

# The Redstone Rocket

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VOL. XVII; NO. 27

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

NOVEMBER 13, 1968

Arsenal-Wide

Spot News

Dial 112

## SHILLELAGH STEALS SHOW



**GOOD SHOOTING, MEN**—Lt. Gen. John Throckmorton (bending) and Maj. Gen. Charles W. Eifler (right) congratulate the firing crew and take a look at equipment after a firing last week at Redstone Arsenal. Minutes earlier, two Shillelagh missiles were fired at the Army Missile Command and scored direct hits. Gen. Throckmorton, who was visiting the Missile Command, is Commanding General of the Third Army. Gen. Eifler is Commanding General of the Missile Command. At left is Lt. Nathaniel Love, Commander of the tank crew from Fort Knox, Ky., which conducted firings.

### Firing Highlights Visit Of Gen. Throckmorton And Dazzles Observers

Military and civilian observers at Redstone Arsenal got a close look Thursday at the accuracy and long-range destructive firepower of the Shillelagh missile.

They saw the Army's new tank killer in action during a demonstration for Lt. Gen. John Throckmorton, Commanding General of the Third Army, who was guest of the Army Missile Command.

It left them oohing and aahing. What they saw was a pair of missile firings. First shot, at a moving target, struck dead center. Seconds later, spectators looking far downrange saw a plywood tar-

get—only a speck in the distance—vanish in a fiery explosion after a direct hit from a high-energy warhead.

Both missiles were fired from the General Sheridan assault vehicle, first armored vehicle to be "mated" with the Shillelagh missile system. The vehicle and missiles came to Redstone from the Anniston Army Depot.

This marked the first time guided Shillelagh rounds were fired at Redstone Arsenal and it was one of the highlights for General Throckmorton who, during the day, was briefed on missile activities at the Missile Command, and saw hardware displays.

Triggerman for the firings was S/Sgt. Andrew Grizzle, husky native of Coeburn, Va., who, prior to the demonstration, expressed confidence in his ability and the weapon system. He had reason for optimism. Since he began firing Shillelagh missiles, Sgt. Grizzle has scored 130 hits in 134 attempts.

He is stationed with the Armor-Engineering Board in Fort Knox, Ky.

Other crew members, also from Fort Knox, were S/5 David Thornton, S/4 Danny Sawyer and Sgt. John Russell. Commanding the crew was 1st Lt. Nathaniel H. Love.

In addition to the General Sheridan vehicle, Shillelagh also is planned as the main armament for the M60 current main battle tank and the United States-Federal Re-

(See 3RD ARMY on Page 3)

### Services, Goods Cost \$22.5 Million

The Army Missile Command spent more than \$22.5 million during the last month for goods and services such as office supplies, equipment repairs, food and laundry needed to support the missile programs.

Out of the total amount, \$1.5 million went to Huntsville companies, and \$810,000 to those in other Alabama cities. The remainder was spread nationwide.

These awards do not include those for \$1 million or more that go to contractors for procurement of missile systems and related equipment.

The Missile Command Procurement and Production Directorate executes these awards and orders.

## Gen. Eifler To Receive Oberth Award At AIAA Annual Banquet Tonight

Maj. Gen. Charles W. Eifler will receive the Herman J. Oberth Award from the Alabama Section of the American Institute of Astronautics and Aeronautics tonight.

The Commanding General of the U.S. Army Missile Command is being honored for his personal contributions to the promotion and advancement of astronautics.

Two other annual awards will also be presented by the chapter at their function tonight at the Redstone Arsenal Officers Open Mess.

Dr. Arthur Rudolph, manager of the Saturn V launch vehicle program at the Marshall Space Flight Center, will receive the Holgar N. Toftoy Award and Robert J. Brazil, the Boeing Company's Huntsville representative for Army activities, will receive the Martin Schilling Award.

Featured speaker at the awards banquet scheduled to begin at 6 p.m. will be Zeno Klinker, a well known humorist. Klinker narrates a film of amusing incidents drawn from aviation history.

Presentation of the Oberth

Award to Gen. Eifler marks the fourth time that the Chapter has honored a soldier. Previous recipients have included Maj. Gen. Holger N. Toftoy, Maj. Gen. John B. Medaris and Maj. Gen. John A. Barclay.

### SAME Members To Hear Talk On Appalachia

Colonel John C. H. Lee, Jr., who has been in charge of U.S. Army Corps of Engineers Appalachia studies since May of 1965, will speak before the Huntsville Post, Society of American Military Engineers, Nov. 21.

SAME meets at the Redstone Officers Open Mess at 6:30 p.m.

Colonel Lee will discuss the Corps of Engineer activities in Appalachia toward meeting regional development objectives through water resources planning.



SP5 ROBERT W. MAYNES

### SP5 Robert Maynes Earns Soldier Of Month Title

For the second consecutive month, Company D of the School Brigade at the Army Missile and Munitions Center and School lays claim to the Post Soldier of the Month.

SP5 Robert W. Maynes was named after the competition last week. Maynes is an instructor on the automatic computerized test set of the Land Combat Support (See SP5 MAYNES on Page 2)

### A MESSAGE FROM GEN. EIFLER

TO ALL MEMBERS OF THE ARMY TEAM:

I wish to extend to each of you my sincere appreciation for your outstanding support to the combined Federal Campaign. We have set a mark in which we can all take pride.

The contributions of Army agencies totalled almost \$350,000.

Performance of that magnitude, exceeding all previous records by almost \$70,000 comes only from a real team effort.

The Army Missile Command, The Army Missile and Munitions Center and School, Rohm & Haas and Thiokol have fully supported CFC in the past and did so again this year. Our record shattering total, however, was assured by the newer Army team members, the Sentinel System Command, the Sentinel Logistics Command, and the Huntsville Division of the Corps of Engineers each recording 100 percent participation.

Equally important, in my view, were the enthusiastic cooperation of the American Federation of Government Employees, Lodge 1858, and the fine work of the campaign officials. We have had other good campaigns, but none to match the organization and effort put forth this year by those who actually ran the campaign.

There are three impressive statistics which pinpoint the real key to success; the generosity of individual donors. Our per capita Army gift rose a remarkable \$4.22 to a record high of \$24.00 and the average individual gift showed an even sharper increase; \$4.54 to a new high of \$23.97. Finally we achieved a 97 percent participation rate.

These figures sharply underline the truly outstanding community spirit of the military and civilian personnel of our Army team.

That is the real test posed by the Combined Federal Campaign. You have proven once again that when others are in need, you are ready and willing to help.

Well done.

CHARLES W. EIFLER  
Major General, USA  
Commanding

# 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.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35840.

## Rocket Ruminations

It's little good you'll do a-watering the last year's crop.  
George Eliot

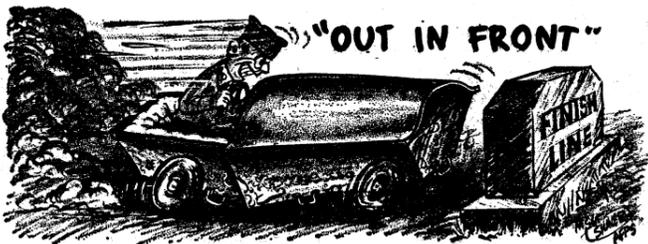
## Maybe, Maybe Not

Judging from all the outward appearances, news reports and statistics available, there are still a great many servicemen and women—too many, in fact—who haven't gotten "the word."

What word? The one on driving safety.

That's right, driving safety. The thing you've been hearing about for years. The thing you've spent hours listening to lectures and seeing films about. Driving safety, the thing that—if you're lucky and it's gotten through to you—has helped keep you alive so you could be griping now about reading another article on it.

Maybe you've gotten the word and do drive defensively and intelligently. There are a lot of people who haven't. They are the ones who are listed as statistics. If they've managed to survive this long, they are probably the ones who are screeching up and down the high-



ways in their souped-up coffins figuring they are "too cool," "too swift" to have anything happen to them.

Maybe it won't happen to them—maybe their indifferent, inconsiderate, dangerous antics behind the wheel of a car will only cause an accident, injuring or killing someone else.

Time will tell—and this is a good time of the year for automobile accidents. There are more hours of darkness; the weather is against you with rain, sleet and snow in many areas; windows are fogged due to temperature differences; people are in a big hurry to get inside, away from the cold or damp.

Into the middle of all this careens Harry Heavyfoot or Bob Blankbrain—unconcerned, unaware and unpredictable. They have watched the safe-driving movies, but they didn't see. They heard the safety lectures, but they didn't listen. They have read the articles, but they didn't comprehend. They are living on borrowed time.

If they're someplace now where they don't have a car, they'd do well to keep the word about safe driving tucked away in their head. It'd be pretty wild to make it all the way through 'Nam and then get zapped on a state-side Interstate.

There's the word—again. See you around—we hope. (AFPS)

## Christmas Leave Policy Explained

U.S. Army personnel undergoing training may be granted Christmas holiday leave in accordance with current regulations.

However, Department of the Army Message 884029 states that Christmas leave will be considered pre-embarkation leave for enlisted personnel who graduate from Army Training Centers and military occupational specialty producing schools from Dec. 20, 1968, through Feb. 7, 1969.

In this case, no further ordinary leave will be granted if the graduate is to be assigned overseas. This restriction does not apply to certain students who have orders specifying delay in route chargeable as leave upon graduating or who are attending school in a temporary duty status. (ANF)

## People In CFC Break Own Record In Four Categories

The 1969 Combined Federal Campaign concluded with a record setting performance by Army agencies in all four major categories, total funds contributed, average gift, per capita gift and participation rate.

In rolling up a total contribution of \$349,582, numerous Army agencies recorded 100 per cent participation rates, among them: The Sentinel System Command, the Sentinel Logistics Command, the Huntsville Division of the Corps of Engineers, the Missile Command's Headquarters, Land Combat Systems, Air Defense Systems and three large directorates: Research and Development, Production and Procurement and Supply and Maintenance. The Missile and Munitions Center and School came very close with 99.7 per cent participation as of the day the campaign ended.

In agencies with more than 1,000 personnel assigned, MICOM's R&D Directorate rolled up the highest average individual gift: \$36.66, for a total of \$46,353.47. The MICOM Directorate of Arsenal Support Operations recorded the single highest total contribution: \$54,504.35 from 3,690 persons participating.

Most dramatic upsurge over last year's performance was recorded by the Sentinel System Command with total contributions of \$28,077.98 up a whopping 154 per cent.

S. K. Zelobowski and Col. J. T. Prendergast, who headed the ci-

vilian and military sections of the campaign for SENSCOM, said the increase could not be attributed entirely to the fact that SENSCOM has virtually doubled in size during the past year. They pointed out that the average gift by individuals increased by almost 12 per cent from \$31.67 in the 1968 campaign to \$35.39 this year.

The SENSCOM totals also included those from the Nike-X Development Office, the Army Air Defense Command field office and Strategic Communications Command personnel assigned to SENSCOM.

In agencies with less than 1,000 total personnel, Thiokol Chemical Corporation's 608 participants recorded a high average gift of \$39.32 in reaching a total contribution of \$23,907.

