

OP ART . . . OR SCIENCE?—For details, see page 7.

## Hawk's New Guidance Package Makes Successful Intercept Of Target Drone

A successful intercept of a target drone by an improved Hawk missile at White Sands Missile Range, N.M. has demonstrated the effectiveness of a new guidance package using solid state components.

The successful "kill" marked the first attempt to intercept a target by a Hawk missile using the new design package. Under the "wooden round" concept, solid state components eliminate the need for maintenance and adjustments in the field.

Under the improvement program, the 16-foot supersonic mis-

sile retains its outward configuration. The program, however, includes a new guidance package, larger warhead and improved propellant.

During the test program, improved Hawks are being fired at a variety of targets over White Sands Missile Range.

The ground electronics equipment is also being modified. Once a firing unit is set up, the improved continuous wave acquisition radar will sweep the area of defense. When an enemy aircraft is detected, its position will be relayed to the high power illumi-

nator radar, which will "light" the target with a beam of radio waves.

These waves bounce back to a receiver in the missile, and Hawk tracks the target by homing along the reflected radar beam.

Helicopters and medium-sized aircraft can airlift Hawk and its ground support equipment. Plans call for the conversion of some Hawk units to a self-propelled configuration mounted on full-tracked vehicles for added mobility.

Hawks are in operation with Army and Marine Corps troops overseas, and are also located in (See HAWK on Page 3)

**Arsenal-Wide**

**Spot News**

**Dial 112**

## The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

VOL. XVI; NO. 24

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

OCTOBER 25, 1967

# CFC NEARS NEW RECORD

## Halsey Named Chairman: Army Advisory Committee

W. L. Halsey, Jr., prominent Huntsville wholesale grocer, has been named chairman of the Huntsville Army Advisory Committee, Maj. Gen. Charles W. Eifler, Commanding General of the U. S. Army Missile Command has announced.

He succeeded M. B. Spragins, Chairman of the Board, First National Bank, who has headed the Army Advisory group of community leaders for the past 21 years.

In resigning Spragins said: "It saddens me to make this move but I have always felt that older men should step aside and let capable young men take over."

Regretfully accepting Spragins resignation after his years of service to Army elements at Redstone Arsenal in this capacity, General Eifler said:

"Your 21 years as chairman have been a major factor in the amiable relationship that exists between Redstone Arsenal and the North Alabama community."

Spragins will continue to serve as an active member of the committee. Its purpose is to serve as

a channel of communication between the Army and the civilian community and to identify and solve problems of mutual interest.

Halsey had served as vice chairman of the committee for three years. Gen. Eifler has named Tom G. Thrasher, local Shell Oil Distributor, to the vice chairmanship.

Halsey is Vice Chairman of the Huntsville Industrial Development Committee and a member of the Board of Directors of First National Bank. He is a past President of the Huntsville Industrial Expansion Committee, the Huntsville-Madison County Chamber of Commerce, the Huntsville Rotary Club, and the Huntsville Golf and Country Club. He has also served five years on the Huntsville City Board of Education and the Huntsville Hospital Board.

Thrasher is Chairman of the Huntsville Industrial Development Committee and is also a past president of the Huntsville Industrial Expansion Committee and a former member of the Huntsville City Board of Education. He is one of (See ADVISORY on Page 3)

## AUSA Adopts Resolutions

Two resolutions sponsored by the Tennessee Valley Chapter have been adopted in the annual policy statement of the Association of the United States Army.

J. Burl Galloway, president of the local chapter which includes more than 3,000 supporters of the Army, said the resolutions concerned Army civilian employees and military research and development programs. Karl Woltersdorf of Huntsville was the local chapter representative on the national convention's 1967 resolution committee.

The resolution on research and development puts AUSA on record in "vigorous support of a sound" (See AUSA on Page 3)

## Chaparral To Be On Display Here

Army Missile Command personnel will have a chance tomorrow and Friday to take a close look at the Army's newest air defense weapon, Chaparral. It will be on display at the hard-site west of Bldg. 5400.

This is the same Chaparral engineering model fire unit which was successfully displayed for the first time in public at the recent annual meeting of the Association of the U. S. Army in Washington, D. C. Included also in the display at Redstone will be the weapon system test equipment.

The Chaparral Management Office has announced that three soldiers from the Air Defense Board, Ft. Bliss, Texas will be in attendance at the site here to operate the equipment.

The Chaparral system combines the supersonic, passive homing missile, a self-contained launcher system, and the highly mobile, tracked XM730 cargo carrier. The missile's infrared sensing enables it to lock on target.

Chaparral is one of two weapon systems selected by the Army to provide field commanders with low altitude air defense. The other system is the Vulcan 20 mm automatic gun.

The Chaparral Management Office at the Missile Command directs development, production and field support of the new missile (See CHAPARRAL on Page 3)

## Over 98 Per Cent Here Have Pledged Or Paid An Average \$19.79 Each

Another record contribution appears to be well within reach as Army drive officials prepare to close the books on the 1968 Combined Federal Campaign for the Huntsville area.

At the close of business last Friday cash donations and payroll deduction authorizations contributed by Department of Army personnel totaled \$280,483. This is just \$701 less than the final audited amount raised in the drive a year ago.

The five-week solicitation period for contributions in support of the authorized local, national and international fund raising agencies was concluded last Friday. However, the contributions continue to be received and expectations point

to the largest total collection ever turned over to charitable causes by Arsenal personnel.

The total amount contributed and pledged by all Federal agencies in the Area has reached \$414,307. Personnel of the Marshall Space Flight Center have made contributions totaling \$130,836 while the smaller agencies have combined donations totaling \$2,988.

Over 98 per cent of the personnel assigned to Army elements have joined in the drive and they have made contributions averaging \$19.79 per person.

The Army figures included employees of the Thiokol Corp. and (See CFC on Page 3)

## Lt. Col. Thome Named Executive At School

The assignment of Lt. Col. Matthew R. Thome as Executive Officer of the Army Missile and Munitions Center and School at Redstone Arsenal, Ala., is announced by Col. Paul B. Schuppener, Commandant.

Lt. Col. Thome came to his new post after duty with headquarters of the Eighth U. S. Army Support Command in Seoul, Korea.

Born in Seattle, Wash. in 1927, he entered the Marine Corps in 1943 and served with a Marine Raider battalion and the 2nd Marine Division in the South Pacific during World War II. Fluent in the Japanese language, he did special investigative work in Japan during the early days of the U. S. occupation.

He returned to the U. S. in 1946 and left the Marine Corps to major in Oriental languages, Far Eastern history and political science at the University of Washington. He volunteered for active duty with the Army in 1949, and was assigned to Tokyo with the Army Translation Interrogation Service. Early in the Korean conflict, he was wounded while in combat with the first U. S. regiment sent there, recovered and returned to Korea with the 24 Infantry Divi-



LT. COL. MATTHEW R. THOME

sion. Other assignments have carried him to the Mountain and Cold Weather Training Command; with an Infantry heavy mortar company in Austria; Southern European (See THOME IS on Page 3)

## Missile, Munitions Global Conference Meets At MMCS

The Continental Army's first worldwide conference of missile and munitions instructors convened here Monday.

Major commands and activities in Vietnam, Europe, Hawaii and the U. S. are sending 45 training experts to the week-long meeting at the Army Missile and Munitions Center and School.

Col. Paul B. Schuppener, commandant, said the historic meeting is being held to seek more standardization of instruction in missile and munitions; maintenance; provide information on new training methods and techniques; describe the latest developments in weapons; seek solutions to problems that arise with the Army in the field; and check ways to improve the job proficiency of graduates of the Center and School here in their duties with combat forces throughout the free world.

Plans are to hold a similar conference at two-year intervals.

The agenda for the conference in Stilwell Hall at MMCS included

special presentations by the Army's Southeast Asia Briefing Team; trends and developments in current and new missile systems and conventional and special munitions, including nuclear, biological and chemical; Soviet missile capabilities; escalation of arms in Vietnam; new support procedures for missiles and munitions during the next decade; and new methods of training.

