

Our TOW Goes To War:

General Tells Of Tank Kills

WASHINGTON — Two Army helicopters firing TOW missiles killed 26 tanks and blasted 39 other point targets including trucks, artillery pieces and ammunition dumps in less than two months of combat in Vietnam, the Director of Army Aviation said last week.

Brigadier General William J. Maddox also told newsmen during a Pentagon briefing on June 27 that a limited number of ground based TOW systems had killed 12 tanks, including nine in a single action near Fire Base Nancy northwest of Hue during the night of June 25.

His statements were the first official acknowledgement that the TOW system had been committed to combat.

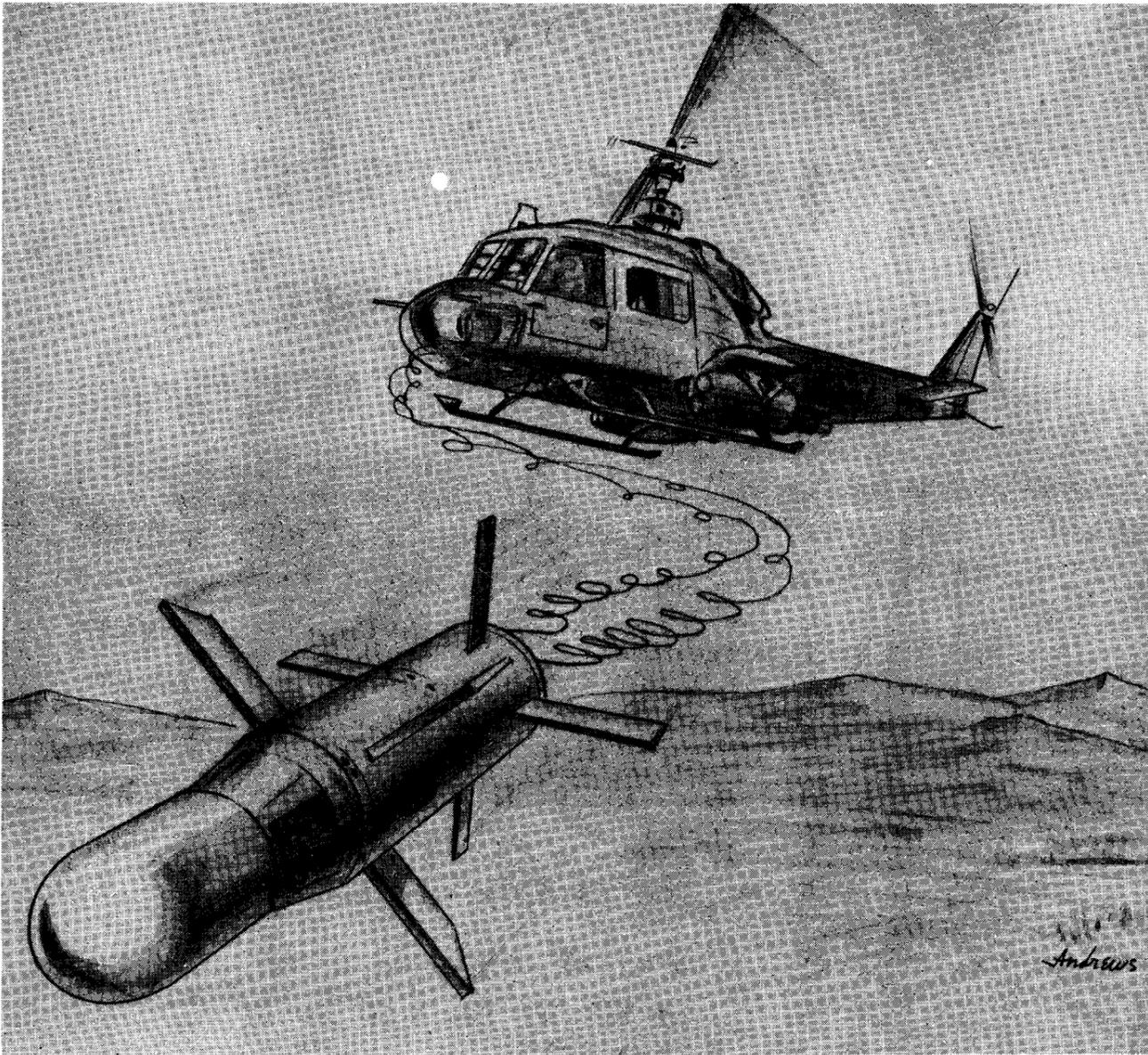
Maddox said the TOW-mounted choppers and a basic load of missiles had been airlifted to Vietnam on 24 April, indicating the ground based TOW systems had been deployed about the same time.

The UH-1B "Huey" gunships equipped with the stabilized sight, fire control equipment and launchers of the XM-26 system (airborne TOW) developed by the Missile Command and Hughes Aircraft, TOW prime contractor, and successfully tested at Redstone in firing tests during 1967 and 1968 had been participating in a test program at Ft. Lewis, Washington, when the decision was made to use them in battle.

Maddox said the two helicopters and a basic load of missiles were airlifted to Vietnam five days later. The TOW Project Office, assisted by other elements of the Missile Command and Army Materiel Command, coordinated the deployment of the airborne and ground based systems.

Pilots from the Combat Developments Command who had been flying the Hueys in the Ft. Lewis tests went with the choppers to Vietnam. None of them

(See OUR TOW GOES TO WAR on Page 4)



Eyewitness Account Of TOW In Action

During the press conference as he cited some of TOW exploits, General Maddox talked about a U.S. Army sergeant at a forward command post in Vietnam when the camp was attacked by enemy troops and tanks.

Maddox told how the sergeant, at the camp to instruct South Vietnamese Marines on Tow, quickly fired a missile that struck a radio antenna, bounced off and went on to hit and destroy the tank.

Following is an eyewitness account of that battle.

The action is described by Marine Captain Phillip C. Norton, an advisor with the South Vietnamese Marines, who wrote a letter to Infantry Magazine at Fort Benning, describing what he saw. A copy of the letter was forwarded to the Missile Command.

The letter reads:

"The TOW really works! Especially against the Russian-made T-54 tank.

"Around 19 May 72 U.S. Army Sergeant Bill L. Tillman, weapons instructor with the First Regional

Assistance Command, Republic of Vietnam, was assigned to Brigade 369 of the Vietnamese Marine Corps to instruct Marines on the Tube-Launched, Optically-sighted, Wire-guided missile.

"After two days of classes the TOW was called upon to fire against a live enemy T-54 tank. On the morning of 22 May the 369 Brigade CP was attacked by a combined tank-infantry force consisting of 9 tanks and approximately 200 troops. Sergeant Tillman quickly manned his weapon and sighted in on a T-54 at a range of 900 meters.

"Seconds later there was the unfamiliar roar of the TOW, followed by a victorious cheer, more akin to gridiron than to the battlefield, as the T-54 was engulfed in a bright orange ball of fire.

"The battle ended two hours later with all nine tanks destroyed and 117 enemy confirmed dead.

"I know that this was the first kill recorded by the TOW in the Vietnamese Marine Corps, possibly the first kill in actual combat. In any case it was a fine job done by Sergeant Tillman with a fine new weapon—the TOW."

the ROCKET

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The Redstone Rocket

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Rocket Ruminations

View yourselves
In the deceiving mirror of self love.

Philip Massinger

Answers

(Editor's Note: The MICOM Information Office conducts a question and answer program for job-related questions of general interest. Such questions may be telephoned to 876-4161 or 876-4400, or mailed to AMSMI-G. Some questions are selected for publication in the Rocket. Names are withheld. It is not intended that this program take the place of the usual supervisor-employee relationship which is the proper channel for specific job-related questions.)

QUESTION: How come civilian softball teams get better coverage in the Rocket than the Unit Level softball teams made up of Soldiers?

ANSWER: The Rocket is dependent upon the leagues to provide information from which a story can be prepared. It is always happy to have Soldier sports stories but help is needed to get them. For instance, the Civilian Softball League has a designated individual who feed in this information on a regular basis.

