not take effect until April 1. In the lower brackets, the surcharge ranges from zero to 7.5 per cent.

The additional tax was established by "The Revenue and Expenditure Control Act of 1968." The same law also prescribes new rates of withholding tax and does not permit the employer to exercise any discretion in determining the amount to be withheld.

Finance officials point out two problems with respect to satisfying the income tax liability through the prescribed withholding tax structure:

- The increased withholding rates began July 1, although the surcharge took effect three months earlier.

- The withholding tax tables are constructed so that in the higher income brackets the amount of withholding is not sufficient to satisfy the income tax liability. This problem, which has existed as long as there has been a withholding tax, was further aggravated by the surcharge.

Army Adopts New Helmet For Aviators

U.S. ARMY COMBAT DEVELOPMENTS COMMAND, Ft. Belvoir, Va.—Army Aviators will be wearing a new helmet courtesy of Army's Combat Developments Command. The new helmet, featuring liquid-filled ear cups, will greatly reduce the high sound levels in aircraft operations.

This noise can have serious effects on pilots and crewmen, even causing temporary or permanent hearing loss, it has been reported.

The "brain bucket," as the avia-

tors call the new helmet, is an example of information exchange. It was adapted from a U.S. Navy model designed for helicopter pilots.

After extensive tests and study by the U.S. Army Aeromedical Research Unit, Fort Rucker, which works closely with CDC's Aviation Agency, Combat Developments Command recommended its adoption for Army use.

Study groups continue to search for still better equipment for the Army of today—of 1975—and even the 1990's. The goal is to improve today's Army while designing tomorrow's.



Thanksgiving Greetings to Our Friends



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Marauders Try To Regain Magic Against First

55th Army Band Performs At Turkey Day Classic

Refusing to quit in the face of overwhelming odds, the Second Battalion Volunteers fought back with a pair of late touchdowns to earn a 28-28 tie with the Missile Command Marauders in a Redstone Arsenal football game last Saturday.

Only their ability to block the extra point try after each of the scores prevented the high-flying Marauders from suffering their second straight upset.

The tie enabled the Third Battalion to deadlock MICOM with four wins and a tie in six games apiece. The Third scored a 26-6 win over the First Battalion on Friday evening.

The Marauders will try to regain their winning stride in a Thanksgiving morning encounter with the First Battalion. Kickoff for the holiday scrap is set for 10 a.m. The Friday evening affair will pit the Unit Training Command (1-4) against the Second Battalion (1-3-2).

When Ray Smith jogged into the end zone from ten yards out midway in the final quarter to give the Marauders a 28-16, it appeared as though the Vols were through.

However, Tom Reavis, the Second quarterback, was not convinced and he took his mates on a 78-yard drive that culminated in the quarterback scoring from the 1 on a fourth down sneak.

After missing the conversion the Volunteers trailed 28-22 with the time rapidly running out.

But with slightly over two minutes left on the clock, the Second took possession of the ball at their own 23, and Reavis went to work again. Two passes to Danny Lundhagen sandwiched around a couple of keeper plays by the quarterback and three charges into the line by Jim Lewis pushed the ball to the MICOM 30 yard line with ten seconds left to play.

Reavis missed connections with his flanker at the goal line but on the next snap Lundhagen outran the Marauder safety and took a perfect pass and fell into the end zone with the tying points. Hard charging Marauder linemen broke through to spoil the extra point try.

Lewis had opened the scoring in the opening quarter when he burst through the line and raced 30 yards for the touchdown. Bob Reese made it 8-0 on a slant over tackle.

MICOM got on the board early in the second period and then added another pair of six pointers before the intermission for a 20-8 lead. Ray Smith got the first from three yards out and Tom Kaminski scored the second on a 2-yard plunge.

Bill Madeya took to the airways for the third score when he connected with Joe Peterson from 28 yards on the last play of the half. Lundhagen circled end from 20

yards away after a scoreless third period to make the score 20-16 but Smith scored on a 10-yard smash over tackle to apparently put the game safely in the MICOM win column.

Chuck Eden went on a couple of land distance jaunts to give the Third Battalion a 14-0 half time lead over the First and the Grizzlies were never able to come back.

Eden scored first on a 60-yard scamper and just minutes later broke loose around end for another 30 yards and six more points.

Al Robinson did the rest of the Buccaneer scoring with a 9-yard smash at the line and a 30 dash in which he broke five tackles.



IN BOWL GAME—Redstone Arsenal will be represented in both halves of the annual Brindlee Mountain football league bowl program at the Morgan City-Union Hill football field on Friday evening. The 100-pound eleven will play the opener followed by the boys in the unlimited division. Both of the Arsenal teams completed the regular season of play without a loss although the 100-pound entry was tied once. The 100-pounders are shown in the above picture with their coaches, Maxie Howell and Jerry Willis, in the rear.

Second Place Scramble Involves Eight Teams

An eight-team internal struggle is rapidly turning the AMC Bowling League race into something more like a cakewalk with the Bombers benefitting handsomely from all the in-fighting.

The front runners have opened up a commanding ten and a half point bulge at the top of the standings with the next eight rivals in almost a dead heat for the runner up position.

The T-Birds are the latest quintet to grab second spot but their lead over the ninth place Lancers is only two and a half points.

The Bombers continued their torrid pace last week in sweeping the Winners out of second as Jerry Keagy rung the Honor Roll gong for the third time this season. The Bomber lead off man closed out his 609 set with a big 233 game.

Mike Cooper continued his heavy blasting with a 567 for the Winners.

The T-Birds made their move by taking three out of four from the Avengers as Howard Roop hit for 562 and Dick Gill turned in 547 including a 236 game.

The Raiders smashed the hopes of another runner up hopeful, the Metro Cals, in quite handsome style as they put together games of 1023, 994 and 1025 for a seasonal high team total of 3042.

Rick Bailey led the raid with 556. Billy Brazelton added a 544

and Jim Goodman came in with 540.

The Bandits and the Voyagers were almost as effective as the Raiders with the former amassing 3020 sticks and the latter five hitting for 3005 with a 1067 game.

Willie Wiggins and Art Wilson turned in 561 and 554 respectively as the Bandits blanked the Tigers. The Voyager win was a team effort when the All-Sports were only able to get a single point despite a 566 by Harold Leahy and a 552 by Ernie McClure.

The Sprinters scored a sweep in a Sentinel duel with the Spartans, the Lancers split with the Rejectors and the Allev Cats ended all even in their duel with the Travellers.

Renegades Stave Off Reba Threat

The Reba Bowling Apparel five must be wondering what it is going to take for them to cut into the lead that the Renegades have built up in the Supply and Maintenance league.

Last week all five of the Reba shooters were on the beam and between them they accounted for a 3042 handicapped pinfall, and a clean sweep win over the Cracker Jacks.

But for all their striking the Rebamen were only able to knock a half point off the Renegade lead when the leaders took three and a half points from the Dragons.

D. B. Smith, protected his league leading average at 190, in leading Reba's to their sweep with a 591. Gary Phillips shot a 568, Tom Lindsay hit for 554, Jack Bailey had a 557 and Billy Tippins turned in a 528. Ed Burg hit for 554 in the losing cause.