The delegates represent the U. S. Military Academy at West Point, N. Y.; Continental Army Command; Combat Development Command; Materiel Command; U. S. Army Pacific and Europe; the First, Third, Fourth and Sixth Armies; Missile Command; Munitions Command; Weapons Command; Marine Corps; Air Defense Command; Defense Atomic Support Agency; Strike Command; First Logistical Command in Vietnam; Command and General Staff College and the Armor, Artillery and Missile, Infantry, Ordnance (See GLOBAL on Page 3)

# 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 \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35804.

## Rocket Ruminations

It's a good idea to begin at the bottom in everything except in learning to swim.

## Be Aware

Mother Nature's paint brush has splashed trees and bushes with the startling colors of Indian Summer.

Householders have checked out the furnace and bolstered the storm door to keep out the chill of Winter that will soon come.

Motorists are thinking in terms of anti-freeze and good tread on the tires of their vehicles.

School children receive admonishments to dress for the weather and look out for traffic on home streets as well as busy thoroughfares and to obey the traffic control patrolmen and women.

Housekeepers are packing and storing the trappings of summer, assessing the value of keeping loot picked up on the seashore, in the mountains or at the lake.

Indian Summer is Nature's signal that the elements are about to let loose pitfalls for the unwary: poor driving conditions; closed storage spaces where combustibles could spell tragedy; and damp and chilly weather that can spell illness to those who take no precautions.

The watchword among all: Act Safely!

## Reserves To Hear General Lundquist

Air Force Brig Gen. Gustav E. Lundquist will address the Huntsville Chapter of the Reserve Officers Association at a dinner meeting Friday night at the Redstone Officers Open Mess. The meeting begins at 6:30 p.m.

Lundquist, presently the commander of the Arnold Engineering Center at Tullahoma is a native of Chicago. Earlier in his career he was engaged in research high speed testing on the P-47 and XP51 fighter aircraft which paved the way for supersonic flight.

Reservations are being handled by N. G. Raley, 881-1387 and W. R. Mixon, 876-1296.



**RENEW SUPPORT AGREEMENT**—Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command, looks on as Dr. Wernher von Braun, Director of Marshall Space Flight Center, signs a revised support agreement between the two Redstone Arsenal based agencies. The agreement redefines a seven year old arrangement established when MSFC was set up in Army facilities on Redstone. Included in the operating plan are matters dealing with security, utility services, transportation and land use.

### AIR FORCE MEETING

The Tennessee Valley Chapter Air Force Association will meet in the Rocket Room of the Redstone Officers Open Mess at 7 p.m. Oct.

27.

Rhea Converse Lockheed-Georgia Company, will speak on the world's largest cargo aircraft,

the C-5A Galaxy. There will be no dinner. Ladies are invited.

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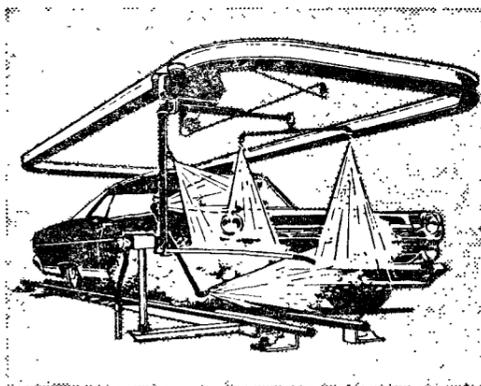
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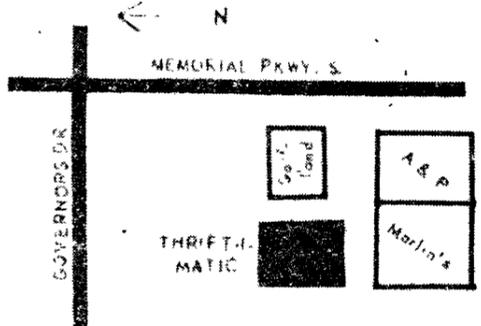
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**\$\$\$'s FOR SUGGESTION**—Roy R. Townsend of the Army Missile Command's Hawk Project Office has \$1,340 worth of proof that it pays to make suggestions. That is the amount of an award made to him by Maj. Gen. Charles W. Eifler, Commanding General of the Command, because of a suggestion that will save the government an estimated \$287,505 the first year. Mrs. Townsend is happy about the whole matter, too.

**HAWK**

(Continued From Page 1)

the United States. The Hawk missile system also is built and operated by a North Atlantic Treaty Organization production consortium.

Technical supervision of the program is accomplished by the Hawk Project Office, U. S. Army Missile Command, Redstone Arsenal, Alabama. Colonel John G. Redmon is project manager.

**ADVISORY**

(Continued From Page 1)

three Vice Presidents of the State Chamber of Commerce and a member of its Board of Directors.

Other citizens from Huntsville asked by Gen. Eifler to serve on the local Army Advisory Committee are:

Nathaniel Almon; Maj. Gen. John A. Barclay (Ret); J. L. Chambers; Alvin Blackwell; Milton K. Cummings; J. Burl Galloway; B. F. Giles; State Senator Jack Giles; City Council President Houston Goodson; J. E. Harris; Mayor Glenn H. Hearn; Dr. W. M. McKissack; H. E. Monroe, Sr.; Dr. R. D. Morrison; R. E. Nelms; Guy B. Nerren; Judge E. H. Parsons; Joe L. Payne; Joseph F. Peters; Madison County Commission Chairman James Record; H. Clyde Reeves; H. M. Rhett, Jr., Louis Salmon; R. B. Searcy; Charles Shaver; Leroy A. Sims; J. P. Smith; William H. Stevens; Carl B. Thomas; J. C. Walker and Karl A. Woltersdorf. Other members are:

Mayor J. Gilmer Blackburn, Redus C. Collier and Tom D. Johnson, Decatur; Winston S. Garth, Athens; and J. P. Willis, Jr., Guntersville.

**\$1.4 Million Awarded For Production Of Hawk Simulator Station**

The Army Missile Command has awarded a \$1.4 million contract to Applied Devices Corp., College Point, New York, for production of Hawk simulator stations.

The work will be performed at College Point over a period of 14 months.

Hawk is a highly mobile member of the Army's air defense arsenal of missiles, capable of intercepting high performance aircraft and air-breathing guided missiles at low altitudes. The weapon system is in operation with Army and Marine Corps units in the United States and overseas.

Technical supervision of Hawk is from the Army Missile Command at Redstone Arsenal, Ala., where Col. John G. Redmon is Hawk Project Manager. The Missile Command's Procurement and Production Directorate, headed by Col. S. C. Holmes, negotiated and executed the contract.

**THOME IS**

(Continued From Page 1)

Task Force; and chief of the ammunition division and deputy director of supply and maintenance with the Support Command in Korea.

Lt. Col. Thome has been active in the Boy Scout program for 32 years and last year received the Silver Beaver award, the third highest given by the organization. He is now serving as council commissioner with the Tennessee Valley Council of the Boy Scouts.

Lt. Col. and Mrs. Thome, the former Mary Florence Norton, also of Seattle, reside with their six children at 7607 Ensley Drive in Huntsville.

**GLOBAL**

(Continued From Page 1)

Engineer, Chemical, Aviation, Quartermaster and Signal Schools of the Continental Army Command.

**CHAPARRAL**

(Continued From Page 1)

system. Chief of the Office is LTC Donald H. Steenburn. The Project Manager for Vulcan/Chaparral is Col. R. C. Daly at the Army Materiel Command, Washington, D. C.

**AUSA**  
(Continued From Page 1)

ly financed, well managed sustained military research and development program as absolutely essential to security of the United States."

The locally-sponsored recognition of the contribution made by Army civilian employees said in part:

"AUSA extends special commendation and gratitude to civilian employees of the Army and recommends that dynamic career pro-

grams be established to recruit, train and adequately compensate them."

**CFC**

(Continued From Page 1)

(Continued From Page 1) the Rohm and Haas Company.

Eleven of the seventeen reporting agencies in the Army's side of the drive have reached 100 per cent in participation with four others less than five per cent away.