Rohm and Haas' 233 contributors made an average gift of \$37.52 for a total gift of \$8,742.

Other agencies with total personnel of near or above 100 whose individual average gifts topped the \$30 mark included: MICOM's Air Defense Systems: \$35.16 average with a total of \$15,611.60; Huntsville Division Engineers: \$33.43 average, \$10,917.50 total; SENLOG: \$33.12 average, \$3,113.90 total; MICOM Land Combat Systems: \$32.51 average, \$14,989.07 total and MICOM general support and personnel staff: \$30.10 average, \$6,562.15 total.

Three other major MICOM Di-

## SP5 MAYNES

(Continued From Page 1)

Systems.

The 24-year-old Albuquerque, N. M., soldier earned a \$50 Savings Bond and a weekend on the town with his wife, Ann, from various participating merchants in Huntsville.

After taking basic electronics at MMCS, Maynes was selected for special new equipment training at Burlington, Mass., to learn his field. The LCSS test set is used on the Shillelagh, Tow, and Dragon missile systems and Maynes is among 12 men now instructing the first class ever at MMCS on its operation.

He completed three years in physics and English at New Mexico State University before enlisting in the Army in April of 1967, and he is now working toward completion of a bachelor's degree at the University of Alabama in Huntsville.

rectorates had average gifts above \$25. The Directorate of Production and Procurement's 1,481 personnel made a total contribution of \$39,179.05 which averages out to \$26.45 each. The 1,738 people of the Directorate of Supply & Maintenance made an average gift of \$26.09 which added up to \$45,351.01. In Missile Intelligence, 174 contributors gave \$4463.90, averaging \$25.65.

Two hundred and seventy five donors in the Army Metrology and Calibration Center gave \$7,655.75 for an average of \$27.83.

The Army Missile and Munitions Center and School with the majority of its 2,585 donors being military personnel, contributed \$34,550.69.

Other participating Army agencies included the MICOM Commanding General's Office, 100 per cent with 14 personnel donating \$532; MICOM's Product Assurance and Test Management Office, 100 percent with a total gift of \$2,066.65 from 54 individuals; MICOM's Comptroller and Director of Programs where the 121 persons assigned gave \$2,913.45 and the Area Engineer with 4 persons assigned pledging \$91.

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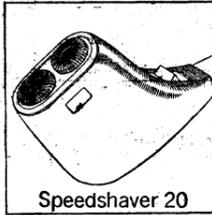
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# SENTINEL IS GROWING

## Friday Ends First Year With Further Buildup Anticipated In Next Year

The Army's Sentinel System Command will mark its first anniversary Friday with prospects of both increased employment and greater activity on the national scene.

Brig. Gen. I. O. Drewry, Commanding General, said employment has risen from about 450 civilian and military personnel to about 880 during the past year. This figure is expected to increase by at least 200 people during the coming year to meet the work load resulting from increased production of Sentinel components and the activation of new missile sites across the nation.

The Sentinel System Command (SENSCOM) came into being on Nov. 15, 1967 as a part of the Army Sentinel System Organization created to direct the development, production and deployment of the country-wide ballistic missile defense system.

Other elements of the Sentinel System Organization which were also activated on November 15, 1967 are the System Office at Washington, D.C. and the System Evaluation Agency at White Sands Missile Range, N.M.

Lt. Gen. Alfred D. Starbird heads the Sentinel System Organization.

SENSCOM is responsible to Gen. Starbird for accomplishing Sentinel production and deployment as well as the continuing research and development program. Nearly all of the major Sentinel R&D contractors and sub-contractors have or are developing production facilities, Gen. Drewry said.

Site validation or construction work is underway in 13 areas across the nation where actual or potential Sentinel operational sites are or will be located. In the Boston area two 300-acre tracts of land were selected during 1968 for construction of the system's first Perimeter Acquisition Radar and a Missile Site Radar/missile launching facility. Preliminary construction is underway at these sites.

As the major operating element of the Sentinel Organization, SENSCOM manages a vast contractor effort which stretches throughout the United States. The Command contracts for goods and services ranging from miniature electronic circuits and massive steel castings to missile propellants and threat studies.

During the past year the newly activated SENSCOM has:

- worked out plans for a new Command headquarters building with nearly 9 acres of floor space in Huntsville's Research Park; this facility is nearing completion and will be occupied by SENSCOM in early 1969. The building will also house several other Army elements involved in the Sentinel deployment.

- expanded staff elements of the Command which will direct production and deployment efforts. The largest expansion of effort was in the Production and Logistics Directorate.

- commenced testing of the Spartan interceptor missile and a prototype version of the Missile Site Radar; continued the flight test program for the Sprint interceptor.

- let three contracts totaling more than \$560 million to the Sentinel prime contractor, the Western Electric Company, for continued system development and initiation of hardware production. A total of 86 contracts totaling some

\$615,440,000 were awarded during the year by the Command for a variety of services, including operation of the Kwajalein Missile Range in the Pacific.

—commenced development of a management information system for the deployment program which will place in one central computer the millions of pieces of management information necessary to control the program. Sentinel is one of the most complex weapons system ever undertaken. At present there are some 3,300 contractor and government organizations employing some 49,000 people involved in the program and this deployment base is expected to increase as the production program moves into full swing.

The Sentinel System Command now operates 12 field offices scattered throughout the United States and maintains a sizeable staff at the Kwajalein Missile Range where Sentinel components are tested.

Though the Command is known from Ipswich, Mass. to the Hawaiian Islands, it still finds its name mis-spelled and mis-pronounced. Correspondence continues to arrive in Huntsville, Alabama addressed to Sentinel (often with a plural "s" on System), to the Central System Command, to the Nike-X Project Office (which was SENSCOM's predecessor) and to the Army Missile Command (Sentinel is the only Army missile program not managed by the Missile Command).

In addition to the SENS-COM, two other major Army units have been formed in Huntsville to provide specialized support to the deployment program and these, too, have grown in size and effort.

The first, the Army Engineer Division, Huntsville, a special operating division of the Army Corps of Engineers, was formed on Oct. 9, 1967 to direct the design and construction efforts at Sentinel sites around the nation. This division, headed by Brig. Gen. R. P. Young, currently has an employment of 350 and, since it was formed, has awarded engineering design and construction contracts totaling more than \$13 million.

A second major organization, the Sentinel Logistics Command headed by Brig. Gen. Mahlon E. Gates, began operations in Huntsville last Aug. 26 and currently has an employment of 125. The Logistics Command, an element of the Army Materiel Command, will provide logistics support for the Sentinel System and its operating sites.

Other military organizations, also involved in the Sentinel program, which have opened liaison offices or increased the scope of their operations here since the formation of SENS-COM include the Army Air Defense Command, the Strategic Communications Command and the North American Air Defense Command.

### 3RD ARMY (Continued From Page 1)

public of Germany Main Battle Tank for the 1970's.

Extremely accurate against moving or stationary targets, Shillelagh is now being deployed with Army troops. The Shillelagh program is managed by the Missile Command at Redstone Arsenal, Ala., under Col. Robert W. Proudfoot, Project Manager.



GENERAL THROCKMORTON SEES DRAGON—Looking at a model of the Dragon anti-tank weapon system is Lt. Gen. John Throckmorton (center), Commanding General of the Third Army who was a guest last week at the Army Missile Command. With the General are from left, Col. Kenneth Van Auken, Dragon Project Manager; Maj. Gen. Charles W. Eifler, Commanding General of the Missile Command; and Brig. Gen. George H. McBride, Deputy Commanding General for Air Defense Systems.

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**GOLF OFFICERS**—The Golf Group sponsored by the Redstone Officers Wives Club chose Betty Lou Ivy (center) to serve as chairman of the group for the coming year. Others elected a week ago are Carol Saccuzzo, (left) secretary treasurer, and Louise Hix, co-chairman. Approximately 60 members and guests attended the election luncheon at the Redstone Officers Open Mess.



**CLUB CHAMPIONSHIP TROPHY**—Grace Wachslar (left) accepts the trophy for the recent Club Championship Tournament from Becky Macpherson, Redstone Officers Wives Club president. The Wives Club sponsors the Golf Group. Presentation was made at a luncheon last week at the Officers Open Mess. This is the third time Mrs. Wachslar has had her name inscribed on the perpetual club plaque that hangs in the Golf House at the Arsenal course.

## Grace Wachslar Takes Tournament Trophy, Again

Grace Wachslar is champion of the Club Tournament among members of the Redstone Officers Wives Golf Group. The trophy was awarded at lunch last week.

Runnerup for the honor was Erlene Dials, outgoing chairman of the Golf Group.

In the first flight Jane Walker was the winner with Loy Stafford the runnerup.

Second flight winner was Clara Miller with Billy Shuput in sec-

ond place and in the third flight Bert Brown won over Alma Hendley.

Linda Edwards won the fourth flight with Margaret McBrearty in second place. Linda was also named the most improved golfer in the Fall Ringer and the low net contender. In second place for low net was Billy Shuput. Carol Saccuzzo was named the second most improved.

Ann Dorris was tournament chairman.

## STWP Meets Tomorrow

Reservations for the November 14, 1968 meeting of the Society of Technical Writers and Publishers can be made by calling Tom Bridges, 842-2646, or John Chambers, 876-1252. The meeting will feature a panel of STWP National Officers discussing "New Trends in Technical Communications."

## NCO Candidate Program to Expand

After a successful first year, the U.S. Army's Non-commissioned Officer Candidate program is scheduled for expansion in the near future.

The first NCO Candidate Course, conducted for infantrymen at Fort Benning, Ga., began in September 1967. During the year, 5,153 infantry fire team leaders and squad leaders graduated with the ranks of sergeant and staff sergeant.

In addition to the infantry course, NCO Candidate Courses were started during the year for artillery crewmen at Fort Sill, Okla., and for armor reconnaissance specialists and armor crewmen at Fort Knox, Ky.

Future NCO courses are planned for infantry indirect fire crewmen at Fort Benning; for combat engineers at Fort Leonard Wood, Mo; and for automatic weapons crewmen at Fort Bliss, Tex.

The demanding NCO training program offers increased promotion opportunities. A soldier can earn staff sergeant rank after as few as 10 months in the Army.

The program consists of a 12-week academic phase followed by nine weeks of on-the-job training. Candidates are promoted to E-4 upon entering the course and to E-5 upon completing the academic phase. Outstanding students can receive promotions to E-6 after the academic work or at the conclusion of on-the-job training. (ANF)

## National Iris Society Elects Bledsoe President

William C. Bledsoe, a member of the Comptroller and Director of Programs staff at the U. S. Army Missile Command, has been elected National president of the American Iris Society, an organization of more than 7,000 members across the Nation.

Bledsoe has been a member of the board of directors for the past five years, and national chairman of Exhibitions and shows for three years.

He is the author of the Iris Judges Handbook, and has been hybridizing and developing new strains of Iris for approximately 12 years. The Bledsoe's home is on acreage near Fayetteville, Tenn., where they have room enough to experiment with many varieties and cross strains.