The Renegades had a pretty good run of their own with three of their starters over 550. Fred Stewart was the leader with 591. Ray Barter had 573 and George Foster upended 554 maples.

The Chiefs won three out of four from the Bushwhackers and forced a tie for the third spot with their victims. Buck Roberson was the top shooter in the match and his 541 was delivered in the losing attack.

Garland Kinslow shot a 589 to give the Baker Realtors a split with Lily Flagg whose Red Gibson shot a 549, the All-Sports won three from Auto Center as Ray Herlston turned in a 544 and Tad's won a trio from the Chiefs with Al Sarge as the pace setter with 555.

Junior Gridders Crush Union Hill

Mixing a powerful running game with an effective passing attack, the Redstone Arsenal 100-pound entry in the Brindlee Mountain football league ran roughshod over Union Hill for a 58-6 win last Saturday night.

The Arsenal youths dominated play from the opening kickoff to the extent that the Union Hill lads were never able to force a punting situation.

The Redstone field general, Ricky D'Aquila, called a masterful game in keeping the Union Hill defenders off balance. He mixed the slashing runs of Robin Saccuzzo and Kenneth Glenn with his own pinpoint passing in guiding the nine-touchdown assault.

Zachary Golden caught D'Aquila passes for two of the scores and ran for another while Glenn and Saccuzzo scored twice apiece.

Terry O'Connor, Bobby Potts and Mike Johnson led the Redstone charge that consistently opened gaping holes in the Union Hill line while ends Golden and Allan Kminek along with Saccuzzo, who doubled as a linebacker, were the defensive stalwarts.

The Redstone eleven will be in action for the last time on Friday evening when they play in the league's annual bowl game. The game will be played at the Morgan City-Union Hill field.

UNIT LEVEL BASKETBALL

This Week's Schedule Tonite

6:00—6th ETC vs. MICOM
8:00—B Company vs. 291st MP

Thursday

6:00—9th ETC vs. HHC/SOC
8:00—D Company vs. Marines

Friday

6:00—A Company vs. C Company
8:00—5th/7th ETC vs. UTC

Monday, December 2

6:00—1st/4th ETC vs. 200th Ord
8:00—3rd ETC vs. 291st MP

Tuesday, December 3

6:00—522nd Ord vs. MICOM
8:00—8th ETC vs. Marines

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Engineers Capture Second Straight

Four quintets sport perfect records while a like number are still looking for their first win after two weeks of play in the Civilian Welfare Fund basketball league.

Engineering QA made it two in row with a 55-53 win over the Metrology Lab and the G & C Lab squared their slate with a 43-40 win over Supply and Maintenance in games played on Tuesday at the Scruggs Street Community Center. A mix-up in scheduling forced postponement of the Finance and Accounting game with Sentinel.

The Missile Intelligence Direc-

torate and ICO each won for the second time in Friday games played at the Joe Bradley School gym.

MID made the Procurement and Production a loser for the second time with 52-48 win while ICO continued to roll with a 61-38 defeat of Data Processing Office. SAM-D was the other Friday winner with a 52-38 win over the Corps of Engineers.

The Civilian cage circuit is restricted to one night of play this week due to Thanksgiving. The Tuesday games were played as scheduled but the Friday slate is being postponed.

It took a last ditch rally to get the QA team home in front of the Metrology five that had led almost from the start. The Lab team was out front by four, 25-21, at the half and they led by eight two minutes from the end.

Winterburn took scoring honors for QA with 22 points and Wood added 14 more. Bob Price paced Metrology with 18.

Jerry Dooley led a second half attack that boosted G & C to their win over the winless S & M five after the two teams ended the first half all even, 25-25.

Dooley ended the evening with 20 points and his team mate Gil Williams popped in 11 more, Bob Lester and Dave Isbell shared scoring honors for S & M with 14 apiece.

In another closely contested affair, MID choked off a late threat by P & P for their second win in as many starts. The winners had a slim 24-21 lead at half time and extended the margin to 54-37 with three minutes to go.

Al Maddox led the late P & P charge, that fell short by a pair of goals. He took scoring honors for the game with 23 while Bill Pennington paced the winning attack with 18, Powell had 15 and Mel Thomas got 14 more.

SAM-D made it one and one on the season with their win over the Corps of Engineers who were suffering their second straight loss. The Missilemen led by a point at the half way mark, 22-21.

Bill Howard topped the SAM-D scorers with 18 and Jack Bissinger hit for 13 more while Simmons topped the Engineers with 11.

DPO tried slow-down tactics in an effort to stem the high-scoring

ICO attack but to no avail when the alert ICO players consistently intercepted passes and turned them into scores.

The winners moved out ahead early and led 30-15 half way through the game.

Greg Bogue found the range for 22 points while Bob Hubbard collected 11 and Dennis Vaughn hit five fielders in six attempts for 10 points. Billy Largen was the leading DPO scorer with 15.

UNIT LEVEL FLAG FOOTBALL STANDINGS

	W	L
D Company	10	1
1st-4th ETC	9	2
200th Ord	9	2
C Company	8	4
9th ETC	7	4
6th ETC	6	6
SOC/HHC	5	6
8th ETC	5	6
5th-7th ETC	4	7
A Company	4	7
2nd ETC	3	8
3rd ETC	2	10
B Company	1	10

Games Played Last Week

200th Ord-14 — 5th-7th ETC-6
 SOC/HHC-1 — 6th ETC-0
 9th ETC-6 — 8th ETC-0
 D Company-1 — B Company-0
 A Company-13 — C Company-0
 2nd ETC-13 — SOC/HHC-8
 9th ETC-1 — 3rd ETC-0
 8th ETC-1 — 6th ETC-0

Hi-Counts Battle Bombers For Lead

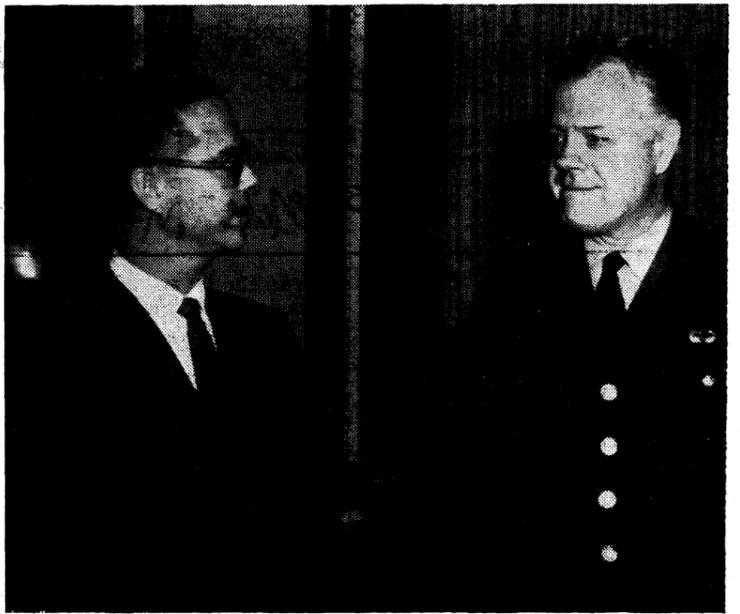
The Hi-Counts will be out to supplant the Bombers at the head of the RSA Officers Mixed League when the two outfits match strikes and spares in the feature duel of the weekly card at the Post Lanes this week.