Black History

Three Musketeers

By Ed Beasley

Napoleon had a black general who was the son of a French nobleman and a black woman from Santo Domingo. Known as the Mulatto General, he was strong as a bull and well-known for his ability as a soldier. But he was also known for his political views which got him thrown out of Napoleon's army.

This famous black General was Alexandre Dumas, the father of one of the greatest French writers of all time, Alexandre Dumas, the Elder. He



wrote more than a thousand books, including "The Count of Monte Cristo," and "The Three Musketeers."

This black man, in turn, was the father of Alexandre Dumas, the Younger, who was considered by many of the critics of his time to be a greater writer than his father.

Alexandre Dumas . . . A name shared by three great black men of France.

Scout Troup 234 Holds Honor Court

Redstone Arsenal Boy Scout Troop 234 will hold a Court of Honor in building 3180 at 7 p.m. on July 10 according to Scoutmaster, Master Sergeant Joseph Hucal.

Five scouts, Rafael Santa Maria, Kevin Kyle, Eugene Hucal, Mike Maroon, and Mike Brown, will be awarded their Second Class badges.

Anyone interested in scouting is invited to attend the Court of Honor.

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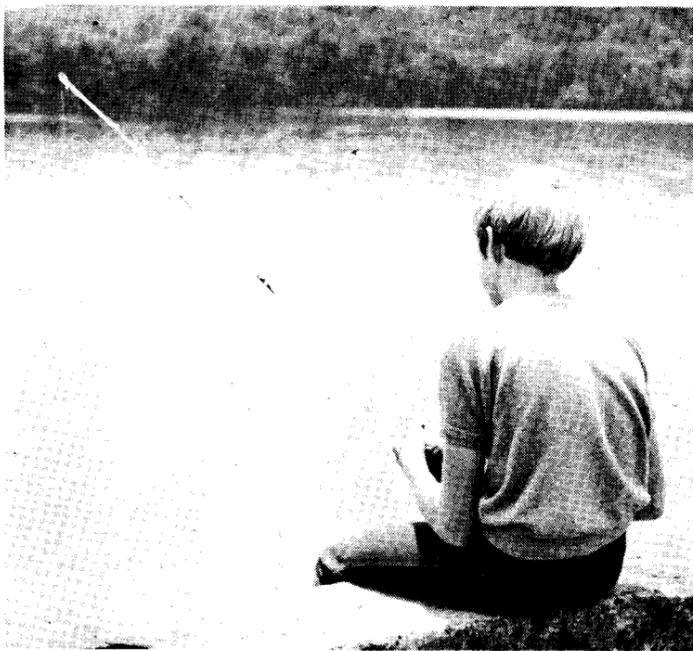
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SUNDAY-MONDAY, 9-10 July
"The War Between Men and Women" (PG)
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1969 Toyota --- Only \$850

2 Dr., good economy car.

1969 Rover TC 2000 --- Only \$1800

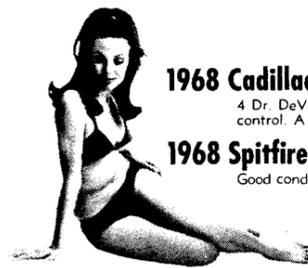
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Laser Guided Missile Tested

A sleek Cobra helicopter flashed across Redstone Arsenal Thursday and swooped down a test range where it unleashed a missile at an Army Tank.

The missile slammed the tank broadside.

It was the first airborne firing at Redstone of a laser guided missile from the Army's Cobra attack helicopter.

Flying at 600 feet, the Cobra was more than two miles from the tank when the Army gunner fired the

missile. Guided by a laser beam that was focused on the tank, the missile homed on the reflected energy and flew to the illuminated spot on the tank.

Missile Command engineers said this was the first of a series of firings to qualify the Cobra as a launch ship for laser guided missiles.

The new guidance technique, which makes possible pinpoint accuracy on tank or other battlefield targets is called semi-

active laser guidance and was developed in laboratories at the Missile Command.

Laser research is being conducted at Redstone by the Directorate, for Research Development, Engineering and Missile Systems Laboratory, headed by Dr. John L. McDaniel.

The Cobra is faster more maneuverable and presents a smaller silhouette than its predecessor, the UH1C Huey.

Stinger Contract Awarded

The Army Missile Command last week awarded the first increment of \$47.7 million to General Dynamics Corporation, Pomona, Calif., to begin engineering development of a new man-portable air defense system named Stinger.

Colonel David H. Souser, Stinger project manager, said General Dynamics during engineering development will design, fabricate and test the shoulder-fired plane killer. This stage of development normally precedes production and deployment of an Army weapon.

General Dynamics got approximately \$7 million Tuesday. Remainder of the contract will be spread over several years.

Stinger, which became a project office earlier this year, is the first to be established at Redstone since 1965.

The new weapon system, which incorporates the latest in infrared technology by utilizing research evolving from several years of development efforts, will be able to counter more sophisticated aircraft threats.

A high performance propulsion system and an advanced guidance technique have been designed, fabricated and flight tested which give Stinger a longer range and higher velocity. Other possible features include a device to identify aircraft.

H. Hoyt Harris, a civilian who directed the Stinger program through earlier research and development, is deputy project manager.

The Missile Command's Procurement and Production Directorate, headed by Col. J. T. Haynes, negotiated the contract for the Army.

Retirees Soar In June

Civilian personnel retirements in Army organizations serviced by the MICOM Civilian Personnel Division were exceedingly heavy during June.

As of press time last Friday 150 retirement actions had been signed.

Due to the Rocket's early deadline this week and last minute changes being made by retirees before the July 1 deadline for the cost-of-living annuity advantage, it is impossible to publish names of those retiring this week.

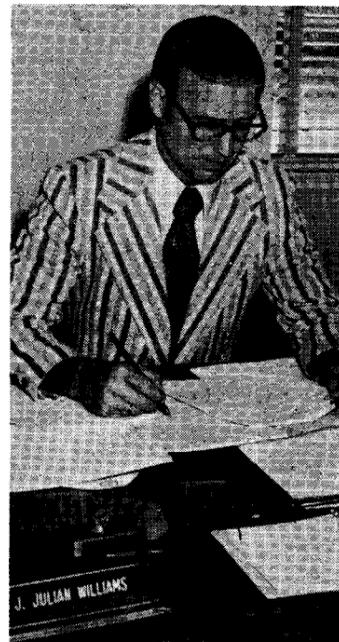
The Rocket is planning to publish a full list as soon as it is available.

MICOM Briefs Flag Officers

Major General Edwin I Donley and members of his staff briefed retired officers of flag rank who live in the Huntsville area last Friday on current Missile Command activities.

This was begun last year as a part of the MICOM Command Information Program.

The schedule included Manpower and Funding, TOW in Vietnam, the Army Drug Program, Future Missile Technology Research and a firing.



J. J. WILLIAMS

Williams Succeeds Aycock

Julian J. Williams has been named to succeed Lewis L. Aycock as deputy chief of the Finance and Accounting Division.

Aycock has retired.

Williams has been chief of the Appropriations and Accounting Branch. He joined the Missile Command in 1964 after teaching accounting at Mississippi State for seven years.

He said he hopes the teaching experience will also aid him in his present position. "Teaching is one of the best professions any man could ever enter into" he said. "You deal with people. I hope that I can always be sensitive to their feelings and be a good leader."

Williams hopes to apply the same principals he used to mold the winningest slo pitch softball team to several successful seasons. "Each player was good" he said. "Together, they were great."

In taking up his new duties, Williams expressed the hope that the operation would continue to operate as smoothly and give the same service to the three separate major commands and five separate activities.

"We follow our own rules and regulations and adapt them to the rules spelled out by the managements we service. Everyone in here from the management level to the working level has to be adaptable to constantly changing conditions."

Williams does not regard the job as so much paperwork. He approaches it with the same attitude he taught: Not every student planned to be an accountant, but each had a need for some knowledge of the subject so he tried to present the subject in a way that would benefit all.

Williams is from Tchula, Mississippi and earned a B. S.

degree and an M. A. degree at Mississippi state.