As a sideline, the Bledsoe's have also experimented with roses. This year, he is chairman of the Huntsville Accredited Rose Judges.

The most recent Iris to reach the market from the Bledsoe experiments is called Sunburst, a pink and yellow bi-color bloom. In the Spring, they will have 1,000 seedlings in bloom and are hoping for a new and better bloom or two among them.

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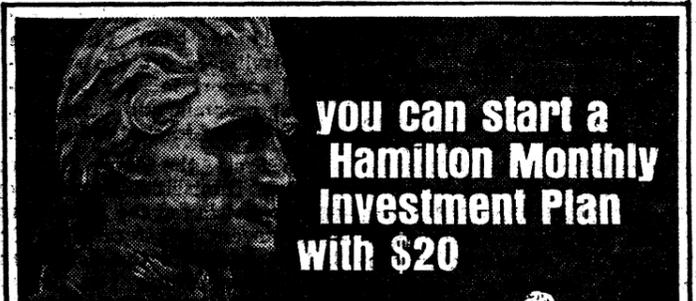
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**PROUD OF THEIR AWARDS**—Douglas L. King, left, and Charlie A. Ferry, congratulate each other on the Meritorious Civilian award medals they were presented last week for their mutual effort in developing a new approach to an old contracting method. King is an attorney-advisor in the Army Missile Command Chief Counsel's Office, and Ferry is a negotiator and contracting officer in the Missile Command Procurement and Production Directorate.

## Two Join Talents, Earn Recognition For Civilian Meritorious Services

Charlie A. Ferry and Douglas L. King of the Army Missile Command have developed a new approach to an old contracting method which won Meritorious Civilian awards for each man. This is the second highest award that can be earned by civilian employees.

Ferry is a negotiator and contracting officer in the Procurement and Production Directorate, and King is an attorney-advisor in the Chief Counsel's Office.

They developed a procurement method for a requirements type contract that permits solicitation, evaluation and award of a contract for two years to cover missile repair parts requirements. Previously, a new contract was written each time there was an additional requirement.

Under the new method, the contract is written and purchase made of immediate needs. Subsequent needs for the same item are purchased by issuing a delivery or-

der instead of starting a new procurement action.

The Government can now solicit prices on incremental quantities set out in quantity ranges, thereby taking advantage of quantitative price breaks not normally obtainable without the new evaluation method.

The new evaluation method is based upon an interchange of information between the user and the buyer, and operates upon an anticipated frequency of use factor to weigh the offered prices.

This method has resulted in saving time and the cost of preparing a new contract or purchase order for each requirement for repair parts.

Ferry has been at the Missile Command for almost four years, and came from Japan where he was employed by the U. S. Army Procurement Agency as a supervisory contract specialist for ten years.

He was graduated from high

school in Vidalia, La., and studied at the University of Maryland Far East Extension following five years service in the U.S. Navy. He is married to the former Miss Glenda S. Moore of Cleveland, Ala. They have two daughters, Marianne and Louanne.

The other award recipient, King, is a native of California, and has both a bachelors degree and a doctor of jurisprudence degree from Stanford University. He is a member of Delta Theta Phi, Phi Beta Kappa and the Order of the Coif.

King has been at Redstone since 1956. From 1960-63 he was a part time instructor at the University of Alabama in Huntsville. His previous legal experience was with the Los Angeles Ordnance District and California Electric Power.

### DR. STUHLINGER TO TALK

The Rocket City Astronomical Association will meet at the Monte Sano Planetarium at 3 and 4 p.m. Saturday to hear Dr. Ernst Stuhlinger, director of the Space Science Laboratory at the Marshall Space Flight Center, discuss the History of our Earth.

The planetarium has a seating capacity of 100. Admission to the meeting is free.

The Planetarium is located in the Monte Sano State Park, off Nolan Drive.

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# Redstone Yacht Club Changes Commodores

An Army Major was promoted to "Commodore" during the evenings festivities at Willowbrook Country Club last week when the Redstone Yacht Club installed Maj. George Kuykendall as its skipper for the coming year. Tom Barrett, "Vice Commodore," and Col. Jack Henderson, "Rear Commodore," were also installed.

Maj. Kuykendall is the Executive Officer for the Sentinel System Command. Barrett is a Section Chief in the Propulsion and Vehicle Engineering Laboratory, Marshall Space Flight Center. Colonel Henderson is the Assistant Commandant at the Missile & Munitions Center & School.

The Redstone Yacht Club was formed in 1959 for military personnel and federal employees. At present there are nearly 300 active members. The club holds its meetings the last Friday of the month in Building 3614 on the Arsenal.

The new "Commodore" said that the club sponsors one cruise a month from April through October to promote friendship, fellowship, fun and frolic for the participating families. Prospective members may obtain more information by calling Don Howard at 539-3974.

Other officers of the club are: Board of Governors, Scott Boothman, Robert Boerner, LTC Robert Feist, W. T. Weissinger and LTC Stephen Dorchak; Secretary, William Moeller; Custodian, LTC Wilson Hamilton.



NEW YACHT CLUB OFFICERS—Newly elected officers of the Redstone Yacht Club are (left to right) Major George B. Kuykendall, Commodore; Col. Jack Henderson, Rear Commodore; and Tom Barrett, Vice Commodore.

## DEER HUNTERS ATTEND MEETING

Attendance at one of the safety orientations at the Service Club today is a prerequisite for active duty and retired personnel who are planning to hunt deer on the Arsenal this fall.

In announcing the pre-season plans, Assistant Game Warden, Sgt. Cecil Oliver said that hunting will be permitted on three consecutive Saturdays, November 23 and 30 and December 7.

The safety orientations will be held at nine this morning and at 3:30 this afternoon. A makeup session is planned for November 13, at 3:30 p.m., for those who are not able to attend today.

## RSA Rifle Team Scores In Meets

The Redstone small bore rifle team has returned from a trip to Mobile and Birmingham where it turned in noteworthy performances in competition with many of the top shooters in the southeastern region.

In the Magic City Championships in Birmingham the Arsenal shooters captured nine first place trophies, one less than that won at the Azelia City Fall Championships in Mobile. The first place awards in the latter meet included the Grand Aggregates in the Marksman, Sharpshooter and Expert classes.

The Arsenal personnel that performed with the team were, SSG Adolpho Salazar, the team captain, SSG John Bernard, SP5 Henry Morrison, SP5 John Carter, SP4 Robert Harter, and SP4 John Moody.

All of the team members are assigned to Company D of the School Brigade. Salazar is with the Pershing Guidance Branch, Morrison is assigned to the Redeye Branch and the rest are with the Shillelagh Branch.

The Redstone shooters will be idle from actual competition until December 5 when they go to Tampa, Fla.

## GAF Soccer Club Meets Nashville

Soccer is on the Redstone agenda again this weekend with the Nashville Internationals coming to the Arsenal to take on the strong German Air Force team.

No admission will be charged for the Saturday afternoon encounter at the Redstone soccer field on Patton Road. The game is set for 3 p.m.

The Internationals are one of the strongest teams in the area with a strong offense and an alert defense. MSGT Oswald Dindas, coach of the GAF team, said that his 20-man squad is expecting their most serious challenge of the season from the Nashville soccer.

The Germans, all of whom are students at the Army Missile and Munitions Center and School, are undefeated in three games to date. They have defeated the Nashville Rangers, the Birmingham Internationals and a Huntsville team.

Dindas and the team captain, SSGT Helmut Kleinen have lined up an impressive schedule for the next two months with the Germans scheduled to take on several strong opponents.

## Bombers Up Lead In Mixed League

Don Vanderheyden accounted for 561 maples and Lucille Nicholson delivered 482 more as the Bombers widened their lead in the RSA Officers Mixed League last week.

While the Bombers were winning eight out of nine from the Sperts, the second place Hi-Counts scored a 6-3 win over the Boll Weevils. The Pin Droppers won seven from the D-Yanks and the Boosters claimed a like winning margin at the expense of the Redstones.

All four of the Hi-Counts turned in outstanding efforts with Margaret McBrearty taking individual honors for the women with 493 while Billy Shuput shot a 222 game. Jim Pruett was the team's high scorer with 540, one stick ahead of Mike Shuput. Ann LaPointe topped the Weevils with 479.

Bob Love had a 524 and Ralph Nearhoof hit for 520 for the Redstones.

Jim Ivy turned in a 519 for the Pin Droppers and Bill Tarr was the top scorer for the D-Yanks with 518.

## Unit Level Flag Football

### THE STANDINGS

Team	W	L
D Company	7	1
C Company	7	2
1st-4th ETC	7	2
200th Ord	6	2
6th ETC	5	4
SOC/HHC	4	4
9th ETC	4	4
8th ETC	4	4
A Company	3	5
5th-7th ETC	3	5
3rd ETC	2	6
2nd ETC	2	7
B Company	0	8

### LAST WEEK'S RESULTS

SOC/HHC-13—B Company-6  
8th ETC-14—D Company-7  
9th ETC-14—C Company-6  
5th-7th ETC-8—A Company-6  
1st-4th ETC-13—2nd ETC-6  
D Company-1—3rd ETC-0

### THIS WEEK'S SCHEDULE

**Tonite**  
5:30—9th ETC vs. SOC/HHC  
6:45—8th ETC vs. 200th Ord

**Tomorrow**  
5:30—1st-4th ETC vs. C Company  
6:45—5th-7th ETC vs. B Company  
8:00—A Company vs. D Company

**Monday, November 18**  
5:30—6th ETC vs. SOC/HHC  
6:30—8th ETC vs. 9th ETC

**Tuesday, November 19**  
5:30—D Company vs. B Company  
6:45—A Company vs. C Company

## Civilian Stars—

# Barter, Sarge Top Ten Pin Parade

Al Sarge grabbed the Supply and Maintenance League's Bowler of the Week award last week but it was a five man band of Renegades that generated most fireworks for the weekly ten-pin session.



SARGE ROBERSON

Sarge turned in a 392 actual count and a 659 handicapped to-

tal to outdistance Ray Barter for the league award. Barter connected for a 606 actual count but his handicap was not enough to garner the trophy.

It was enough though to lead the Renegade assault that got the league leaders a clean sweep win over the Baker Realtors. The Renegades shot an actual pinfall of 2815 and a handicapped total of 3023.

Bill Lasewicz was next behind Barter with 570, Bob Adams southpawed a 554, Fred Stewart hit for 552, and George Foster chipped in with 531. Theron Summer turned in a 570 card for the Realtors.

Sarge shot his Honor Roll count to boost Tad's to an even break with the Walt Young-led Auto Center five, the Chiefs got a 571 from Les Alkenburg in winning three from the All-Sports and Ed Burg turned in a 561 as the Cracker Jacks won three from Lily Flagg.

Reba's drew a blank in their match with the Dragons and fell into a second place tie with the Bushwhackers, five and a half points off the Renegade pace.

It took a tremendous comeback by the Bushwhackers to get the tie after dropping the first two games to the Pin Busters. But they were equal to the task in making up a 225 pin deficit to gain the split.