The Bombers held onto the lead with a 5-4 win over the Pin Drovers while the Counts were winning six out of nine from the Redstones. By gaining a point the challengers moved to within four and a half points of the leaders.

Ed McGowan paced the Bombers to their win with 536 and Lucille Nicholson aided the cause with a 490 count. Jim Ivy shot the top total of the week in the losing cause when he dropped 544 maples and Peg Myers added a 481 count.

Vera Wilkerson topped the Hi Counts with a 502 total while Ralph Nearhoof shot a 514 for the Redstones.

The Boosters got a 523 from Charlie Payne in winning five points from the D-Yanks while the Spurts won six from the Boll Weevils as Bill and Nancy Hollingsworth collected 492 and 491, respectively.



WASHINGTON VISITOR—Brig. Gen. Victor L. Cary, Director of Management Systems and Data Automation at the Army Materiel Command, talks with W. N. Calcote, chief of the Army Missile Command Management Science and Data Systems Office during the General's recent visit to Redstone.

MICOM Defenses Too Much For IBM

An outstanding defensive effort proved decisive last week for the Missile Command girls when they edged the strong IBM team, 45-43, in a Huntsville Industrial League basketball game.

It was the first loss in three games for the usually high scoring IBM six and the second win in three starts for the CWF-sponsored Arsenal girls.

General Electric, the MICOM opponent this week, made it three in a row by overwhelming Space Craft, 85-35, and Lockheed outlasted the Marshall Space Flight Center, 45-38, in other games last week.

Gladys Hill took scoring honors for the winning MICOM girls with 24 points. Barbara Jernigan flip-

ped in 15 more and Wynell Newton completed the MICOM scoring with six.

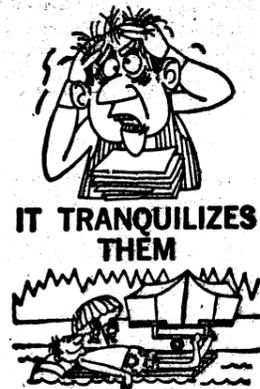
But it was the four-girl defensive corps that spelled the difference with the excellent job in keeping the high scoring tactics of Tiki Harrison and Betty Young under control.

Miss Harrison, the league's leading scorer, hit four set shots early in the game and Young added another pair as IBM jumped off to a quick 12-3 lead.

Coach Sid Douglas changed his game plan from a zone defense to a one-on-one situation at the start of the second period and assigned Gretchen Bigham the task of guarding Harrison.

Bigham won the duel between the two former Prospect, Tenn., high school players the rest of the game while Helen Smith, Carol Collins and Christy Herndon throttled the other IBM shooters.

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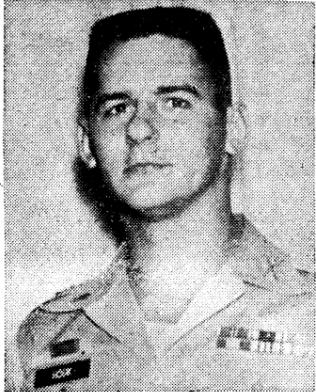
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NAMES IN THE NEWS
 by SP5 *Mike McKenzie*

The Air Medal with first oak leaf cluster was presented last Wednesday to 1st Lt. Peter Hook by the assistant commandant, Col. John R. Henderson. Lt. Hook is commanding officer of Company B in the School Brigade. He earned the second award for "more than 25 aerial missions over hostile territory" in Vietnam during a two-month period last year.



LT. PETER HOOK

At the same awards presentation, four Army Commendation Medals were awarded to student officers. Maj. Henry Englehardt received his ACM with second oak leaf cluster for duty just completed in Germany; he is here for a brief ammunition refresher course before assignment in Vietnam.

The other recipients were Capt. David Reale and 1st Lt. Herbert Guidry, members of the ammunition officer training, and Capt. David Sanderson of the missile and munitions maintenance officer course. All are assigned to Capt. Thomas Sands at Student Officer Company.

MMCS lists six men on the retirement list for November. A ceremony will be held today at 3:30 p.m. in the auditorium of MCOM Headquarters, Bldg. 5250 on Martin Rd.

CWO David Byrd will be discharged with nearly 21 years of

service. He is an administrative technician in Hawk continuous wave radar at the Air Defense Department.

From the same branch, SFC Charles Wilson of Huntsville bows out with just 13 days less than 24 years in the Army. Others in the NCO ranks who are retiring include: Staff Sgt. Otha Dreadin of Century, Fla., instructor in Sergeant Division; SFC Hobart Bowen of Richmond, Va., from Conventional Ammunition Division; SFC Ralph Gilliland of Guntersville, Ala., from Missile Components Dept.; and SFC Ray Lamar of Philadelphia from records branch of the Ammunition Dept. — all with 20 years.

Changes of command keep rolling in, this week at Unit Training Command. Maj. Raymond Canant has taken over the 249th Ordnance Detachment from Capt. James Capps, who now becomes executive officer there. Maj. Canant just completed the ammo and missile maintenance officer course and was previously chief of Technical Inspection Branch.

At the 227th Ordnance Detachment, 1st Lt. Arley McCormick steps into command from an X-O slot at the 522nd Ordnance Company to replace Vietnam-bound 1st Lt. Wayne Blackburn.

Several VIP's visited our "campus" in the week past, including a general from Spain and a lieutenant colonel from the U.S. Air Force.

Brig. Gen. Federico Esteban and a party of four from the Spanish Army Central General Staff viewed the facilities Monday as part of a seven-stop orientation tour of American military training centers. Gen. Esteban is deputy chief of the General Directorate of Organization and Field Forces.

With him were Col. Jose Alvarez-Arenas, Lt. Col. Luis Carreras, Lt. Col. Jose Bonal, and Lt. Col. Perez Ramirez de Haro. Included in their activities here were brief-



SPANISH VISITOR—Brig. Gen. Federico Esteban Ascension of the Spanish Army meets Vaughn E. Davison, senior educational advisor of the Army Missile and Munitions Center and School. Gen. Esteban was here Monday to meet the 35-man Spanish contingent at MMCS and tour the facilities of the center and school. He is the deputy chief of the general directorate of organization and field forces of the Army Central General Staff.

ings on the Hawk and Shillelagh missile systems. While here they visited with the large group of interpreters and students from the Spanish Army who recently arrived at MMCS for missile training.

Air Force Lt. Col. Howard Hit-chens paid a call last week for the Department of Defense to gather and evaluate training techniques for comparison with those of other armed forces.

He received complete training demonstrations in every phase of the school, including television applications, training aids, electronic devices, maintenance and troubleshooting procedures.