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| Hqs Staff Ofcs—Geo. O'Reilly  | 1,989.80  | 4,002.90  | 5,992.70  | 100  |
| ADCCSO—Howard Shaeff          | 745.60    | 693.20    | 1,438.80  | 100  |
| Qual & Rel Mgt—Aaron Brackeen | 308.60    | 1,205.10  | 1,513.70  | 100  |
| C&DP—Abner McNaron            | 893.50    | 1,575.60  | 2,469.10  | 100  |
| Proc & Prod Dir—James Fowler  | 10,881.15 | 22,637.86 | 33,519.01 | 100  |
| Res & Dvt Dir—Wm. Lindberg    | 11,877.71 | 27,934.72 | 39,812.43 | *100 |
| Sup & Maint Dir—Jos. Coffman  | 11,544.57 | 28,692.10 | 40,236.67 | 99   |
| DASO—J. C. McKinney           | 16,109.34 | 34,614.70 | 50,724.04 | 97   |
| Air Defense—Fred Sayers       | 3,657.35  | 7,638.70  | 11,296.05 | 100  |
| Land Combat—Bob Malone        | 4,713.20  | 8,612.80  | 13,326.00 | 98   |
| Msl Intell—Thomas Anderson    | 514.30    | 2,427.80  | 2,942.10  | 99   |
| Metrology Ctr.—David Rice     | 1,662.20  | 3,906.60  | 5,568.60  | 100  |
| Nike-X—Paul Phillips          | 3,681.70  | 7,338.60  | 11,020.30 | 100  |
| AMMCS—LTC Russell Teal        | 7,970.22  | 18,755.74 | 26,725.96 | *100 |
| Thiokol Corp.—J. B. Galloway  |           | 25,225.78 | 25,225.78 | 91   |
| Rohm & Haas—Rob't Shanks      | 1,803.02  | 6,513.42  | 8,316.44  | 78   |

|                        |              |              |              |    |
|------------------------|--------------|--------------|--------------|----|
| Total Army Activity    | \$ 78,621.96 | \$201,861.22 | \$280,483.18 | 98 |
| MSFC                   | 40,586.50    | 90,249.75    | 130,836.25   | 85 |
| Other Federal Agencies | 1,769.20     | 1,213.50     | 2,982.70     | 80 |
| Total to date          | \$120,977.66 | \$293,324.47 | \$414,302.13 | 94 |

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**GLOBAL**  
(Continued From Page 1)

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**CHAPARRAL**  
(Continued From Page 1)

system. Chief of the Office is LTC Donald H. Steenburn. The Project Manager for Vulcan/Chaparral is Col. R. C. Daly at the Army Materiel Command, Washington, D. C.

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| RC7011 BWD—1 ea.                 | Per Week           |
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# Yacht Club Schedules Dinner-Dance

Brig. Gen. C. C. Harvey, Commodore of the Redstone Yacht Club announced today the Annual Dinner-Dance and installation of officers for the coming year will be at the Holiday Inn West at 6:00 p.m. Saturday November 4th.

During the festivities awards will be made to . . . "Head Cannibal" . . . "Railroad Award" . . . "Voted Most Likely to Sink" . . . "Dock Buster Award" . . . "Coast Guard Nemesis" . . . "King Peddler" . . . "Water-hog of 1967" . . . "Bean Patcher Picker" . . . "Irish Pennant Award" . . . "Booby Bouy Bobbers" . . . and others.

Reservations for members can be made by calling Roy B. Southworth at 881-3631 or Sonny Yates at 876-7438.

# Technical Meeting Set By Society, Engineering Science Monday Morning

An imposing list of internationally known scientists have accepted invitations to lecture at the Fifth Technical Meeting of the Society of Engineering Science that convenes next week in Huntsville.

The three-day session will get underway at the Carriage Inn on Monday morning. All of the technical sessions will be held at that location with the meeting being concluded on Wednesday afternoon with a tour of the Marshall Space Flight Center.

Included among the guest lecturers are, Dr. Reimar Luest of the Max Planck Institute of Physics and Astrophysics, Professor Nicholas Hoff, Head of the Department of Aeronautics and Astronautics, Stanford University, Arthur Fraas, Associate Director of the Reactor Division, Oak Ridge National Laboratory, Dr. Eberhard Rehtin, of the California Institute of Technology, and Dr. Ernst Stuhlinger, of the Marshall Space Flight Center.

### IEEE TO MEET

The Reliability Chapter of the Institute of Electrical and Electronic Engineers will hear Miles R. Hardenburg of the Army Missile Command Quality and Reliability Management Office discuss System Effectiveness at tomorrow night's meeting at 6 p.m. in the Redstone Officers Open Mess.



**YARDS OF MONTH WINNERS**—The Redstone Officers Wives Garden Club chose the above yards as the best for the month of October. Winner in Area "A" was the yard of Col. and Mrs. A. O. Wiklund where both summer and fall flowers are blooming in neat beds. A special arrangement of flowers in a container on their front porch and decorations by the mail box won the Area "B" plaque for LTC and Mrs. J. Thompson. The Area "C" award went to Lt. and Mrs. J. L. Stimach where a profusion of chrysanthemums is blooming beside their quarters.

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**DELIVERS TICKETS**—Lt. Tim Radigan, coordinator of ticket sales for the 5th Annual Harvest Ball sponsored by the Redstone Arsenal Officers Wives Club, delivers tickets to Maj. Gen. Charles W. Eifler, Commanding General of the Missile Command. Between them they hold a poster advertising the Ball at the Redstone Officers Open Mess Saturday night. Proceeds are earmarked for charitable projects.

## UK, US Army Schools To Exchange Faculty

An exchange of faculty members between the Army Missile and Munitions Center and School, and the British Army's Royal Electrical and Mechanical Engineering School at Arborfield, England, has been authorized, and the first two officers involved in the exchange are now en route to their respective assignments.

Col. Paul B. Schuppener, commandant of the U. S. Army school, said the exchange program is designed to give both of the noted

training centers more rapid access to new technical advances and better teaching methods. Each of the schools has pioneered many aspects of electronics maintenance instruction in their respective nations.

Capt. Ronald J. Charbonneau of the MMCS staff and faculty is the first U. S. Officer to be named for the exchange post. British Capt. Sam Wharton is due at Redstone Arsenal in November.

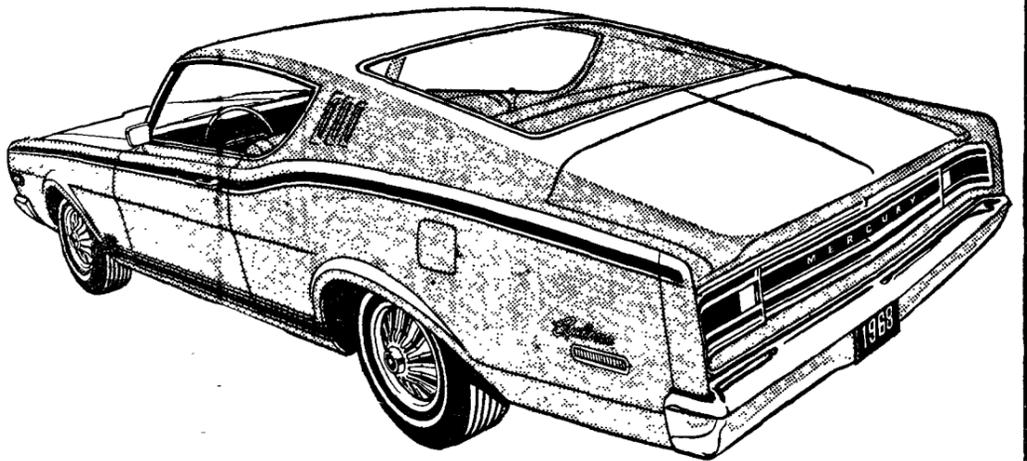
BRIG. GEN. Philip W. Mallory, MC, has assumed command of Walter Reed Army Medical Center in Washington. He succeeds Maj. Gen. Douglas B. Kendrick, MC, who retired after 33 years service. Gen. Mallory was commander, Walter Reed General Hospital, when named to his new post.

Capt. Charbonneau has been serving as chief of the Lance missile division in the MMCS Directorate of New Missiles and Training Literature. His home is in Worcester, Mass., and he is a 1962 graduate in industrial engineering of Norwich University in Northfield, Vt. He will be stationed in England for two years.



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# Marauders Extend String With Closing Rally

## MICOM Eleven Overcomes Humper Lead For Victory

Stung by a fourth quarter touch-down, the Missile Command Marauders struck back with a devastating ground attack to come from behind and capture a 30-16 win from the UTC Humpers in a Redstone Arsenal football league game last Saturday.

It was the fourth consecutive win for the unbeaten Marauders and the third loss in four games for the Humpers.