Buck Roberson whacked out a 582 for the winners and J. T. Wright chipped in with a 541.

About the only sure way of win-

ning league titles is to get ahead early and then just keep on winning. That appears to be the scheme that the Bombers are using in their efforts to regain the AMC League championship.

The Bombers have won either three or four points eight of the ten weeks of the league season so far in taking a six and a half point lead with a third of the schedule already on the books.

Last week the Tigers took their licks from the leaders, dropping all four points while the second place Winners were dropping three out of four to the Bandits.

Eulas Gilbert was the most effective Bomber this time around with a 564 count. Bob Brand added 554 and Jerry Keagy kept the attack rolling with 545.

Mike Cooper continued to score for the Winners with a 540 count but it was not enough to match the Willy Wiggins-led Bandits. The loss dropped the Winners into a tie with the Avengers who claimed all four points from the Lancers. Ken Bell was the leading pin spiller with 538

The All-Sports blanked the Sprinters as Hal Leahy shot a 540, Earl Hudgens paced the T-Birds to a sweep of the Rejectors, and Elmer Rufe was the leading scorer in the Metro-Cal shutout of the Travellers.

Gaylord Huffman turned in a 547 as the Voyagers split with the Spartans and the Alley Cats won three out of four from the Raiders in other matches.

## Educational Fund Created by N.C. Guard Association

RALEIGH, N.C. (ANF) — The North Carolina National Guard Association has formed an educational foundation to provide scholarships, grants and loans to further the education of Guardsmen and their children.

The non-profit corporation will offer scholarships for colleges and for vocational and trade schools. The National Guard Association's scholarship committee will have the responsibility for screening applications and forwarding recommendations to the foundation.

The association, which has provided scholarships in the past, created the foundation to obtain additional funds because of the large number of applicants for its scholarships. It will begin a campaign soon to solicit funds, with a tentative goal of \$50,000.

8:00—5th-7th ETC vs. 200th Ord  
Wednesday, November 20  
5:30—2nd ETC vs. SOC/HHC  
6:30—6th ETC vs. 8th ETC

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# DRAGON TO BE MADE IN NEW FLORIDA PLANT

TITUSVILLE, Fla., Nov. 2, 1968 —Dedication ceremonies were held here today for the new Ti-Co plant in which the McDonnell Douglas Astronautics Company-Eastern Division has established a pilot production line for the U.S. Army Missile Command's Dragon anti-tank missile.

In addition to the Dragon, the Titusville facility is working on a contract to inspect, refurbish and repair elements of the Nike Hercules missile.

More than 800 persons are employed at this McDonnell Douglas Corporation facility.

Plans to begin production of the Dragon missile under a contract awarded to McDonnell Douglas were announced in June 1968 by the Department of the Army. Total planned value of the contract is \$133 million. The contract

# Basketball Play Opens Next Week

The Missile School will provide most of the personnel when the 19-team Unit Level basketball league swings into action at the Post Gym on Monday, November 25.

Twelve of the quintets will be made up of students and permanent party at the School with the league split into two divisions. Two games are scheduled each evening, Monday through Friday, with both divisions slated for a single round.

The American Division of the league will have seven teams from the School competing with the Missile Command, the 200th Ordnance

followed a \$5.5 million letter contract awarded in October 1967 and calls for advanced production engineering, engineering services and hardware production.

The Nike-Hercules contract was awarded earlier this year.

and the 522nd Ordnance.

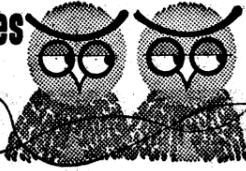
The School teams in this Division are, the 1st and 4th ETC, the 2nd ETC, the 6th ETC, the 9th ETC, A Company, C Company and the combined forces of SOC and HHC.

Nine fives will be battling for the National division crown with five School units pitted against the Marines, the 291st Military Police, the 249th Ordnance and

Headquarters Company, UTC.

MMCS teams in the National are, the 5th and 7th ETC, the 3rd ETC, the 8th ETC, B Company and D Company.

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\$ 50	\$ 9.23	\$ 5.02			\$500	\$46.81	\$24.73	
75	13.84	7.53	\$ 5.45		700	64.92	34.30	
100	18.46	10.05	7.27	\$ 5.90	1000	92.30	48.76	\$40.05
200	36.92	20.09	14.54	11.81	1500	137.80	72.80	59.80
300	55.09	29.87	21.54	17.42	2000	181.96	96.13	78.96

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100. Loans up to \$300 under state supervision.

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# Senescence Causes Missiles To Need Surgery

People don't have a monopoly on heart transplants.

Army missile systems, such as the ten-year-old air defense system, sometimes need surgery, too.

Missiles get the best care available through the U.S. Army Missile Command's Overhaul Exchange Program.

Through this "Medicare for Missiles" program, each missile system undergoes a Fountain-of-Youth treatment. By means of a depot overhaul, vital organs are reworked and modernized to increase performance and ensure continued reliability.

Responsibility for planning and

carrying out this vast equipment updating lies with Missile Command's Supply and Maintenance Directorate headed by Col. William J. Macpherson. The Nike Hercules system is managed by Col. Morris W. Pettit, project manager.

Since overhaul appointments have been made for all systems

worldwide, close coordination is a must so that system "patients" get to the depot "surgeon" on schedule.

Each system has been assigned an equipment specialist coordinator from the Directorate's Depot Operations Section, headed by Joe L. Watson. The coordinator works hand-in-hand with the depot in expediting hard-to-get repair parts, identifying modifications needed to update the equipment and locating modification kits needed.

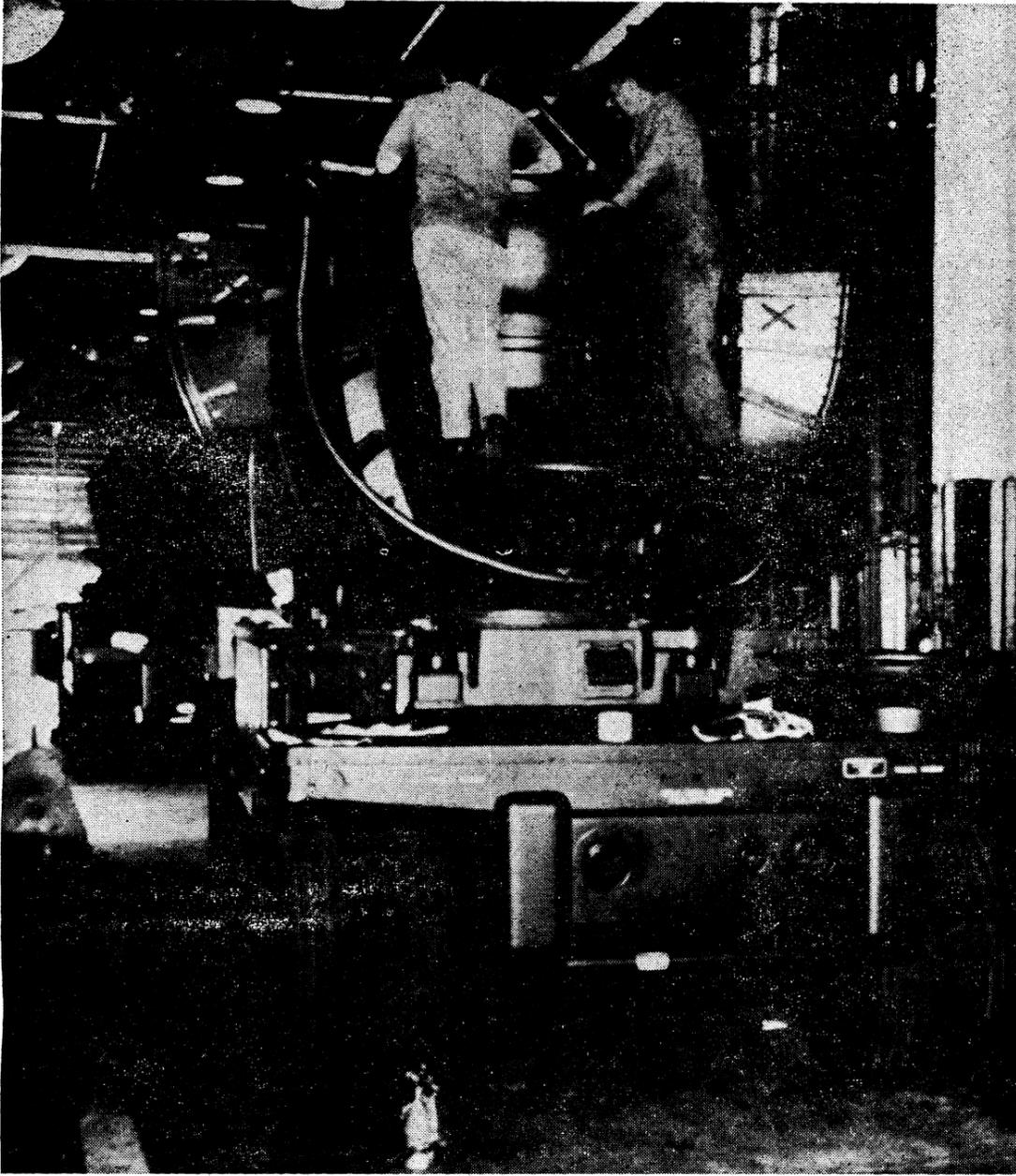
He must also coordinate with the depot and with missile units to speed delivery. For overseas deliveries, vessels must be scheduled and ports alerted to make

loading crews available.

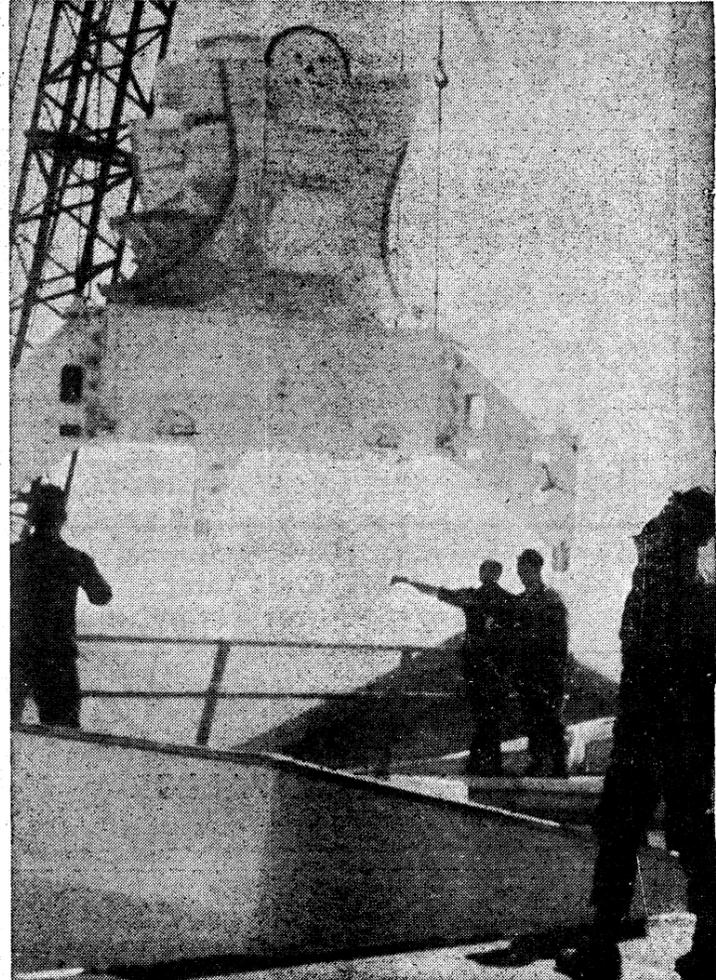
When the system has been overhauled and is ready for final testing, the coordinator invites site and field support maintenance representatives to witness tests at the depot. Depot technicians test operate the entire system to be sure that all system parts are compatible. The Missile Command coordinator also briefs site and field support customers on all changes made in the renovated system.