OTHER NAMES IN THE NEWS:
 Promotions — Maj. Paul Rutledge, Jr., executive officer of EOD Training Detachment No. 1 at Indian Head, Md. . . . Maj. Perry C. Butler, chief of Artillery Weapons Branch . . . 1st Lt. Robert Lynas, instructor in Missile Division . . . 1st Lt. Donald Southard, instructor in Munitions Division . . . Master Sgts. Henry Davis and Hubert Parnell of Tech Inspection Branch . . . Master Sgt. Clarence Hemminger from Plans Division . . . Re-enlistments — SFC Charles Rideout, Nike Missile Branch, and Staff Sgt. Earl Dix, Hawk Division, from Company C . . . SFC Francis Kirkpatrick, Ammunition Division, from Company B . . . A certificate of achievement was presented in Directorate of Logistics to Master Sgt. James Akin, the NCOIC of Television Dept. who is going to Vietnam to replace the man whose job he took here, Master Sgt. Traver Pinkstaff . . . And another unusual twist, Maj. William Smart, registrar of the Redstone Hospital, was recently promoted by his commanding officer, Col. E. M. Bralley, Jr., who also happened to be the man to promote him to captain in Germany when they served together several assignments back.

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BRONZE STAR WINNER—Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command, presents to Maj. William Huskinson, Jr., the Bronze Star Medal in a recent ceremony at Redstone Arsenal. Maj. Huskinson was cited for "... meritorious service in connection with military operations against a hostile force in Vietnam."

Gen. Guthrie Takes Over Development, Engineering At Army Materiel Command

Brig. Gen. John R. Guthrie last week was named Army Materiel Command's (AMC) Deputy Director of Development and Engineering by AMC commander Gen. Frank S. Besson, Jr.

In his new position as successor to Brig. Gen. G. Sammet, Jr., he will head up the Operations Directorate in the offices of Development and Engineering.

A 1938 graduate of Princeton University and the National War College in 1961, General Guthrie is a veteran of both World War II and Korea.

He served overseas during WW-II with the Joint Intelligence Center, Pacific Ocean Areas and as Special Security Representative to the Supreme Commander, Allied Forces, Japan.

During the Korean War, he fought as a battery commander and later as S-3, 3rd Infantry Division

Artillery. He participated in operations against guerrillas in the Wonsan area, the evacuation from Hungnam, the reoccupation of Seoul and the spring Chinese offensive and United Nations counter-offensive operations.

Gen. Guthrie's other key assignments include: member of the Staff and Faculty, Combat Developments Department, the Artillery and Guided Missile School; Army staff officer for launching of the U. S. and Free World's first artificial earth satellite—Explorer I; Assistant Executive to the Secretary of the Army; Staff, Commander-in-Chief, Pacific, as Ground Operations Officer, J-3; and Chief of Staff, 25th Infantry Division, Hawaii.

Prior to being assigned to AMC he was Assistant Division Commander of the 2nd Infantry Division

in Korea.

Gen. Guthrie is married to the former Rebecca Jeffers of Key West Fla. They have six children: four sons, Michael Reiley, John Jeffers, Peter Blair, Kevin McCammon; and two daughters, Rebecca Claire and Margaret. General and Mrs. Guthrie's official home address is 324 South Main Street, Phillipsburg, N. J.

BAKE SALE

The Ladies Auxiliary of the Greek Orthodox Church of Huntsville will have its annual Greek pastry sale at Dunnivant's Mall Saturday between 10 a.m. and 5 p.m.

Further information can be obtained by calling 859-3596 or 536-4339.

THE POINTMAN was being pelted by rain as he moved ahead of his unit through the Ashau Valley. But suddenly he was thinking about winter back in Wyoming. The jungle had become a mass of soggy vegetation and mud during the continuous rain, creating a problem for troopers from D Company, 2d Battalion, 327th Infantry, 101st Airborne Division (Airmobile). A steep, muddy slope blocked the shortest route to the jungle

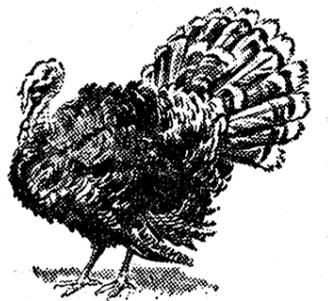
site where the soldiers were going to cut out a helicopter landing zone. The pointman, Pfc James Pollard, Kemmerer, Wyo., had the answer. With grinning smiles of approval from his fellow soldiers, he slid down the hill on the seat of his pants. "It wasn't quite the way some of us used to go sleigh riding back home," he said, "but it did turn a hard job into some fun." (ANF)

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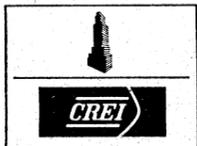
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Materiel Command Streamlines Laboratories

Army Materiel Command has taken another giant stride toward total centralization of its research laboratories. In yet one more move to streamline its laboratory facilities, AMC has consolidated the Ballistics Research Laboratories (BRL), Human Engineering Laboratories (HEL), Coating and Chemical Laboratory (CCL), and Nuclear Defense Laboratory (NDL), into a center.

Named the Aberdeen Research and Development Center (ARDC), because of the close proximity of each of the laboratories to Aberdeen Proving Ground, Md., the centralization is part of a Department of Defense approved, long-range, 10-year plan for AMC facilities.

The action reduces the number of AMC central, in-house laboratories/centers from nine to six.

Ballistics Research, Human Engineering, and Coating and Chemical are physically located at Aberdeen, Md. The Nuclear Defense Laboratory is located at nearby Edgewood Arsenal.

The new center also will house

a fifth laboratory—the Army Materiel Systems Analysis Agency. AMSAA, which will plan and conduct broad programs of materiel oriented systems analyses, is a new laboratory that replaced the Weapons Systems Agency of BRL.

Under the Aberdeen Research and Development Center, all five of the laboratories now will have:

- A better administrative program.
- Use of the model shops.
- Use of the machine shops.
- Use of the calibration shop.
- Use of the computing laboratory.

The individual missions of each of the old laboratories will not change.

BRL will still be responsible for conducting basic and applied research in weapons technology, ballistics, and weapon systems evaluation.

HEL will continue to perform basic and applied research in the life sciences regarding human factors capabilities and limitations, and human factors engineering ap-

plications in relation to Army materiel.

NDL still will research nuclear weapons effects in areas of radiation, fallout, shielding and thermal radiation, health physics, and radioactive waste disposal.

CCL will continue to perform basic and applied research on automotive chemicals, coatings, cleaners, fuels, lubricants, and related materials.

Consolidation of the laboratories into a center is the third such change in designation of AMC research facilities this year.

Only last July, the Army Materials Research Agency at Watertown, Mass., underwent a name change to Army Materials and Mechanics Research Center, because of the expanded mission in the mechanics area and the co-location of almost all of AMC's materials research efforts.