The Friday night clash between the First Battalion Raiders and the Second Battalion Bombers had to be postponed due to military commitments. League officials indicated that the game will be made up at a later date.

The Raiders will get their second crack at the Marauders in the Friday evening game this week with the Third Battalion Rockets scheduled to do battle with the Bombers on Saturday. The kickoff for both games will be 7 p.m.

Mel Bratton was responsible for stirring the Marauders to their late rally when he picked off a MICOM pass at the mid-field stripe and raced all the way into the end zone a minute after the fourth quarter started.

When Bratton took a pass from Willy Brown to complete a two-point conversion, the Humpers led 16-12.

From there on in, however, it was just a matter of how many times the Marauders would be able to march down the field.

They took the next kickoff and marched 67 yards in eight plays with Gary Crouse diving over the

line from the two with the points that put the MICOM eleven ahead to stay.

Three plays after the ensuing kickoff Don Farber claimed a Humper miscue at the 41. Crouse hit the line for five and Brad Jolly swept the left side to the 30 before Crouse broke off guard swung to the outside and raced the rest of the way for another score.

There was just time for one more drive and the Marauders took complete advantage of it with Jolley cracking over tackle for the final score 20 seconds from the end.

The Marauders had scored first when quarterback Jerry Griggs connected with his wing back Mike Camping from the 20 midway in the second quarter.

The Humpers got that one back in the first minute of the second half. Wally Sele recovered a Marauder fumble at the 23 and on the first play Earl Huff hit Bratton for the score. Brown tossed to Bratton for the conversion.

The other MICOM score was by Ray Dixon on a power sweep from the three concluding a 64 yard drive midway in the third period. Sele along with Frank and Benny Washington, and Frank Di-Rocco were the defensive stalwarts that held the powerful Marauder in check for three quarters. The MICOM defense was powered by Pat Tranquilli, John Duffey, Bob Havertape and Don Farber up front and Mark Dennis, Brent Miller and Larry Sutton in the secondary.

## All-Sports Rough On Hubco Five

Two teams hogged the spotlight last week for another pin spilling spree put together by the Supply Management League at the Starlite Lanes.

The All-Sports Trophies had two of their regulars fire Honor Roll counts in a sweep over the Huntsville Brick and Tile keggers while the Ramblers dealt out a 3093 team total in taking all four from the Auto Center.

The Shoot 'n Scoots made it three sweeps for the evening with the Razorbacks as their victims, the Pin Busters took three out of four from the Bushwhackers and Building Supply held Lily Flagg to an even split.

Quentin Owen upset 606 maples and Fred Stewart accounted for 604 more in guiding the defending champion Trophymen to their sweep over the present leaders. By winning all four, the All-Sports moved to within a half point of the lead. Chet Wysocki contributed a 545 to the attack while Tom Lindsay shot a 544 for HUBCO.

Ken Bell was the top gunner in the Rambler attack and he accounted for the third Honor Roll count of the week with a 608 that included a 228 opener. The big game paced the Ramblers to a 1093 count including 993 actual pinfall.

Joe Medders and Kenny Shipp shot back 558s and Charley King turned in a 546 reading for the Ramblers while Art Sevigny fired a 551 in the losing cause.

## Kellogg And Jones Share Net Honors

Irv Kellogg and Larry Jones shared championship honors in the first annual Civilian Welfare Fund Council tennis tournament concluded last week.

Kellogg stopped Chuck McBrearty, 6-3, 6-4, to capture the A Division title. Jones took the B Division crown by eliminating Gordy Lakso, 6-4, 6-3, in his final match.

to newcomers to the sport as well as experienced riders.

## MICOM Gals Win In Hoop Opener

Leading from the opening tip-off, the Missile Command entry in the Huntsville Ladies Industrial basketball league got off to a flying start by taking a 48-36 win over Space Craft last week.

Pat Jones led the Civilian Wel-

## Redstone Team Wins Rugby Meet

BIRMINGHAM — The Redstone Rugby Club won a round-robin tournament by beating Birmingham and Atlanta Rugby Clubs over the weekend.

Redstone defeated Birmingham, 11-3, with Frank Coble and Carter Wellford scoring a try each. Andre Nageon-De-Lestang converted the conversions for Redstone.

In the third game, Redstone stopped Atlanta, 8-5. Scott Diquid and Nageon-De-Lestang scored try for RSA.

The Redstone Rugby Club still needs players and anyone interested can contact Carter Wellford at 859-1506.

PFC Ray Durbin of the 227th Ordnance Company is acting as the on-post military coordinator and interested military personnel can contact him at 877-3349.

## Spoilers Lead Cut In F&A League

The Spoilers survived a three out of four pasting doled out by the Runners and held onto the top rung of the F & A Mixed bowling league standing last week.

The M Squad quartet took over sole possession of the runner up slot by taking three from the Misfits while the Six Packs were being held to a split by the ERs.

Julian Williams and Chris Carroll shared individual honors for the week. Julian topped the men with a 196 game and a 519 series while Chris went him one better with a 197 game and ended the evening with 501, high for the gals.

fare Fund Council-backed team to their win in the league's opening game by pouring 20 points through the nets. Gladys Hill and Wynell Newton collected an even dozen counters apiece.

Yvonne Marks, who split her playing time between the front and back courts, completed the scoring with a pair of goals. The MICOM defense corps in addition to Yvonne, consisted of Paula Legg, Jackie Coogan and Helen Smith.

The MICOM gals returned to the court this week in an intramural clash with the team from Marshall, and next Monday they will take on the IBM sextet. All league games are played at the Joe Bradley Gym on Triana Blvd.

## Saddle Club Rides Arsenal Ranges On Sunday Morning

The Redstone Saddle Club was host to members and guests on a 16-mile trail ride Sunday morning at the Arsenal.

More than 60 riders including guests from Huntsville, Gurley and Pulaski joined the Redstone group in the ride and the cook-out which followed.

The Saddle Club was formed five years ago to provide members a place to keep horses and to develop horsemanship. Principal activities center around cross-country and trail riding. Some members participate in shows and "ride-to-hounds" with the Moorland Hunt of Mells Hunt in Pulaski. The club recently joined the North Alabama Horseman's Council.

At the annual meeting 1968 officers were elected. They are: Col. James W. Young, president; Arthur Decker, vice president; Maj. Robert Shaffer, treasurer; Lt. Thomas Johnson, secretary; WO Paul Massey, stable officer; George Burchfield, John Bond, Mrs. J. V. Klima and Mrs. W. P. Hooker, directors. Young, Bond, Johnson and Burchfield were members of last year's board.

Membership in the club is open to all active duty and retired military personnel and their dependents. Interested Personnel should contact the secretary, Lt. Johnson, at 837-5851 for further information. Facilities of the club offer unusual opportunity to the horseman at a nominal cost and is open

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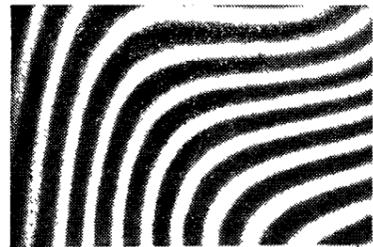
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# Moire Patterns May Be Art, Dresses, Science

Moire patterns are a current vogue in art, and have been applied in moire dresses, discotheque clubs and on television to produce wild optical effects.

The patterns produced are striking, but in some situations they are avoided. For example, persons on television are advised not to wear striped clothing, since slight



movements may produce a huge moving moire pattern filling the entire TV screen.

But would you believe a scientific application?

The moire pattern has, in fact, been described as "an optical illusion of great precision." At the U. S. Army Missile Command, Judson Griffin and other engineers are currently using the moire fringe phenomenon as a tool for strain analysis of missile components.

Griffin's job includes exploring methods of insuring the structural reliability of materials for rocket and missile motors.

You may have encountered the moire phenomenon in looking through window screens at the landscape.

Patterns appearing as alternating light and dark fringes can be seen when two mismatched window screens are superimposed. These patterns change wildly when the two are moved in relation to each other.

The word "moire" is from the French word for watered or moire silk. The Chinese produced such shimmering silk fabric in ancient times. Moire patterns can be

seen whenever a repetitive structure is overlaid with another structure and the line elements are nearly superimposed.