After all quality checks have been made, the system is released for shipment to the tactical site customer.

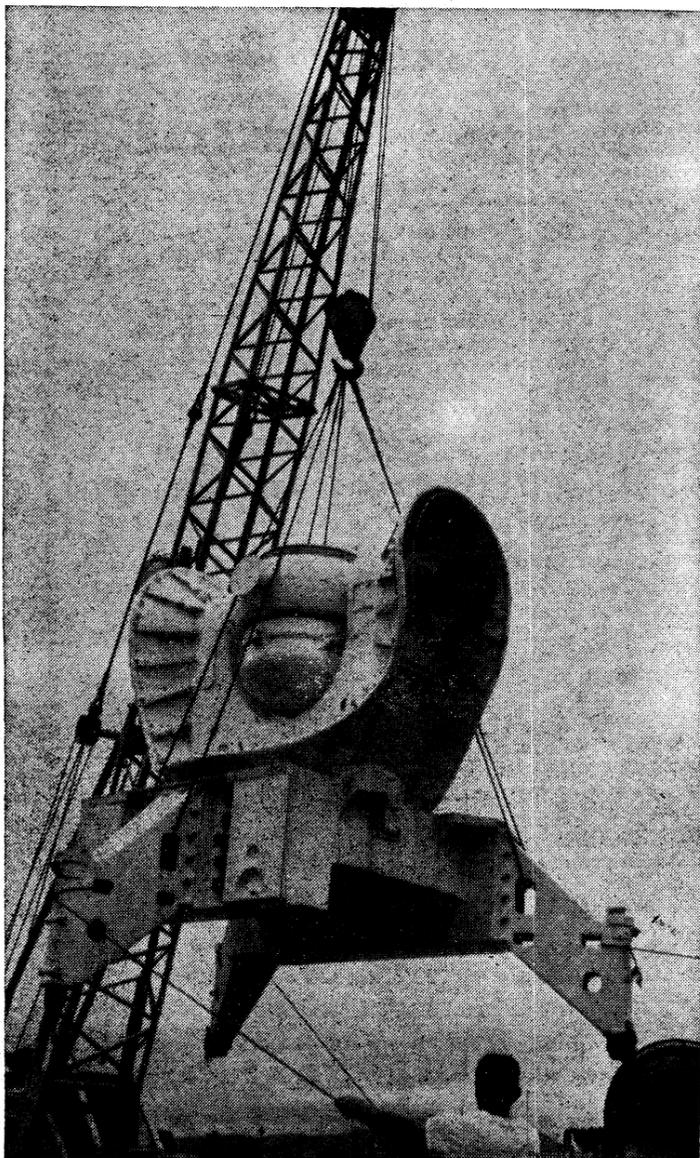
To speed movement and ensure minimum travel damage, the sys-



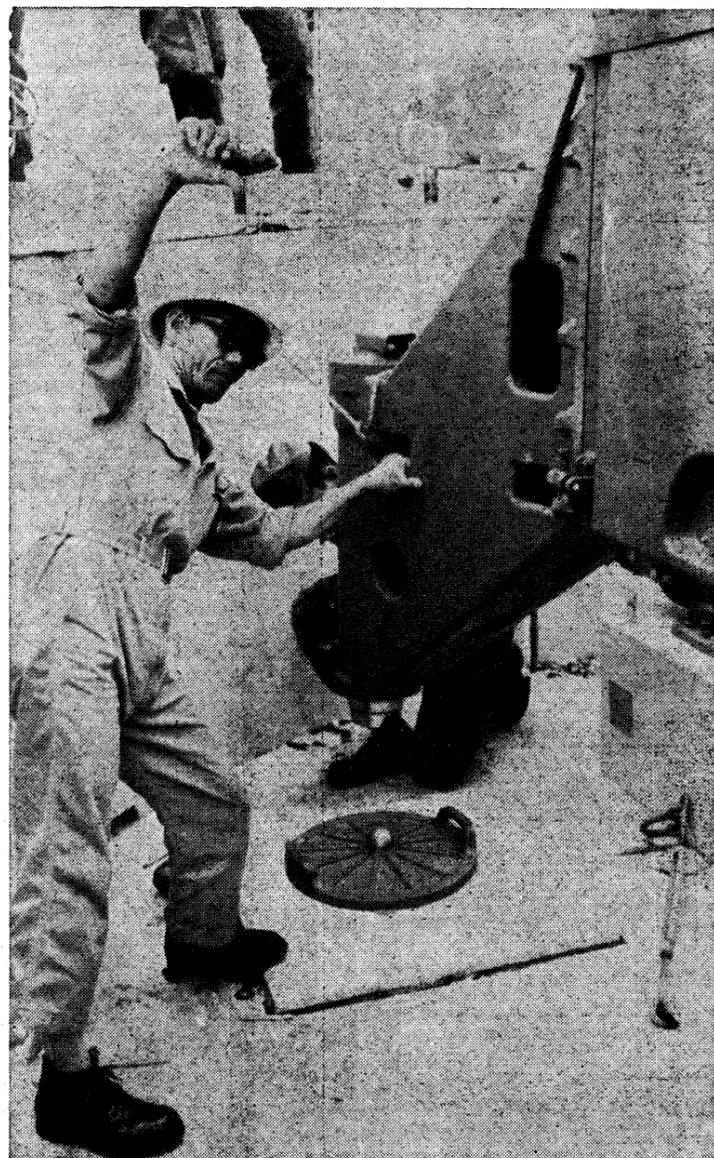
HERCULES RADAR IS SPRAYED with heat solar reflecting paint following overhaul.



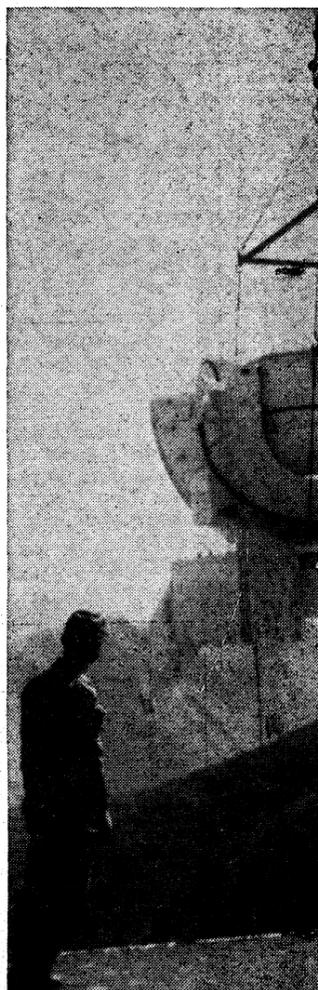
TRACKING RADAR IS INSTALLED at "Site Summit" in Alaska.



OLD TRACKING RADAR is removed at an Okinawa Nike Hercules site. It will later be crated and returned to the U. S. for rebuild.



REBUILT TRACKING RADAR is lowered into a typhoon base at an Okinawa Nike Hercules site.



RECONDITIONED RADAR is emplaced at "Site Summit" Missile Command's Systems Maintenance Directorate, obs-

# Medics Stand By To Rejuvenate All Systems

tem is trucked to the site or, if it is an overseas delivery, to the port.

Once a system is on its way to a site, the Missile Command coordinator asks the depot to provide a team to meet him at the site.

When the new system arrives, site operations come to a halt and the old system is replaced by the newly rebuilt system.

Weeks of planning by the field support activities, the Missile Command coordinator and the depots have preceded this exchange. Cranes have been contracted (usually commercially) for removal and reinstallation of new radars from towers. Technicians have been mobilized for removal and

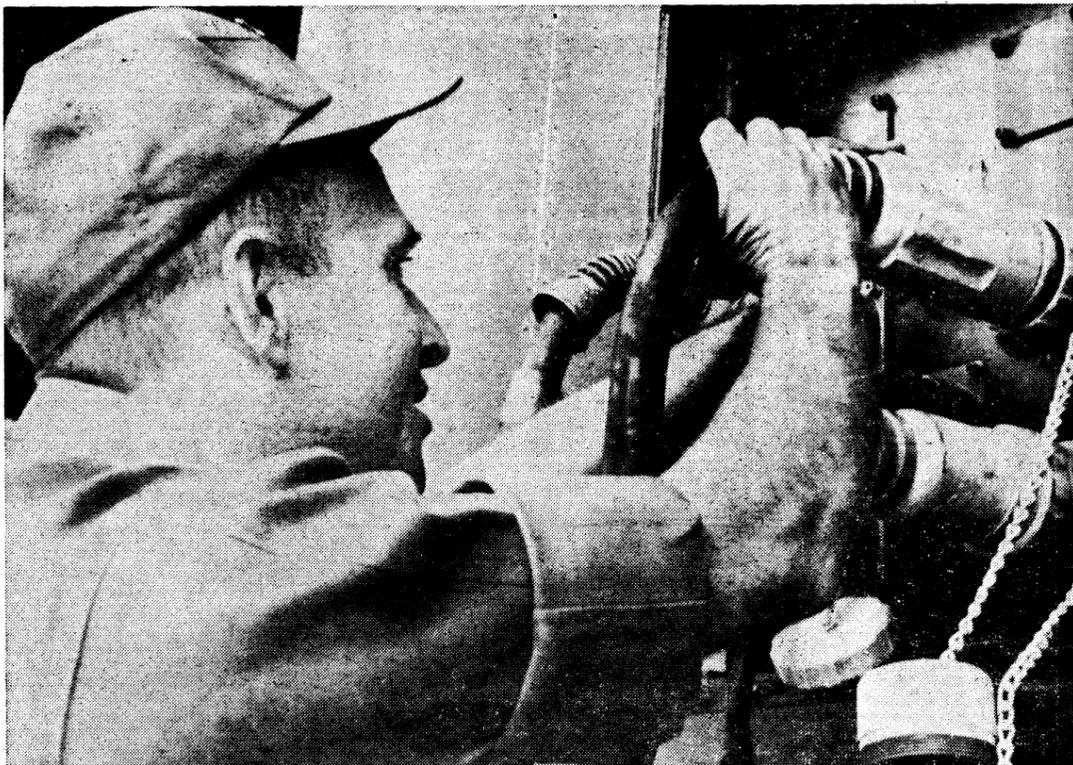
replacement of equipment, air-conditioning and a telephone/communication equipment exchange.