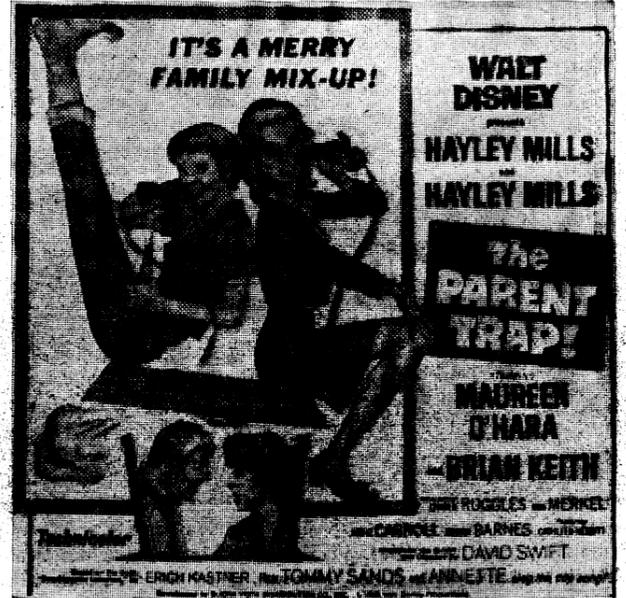
Also, the Cold Regions Research and Engineering Laboratory, Hanover, N. H., was redesignated Terrestrial Sciences Center last July.

Commanding officer of the new center at Aberdeen is Col. John C. Raen, Jr., former commander of BRL, HEL, and CCL. Under the reorganization, each of the five laboratories will have a technical director reporting directly to the center commander.

The redesignation and reorganization of the five laboratories will not have any reduction-in-force effects at the new center.

MADISON THEATRE

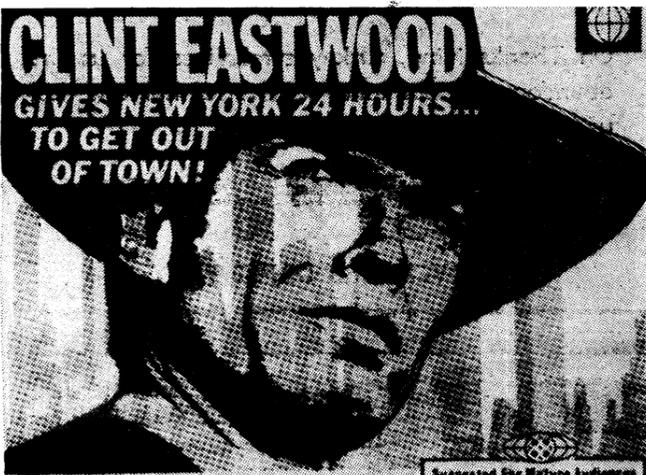
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Army Seeks Drill Sergeants

WASHINGTON (ANF) — More volunteers are needed for the U.S. Army drill sergeant program.

On Aug. 24, 1968, the Army was short 3,393 drill sergeants, about 38 per cent of the total authorized. This shortage has placed a greater workload on those currently filling these slots.

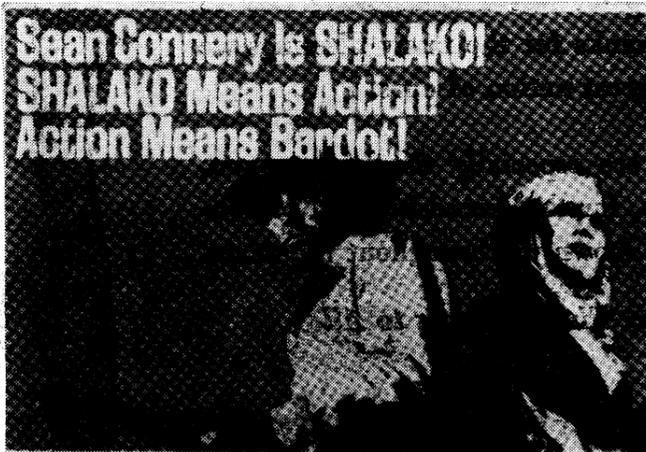
The Department of the Army has pointed out that drill sergeants receive extra uniforms, free laundry for fatigues and an 18-month stabilized tour if assigned to a Basic Combat Training unit.

Drill sergeants may also be promoted up to the grade E-6, within DA promotion quotas but without regard to time in grade or service, for outstanding performance of duty or for being top graduate at Drill Sergeant Schools. Details are listed in AR 614-2004.

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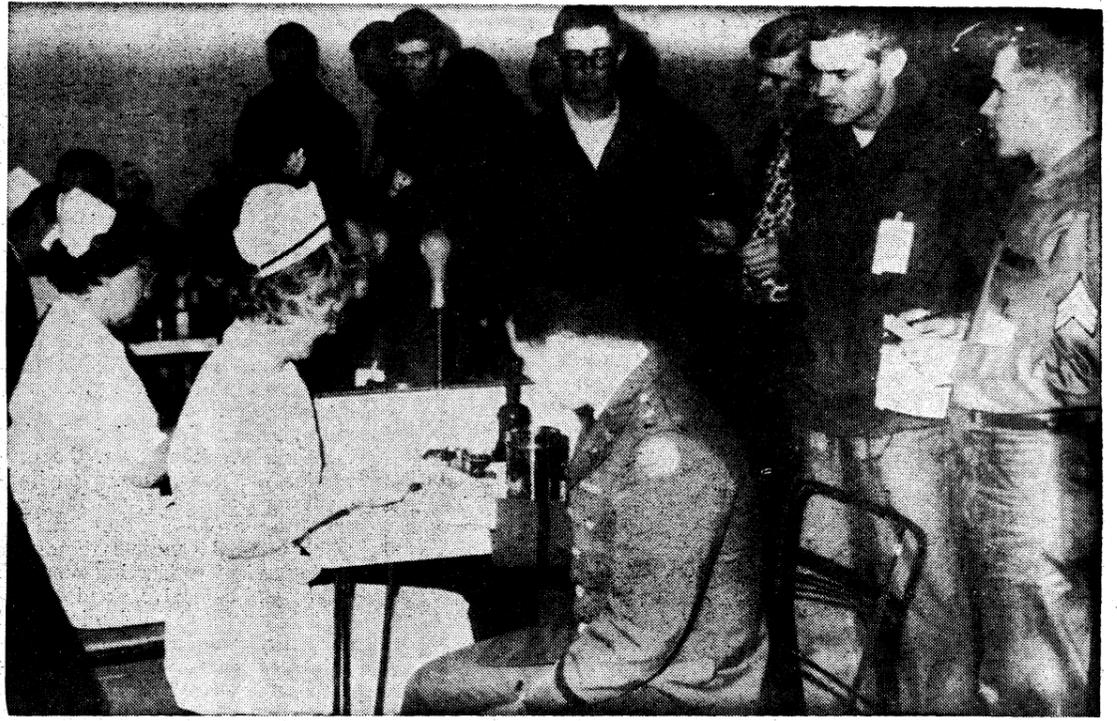
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DONATE FREELY—Members of the 7th Enlisted Training Company in the Missile and Munitions Center and School distinguished themselves last month with the highest percentage of personnel to ever donate blood to the Red Cross from the School. Some of the company are shown here at a recent Bloodmobile visit. In the top photo (left), outgoing commander 1st Lt. David Morgan gets typed, while below Sgt. Donald Dunlap has his blood pressure read and Pvt. John Dotson raises his feet to prepare for withdrawal of a pint.