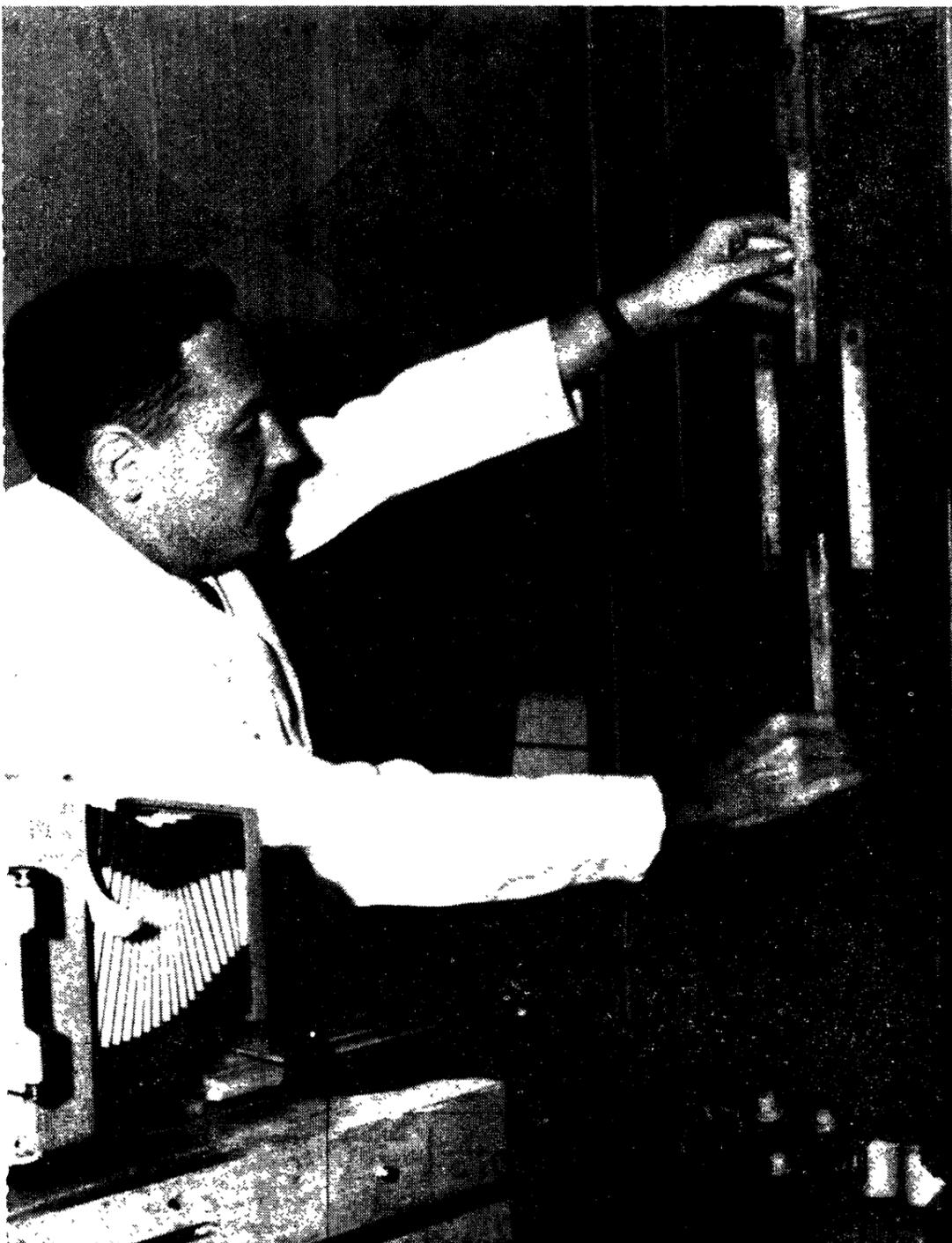
Griffin, who works in the Research and Development Directorate's Propulsion Laboratory, says that the use of the moire fringe pattern is a relatively new approach to strain analysis. Traditionally, strain gages have been and are still being used for this purpose. A major disadvantage of using conventional strain gages is that they are physically attached to the object being measured, and changes in the attached gage mask changes in the object being measured.

Also, strain measurement using conventional gages is ineffective at high temperatures. By contrast, the moire technique, an optical strain gage, is readily adaptable to high temperatures.

The technique now being used in the Propulsion Laboratory is to print grid lines on one side of the specimen to be tested. The specimen is located in front of an ordinary camera, with the face printed with a grid toward the camera lens.

A special ground glass is at the camera back, on which a grid is printed identical to that on the specimen. The moire fringes are formed when the array of lines on the specimen is strained in relation to the array in the glass plate. The rapidly changing moire patterns show on the ground glass after strain is applied to the specimen. A high speed camera is used to record these moire patterns, and in turn the variations on the specimen can be obtained.

According to Griffin, by determining structural reliability of missile components in the laboratory, the need for some full-scale testing may eventually be eliminated. Another application would be a simple "go-no-go" instrument using the moire principle to test missiles thought damaged in the field.



IN SEARCH OF A PATTERN—Judson Griffin, Missile Command engineer applies strain to a specimen. The moire patterns produced can be used to analyze strain effects.



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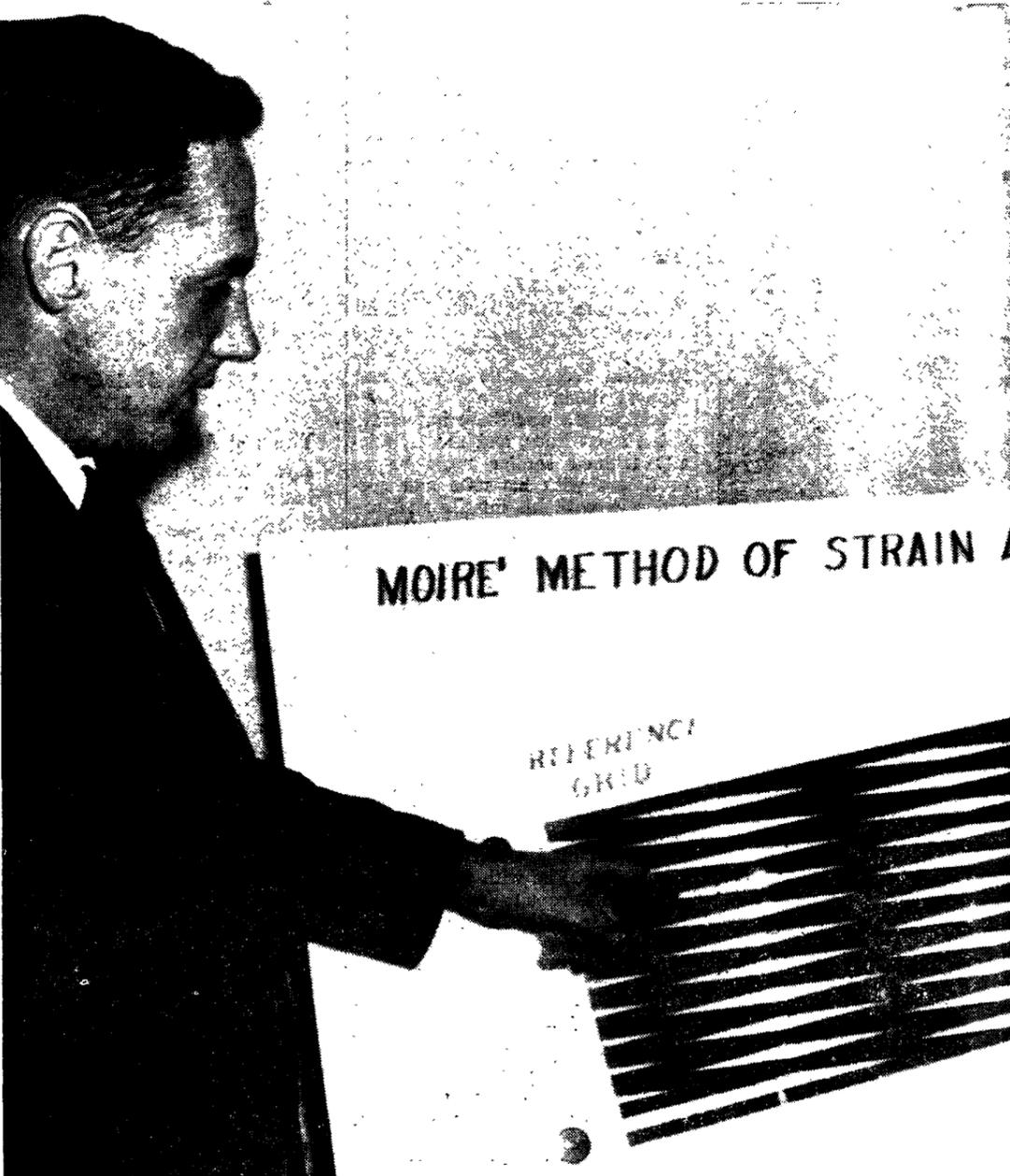
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IT WORKS THIS WAY—Judson Griffin, Missile Command engineer, shows how moire patterns are produced when mismatched lines are moved in relation to each other.