All tasks must be accomplished within a few days.

As soon as the new system is installed, power is applied and a combined system operational checkout is performed by the depot team, field support shop and site maintenance technicians.

While the initial power-on checks are under way, the old system is being processed and packaged for shipment back to one of the overhaul facilities. It must be shipped out within ten days of the new system's arrival.

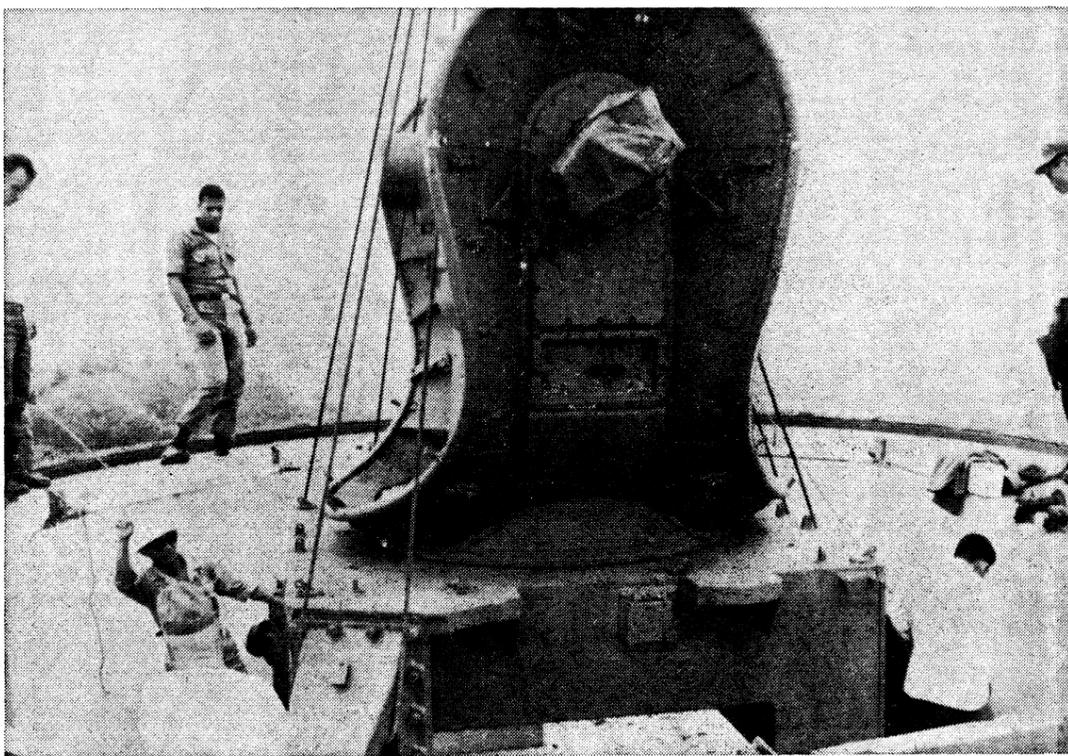
(See SENESCENCE on Page 10)



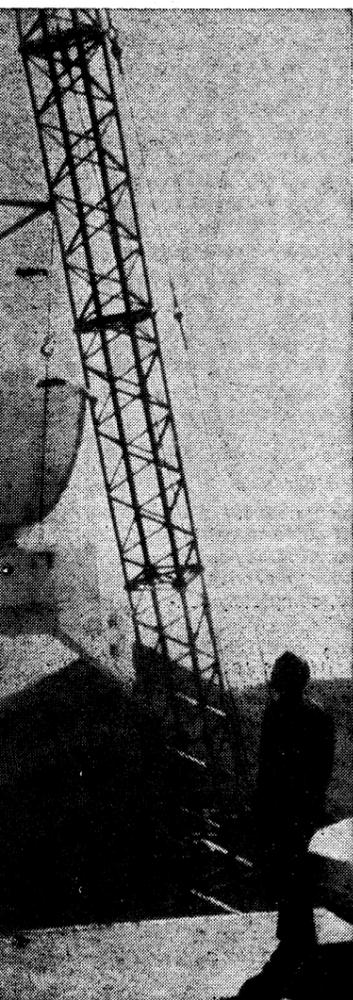
CABLES ARE CONNECTED to a rebuilt radar van following equipment exchange at a Nike Hercules site. Complete physical move takes only hours.



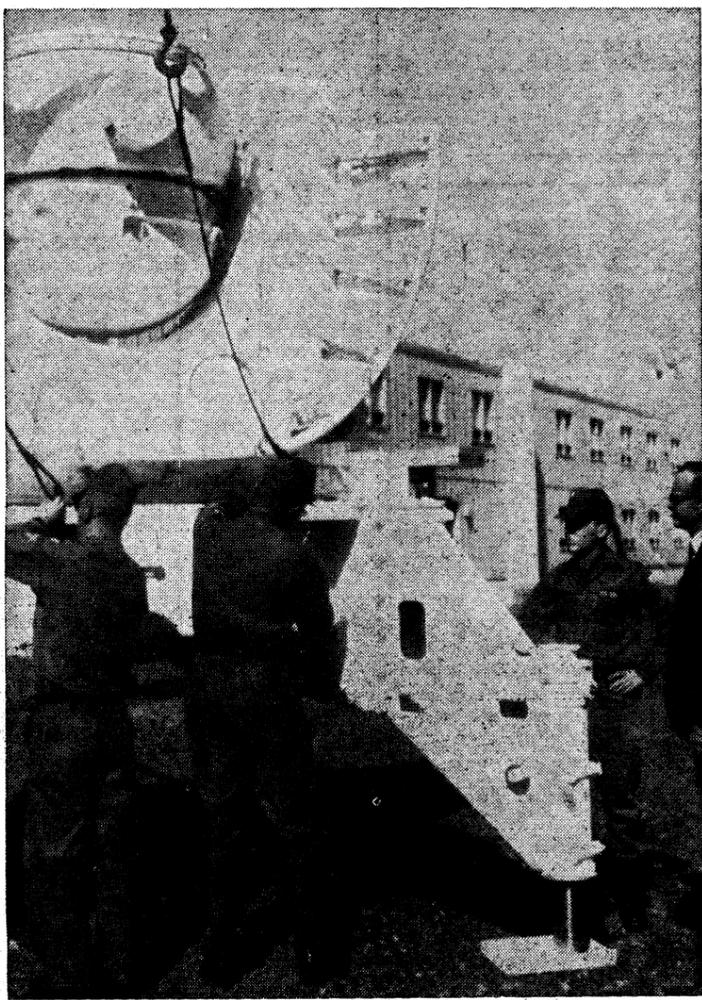
HOIST IS SECURED to tracking lens cover before lifting it off tracking radar to be emplaced at a Nike Hercules site.



REBUILT MISSILE tracking radar is emplaced in a typhoon shelter at an Okinawa Nike Hercules site.



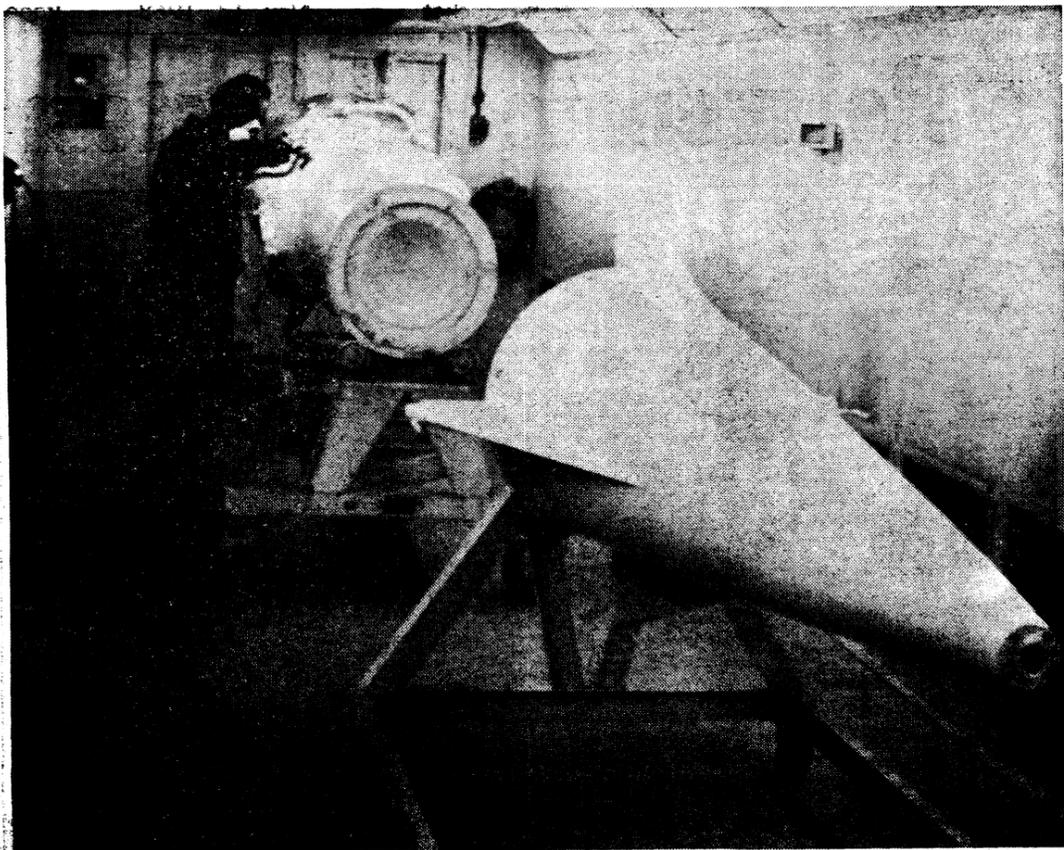
ATED TO ROOF, where it will be Alaska. Maurice Tucker, Army Exchange Coordinator, Supply and the operation.