Battle casualties are flown by helicopter to the U. S. Naval Support Activity Station Hospital in Da Nang and are on the operating table an average of 60 minutes after being wounded in the field. Casualties come to the hospital from all parts of the I Corps Tactical Zone, including areas along the DMZ.

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Sentinel Civilians Accrue Sick Leave

In recent ceremonies 123 Sentinel System Command civilian employees received certificates of achievement for the conservation of annual sick leave. An enviable record was established as the 123 were recognized for having accrued more than 1,000,000 hours of sick leave. Certificates were awarded in three categories — more than 500 hours, more than 1000 hours, and more than 1500 hours of unused sick leave.

Thirteen individuals received 1500-hour certificates. They were: Walter C. Austin, Michael A. Drexler, Marcelle C. Corlett, Arthur E. Tarwater, Lonnie N. High-

tower, Harold M. Brown, Henry E. Marcus, Virgil R. Calvin, Aaron Rodkin, Andrew E. Likovetz, George W. Webb, Robert W. Eiden, Sr., and Louis V. Bilotta.

Those recognized for having accrued more than 1000 hours were: James E. Hughes, Ben H. Davidson, Francis A. Cason, Jr., Gerald W. Myers, Donald J. Jessick, Albert C. Kloack, Don I. Hervig, William J. Harris, J. T. Walls, Walter B. Heflin, Brouder L. Johnson, Jr., Kem B. Robertson, Theodore R. Peters, George W. Fatherree, E. Ray Jones, Franklin L. Hagin, A. C. Christoffersen, Arthur R. Andrews;

Francis R. Theep, Gene S. Gilbertson, John A. Cox, Ernest E. Allford, Johnnie V. Jordan, Thomas F. Moring, Paul O. Phillips, Jr., Donald E. Dixon, Franklyn G. Broyles, Marvin B. Dinsmore, Stanley

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Light Armor Battalion Troops Test Sheridan

Ft. Belvoir, Va.—Doctrine, techniques and organization for the newly organized Light Armor Battalion and the Sheridan Armored Reconnaissance Airborne Assault Vehicle (M551) smoothly completed the first of three phases of troop testing at Ft. Riley, Kansas, in November.

The Phase I testing, lasting three weeks, focused on the conventional, non-nuclear environment such as that found in Western Europe. Giving the Sheridan and the CDC concepts their fair testing meant conducting repeated offensive, defensive, and retrograde maneuvers in daylight and darkness, evaluating the maintainability of the M551, and collecting data on areas of special interest to testers, developers, and users. Inland water crossings of several hundred meters length were also part of the program for the test unit, the 1st Battalion (Light), 63d Armor of the 24th Infantry Division, with its approximately 50 Sheridan M551's.

The M551, made of new highly protective aluminum armor, has a 4-man crew, is easily air-lifted, and can "swim." It has been hailed as

"the first major vehicle weapons system for use in airborne and vertical envelopment tactics, with armor or infantry units and for assault and anti-tank action."

By December, the two remaining phases of troop tests to judge the compatibility of the M551 with the CDC precepts for its maximum effective employment will be completed. One phase will be a platoon live-fire exercise to test the capabilities of the M551 and platoon firing techniques. The other involves a one company air-transport operation from Ft. Riley to Ft. Stewart, Ga., a distance of about 1200 miles. This latter phase simulates the air deployment of U.S. forces to an underdeveloped environment similar to Southeast Asia.

Army Suggestion Program Saves Half Billion Dollars

During its first 25 years, the Army Suggestion Program has netted more than a half billion dollars in measurable benefits, the Department of the Army has announced in its suggestion program silver anniversary report.

Fiscal Year 1968, the silver anniversary year of the program, was the most successful year of all, the report shows, with net benefits from adopted suggestions totalling more than \$64 million—up more than 50 per cent over FY 67 figures.

In addition to topping a half billion dollars in net benefits, another quarter century milestone was passed in FY 68 when the number of suggestions submitted by military personnel, U. S. citizen employees, and foreign nationals working for the Army exceeded the two million mark.

The report also noted that participation in the program increased 14 per cent over the previous year and that FY 68 measurable benefits from suggestions of military personnel, some \$8 million, was up 155 per cent.

The net measurable benefits were arrived at after deducting from the gross savings the cost of administering the program—about \$35 for each suggestion, whether it is adopted or not—and the value of the cash awards for adopted suggestions. Nearly \$13 million in awards has been paid since the program was started in 1943, including more than \$1,350,000 in FY 68.

benefits of Value Engineering could not be equated to dollar savings alone. He said studies have shown that in the past successful Value Engineering projects have produced "significant improvements in areas such as performance, reliability, producibility and management."

Col. Walters also reminded the conferees that 20 years ago G.E. pioneered the Value Engineering approach in order to "provide only what is needed and at the least overall cost, no less—no more."

General Electric sponsored the workshop for the engineering and support personnel working on the PAR to train them in the principles and techniques of Value Engineering.

Other guest speakers to the conference were: LTC. Donald F. Smith and Salvator Castiglioni, of the Defense Contracts Administration Services Office, Roy H. Beaton, Vice President, G. E. Electronic Systems Division and Tomas I. Paganelli, General Manager, G. E. Heavy Military Electronic Systems.



COL. WALTERS TALKS VE—Col. James W. Walters, Sentinel System Command Chief of Staff, during a recent talk at a Value Engineering conference at General Electric, Syracuse, N.Y. The company is developing the Sentinel Perimeter Acquisition Radar.

Col. Walters Suggests Value Engineers Go To Work On Sentinel PAR

Col. James W. Walters, Chief of Staff of the Sentinel System Command, was the opening speaker at a workshop on Value Engineering held recently at the General Electric Co. in Syracuse, N. Y. Col. Walters asked the workshop attendees for an intensive Value Engineering effort on the Perimeter Acquisition Radar (PAR) which G. E. is developing for

the Sentinel System.

Col. Walters told the conference that since the PAR is a new and unique concept, it offered a "target of opportunity for significant cost savings." He then challenged the conferees to use all of their individual talents in seeking areas where savings could be achieved in manufacturing the PAR.

Col. Walters noted that the full

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HEALTHY GROUP—Five members of the Procurement and Production Directorate's representatives based at the Michigan Army Missile Plant in Warren have saved more than 1500 hours of sick leave. Contract administrators (left to right) are William J. Block, W. A. Williams, Fred B. Hunt, chief of Contract Administration; David M. Myers and Peter Walter.

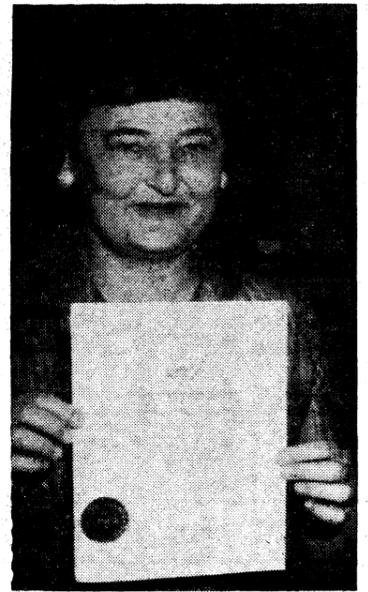
Thiokol Employees Receive Awards

Forty seven employees of Thiokol Chemical Corporation-Huntsville Division joined the ranks of employees with ten years continuous employment with Thiokol at the Huntsville Division's Annual Service Awards Banquet Friday night at the Carriage Inn.