**POSTHUMOUS AWARD HONORS HUSBAND**—Mrs. Carrie B. Gurley receives the Bronze Star Medal awarded posthumously to her husband PFC Thomas Gurley for meritorious service in Vietnam. Col. J. N. Jean, Director of the Army Missile Command's Arsenal Support Operations Directorate, made the presentation. With Mrs. Gurley during the ceremony at Redstone Arsenal were her mother, Mrs. Cora Fennell, and her daughter Rose Mary. She resides with her mother at 301 Lafayette St., Decatur.



**PRESENTED SILVER STAR**—Mrs. Bobbie Campbell of Guntersville receives posthumous award of the Silver Star for her husband, 1st Lt. Thomas E. Campbell. Making the presentation is Maj. Gen. Charles W. Eifler, Commanding General, U.S. Army Missile Command. Also attending the presentation was Mrs. Campbell's mother, Mrs. Edna Bumgardner and brother, Everett Staples. The award was made for exceptionally valorous action by Lt. Campbell, who was killed in action on June 21, 1967 while serving as aircraft commander of an armed helicopter during a combat support mission in Vietnam. When his helicopter came under intense enemy fire, Lt. Campbell, disregarding his own safety, immediately took the targets under fire with his aircraft weapons, destroying several positions. On one firing run, Lt. Campbell's helicopter, struck by enemy fire, crashed and exploded on impact.

## Marine Takes Honors At Friday's Graduation

A Marine from California Friday (20 Oct.) captured the Army's highest academic award at the Missile and Munitions Center and School at Redstone Arsenal, Ala.

Staff Sgt. Gerald N. Farrell, 28, of El Cerrito, Calif., won the outstanding student award of the Association of the U. S. Army for averaging 96.6 in the Hawk air defense missile maintenance

course. Given only to students who score 96 or better, the award was made by J. A. Muller, a director of the Tennessee Valley chapter of AUSA.

Farrell was among 82 students from the U. S. Army and Marine Corps and Germany who received diplomas at a ceremony in the Post Theater presided over by Maj. James E. Taylor, chief of the MMCS technical ammunition division.

The graduates heard Maj. Richard T. Holder of the Army Missile Command declare that the war in Vietnam has virtually eliminated the traditional differences between combat forces and the technical troops who supply and support them.

The jungle war there has eliminated front lines, and the technically trained soldier must be as proficient with his rifle and grenades as with his missile and ammunition repair equipment, Holder said.

Six students were cited as honor graduates in their respective classes. They were 2nd Lt. James L. Alexander, Jr. of Dyer, Tenn., with 91.8 in the ammunition officer course; Marine Lance Cpl. Paul V. Hayes of Springfield, Ohio, with 87.2 in Hawk radar; Pfc Charles R. Newlin of LaFayette, Ind., with 92.5 in Hawk missile and launcher; Pfc Carl B. Haizlip, Jr. of Eatonton, Ga., with 91.6 in Sergeant missile test equipment; Pvt. William J. Martin of Fort Lauderdale, Fla. with 92.7 in guided missile repair; and Pvt. Joe Rasales, Jr. with 92.3 in ammunition storage.

### DEERMAN LAUDED

Willis W. Deerman received Outstanding Performance Certificate from Col. Paul B. Schuppener, Commandant of the Missile and Munition Center and School.

Deerman is an education specialist in the Evaluation Branch, Training Division of the Office of Operations at MMCS for the last 12 months.

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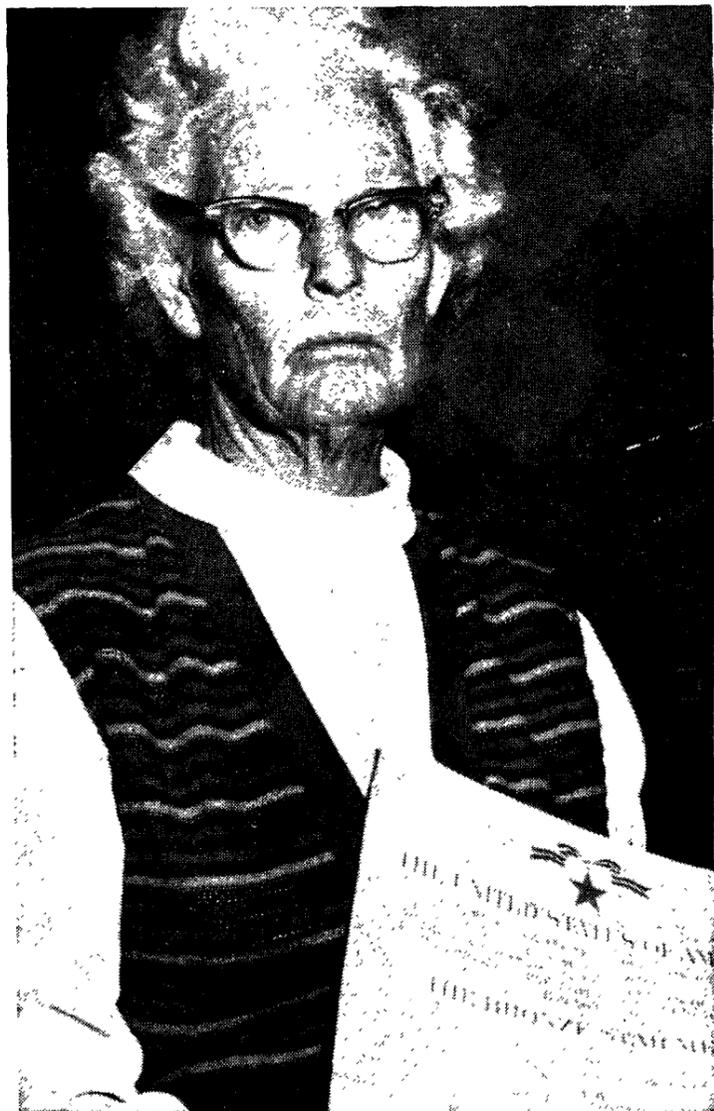
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**RECEIVES SON'S BRONZE STAR**—Mrs. Cleo Johnson of Athens, Ala., is presented the posthumous award of Bronze Star with V Device made to her son, Sgt. Thomas A. Johnson, who died June 21 in Vietnam. Maj. Gen. Charles W. Eifler, Commanding General of the U. S. Army Missile Command at Redstone Arsenal, made the presentation. The citation was made for Sgt. Johnson's heroism during battle when, in complete disregard for his own safety, he attempted to go to the aid of his wounded squad leader. He was mortally wounded during the intense enemy fire.

# Shillelagh System Headed 'Down Under' For Evaluation

The U. S. Army's Shillelagh guided missile system is headed "down under" for Australian Army evaluation.

Maj. Gen. Charles W. Eifler, Jr., Commanding General of the U. S. Army Missile Command, said that the Shillelagh missile system will be mounted aboard the General Sheridan armored reconnaissance airborne assault vehicle, and will be delivered to the Australian government for operational evaluation. This is the first foreign assignment for Shillelagh.

As a part of the American, British, Canadian, Australian (ABCA) Standardization Loan Program, the Australian government is being loaned two General Sheridan

vehicles and 20 Shillelagh guided missiles. The trials will be conducted and evaluated by Australian Army personnel who have been trained by the U. S. Army.

Australian Army personnel have been indoctrinated in all phases of Sheridan/Shillelagh operation during visits to Aeronutronic, to the Missile Command, the Army Weapons Command, and Ford-Philco's Aeronutronic Division, prime contractor for Shillelagh. The Weapons Command, located at Rock Island, Ill., is the program office for the Sheridan vehicle.