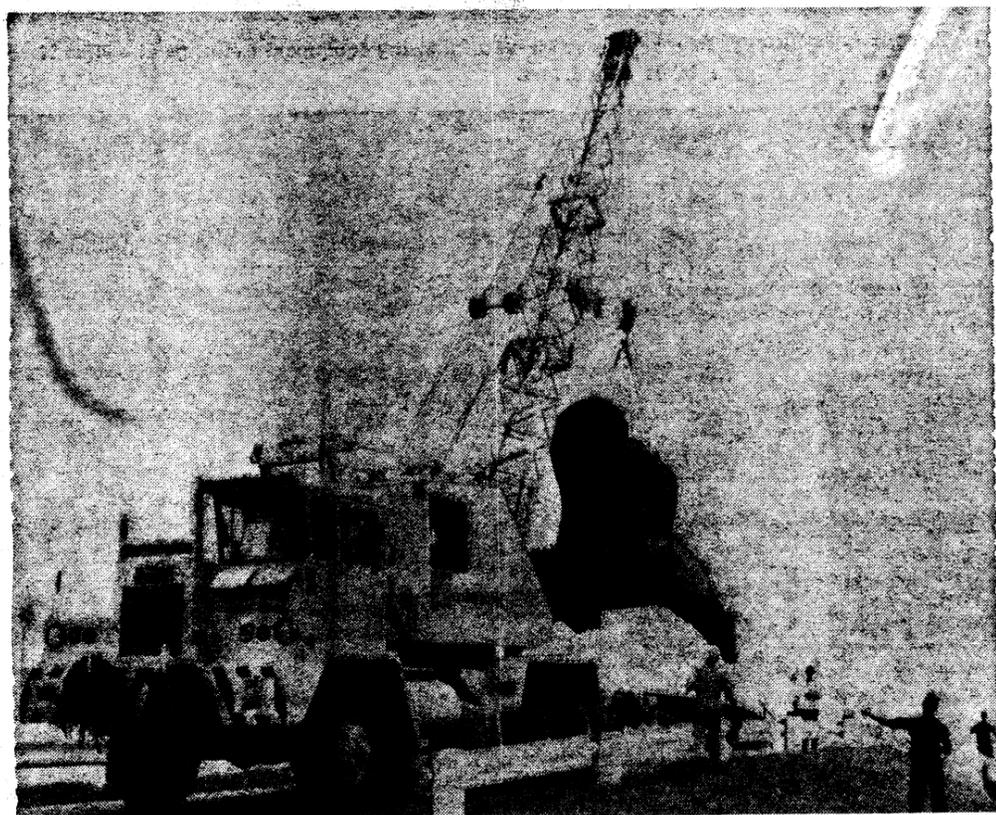
MAURICE TUCKER, right, Systems Exchange Coordinator from the Army Missile Command's Supply and Maintenance Directorate, checks out tracking radar before it is emplaced on tracking tower at "Site Summit," Alaska.



MAURICE TUCKER (standing), Systems Exchange Coordinator, Army Missile Command Supply and Maintenance Directorate, watches operation as James M. Osterud, Tooele Army Depot, checks cables at "Site Summit," Alaska, before an equipment exchange.



HERCULES MISSILE undergoes final spray painting after overhaul.



RECONDITIONED RADAR IS GUIDED UP A HILL before emplacement at an Okinawa Nike Hercules site.

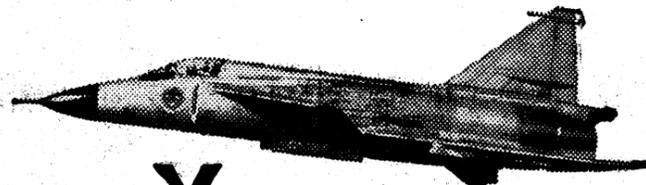
### Professional Engineers To Hear Radiologist At Tomorrow's Meet

Dr. EDWARD E. Camp, a Huntsville Radiologist, will discuss his profession and its place in modern medical practice with the Alabama Society of Professional Engineers, tomorrow night at Michael's Restaurant. He will describe such procedures as tracing of the body's

many systems as well as treatment.

Dr. Camp a native of Kentucky and a graduate of the University of Tennessee did his residency in Radiology at John Gaston Hospital and did additional work as a Special Fellow at Memorial Hospital in New York City. He has practiced in Huntsville since 1949.

For additional information contact Robert W. Holleman, P.E. at 539-3771 Ext. 301.



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### SENESCENCE

(Continued From Page 9)

After completing power-on checks, the depot technicians turn the system over to the tactical site operators who put it through further exhaustive tests.

When the battery commander is finally satisfied that the system will perform its mission, he puts his stamp of approval on the

acceptance document.

Gathering up its tools, the weary depot team heads back to the depot and, satisfied with a successful operation, the Depot Operations coordinator returns to the Missile Command to start planning for another exchange.

Meanwhile, the old system is be-

ginning its journey through the rebuild production line at the depot.

Eventually it, too, will be emplaced on a tactical site, somewhere in the free world.

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1957 VW SEDAN Sunroof extra clean, black, radio \$645.

1964 VW BUS, red, good running condition. \$495.

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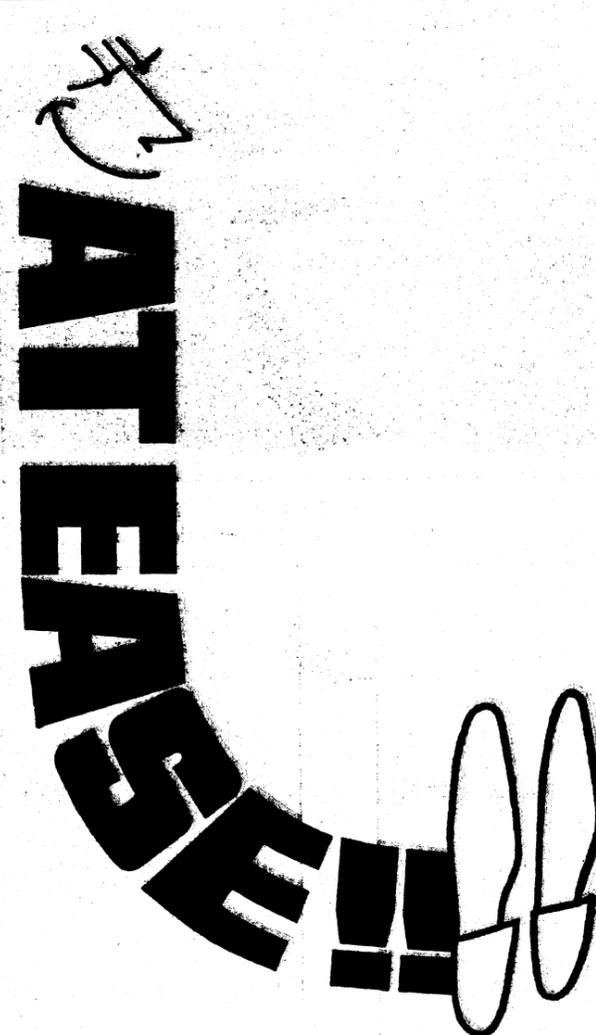
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**NAMES IN THE NEWS**

by SP5 *Mike McKenzie*

Col. Paul B. Schuppener, Commandant, is highly pleased with the School's participation in the just-completed Combined Federal Campaign. Our contributors chipped in \$34,550 and 69 cents and just for good measure.

This came from 99.6 per cent participation, including 10 offices which had all of their personnel contribute.

The funds, averaging \$11.12 per person among permanent party people, will be distributed among many local and national charities.

A Bronze Star and Air Medal for meritorious service in Vietnam were presented by Col. J. K. Keown, commander of School Brigade, at a 3rd Battalion awards ceremony last Thursday.

Staff Sgt. Elwood F. Butler received the Bronze Star. He is a student on the Nike radar and simulator assigned to 3rd Enlisted Training Company. The air Medal went to Staff Sgt. Jimmy R. James, operations sergeant at Headquarters Co.

In other highlights of the gather-

ing, the 8th ETC walked off loaded down with trophies, including a school-wide swimming championship, participation in the Savings Bond program, and honor company of the month. The 8th ETC is commanded by Lt. Harold Yates.

Several of the company's individuals were also singled out for achievement. Acting Cpl. Carl Bugge, student in Hawk pulse radar, was named Soldier of the Month. Winners of races in the swim meet were SP4 Jerry Busenbark, SP4 Chester Larned, PFC Michael Southworth and PFC Tom Rhode, along with relay teams of Busenbark, PFC Bob Weld, PFC Charles Millitello and PFC Bob Weed in freestyle, and Weed, Larned, PFC William Salisbury and PFC William Fountain in medley.

The 2nd ETC, commanded by Lt. J. H. Konicki, also earned distinction for a high percentage of Savings Bond purchasers.

Ahoy! A pair of sailors have washed ashore here.  
Senior Chief Petty Officer (E-8)

Ruben R. Bertisch and Airman Fire Control Technician (E-3) David G. Harrison have come to MMCS to study Redeye and Hawk maintenance. They are from the Naval Weapon Station at Fallbrook, Calif.

Their home installation is an ammunition storage and renovation center for both the Navy and Marine Corps. Although the Hawk and Redeye are not deployed by the Navy, sailors are now required to know support procedures on the two missiles since the Marines are using them.

Recognition of ranks has been a mutual problem between the visiting seamen and their Army counterparts. For instance, Chief Bertisch—the equivalent of an Army master sergeant—found himself returning several salutes while wearing a blue dress uniform with gold braids before changing to a more familiar-looking khaki outfit.

Anyway, welcome aboard, mates.

Staying with the "newcomers" department, a few weeks ago we mentioned the arrival of an advance group of Spanish liaison and interpreter officers. Their charges have now arrived on the scene.

All told, there are 20 students from the Spanish Army enrolled in the courses on Hawk radars, missile and launcher, and fire control. They're currently studying in the Missile Components Department.

Other new arrivals called to our attention include: Capt. Martin H. Roy at Non-resident Instruction Dept., Lt. Herbert W. Benedict, Lt. Michael F. Miller, and WO George R. Schooley at Hawk Maintenance Supervisor Branch.

**OTHER NAMES IN THE NEWS:** Recent promotions have come down for Maj. Irvind Borgen, Jr., training officer of Unit Training Command; Captains Jack Brocker, a student, Warren Uchitel, assistant adjutant at Brigade, and Mark Cook; 1st Lieutenants Christopher Adams, Larry Bartosh, Joseph Donahue, Arthur Fuchs, Steve Mohasci, Wesley Simmons, Daniel Workizer, and James Willis; and SFC Robert L. Phillips—Regular Army commissions were presented to Lts. James Fagan, Jr., and Henry Brown, Jr.—An outstanding proficiency rating with quality increase has been announced for John Miller at Combat Developments Command Maintenance Agency—And news from the Marine Training Detachment—Sgt. Timothy B. Cramer received from the commanding officer, Capt. Harold J. Phelan, the Secondary Navy Commendation Medal for achievement with a combat division in Vietnam; in October the Marines took top honors for the first time in the monthly retreat parade; the detachment celebrated one of the year's biggest events Saturday night, the annual social ball honoring the birthday of USMC.

**IEEE Group Will Hear Project Management Talk**

Project Management will be the topic at a luncheon sponsored by the Engineering Management Group of the IEEE (Institute of Electrical and Electronic Engineers) at noon, Nov. 20th at the Redstone Officer's Open Mess.

The speaker will be Dr. Donald G. Marquis, Professor of Organizational Psychology and Management, Sloan School of Management, Massachusetts Institute of Technology.

Since 1962 Dr. Marquis has directed at MIT a multi-disciplinary program of studies of the organization and management of science and technology. His talk will relate specifically to studies performed on project management, both in industry and government, and on the project managers themselves.

Preceding the luncheon, Dr. Marquis will conduct a two hour seminar at the Missile Command, Research and Development Directorate, Room A-219, Building 4505 on current research studies in the field of Research and Development Management. Key R&D personnel from both the Missile Command and Marshall Space Flight Center have been invited to attend.