463, or 59%, of the Division's current employees have a record of 10 or more years with Thiokol. 196, or 26%, of the current employees have 15 or more years of consecutive service, and this year, two employees, Robert J. Brooks and A. T. Guzzo, completed their twentieth year with the company.

John H. Goodloe, General Manager, spoke briefly on some of the accomplishments of the Huntsville Division since its establishment in Huntsville and awarded U.S. Savings Bonds to the 53 employees completing ten years employment during 1968.

Thiokol's Huntsville Division was the first private company in the missile industry to locate in Alabama and has established itself as a leader in the development of



EARNs CERTIFICATE—Evelyn E. Ingle, Consolidated Supply Division, holds the certificate she earned by completing correspondence courses in programming and budgeting. The course is provided by the U. S. Army Finance School at Ft. Benjamin Harrison, Ind. The certificate represents 107 hours of home study.

solid propellant motors for the nation's missile and space vehicles.

Army Evaluates New Assault Bridge First Produced To Use In Rice Paddy

Testing of the first production unit of a lightweight assault bridge, carried and launched by the M-113 Armored Personnel Carrier (APC), has been started by the Army Mobility Equipment Research and Development Center, Fort Belvoir, Va., which developed the bridge for use in the rice paddies and swamps of Vietnam.

The unit is the first of 29 production units being fabricated by the Unit Rig and Equipment Company, Tulsa, Okla., under an \$833,000 contract with the R&D Center. Five of the units will be used for research, development and testing while the remaining units will be shipped to Vietnam for field evaluation.

The folding-type, weldable aluminum alloy bridge is capable of supporting 15-ton loads over spans up to 33 feet. It weighs 2700 pounds and can be emplaced where heavier bridge equipment would bog down. The carrier, with bridge, also has the same swim capability of 3.5 mph as an unmodified carrier.

The bridge is carried in a folded position, and can be emplaced hydraulically in less than two minutes without exposure of personnel. After manual hookup of two hydraulic connections, it can be retrieved by reversing the launching procedure. The bridge can be launched or retrieved from either end.

An extruded orthotropic plate deck, rather than the traditional stringer floor beam design, is utilized in the construction of the bridge. This eliminates structural redundancies found in previous bridges and makes the roadway surface the primary load carrying member. The cross-sectional configuration of the bridge is in the form of an open box, with two tapered sections hinged together to form one treadway. Two treadways are joined by bolted cross braces to form the roadway.

A double centered non-eccentric hinger, at the folding point of the two leaves of the bridge, provides a completely flush bottom flange when the bridge is in the open position. The folding mechanism includes a lightweight hydraulic cylinder with major aluminum components. The launching mechanism is a three-link mechanism, also constructed of an aluminum alloy, and pin-connected to the vehicle at six points.

The bridge was designed, and the prototype was fabricated at the Center's metal-working shop, as an "in-house" project.

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Army Expands Service Bar Eligible Wear

WASHINGTON (ANF) — The Department of the Army has expanded criteria for wearing the overseas service bar to include recent tours of Korea.

The small, gold-colored overseas service bar is worn on the right sleeve of the Army Green coat for

specific areas and periods of service in World War II, Korea, Vietnam and the Dominican Republic. Each bar denotes six months of service with the Army.

Credit toward an overseas service bar now is authorized for each month of service in the designated hostile fire area in Korea since April 1, 1968, according to DA Message 882793. Hostile fire pay in Korea is paid to U.S. servicemen on duty along the demilitarized zone.

Previously, the overseas bar for Korean service was authorized only for duty in Korea from June 27, 1950, to July 27, 1954.

The message says that AR 670-5 will be revised to state that both the month of arrival in the hostile fire pay area of Korea and the months of credit toward an area will count as whole months of credit toward a service bar.

The overseas service bar is authorized for duty in Vietnam since July 1, 1958. The DA message adds this statement to the regulation: "Both the month of arrival in Vietnam and the month of departure from Vietnam will count as a whole month for credit toward the overseas service bar."

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Army Will Build Lunar Map Model To Train Future Astronauts To Land

The Army Map Service (AMS) will help the National Aeronautics and Space Agency to make simulated man-landings on the moon. The area on which they "land" will be a simulated surface being built by the AMS from a high-fidelity lunar relief map made from Orbiter IV and V photography provided by the space agency. Technicians in the Relief Model Branch at AMS, an Army Corps of Engineers agency, are building the 22 by 14 foot handcarved model of the landing site which astronaut trainees will see as they "approach" the "target area." The model is a part of a Lunar Module Simulator (LMS) to be installed at the Kennedy Space Center to provide flight crew training and orientation on the Apollo landing site designated as II-P-8. Through the use of the LMS, including the crew station, optics, instructor console, computer com-

plex, closed circuit TV and other equipment, astronauts will experience a lunar landing approach without leaving Florida. An integral part of the system is the Land and Ascent (L&A) section which will be physically separated from the other parts. The L&A will provide the appropriate views of the simulated lunar surface on a TV screen which will simulate the crew station window in the mockup of the space vehicle. The surface model is being constructed in such a way as to provide trainees with a broad range of "approach" in altitude, vehicle attitude and lighting. The surface model will encompass 291 square feet on ten panels, faultlessly joined and rounded off on the west side to represent the horizon. In it is a hypothetical ellipse surrounding the touch down point called a "landing foot-

print." It will cover an area about 4 (nautical) miles by 2 miles with a border of approximately 3 miles at the leading edge on the right, 1/6 mile on the trailing edge, and 1 mile on either side. Almost 500,000 lunar craters, some as small as 5 meters across, will be faithfully shaped into the model. Rocks, rock-strewn field, and all categories of anticipated lunar surface features and characteristics will be shown. Lunar objects down to 50 scale feet will be accurately mapped and smaller ones down to 3 feet will be spotted. To tax the model-makers further, the model must be prepared for precise attachment to a gantry which will suspend it upside down for exposure to the upward-looking TV camera. Its weight must not exceed 1,000 pounds and the epoxy-resin material must be warp- and scorch-proof to withstand the high intensity heat that the illumination system will generate. The specifications for the lunar model were presented to AMS in June and delivery to Cape Kennedy is expected in November 1968.

NASA has called on AMS because of its capability in relief map model making and for its demonstrated resourcefulness in constructing the lunar surface for the U.S. exhibit at EXPO-67. However, this model differs greatly in that the materiel is lighter than that routinely used at AMS and yet it must be capable of extreme rigidity as it hangs in the suspended state. Coloring must be identical to that of the lunar surface as now known to our space scientists. The placement of detail must be comprehensive and exact; and the time frame in which to produce the model, on which so much depends, is austere. The involvement of AMS technicians in the man-on-the-moon



REDSTONE VISITOR—The Parliamentary State Secretary of the Minister of Defense, Federal Republic of Germany, Eduard Adorno, left, and Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command, are shown during an honor ceremony for the visitor upon his arrival at Redstone Arsenal last week. While here, Adorno and his party reviewed various Army activities at the Arsenal.

program is more than a routine assignment. Each one is personally absorbed in the part he is playing in previewing in 1969 what the astronauts will see in the '70's.