"I regard every piece of paper that crosses my desk an action that will effect individuals somewhere," he said.

Military Retirees Heavy

Twenty-seven military men scheduled retirements June 30 at Redstone Arsenal.

The Missile Command had the greatest number: 12. The Missile and Munitions Center and School lost 10; The Medical Department and the Safeguard Systems Command each had two retirements and the Safeguard Logistics Command lost one.

The following individuals were scheduled for retirement:

COL James W. Ferguson, COL James W. Goodwin, Jr., LTC Robert D. Bayne, LTC Robert A. Boxell, CW3 Joseph B. Keegan, CW2 Lindsay R. Ellington, Jr., CW2 Curtis Payne, CW2 Wilfred B. Theberge, SGM Dudley C. Berryman, Jr., MSG Ray H. Britton, MSG James O. Hardin, MSG William J. Stoner.

SFC Samuel W. Anderson, SFC Bertram M. Bowns, SFC Donald Fulgham, SFC H. D. Griffin, SFC Donald E. Rowe, SFC Robert L. Williams, SFC Edward R. Swann, SSG John H. Cornelison, SSG Rodolfo Fernandez, SSG William W. Weaver, SSG Robert G. Wilson, SSG James J. Ehland, SP6 John G. Mulhauser, SGT Arthur C. Arsenault.

Manager Named To Special Items

Lieutenant Colonel Hal C. Bennett, Jr. is now the Land Combat Special Items Manager for the Army Missile Command.

He came here from an assignment in the Department of the Army Office of the Assistant Chief of Staff for Force Development where he served as a systems staff officer.

Bennett has served as a commander of a Pershing battalion and was with the missile system evaluation group at Ft. Sill when the system was first being fielded.

He has been closely associated with many of the officers and civilians at the Missile Command although this is his first assignment at Redstone.

A native Alabamian, he has taken some graduate work at the University of Alabama where he earned his B.S. degree. Daughter Debbie is a 1972 graduate from the University and Lisa begins her studies there in the Fall.



HAL BENNETT

Clay will attend junior high school in Huntsville.

Arsenal To Convert Its Boilers To Gas

Army engineers expect to call for bids Friday to convert boilers in Redstone Arsenal's steam plants from coal-fired to a system burning natural gas as a primary fuel and fuel oil as a secondary means of operation.

The Mobile District of the Corps of Engineers plans to open bids on August 8. Work on the \$2.5 million project will begin as soon as the contractor has been selected.

Conversion to the new method of firing the boilers which provide steam to heat all major buildings on the Arsenal will bring the Arsenal plants well within state clean air standards. The coal-fired boilers emit pollutants in excess of state clean air standards, a situation the Army has advised the state it is moving to correct.

Despite Assurance

Despite the Army's assurance that it will comply with state standards, the State Air Pollution Control Commission last week asked the Attorney General to begin legal action against TVA and the Army for failing to comply with state law. The commission wants a court test of its right to compel both federal agencies to file for permits to operate equipment which release pollutants into the air.

The Judge Advocate General of the Army has told Army commanders in the state not to apply for permits to operate, contending a constitutional issue is involved.

In addition to citing Redstone Arsenal's steam plants, the State Commission wants Ft. McClellan

and the Army ammunition plant at Childersburg to obtain state permits to operate certain equipment.

MICOM sought funds to convert the Redstone steam plants in 1969. Congress appropriated the funds as part of the FY 72 budget.

The work will extend over two winters, but by converting individual boilers in the main plants - Bldgs 4725 and 3624 - emission of pollutants will be reduced as each boiler ceases coal fired operation. When conversion is complete, the third, smaller steam plant now in use, will be shut down.



SEE FIRING—Retired general officers from the Huntsville area took a close up look at the target after watching a laser guided missile fired from a helicopter score a direct hit last week. (L-R) BG Ivey O. Drewry; BG George H. McBride, MG John A. Barclay; Rear Admiral Harold S. Harnly (wearing hat); Russ Gambill of RDE & MSL; MG Edwin Donley; LTC R.L. Coon of RDE & MSL and MG William R. Calhoun.



TOW ON ITS WAY—Stopped by the camera as it clears the launcher, a TOW missile speeds downrange during a development test firing at Redstone Arsenal. TOW has

been credited with knocking out 65 targets, including tanks and armored vehicles, during 81 firings in Vietnam.

Our TOW Goes To War

(Continued From Page 1)

"It's very simple," the general said. "You turn the helicopter in the general direction of the target and launch, then you can break away and track the target with the stabilized sight."

He said the tank he hit was engaged at a range of about 2800 meters. "As far as I could tell, the missile hit right on the turret," he said. "We did not overrun the target. The tank caught fire."

In another instance, he cited, one of the TOW choppers investigated a suspicious, tree-covered island which appeared overnight in a shallow river near Kontum. Launching a missile, the helicopter crew blasted away some of the brush, saw that it covered a T-54 tank and knocked it out with a second TOW.

Maddox said a few of the missiles launched in combat had malfunctioned adding that several other "misses" occurred when the helicopter crews exceeded the limits of the TOW system.

In one of the early actions, for example, he said the helicopter which does not have a range finder, launched the missile at a range of more than 3,000 meters, and lost it when the steel wires connecting the missile to the guidance system in the helicopter ran out at 3,000 meters.

He repeatedly praised the accuracy and reliability of the airborne TOW telling newsmen "the pilots like it. It has definite user acceptance."

Maddox said the TOW would be mounted on Cobra gunships and would also be used on the advanced attack helicopter.

Summarizing what he had observed of the role of Army aviators and their attack helicopters in supporting the South Vietnamese, Maddox said:

"A major new dimension has been added by their now proven combat effectiveness using the TOW missile against modern tanks as well as against other important point targets. With so few having proven so effective in Vietnam, it is now possible to visualize more clearly, the great anti-tank potential which far larger numbers of modern attack helicopters and TOW missiles would bring to a modern American division."

had ever fired a TOW. Each fired a single training and qualification round, Maddox said, stressing the simplicity and ease of operation of the airborne system, before the helicopters went into action at Kontum to meet an expected armor threat.

Supporting the South Vietnamese defenders of the provincial capitol in bitter fighting in and around the city, Maddox said that as of June 27, the two attack helicopters had fired 81 TOW missiles in combat and scored 65 direct hits on point targets, including armored vehicles, howitzers, trucks, machine guns and 26 tanks including the Soviet built T-54 and U.S. made M-41, several of which had been captured by the enemy in earlier fighting and used by them in the attack on Kontum.

He gave this account of a single day's action:

"At Kontum on 26 May . . . gunships were scrambled at 0615 to fire against an enemy tank formation which was penetrating the eastern portion of the city, then surrounded and cut off. In the ensuing battle, 10 of 12 enemy tanks and tracked vehicles were destroyed by helicopter fire. This action undoubtedly contributed to stopping a strong enemy thrust. It demonstrated the surgical nature by which attack helicopters can eradicate specific enemy targets . . ."

Maddox said the older M-22 system which mounts the SS-11 missile on helicopters had also been used in recent fighting near Hue and credited it with three tank kills.

The general, who gave newsmen his personal observations from a 10 day visit to all four military regions in Vietnam during mid-May, said he had been strongly impressed with two major lessons:

"The Army attack helicopter has played a key role in the current campaign which began 30 March . . ."

"The Army has fielded for the first time, a highly effective aerial anti-tank weapon. This is the TOW missile . . ."

Describing the operation of the airborne TOW system, Maddox said he had scored a direct hit on a tank at Kontum about 19 May.

Combat Marks Army First

Combat use of the TOW system in Vietnam in the past two months marked the first time the Army has fired American developed guided missiles in battle.

The first combat firings of Army missiles occurred during the Six Day War in 1967 when the Israelis downed several aircraft with Hawk missiles.

Both Army and Marine Hawk battalions were deployed in Vietnam but were never required to fire in combat.

American soldiers fired some French-developed ENTAC wire guided missiles early in the Vietnam war.