The Australia trials will be conducted initially in the Melbourne area this Fall, and then moved to the tropic test area in Innisfail,

150 miles north of Townsville, in North Queensland. Trials will be conducted there during March-May, 1968, during which time the area will receive approximately 70 percent of its annual 170-200 inches of rainfall.

Extreme climatic variations like those which will be encountered by Shillelagh in Australia are nothing new for the missile system. The lethal weapon has already been successfully test fired during the recent winter months at Fort Greely, Alaska, and in the extreme desert heat at White Sands Missile Range, N. M.

In the Australia trials, Shillelagh will be fired against both moving and stationary targets, as has been done in previous tests.

The Australian government will carry out trials covering engineering, operational suitability, and operational usage and training during the rugged evaluation per-

iod. The Shillelagh missile is being mass-produced by Aeronutronic in a 200,000 square foot government-owned U. S. Army Missile Plant at Lawndale, Calif.

First production missile deliveries were made by Aeronutronic to the Army in early 1966.

The deadly accurate Shillelagh missile is fired from the same 152-mm gun tube mounted in the turret of the General Sheridan vehicle that fires conventional rounds of ammunition. Vehicles carry both types of ammunition, which can be interchangeably fired on combat missions.

The anti-tank, anti-field fortification missile, is fired by a gunner, who guides the missile to its target using an infrared command guidance system. He merely points the cross hairs at the target, following the target during the missile's flight up to the point of impact and destruction.

Col. Spencer R. Baen is Shillelagh Project Manager at the U. S.

Army Missile Command.

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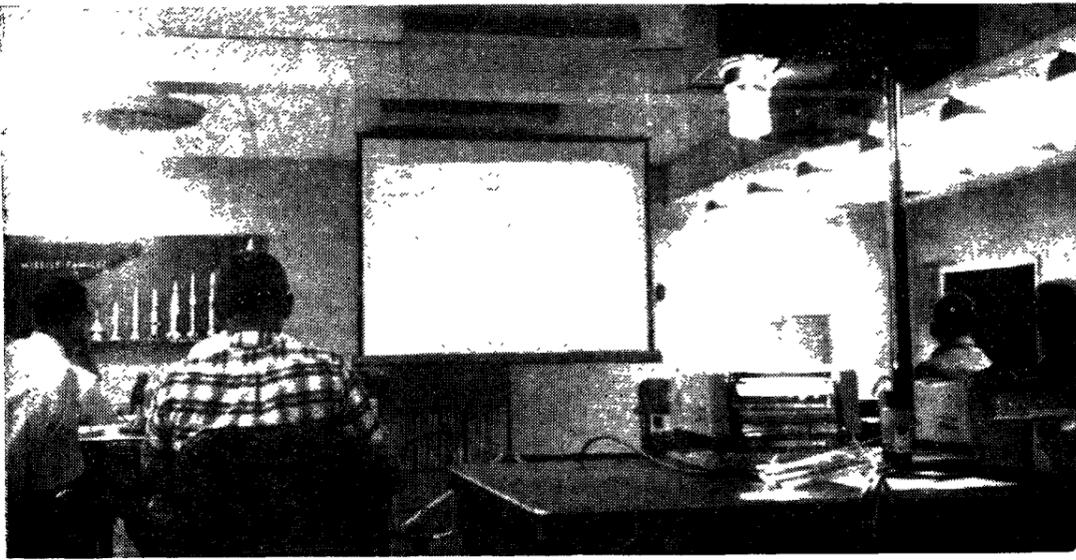
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**JUST LIKE THE MOVIES!**—These students at Redstone Arsenal are actually "sitting in" on a graduate metallurgy course at the same time it is being taught in Auburn, Ala. On the screen (center) is a formula which was transmitted along with lecture material. This unique new training program is being conducted at the Army Missile Command in cooperation with the Engineering Extension Service at Auburn University.

## Professors On Camera In Two Classes At Once

While the Auburn professor was explaining the complicated math formula he had just written, one student quietly interrupted with a plea to "repeat that last part, please!"

"Surely!" Dr. Warton Jemian quickly consented as he backtracked and began to expand on his lecture material.

The only thing unusual about this scene earlier this week is that the professor was in Auburn, Ala., and the student was in a classroom here at Redstone Arsenal—some 200 miles away. Not only was the student in direct voice contact with the professor but

lecture notes were flashed on a movie screen at Redstone while they were being written in Auburn.

This unique educational program is being conducted at the U. S. Army Missile Command in cooperation with the Engineering Extension Service of Auburn University. Thanks to equipment called VERB—Victor Electrowriter Remote Blackboard—Army engineers and technicians are "sitting in" on a graduate-level metallurgy course at the same time it is being taught resident students at Auburn.

During class sessions, Professor

Jemian writes material on the electrowriter at Auburn which is transmitted over telephone wires to identical equipment at Redstone where it is picked up and flashed on a screen. A separate line carries his explanation of the material and permits students to ask questions.

"This system has been favorably received everywhere it has been used," says William T. McClane of the Missile Command Research and Development Directorate.

"Among other things, it makes available to a greater number of students, instructors who are specialized in a particular field and it permits employees to participate in resident courses with a minimum amount of time away from the job."

The present training program was coordinated by the Training and Development Division, Civilian Personnel Office, of the Missile Command's Directorate of Arsenal Support Operations.

Among students in the course are James Davidson, Ellis Parker, Haywood Dedman, Lt. David Moorehead, Lt. E. C. Thompson III, E4 James Swigert, Bryan McPherson, Ronald Wagner, and Zere Lile.

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## SAME Holds Convention In Huntsville

Friday the Society of American Military Engineers will held the Southeastern Regional Conference at the Carriage Inn in Huntsville.

Registration begins at 9 a.m. and the technical session begins at 9:30 a.m.

The first program will be a presentation by Brig. Gen. Ivey O. Drewry on the Nike-X Anti-Missile System for which Gen. Drewry is Project Manager.

The second speaker will be John L. McDaniel, Technical Director of the Missile Command's Research and Development Directorate.

Keynote speaker at lunch will be Lt. Gen. William F. Cassidy, Chief of Engineers, and national president of SAME. An Air Force General, Brig. Gen. E. F. O'Connor, is scheduled to be the principal speaker at the banquet. Gen. O'Connor is Director of Industrial Operations at the Marshall Space Flight Center. The evening will end with dancing.



LT. GEN. WILLIAM F. CASSIDY

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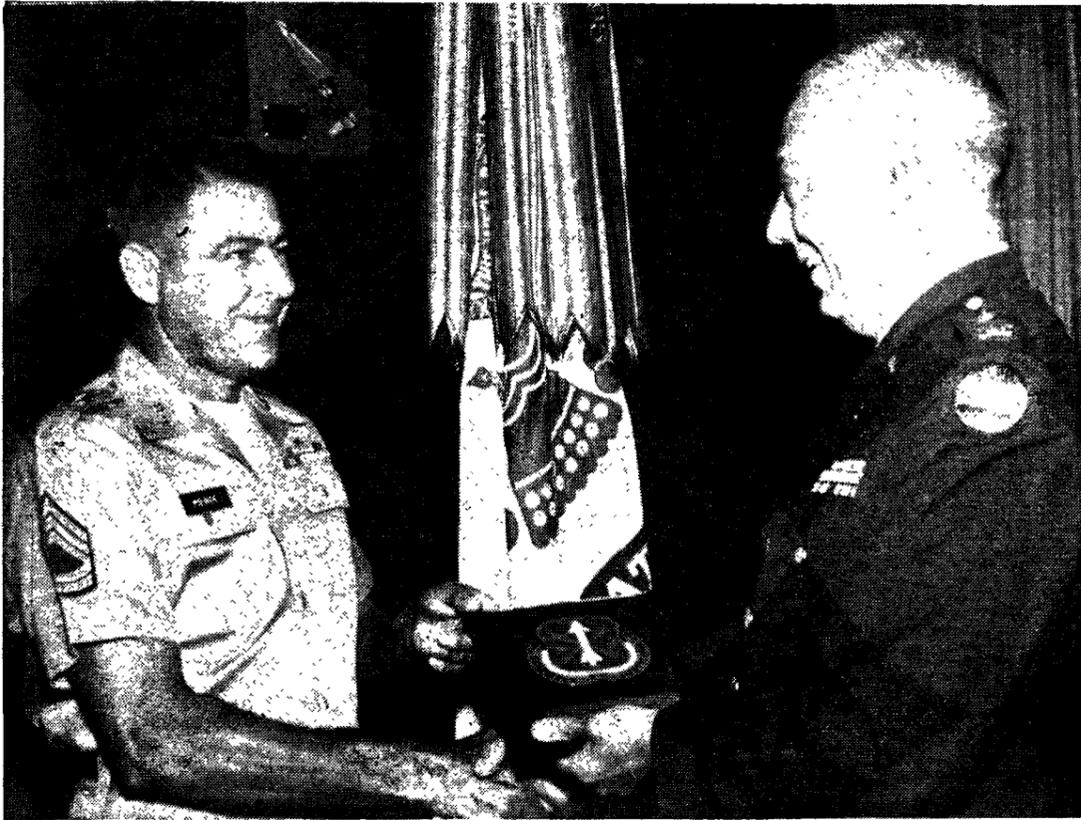
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**BEST MESS**—SFC Raymond D. Pierce receives the best mess award for the month of September from Col. Paul B. Schuppener, Commandant, Missile and Munitions Center and School. Pierce is mess sergeant of Mess Hall No. 4 where approximately 1,400 U.S. soldiers, Marines and foreign students are served daily.