Tickets for the lunch are available from Robert Martin, Astro Space Labs; P. F. Napolitano, IBM; Raymond C. Hase or William V. Gudaitis, Missile Command.

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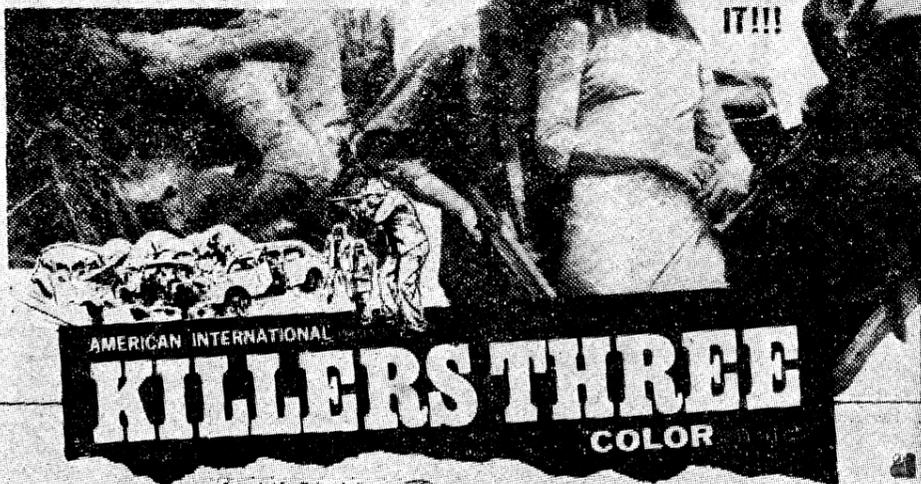
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# Col. Hendricks Stresses Need For Logistics Men To Relieve Combat Troops

The deputy director of the Directorate of Arsenal Support Operations addressed the 116 graduates of the Army Missile and Munitions Center and School here Friday.

Col. Mac D. Hendricks told the 17 officers and 99 enlisted men in the graduating class of the importance of their ammunition storage and missile maintenance fields.

"It gives me a feeling that I'm coming home," Col. Hendricks said, referring to his early experiences at White Sands, N.M., when the concept of training military

personnel to maintain and support missile systems was first developed.

The best assignments for ammunition storage specialists are Vietnam, Thailand, and Korea in that order, the 27-year veteran claimed, explaining that these assignments give the best experience in the field.

Trained ammunition storage personnel are essential, Col Hendricks stated, citing as an example the early days of the Vietnam buildup when men were pulled off other duties to build ammunition bases because there weren't enough

trained men.

"Today a similar situation is being experienced in Thailand," he warned. "Combat troops are being used for logistics purposes."

Col. Hendricks also stressed the importance of the missile maintenance field. He pointed out that the rapid deployment of Hawk missiles to Florida as a deterrent during the Cuban missile crisis would have been worthless without trained maintenance personnel to keep them operative.

"You are also supporting missile systems yet to come," he said, explaining that the Army is constantly developing new weapons systems.

Pvt. Robert C. Topping of Old Greenwich, Conn., led his 17-man ammunition records class and also

had the highest grade of all the graduates, 96.6. Clinton Grace, one of the directors of the local Association of the United States Army chapter, presented the graduate with a plaque.

Other honor graduates were: Cpt. D. Brent Pope of Greensboro, N.C., in the missile maintenance officer course; SPEC 5 Donald H. Sauret of Andover, Me., in Nike radar and computer; Spec 4 Dean E. Geiss of Chandlerville, Ill., Hawk pulse radar; PFC William P. Bunton of Palestine, Tex., Sergeant guidance repairman; PFC William R. Place of Miami, Fla., Sergeant test equipment; Pvt. Garry A. Pace, Shelby, Mont., ammunition storage; and Pvt. Dale W. Adams, Jr., of Flint, Mich., in ammunition renovation.

## Theatre Schedule

WEDNESDAY, NOV. 13 — "Madigan" (M)

THURSDAY-FRIDAY, NOV. 14-15 — "The Bible" (F)

INCREASED ADMISSION: adults 50c, children 25c  
Showings at 5:45 and 8:30 p.m.

SATURDAY, NOV. 16 — Walt Disney's "Charlie, the Lonesome Cougar" (F)

SUNDAY-MONDAY, NOV. 17-18 — "Duffy" (M)

INCREASED ADMISSION: adults 50c, children 25c

TUESDAY-WEDNESDAY, NOV. 19-20 — "The Brotherhood" (M)

INCREASED ADMISSION: adults 50c, children 25c

Two shows nightly at 6:00 and 8:30 p.m. except as noted above.

# Johnston To Present Paper At 10th NORAD Meeting

An Army Missile Command electronic engineer, Stephen L. Johnston, has been invited to speak at the Tenth Annual North American Air Defense Command, (NORAD), Electromagnetic Warfare Conference November 13-15 in San Antonio, Texas.

The invitation from Brig. General Joyce B. James, Deputy Chief of Staff, Communications and Electronics, NORAD, requested that Johnston present a paper he previously gave at the Joint EW Planning Conference at Ft. Monmouth, "A Survey of Radar/ECM Simulation."

During his 17 years at Redstone Arsenal, Johnston has worked on a variety of studies on practically every rocket and missile system of the Command, from Littlejohn through Nike-X.

The author of 30 reports, Johnston has presented papers at numerous technical conferences and symposia. He has served as section organizer, session chairman, and steering committee activities for technical meetings, and has several patent applications pending.

He is an honors graduate of the Georgia Institute of Technology with Master of Science and Bachelor of Science Electronic Engineering degrees.

A member of the Phi Kappa Phi Honor Society, a registered professional engineer and a senior member of the IEEE, Johnston has received numerous awards and commendations.

Founder of the Huntsville Section IRE, he is a charter member of the Association of Old Crows, Redstone Rebel Roost Number 13, and is now a member of the Board of Directors of that chapter.

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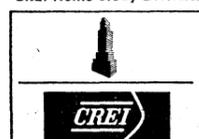
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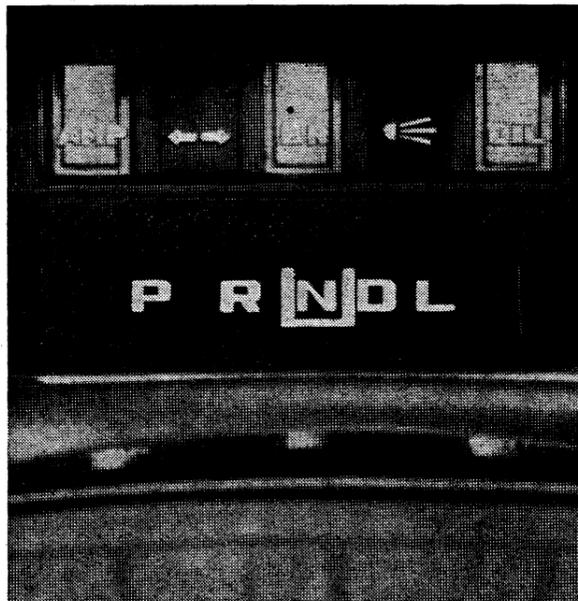


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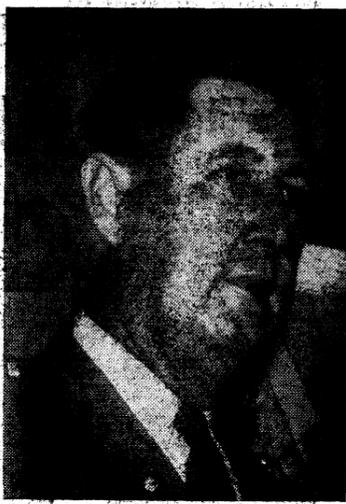
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## Sentinel Men Earn Awards On Previous Assignments

Two Legion of Merit awards were among the decorations presented recently to eight officers associated with the Sentinel System Command for previous service in Southeast Asia, the Pacific, Europe and the United States.

The presentations were made by Brig. Gen. I. O. Drewry, Commanding General of the Sentinel System Command during ceremonies in his office.

The Legion of Merit, one of the Army's highest awards for meritorious service, was presented to Col. James J. Cobb and to Lt. Col. William J. McClain.

Col. Cobb was cited for his service in Europe from June 1966 to July 1968 as Division Chief of Staff and Commanding Officer of Division Artillery, Third Infantry

Division. He was recently appointed Director of Program Control and Management Systems.

Lt. Col. McClain was cited for his service in Vietnam from October 1967 to June 1968 as Provost Marshal of the 25th Infantry Division. He is Security Officer for the Army Air Defense Command Field Office associated with the

Sentinel System Command.

The other awards were:

—A Bronze Star Medal to Maj. Roy G. Baldwin for services in Vietnam. Maj. Baldwin is Research and Development Coordinator in the System Requirements and Analysis Branch of the System Requirements Division of the Research, Development, Test and Evaluation Directorate.

—A Bronze Star Medal to Capt. David J. Usher for service in Vietnam. Capt. Usher is Signal Officer in the Range Development and Communications Division of the Kwajalein Range Directorate.

—An Army Commendation Medal (Third Oak Leaf Cluster) to Col. Hubert L. Nolan for service with Headquarters, U. S. Army Materiel Command. Col. Nolan is Chief of the Technical Operations Division of the Site Activation Directorate.

—An Army Commendation Medal (Second Oak Leaf Cluster) to Lt. Col. Gerald A. Ludick for service on Okinawa. Lt. Col. Ludick is Executive Officer of the Production and Logistics Directorate.

—An Army Commendation Medal (First Oak Leaf Cluster) to Lt. Col. George C. Bennett, Jr. for service in Thailand. Lt. Col. Bennett is Project Engineer in the Site Operations Division of the Site Activation Directorate.

—A Purple Heart Medal to Lt. Col. James C. Bales for wounds received in action in Vietnam. Lt.

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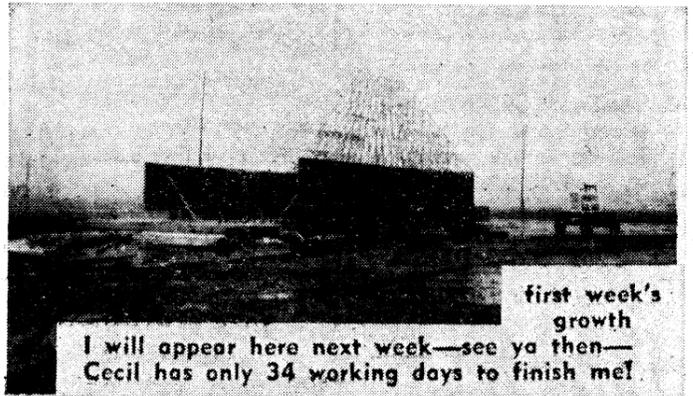
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**1966 AUSTIN HEALEY SPRITE**  
One owner, excellent cond. Red finish. Was \$1395. .... IS \$1199.

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**1965 V.W. SEDAN**  
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