MICOM-developed helicopter rocket launchers firing the 2.75 inch rocket have been in combat with Army units in Vietnam for several years. Tank kills were scored in the fighting around An Loc by Army gunships firing 2.75 rockets carrying a new dual purpose warhead.

The MICOM-developed Light Anti-Tank Weapon, better known as the LAW, has also been widely used in Vietnam by both American and South Vietnamese forces. The latter have scored many tank kills with LAW in recent fighting.

Airborne TOW Came From Redstone

Only yesterday it was all a GI could do to throw a two-pound grenade 90 feet.

Then in the early 60s, the Army Missile Command began to develop a weapon that could hurl a 40-pound missile two miles, hit with bullseye accuracy, and destroy whatever it hit. They called it TOW.

At that point the Army, looking for ways to improve firepower and battlefield mobility, decided to adapt missiles and rockets to helicopters.

One of the biggest problems involved in firing missiles from helicopters was stabilizing the line of sight from the chopper to a point target. MICOM chose competing contractors, Hughes Aircraft Company, TOW prime contractor, and Aeronutronic Division of Philco Ford Corporation, Shillelagh prime contractor, to work on a solution.

In December 1963, MICOM awarded initial contracts to both companies to design, fabricate and install a stabilized sight on the UH-1B helicopter that would solve the problem of firing TOW or Shillelagh missiles from the air.

Frankford Arsenal, under MICOM direction, tested the competing stabilized sights. At the same time, MICOM evaluated both contractor designs for a tactical system.

After extensive tracking exer-

cises at Edwards Air Force Base, the Hughes design was selected and in 1965, MICOM was authorized to develop the XM-26 airborne subsystem using the TOW missile.

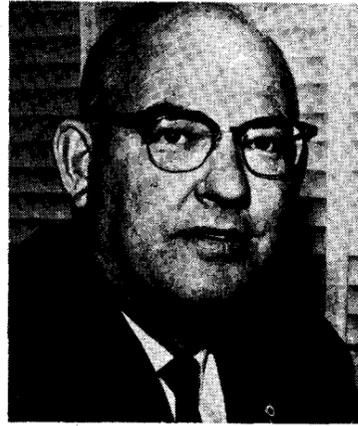
In the next three years, MICOM conducted an extensive firing test program at Redstone. Altogether, 60 missiles were launched from UH-1Bs. Test results confirmed that the missiles could be fired accurately from a helicopter.

Engineering design phase of the program ended in July 1968 and the program was halted short of engineering-service test when the Army decided to use TOW as part of the armament system on Cheyenne advanced attack helicopter.

Hughes delivered several complete sets of TOW control equipment for engineering design testing. Two of the systems - installed in UH-1Bs - were being used in tests at Ft. Lewis, Washington, when MICOM was ordered in April to ship them to Vietnam.

The Army awarded an R&D contract in March to install TOW on the Cobra attack helicopter.

General William J. Maddox, Jr., told newsmen in Washington last week that TOW will be used on the Cobra and also on the advanced attack helicopter the Army plans to deploy.



BILL ROTENBERRY

Pioneer TOW Planner Dies In Huntsville

William C. Rotenberry, 52, who played a key role in adapting the Army's TOW missile for firing from helicopters, died June 28 in Huntsville Hospital after a short illness.

The previous day the Army had officially confirmed that the air launched TOW system had proven extremely effective in its first combat use in Vietnam.

Rotenberry, who retired as Commodity Manager of Aircraft Weapons at the Army Missile Command in June 1970, lead the group responsible for adapting the TOW system, originally designed for ground launch, for firing from helicopters. The program culminated in a highly successful series of air to ground firings at Redstone Arsenal in 1967 and 1968 which proved the effectiveness of the airborne TOW.

When he left government service at Redstone, Rotenberry told an interviewer that adaption of missiles and rockets to helicopters was the most interesting and potentially promising project he had worked on in his 28 years of government service.

"That represented a whole new concept for the Army and gave us mobility and firepower we've never had before," Rotenberry said.

Born in Birmingham, Rotenberry grew up in Huntsville and graduated from Huntsville High School in 1937, then received his engineering degree from Auburn in 1941. He served in the Army in World War II, began work at Redstone in July 1950 just as the Army began to build up missile and rocket activities here.

His many civic interests centered around the Huntsville Exchange Club of which he was an active member and former president. He was also a former president of the Alabama Exchange District, at the time of his death secretary-treasurer of the Alabama District, a former district governor of the national Exchange organization, and last year was named outstanding Exchange by the Alabama District.

He had been operating his own insurance business since his retirement. He and his wife, the former Louise Thrash of Selma, lived at 1203 Westmoreland Ave. He is also survived by two sons, Robert of Jacksonville, Florida, and William of Atlanta and his mother, Mrs. Leona Eady of Huntsville.

Funeral services were held last Saturday. Burial followed in Maple Hill cemetery.



TOW FIRST—Members of the TOW Project Office flash the Number 1 sign last week after learning TOW was

the first Army missile system to be fired in combat by American soldiers.

Softball Results

Military Civilian

As unit-league softball moved into July, MICOM and UTC appeared to be turning their division races into runaways.

American Division

In American Division action, MICOM stretched its record to 9-0 by blasting the 200th Ord. Det., 11-1. The 291st MPs picked up their fourth victory of the season by halting the Medics, 16-3. Dave Lenhart scored four times as "C" Company scored 10 runs in the third inning enroute to a 13-1 cakewalk over the MPs.

National Division

Division leader, UTC, led by Bruce Barham's clutch hitting, racked up its 13th victory without defeat by conquering Safeguard, 9-6. Chris Hiatt collected three hits in as many at bats in leading the 6th ETC to a 12-9 win over the 9th ETC. In a high-scoring battle, Danny Wyrick socked a double, triple, and round-tripper in pacing his 3rd ETC teammates to a 24-0 triumph over 9th ETC.

In other National action, second place "A" Company, led by the hitting of William Brown, skunked the Marines, 24-4, after having outlasted the 4th ETC earlier in the week, 12-10.

STANDINGS AMERICAN LEAGUE

	W	L
MICOM	9	0
C Co.	7	4
Medic	5	6
1st ETC	4	5
291st MP	4	6
200th Ord.	4	6

NATIONAL LEAGUE

	W	L
UTC	13	0
A Co.	9	4
4th ETC	8	5
Safeguard	7	6
9th ETC	4	7
Marines	5	8
3rd ETC	3	8
6th ETC	3	10

MICOM

Skeeters Downed

Twas no fault of Pat McIngvale who shot two perfect 50s in the skeet shoot last week that the MICOM Reds went down three points to the MARS shooters.

The MICOM Blues against Boeing fared better, 2-1. Bill McCorkle turned in the best score on the Blues team with a 48.

At the next shoot the Reds and Blues will compete against each other.

The Civilian Welfare Slo-pitch Softball League stayed close with the MISD team maintaining a one game lead over MAT MGMT after this weeks action.

MISD scored a 19-5 victory over COE. John Roberts and Russ Ward led the attack with three homeruns and Randy Sumner had three singles and a double.

Bruce Coker, MISD pitcher, picked up his 11th win against no defeats.

Dave Cassady was the loser.

MAT MGMT had to come from behind to win a 12 to 10 decision over Metrology. Steve Reed had four for four at the plate for the winners while Jim Poules and Dewey Wilson helped with three hits apiece. Linden Calvert picked up the win.

Billy Medlock and Bill McCormick paced the Metrology team with three hits each in the losing effort. Don Agner was the losing pitcher.

MIA won a close game with GEM, 12 to 9 to hold a third place tie in the league with COE.

Mel Thomas led the way with a double and a triple, Gary James chipped in with three singles and Jack Harris hit a homer in the winning effort.

Curt Gentry was the winning pitcher.

Bob Fletcher was the big gun for GEM with a two run shot in the seventh that kept the game close. John Chipser took the loss.

Norn Hernon had a hitting spree with five straight hits to lead the SAFLOG team to a big win over MSL Systems 20 to 10. Ben Pessell and Bob Bryant hit inside-the-park homeruns to help Jack Bowen take the win.