Field Tests, Evaluation By Researchers Assure Life Cycle Of Equipment

Ft. Belvoir, Va.—New responsibilities recently given the U. S. Army Combat Developments Command (CDC) now bring the entire life-cycle of every item of Army equipment under the watchful eye of the command's military and civilian experts.

CDC's responsibility for materiel extends from the birth of an idea for an item or system until its removal from the Army inventory. CDC's role formerly terminated when the item went into production. The command now evaluates the hardware in the hands of the user during its entire life-cycle.

This continuous evaluation is performed by CDC's groups and agencies based on Equipment Improvement Recommendations, After-Action Reports of Field Tactical Exercises, Maneuvers, and Actual Combat, and on visits to the Army in the field.

Another recent change gives CDC the approval authority for

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Service Test Plans. During the preparation of a Service Test Plan by Army Materiel Command (AMC) Test and Evaluation Command Board (TECOM), the proponent CDC Agency is consulted to insure that all operational test objectives are included in the test plan.

During the conduct of the Service Test, CDC Agency personnel will either participate or observe. Participation will be such as to give the CDC Project Officer the necessary familiarity with the item being tested to permit his making valid recommendations as to the suitability of the item for Army use.

According to Jack B. Harris of CDC Headquarters Materiel Directorate, "To obtain this familiarity he must drive it, shoot it, handle it, or ride in it to the extent practicable, and without interfering with the conduct of the test by TECOM test personnel. He must not become a test subject or a test officer to the same extent that TECOM personnel are involved."

This provides first-hand information beyond the interpretation of computerized test data. CDC headquarters receives both a Report of Service Test from TECOM and valid, substantive comments, observations, and recommendations from participating Agency project officers.

Recommendations on the suitability of the item for use by the Army in the field are forwarded to AMC and to Department of Army.

These responsibilities give CDC an even greater tie with the soldier in the field to ensure that his hardware meets the highest standards from the moment of issue.

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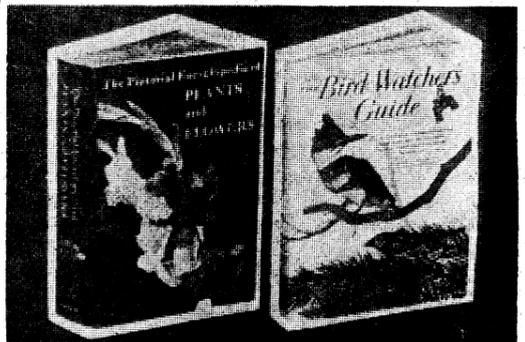
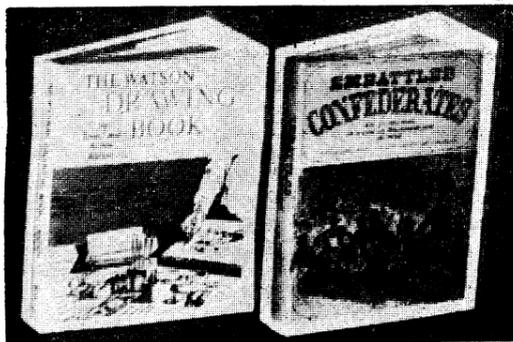
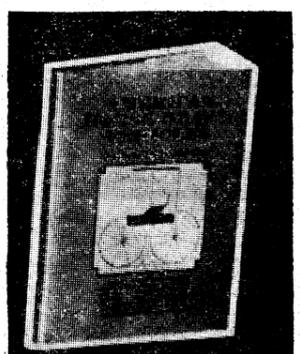
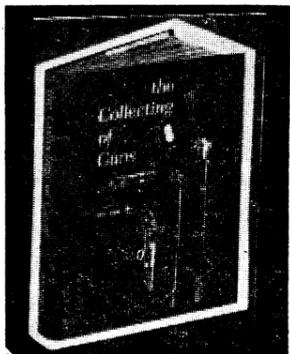
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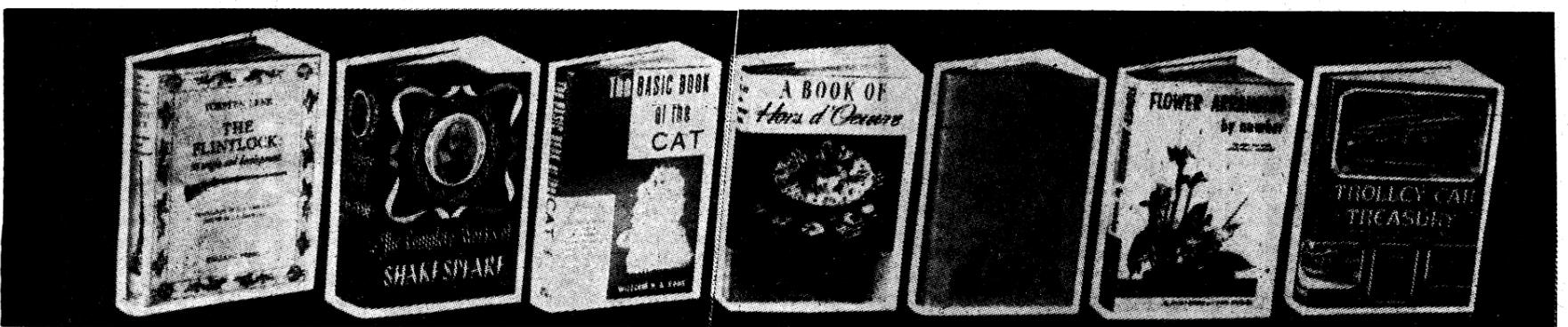
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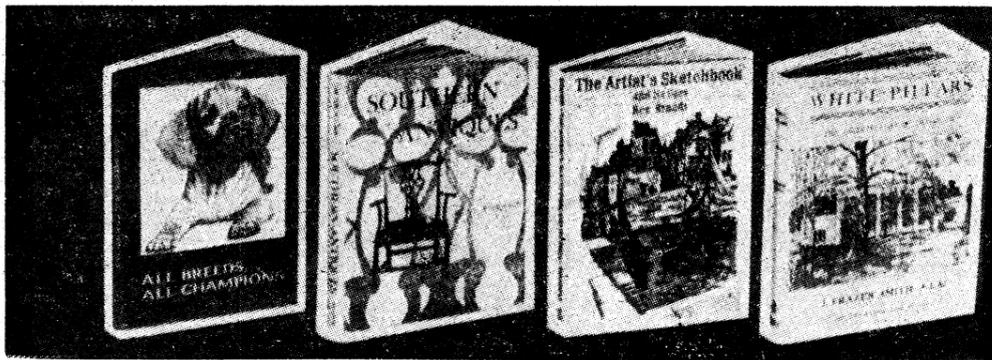
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