Tom Shirley had four hits for times at bat, but Tom Johnson took the loss for MSL Systems.

HOW THEY STAND

	w	l	pct
MISD	13	1	.929
MAT MGMT	12	2	.857
MIA	9	5	.643
COE	9	5	.643
METROLOGY	7	7	.500
GEM	4	10	.286
SAFLOG	2	12	.143
MSL SYSTEMS	0	14	.000

German Mass

A (German) Catholic Mass will be conducted at the Post Chapel on July 6 at 7:30 p.m. by Chaplain Friedel, German Military Chaplain from Washington, D. C.

All military personnel and their dependents are cordially invited to attend.

MICOM Girls Lose One

The Missile Command girls softball team continued its inning ways—but not completely. They finally lost a game.

Arab took a tough 8-5 decision from the MICOM nine despite home runs by Cathy Leeth and Glenda Kidd. Leading hitters for MICOM were Leeth who was two for four, Kidd two for three, and Donna Whitmier two for three. Gladys Hill was the losing pitcher.

In the second game of the Arab double-header, MICOM avenged the loss by taking a high-scoring 15-14 verdict. Behind 14-12 in the bottom of the seventh inning, Jeanne Hayes hit a two-run homer to knot the score. Then, with two out, Cathy Leeth hit a solo shot for the winning run.

Ruth Crisp was four for four, Glenda Kidd three for four, and Barbara Ikard was three for five—including a double—to lead the hitting attack. Long-distance slugging was provided by Jeanne Hayes and Cathy Leeth, each with two round-trippers. Picking up the victory was Sarah Fisk.

In the other game of the week, MICOM shut out Automatic Electric 4-0 in an Industrial League game. Hitting support was provided by Jeanne Hayes and Glenda Kidd, each going two for three. Gladys Hill was the winning pitcher.

Ink Spots Due

The Ink Spots, well known entertainers, are coming to Redstone Arsenal at the Post Service Club July 9.

These musicians have long been identified with ballads and sentimental type songs. However, they have now developed a new style which is as hot and alive. Show time is 8 p.m.

HAIRCUTS

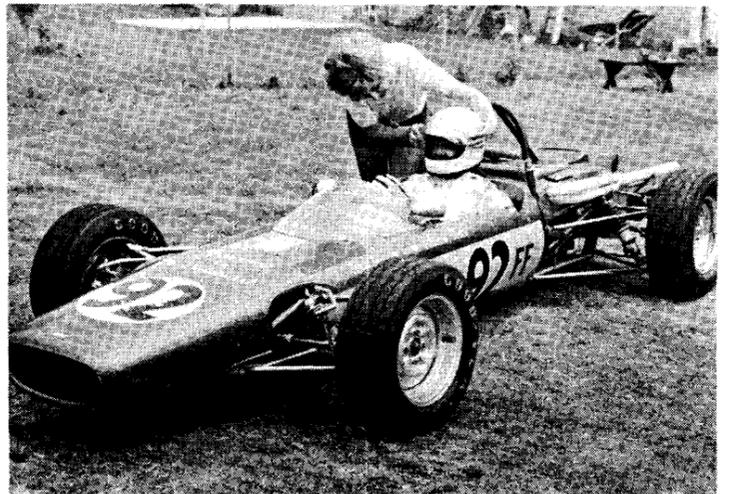
\$1.00

Sharp's Barber Shop

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Saturdays 8 a.m.-5:30 p.m.

Holiday Plaza Shopping Center

Corner Bob Wallace and Patton



WANTS TO RACE—Ralph Kay, an electronics engineer with the Army Missile Command, has a baby blue formula Ford racing car in his backyard. In his spare time he works on it and on weekends he travels to regional races so he can qualify for his Sports Car Club of America national license. Kay's wife Liz, shown adjusting his helmet, is training to be his pit crew along with their 16 year old son, Tommy.

All-Stars Compete At Rucker

Babe Ruth All-Stars will compete in the Southeastern Military Baseball Tournament at Ft. Rucker July 11-14.

The Redstone Arsenal team is composed of military dependents between ages 13-15 who have fielded two teams in the Huntsville City League this year. Their first game will be against Rucker for

the District one championship. Other teams to be faced are from Ft. Benning and a combined team from Maxwell and Gunter Air Force Bases.

Head coach is Frank Smith with assistants SP4 Joe Santelle and SP4 Gregg Grosser. If the team wins, it will be host to the winners from District 2 in Florida.

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12TH BIRTHDAY
Saturday, July 8th

Come see us, we will dress in overalls and old fashion dress.

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Lunch from McDonald's included.

Stanford Diagnostic Math Test given.

Testing By Appointment.

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Let Us Revive The Luster
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And A New Hair Style. . . .

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Quick's Beauty Salon

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AMC Commends F&A On Low Errors

"They've done a fabulous job", said Major General Edwin I. Donley, Commanding General, Army Missile Command, as he read a letter from the Army Materiel Command congratulating Redstone Finance and Accounting Center personnel for their low input card rejection rates into the Joint Uniform Military Pay System (JUMPS).

The letter praised F&A personnel for the low rejection rates of 1.8 percent for April 1972 and 1.6 percent for May 1972, when the AMC average rates for the same period was 5.3 percent and 5.4 percent. The Army-wide average error rates for these months was 9.1 percent and 7.4 percent which put Redstone in the group of installations having the fewest errors.

Last August Redstone was the first installation to convert from the Army's old military pay voucher system to the new computerized JUMPS. Of the approximately 20,000 cards submitted to the computerized system at the Army Finance Center at

Fort Benjamin Harrison, Indiana, Redstone had only 11 cards rejected.

PEOPLE WORKED

Lieutenant Colonel Thomas W. Fitzgerald, F&A Officer, had these comments:

"Our people have worked very hard to keep the error rate so low, but we couldn't have done the job so well if we hadn't had outstanding command support. When we needed overtime, we got it. Such command support made our job easier."

Mrs. Marietta Graves, Chief, Pay and Exam. Branch, made this statement:

"Our pay clerks are responsible for the low error rate. During the past year they have worked long hours which frequently involved 12 hour days and seven day weeks. It has been a team effort with civilian and military pay clerks working together to do the job. Though we are being congratulated for our low error rates in April and May, we expect the rate to be even lower in June."

Aycock Receives Third MCS

Lewis L. Aycock, deputy chief of the Finance and Accounting Division received the Meritorious Civilian Service Award Friday, the day he retired, for the third time.

No other Missile Command civilian has earned the honor three times.

The citation reads: "As the deputy finance and accounting officer... from July 1965 to June 1972, Mr. Aycock contributed greatly to the success of the command's financial management program through unusual technical competence, dedication, and inspirational guidance."

"Under his leadership, the Finance and Accounting Division, Controller, attained recognition in the financial management program not heretofore achieved. His contributions resulted in an increase of service to the Missile Command, and are worthy of official recognition."

Thank You

Mary S. Lanza and her family thank the 25 blood donors who contributed blood for Jasper Lanza during the recent visit of the Red Cross Bloodmobile.

operation. Mrs. Lanza is employed in the Station Supply and Stock Control Division of the Redstone Arsenal Support Agency.

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TOWING AND WRECKER
SERVICE

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8:00 A.M. to 5:30 P.M.

— WEEKDAYS

8:00 A.M. to 12:00 NOON

— SATURDAYS

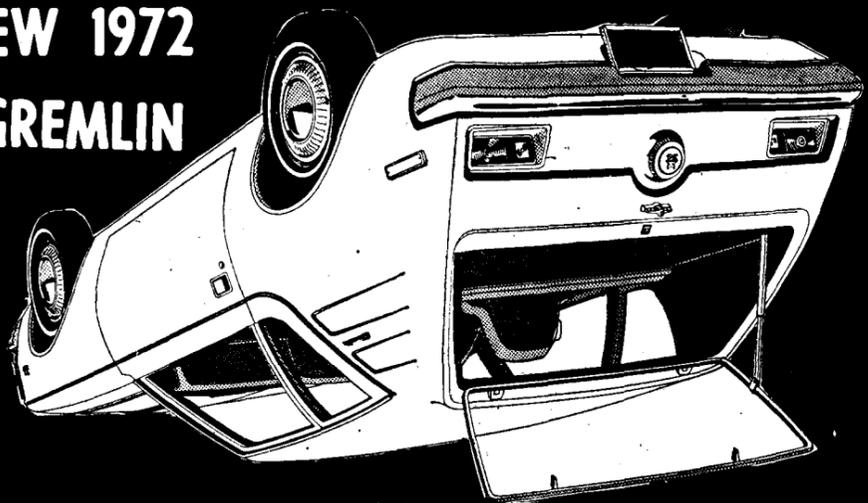
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AMERICAN MOTORS CARS AND JEEPS

(SERVICING DEALER FOR RAMBLER)

Governors Drive Between The Hospitals — 539-5125
SALES DEPT. OPEN 8 A.M. TO 9 P.M. WEEKDAYS, 8 A.M. TO 7 P.M. SATURDAY
SERVICE DEPT. OPEN 7:30 A.M. TO 5 P.M. WEEKDAYS



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"BRANDED"

SOLID VINYL SIDING

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FIRST PRIZE: 10 SQ. BRANDED VINYL SIDING
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SECOND PRIZE: 10' X 20' VULCAN CARPORT!

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SHUTTERS!



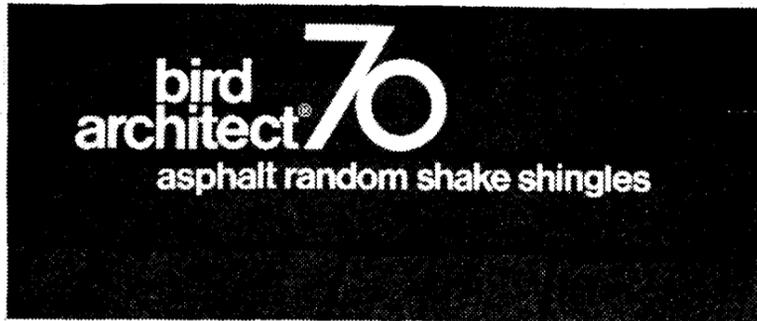
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DECORATOR COLORS

- ★ VINYL SOFFIT
- ★ VINYL FASCIA

- ★ ALUMINUM SIDING
- ★ SHUTTERS
- ★ GUTTERS



- ★ ALUMINUM SOFFIT
- ★ ALUMINUM FASCIA
- ★ TRIM SHEET

- ★ CARPORTS
- ★ PATIO COVERS
- ★ BOAT COVERS



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- ★ AWNINGS

— by *Vulcan*

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DRAWING WILL
BE SAT. JULY
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Do Not Have To Be Present To Win.

PLENTY OF PARKING IN REAR OF BLDG.

MMCS Announces July Hail-Farewell

The MMCS Bimonthly Hail and Farewell will take place from 7 p.m. to midnight on Friday, July 21, at the Officers Club.

All officers, warrant officers, and civilians of grade GS 9 or above are invited to attend with their wives and guests.

The theme for this gala affair will be "MMCS-Yesterday, Today,

and Tomorrow." Of special interest will be the honoring of Colonel Gilbert Levy, commandant of MMCS, and Colonel Thomas Jones, School Brigade commander.

There will be a receiving line from 7 to 7:30 p.m. Sign-up sheets are available in branch offices.

Redstone News For Dial 112

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THE SIDEROD SHOP

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It pays to advertise. In the June 14 issue of the Redstone Rocket, Captain W. T. Roberts of the Safeguard Logistics Command, asked for someone to volunteer to take his position as chairman of the Redstone Youth Sports Program because he was being reassigned.



TAKES COURSE—C. Q. Lyles, an electronic engineer assigned to the MICOM Targets Special Items Management Office, recently completed a post graduate level Project Management course at the Defense Systems Management School, Fort Belvoir, Va.

YSP Here Has New Chairman

On the very same day, Captain R. T. Campbell, also assigned to SAFSCOM, volunteered and took over as new chairman of the YSP. Though Campbell's children are

pre-school age and not involved in the YSP yet, he was a basketball coach with the program last year. The new YSP chairman can be contacted by calling 895-3960.

Wedding Bells are ringing for You

Your radiance glows on this day. Your gown, a lovely vision.

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air, power, vinyl roof, sharp.
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2 door, hardtop, air, power.
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Air, power, rack.
- ☆ '67 GTO \$1595
Air, automatic, 5 mag wheels, wide tires.
- ☆ '66 DODGE POLARA \$895
4 door, automatic, air, power, nice.
- ☆ 1970 PONTIAC GRAND PRIX J \$3295
Dark green, vinyl top, all power and air.
- ☆ 1970 CHEVY MONTE CARLO \$3245
All power, air, dark green with vinyl top.
- ☆ 1970 CHEVY MALIBU \$2675
2 dr. hardtop, air, power, vinyl roof.
- ☆ 2 — 1971 PINTOS by Ford \$1595
4 speed, radio.
- ☆ 1972 CHEVROLET IMPALA \$3695
2 door hardtop, air, power, 5,000 miles.

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1970 DATSUN 510 SEDAN
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Clementine, radio.
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Blue with white top, a nice wagon.
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Pop-top, red, 2 burner stove.
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Light blue, automatic.
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With pop up top, radio, gas heater.
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Automatic, stick shift, light blue, radio.

WE HAVE A BEAUTIFUL STOCK OF VW SEDANS
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“I’m ahead in the Army.”

Sergeant Mike Kelly may not get rich in the Army but he’s not doing badly.

“I like the way the Army is coming up with the money situation. The bonus, definitely. I got \$10,000 and 30 days for six years. Picture me with that much money.

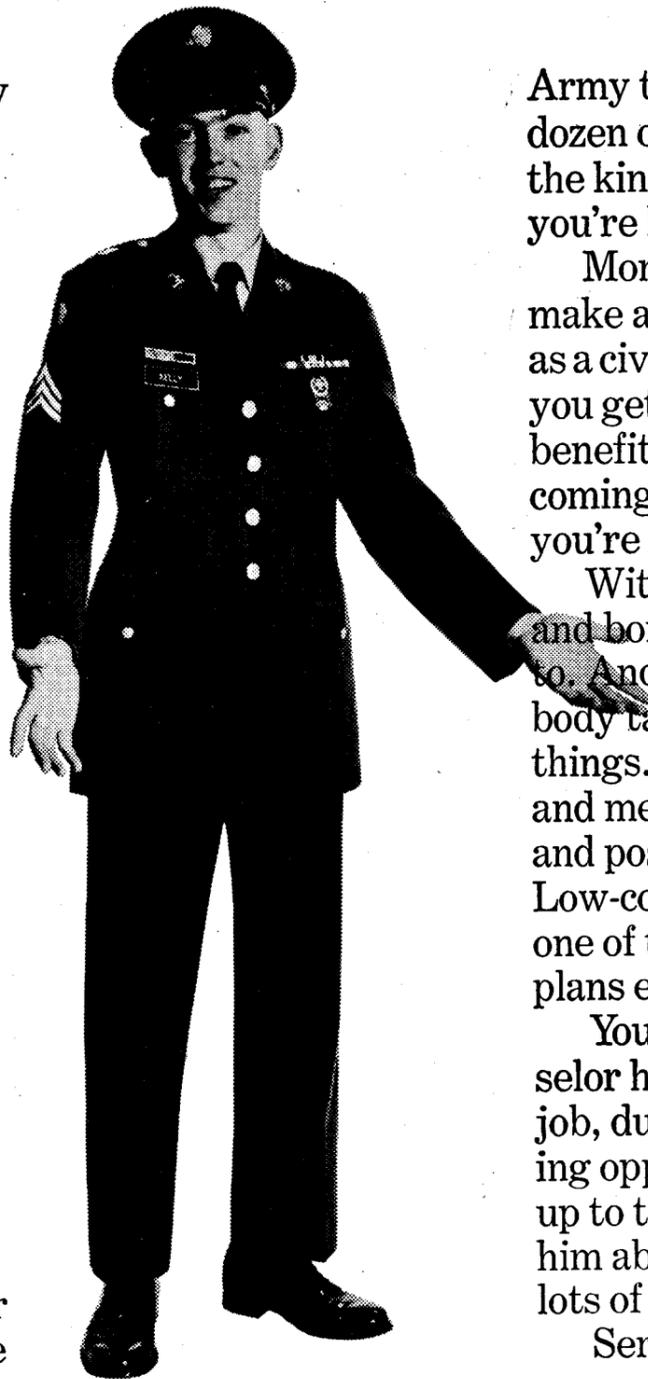
“I wanted to do something different. And the Army said okay. So I picked radio mechanic and got it.

“There’s the other benefits too. Free medical care. Dental work. Any legal assistance.

“And I have lots of time to do the things I want. And That’s not bad.”

Sergeant Kelly figures the Army offers just about all the things a man needs.

Plenty of opportunity for job satisfaction. With all the hundreds of jobs in the



Army there’s bound to be a dozen or so that’ll give you the kind of self-fulfillment you’re looking for.

Money. You’d have to make almost twice as much as a civilian to duplicate what you get in Army pay and benefits. And the checks keep coming. Steady. Whether you’re sick or well.

With regular promotions and bonuses to look forward to. And you also have somebody taking care of everyday things. Like housing. Dental and medical care. Commissary and post exchange privileges. Low-cost life insurance. Plus one of the best retirement plans ever made.

Your Army Career Counselor has a whole book of job, duty station and training opportunities that add up to the good life. Talk to him about it. He’ll give you lots of reasons for staying in.

Sergeant Kelly has good reasons for staying in.

Why are you staying in?

**MISSILE & MUNITIONS
CENTER & SCHOOL**
NAMES IN THE NEWS
By SFC Wilfred Gileau

Awards

Staff Sergeant Benjamin R. Straub, assigned as an instructor in the Ammunition Department, MMCS, was awarded a Certificate of Achievement on June 26. The award covered the period August 29, 1970, to June 26, 1972. Straub is being reassigned to the 144th Ordnance Company, Direct and General Support, in Germany.



STRAUB BELT

Captain Michael J. Belt, Management and Special Training Department, MMCS, was presented the Bronze Star Medal on

June 28, for outstanding meritorious service in the Republic of Vietnam from September 1971 to April 1972.

Captain Paul H. Rittmuller, Chief, Literature Branch, MMCS, was presented the Bronze Star Medal on June 28, for meritorious service in the Republic of Vietnam from June 1971 to April 1972, while serving as Ammunition Operations Advisor to the 55th Ammunition Group, Advisory Team II, MACV.

CW3 Carrol G. Wells was presented a Certificate of Achievement from the Defense Nuclear Agency for outstanding performance of duty while assigned as an Instructor and Chief, Tester Maintenance Army II Section, Joint Electronics Training Division, Nuclear Weapons School during the period August 1971 to March 1972.



RITTMULLER BRITTON

MSgt. Ray H. Britton, Co. B, School Brigade, MMCS was awarded the Army Commendation Medal for meritorious service on June 30. Britton is an instructor in the Pershing Div. of Land Combat and will retire with 20 years' service in October.

Retirements

The following individuals assigned to the Missile and Munitions Center and School retired on June 30:

C. J. Bartkoviak, chief, Vulcan Branch, DOI, retired with 24 years service. Bartkoviak has served in the Nike/Ajax, Nike/Hercules, HAWK and Vulcan/Chapparral branches during his tour at MMCS.

Ernest E. (Ed) Wysong, Training Specialist in the Office of



OSWALT WYSONG

Doctrine Development, Literature and Plans, retired with 30 years service (ten at MMCS). He and his wife, Pat, have purchased a small motel in Florida and invite their Redstone friends to vacations with them.

L. B. Oswalt, Deputy Director of Instruction, retired with 30



RYALS LAMB

years of service. Oswalt was presented with an Army Decoration for Meritorious Civilian Service by Col. Gilbert P. Levy, School Commandant. The ceremony was



LAMB

held in the office of the Director of Instruction.

SOM

Sp. 4 Kenneth D. Ryals, H. and Hq. Co., Unit Training Command has been selected at UTC's Soldier of the Month. He is an instructor in the EOD Branch. Ryals will compete against the 1st and 2nd Battalions' SOMs for Post Soldier of the Month.

Ammunitions Dept

MAJ Warren F. Hodge was honored by employees of the Department with a luncheon at the Jade Pagoda, Tues., 27 June. He is leaving to attend the Command and General Staff College, Ft. Leavenworth, Kan. MAJ Hodge has been assigned here for 2 1/2 years. Tech. Ammo. Div. and Admin and Opns. Div. employees presented him with a 22-inch metal Viking ship as a memento of his service as their Chief.



WILLIAMS HEMINGWAY

from Picatinny Arsenal, N. J. They are instructors in the 55x40 course.

CWO-2 H. J. Hemingway was reassigned from the 227th Ord. Co. here to be chief, Records Branch, General Ammo Div.

General Ammo Div, Storage Br.

Tech Ammo Div Inspection Branch

Two employees were awarded certificates of achievement for outstanding performance of duty last week. SFC George Williams, Jr.'s was for period 15 September 71 to 20 August 72 and SSgt. B. R. Straub's was for period 29 August 70 to 26 June 72. Both are instructors and will be reassigned to Germany. Maj. Hodge made the presentations.

New arrivals in the Branch are: SSgt. Alvin L. Lamb and Mr. K. A. Thompson, GS-11. SSgt. Lamb came from 28th Ord. Co., Special Ammo, USAREUR, Germany and Mr. Thompson came

SSgt. J. R. Hufstetler, SSgt. D. S. Elsberry and SSgt. H. E. Kinch, Jr. were awarded certificates of completion of the 4514 Ordnance Officers Ammo course on 29 June. The course was by correspondence. SFC Hufstetler on 30 June will attend the Improved HAWK Missile course here at MMCS. Three enlisted men of the Department are congratulated on their recent promotions. They are: MSgt. A. L. Samson, date of rank, 22 May 72; SFC A. J. Jackson, date of rank, 10 May, 72; and SFC W. M. Manley, date of rank, 27 Apr 72.

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FOR YOUR TRIP
THIS SUMMER!**

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SERVICE
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REAL READING PROBLEM?**

If he does, our facilities at The Reading Center offer the finest professional help possible.

Diagnostic testing includes silent vocabulary and comprehension, a test on phonetic skills plus a professional evaluation from a qualified educator based on observations and consultation with the parents. The average testing time is two and a half hours.

We feel children are far from standard. Their needs are as varied as methods available to teach them. Our Reading Center contains thousands of dollars worth of materials made available to our teachers to do the best job possible.

OUR READING STAFF INCLUDES:

Ramona Watson, who has a M.S. in Elementary Education from Auburn University; a B.S. from Bethany Nazarene University, and post graduate work at Peabody, plus 14 years teaching experience.

Lynda Ryberg received her B.S. in Elementary Education at Louisiana Polytechnic Institute and has had four years of primary teaching experience. Justine Shrider received her undergraduate degree from Notre Dame and her M.A. at Western Reserve. Mrs. Shrider is also the Remedial Reading teacher at Monrovia and has eight years of experience.

Joyce Lange has her M.S. in Education from Concordia with post graduate courses from Concordia in River Forest, Ill. and Athens College. Miss Lang also has four years teaching experience.

The Director, Mrs. Grace Schultz, has a thirteen year experience background in teaching children to read. Her Bachelor degree is from Valparaiso University with post graduate studies from several universities.

Our summer classes contain four to six students with a teacher present at all times. Our new facilities include individual carpeted classrooms, reading labs, library and an all around good atmosphere.

We have a second summer session from July 24 to August 25. Call for an appointment if you want fine service from people who care and are capable.

THE READING CENTER

PHONE 883-2910
CHAMPUS Approved

This Week At Your NCO Club

5) WEDNESDAY Something New In Sounds DELORIS EALY No. 1 Show L. A. Calif. 5-9 P.M.	6) THURSDAY Country/Western THE CARTER BROS. 7:30-11:30
7) FRIDAY	8) SATURDAY
HERE THEY ARE AGAIN THE JOKERS TIRUIS 9-1 TOWN'S INN 9-1	
9) SUNDAY DANCE TO THE SOUNDS OF THE JOKERS 7:30-11:30	10) MONDAY NCO WIVES CLUB MEETING 7:30 PM
11) TUESDAY Chicken-in-a-Basket \$1.30 Cheese Pizza \$1.00 Hot Dog 25c	HAPPY HOUR!!!! MON. 4:00-5:30 PM WED. 6:30-7:30 PM THUR. 6:30-7:30 PM SUN. 6:30-7:30 PM

Whalen Finds Wife, Goes RA At Redstone

Captain William J. Whalen should remember his tour of duty at Redstone Arsenal. While here he received a Regular Army commission and a medal. It was also here that he met his wife.

Whalen, a native of Plainview, N. Y., entered the Army in June, 1967, following his graduation from Long Island University. After almost a year as an enlisted man, he received his reserve commission in May 1968.

Tours of duty at Ft. Meade and in Korea preceded his arrival at Redstone in June 1970.

During his tenure in the Missile Command, he was Missile Maintenance Officer in the Technical Assistance and New Equipment Training division of the Maintenance Directorate. Most of his job was related to the Ballistic Aerial Target System. His work won him the Army Commendation Medal.

In February he received his RA commission.

In addition, he met and married Townley Creighton. Her father, Colonel Frank Creighton (now retired) was formerly Chief of the



WHALEN
Maintenance Directorate.
Whalen is at present taking the Ordnance Officers Career Course at Aberdeen Proving Grounds, Md.

Grads Urged To Continue Learning

Graduation from the U. S. Army Missile and Munitions Center and School at Redstone Arsenal can mean different things to different people. It is up to each individual to seize the opportunity to make graduation more than a stopping point in his education.

This message was delivered to 51 graduating MMCS students last week by Lieutenant Colonel Lewis W. Pettit, deputy commander of the School Brigade.

Honor Graduates

Six honor graduates were recognized for outstanding academic performance. They include: Sergeant Major Hans Behrendt, of Germany, with a 98.40 average in the Nike missile maintenance technician course; Sergeant First Class Gerold Preusser, of Germany, recording a 99.46 index in the HAWK pulse radar repair course;

Private Michael W. Roy, with a 96.26 average in the Improved HAWK mechanical system repair class;

Private First Class Guenther Buerger, of Germany, 92.91 in the Pershing digital equipment repairman course;

Private Stephen E. Fultz, 95.51 in the ammunition storage class; and Private Roy G. Simoni, who led his land combat support systems specialist class with a 91.31 average.

Marine Reservists At MMCS

The second detachment of Marine Reservists from Columbia, South Carolina, is now training at the Missile and Munitions Center and School.

The unit will receive two weeks advanced training in the field of ammunition identification and storage. The 40-man detachment will receive 50 hours of classroom instruction and 30 hours of practical application in the field.

The subjects cover small arms ammunition to rockets and chemical munitions. The field instruction is in the area of setting up and maintaining an ammunition magazine storage area and an Ammunition Supply Point (ASP). Captain J. E. Georgaklis, officer

in charge of the detachment said he was highly impressed by the desire of the people at Redstone to be helpful and the enthusiasm with which they aided the Marines.

"The Huntsville area is one of the most friendly and beautiful areas that I have had the opportunity to visit," Corporal Robert Tobias, a member of the detachment said.

According to Lance Corporal J. M. Graham, this summer camp is the best that he has attended and hopes for a chance to return to Redstone in the near future.

The detachment arrived at Redstone on June 24 and will leave July 9.

Calling All Potters

You say you're interested in pots and somehow you've missed those Raku demonstrations?

Saturday, July 8, at 1:30 p.m., you are invited to see what it's all about. This ceramic process is

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German Sergeant Killed In Wreck

SSgt. Herbert Koestner, formerly a supply sergeant in the German Air Force Liaison Office, was fatally injured in an accident near Fort Payne, Alabama, on June 29.

Sgt. Koestner had completed his three year tour of duty and would have departed Redstone Arsenal for Germany in the near future. He is survived by his wife, Betty, and three children.

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TACOM Liaison Officer Retires

James Sykes, Liaison Officer to the Army Missile Command for the Tank Automotive Command, concludes more than seven years at Redstone Arsenal by his retirement from Federal Civil Service in June.

Sykes' retirement will conclude more than 24 years of military and civilian service. He will continue to reside in Huntsville.

Tour Set Saturday

A tour of Cathedral Caverns is scheduled by the Service Club Saturday July 8.

The bus will leave the Service Club at 10 a.m. and return at approximately 3:30 p.m. Those making this tour must register at the Service Club by 3:30 p.m. Friday, July 7.



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AUCTION

SATURDAY, JULY 8 AT 10:00 A.M.

Property of Mr. & Mrs. Robert McKeller

★ **DIRECTIONS:** This property located 20 miles south of Decatur. Go south on Highway 67 from Decatur approximately 15 miles, turn right at auction sign and follow auction arrows to sale. Approximately 27 miles from Huntsville, located in the Oden, Ala. Community.

★ **LARGE FRAME HOUSE:** 5 rooms completely refinished inside with carpet and paneling in some rooms. Electric heat and new wiring. 1967 Price-Meyer House-Trailer, 52 by 10 with a 4 foot living room extension. Trailer is in excellent condition.

★ **80 ACRES** more or less, approximately 25 acres open, can be row cropped or used for pasture. Property has some good timber. Farm has a 4 bay shed, large stocked fish pond, year round creek running through farm for fishing and swimming, 35 by 20 ft. barn with concrete floor. Numerous fruit trees, cherry, plum, pear and grape vines.

★ **FARM EQUIPMENT:** 1 G John Deere Tractor, 1 9/VA harrow, 1 cultivator for G John Deere Tractor. Sale will be held on property rain or shine.

★ **TERMS OF SALE:** Real Estate 20% down day of sale, balance due in 30 days. Equipment and house trailer cash or good check.

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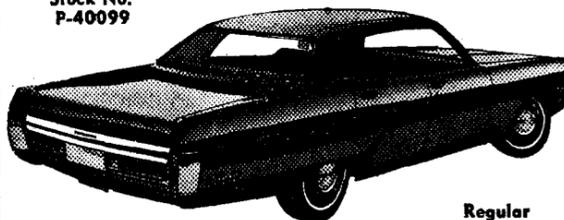
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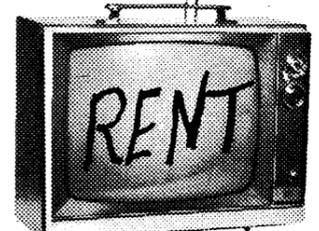
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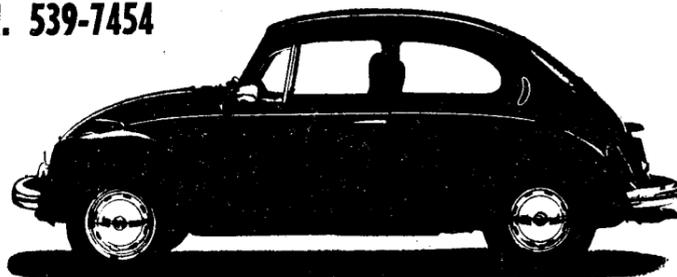
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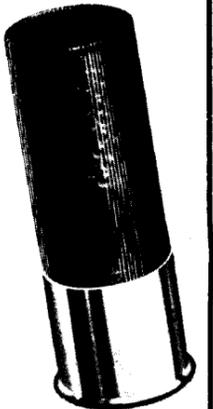
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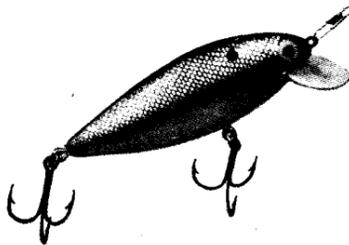
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