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**SCHOOL PRESENTS FIFTEEN AWARDS**

Fifteen persons and three units were honored in a recent awards ceremony at the Army Missile and Munitions Center and School. Col. Paul B. Schuppener, Commandant, made the following presentations:

Bronze Star Medal: MAJ Leland G. Collins and SFC Calvin D. Brown; Joint Service Commendation Medal: MSG Arthur F. Parrow; Army Commendation Medal: MSG Robert W. Barnett, SFC Teddy A. Judy, CWO George D. Bremer, SP6 George R. Himmelright, and SFC Robert H. Jacobsen.

Purple Heart: SSG John L. Harzewski; Certificate of Achievement: 1LT Charles S. Wollmer; 20-Year Service Certificate and Pin: Burton R. Franks; 10-Year Service Certificate and Pin: Ronald P. Hicks, Stuart D. Shipe, Charles E. Thorneberry and Carrie E. Bridges.

Red Cross Blood Donations: Marine Detachment (Category I) and 227th Ordnance Detachment (Category II); Best Mess Award: Mess No. 4.

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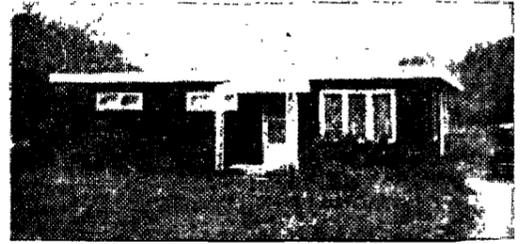
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**AUCTION SATURDAY, OCTOBER 28th**

**RAIN OR SHINE 7 Pieces of Property To Be Sold To The Highest Bidder And You Set The Price!**



**SALE NO. 1 — 10:30 A.M.**

3 Bedroom & bath, new roof, City water, in excellent condition. GURLEY, ALABAMA—Now rented for \$70 Per Month. Located on Highway 72 North, second house on the left just past the traffic light in Gurley, Ala. To be sold to the highest bidder . . . you set the price!

**SALE NO. 2 — 11:30 A.M.**

HUNTSVILLE, ALABAMA—52' x 175' Commercial Lot Has 52' frontage on Oakwood Avenue, West next door to the Mohawk Tire Company. To be sold to the highest bidder . . . you set the price!



**SALE NO. 3 — 12:30 P.M.**

HUNTSVILLE, ALABAMA—2 Beautiful Apartment Lots Each lot measures approximately 75' x 122'. Located on the corner of Kingsberry Avenue and Cambridge Street, 2 blocks off Wells Avenue. All city utilities available. To be sold to the highest bidder . . . you set the price.



**SALE NO. 4 — 1:30 P.M.**

HUNTSVILLE, ALABAMA—60' x 184' Commercial Lot With 6 Room House Located at 327 Church Street. Now rented for \$60 Per Month. To be sold to the highest bidder . . . you set the price!



**SALE NO. 5 — 2:30 P.M.**

HUNTSVILLE, ALABAMA—6 room house with bath located at 2101—1st. street just off Governors Drive. Now rented for \$70 per month. To be sold to the highest bidder . . . you set the price!



**SALE NO. 6 — 3:30 P.M.**

HUNTSVILLE, ALABAMA—100' x 200' Commercial Lot with 6 room house and bath. Located at 3216 Long Avenue adjoining the West Huntsville American Legion property. To be sold to the highest bidder . . . you set the price!



**SALE NO. 7 — 4:30 P.M.**

HUNTSVILLE, ALABAMA—5 Room House With Bath, Located at 2901 Chelsa Lane, 2 blocks off Triana Blvd. To be sold to the highest bidder . . . you set the price!

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| 75           | 13.84                 | 7.53        | \$ 5.45     |             |
| 100          | 18.46                 | 10.05       | 7.27        | \$ 5.90     |
| 200          | 36.92                 | 20.09       | 14.54       | 11.81       |
| 300          | 55.09                 | 29.87       | 21.54       | 17.42       |

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# Ph.D Likes Big Picture Better Than Laboratory

## Dr. Barr To Participate In Plasma Jet Seminar

Dr. Thomas A. Barr, Jr., of the U. S. Army Missile Command will present a paper at a seminar to be held in Elberton, Ga. on October 31, 1967.

Dr. Barr, chief of the Research and Development Directorate's Plasma Physics Branch, will discuss "Plasma Jet and Laser Technology," at the Seminar on Business Management and Technology for the Granite Industry.

The seminar is conducted by the University of Georgia and sponsored by the Board of Regents of the University System of Georgia.

Not all of the Army's Ph.D.'s work in a laboratory.

Capt. Paul Ricca of the U. S. Army Missile Command's Research and Development Directorate at Redstone Arsenal, Ala. prefers systems work because it gives him a chance to see the big picture of the Army's work in developing missiles systems.

As chief of the Land Combat Section, Combat Requirements Branch, Future Missile Division, Capt. Ricca is charged with maintaining liaison between Army agency users and developers of missile systems. To do this, he and his staff must keep up not only with the capability of missile related technology, but with the requirements of user agencies.

Frequent travel is a requirement of the job. Capt. Ricca estimates that he has made some 35 trips in the past two years with the Missile Command. His office must present numerous briefings to contractors, the Department of Defense and other Department of the Army agencies, in addition to providing assistance in field testing missile components.

Capt. Ricca received his A. B. degree in chemistry from Syracuse University in 1961. After receiving his doctorate in analytical chemistry from Purdue University in September 1965, he went on active duty with the Army. He was transferred to the Missile Command in January, 1966, after a

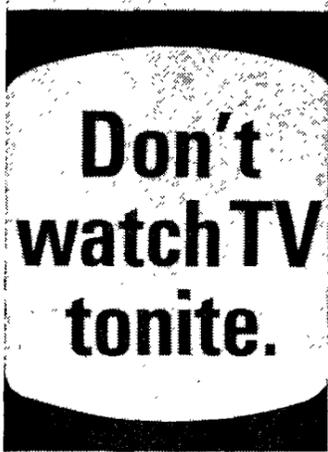
tour of duty at Aberdeen Proving Ground, Md. with the Army Ordnance Center and School.

His honorary and professional associations include: American Chemical Society, Association of the U. S. Army, Scabbard and Blade

(Military honorary), Phi Lambda Upsilon (Chemistry honorary), Sigma Xi (Research honorary), Alpha Chi Sigma (chemistry professional fraternity), and the American Ordnance Association.

Capt. Ricca and his wife, the for-

mer Mary Ann Flood of Randolph, N. Y., now live in Huntsville with their two children, Bernard, 5, and Peter, 9 months. His parents, Mr. and Mrs. Bernard J. Ricca, live at 26 Robbins Ave., Islip, N. Y.



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THE CHART SHOWS—Capt. Paul Ricca of the Army Missile Command's Research and Development Directorate explains the boost recovery phase for a new long range missile concept. Capt. Ricca, who holds a doctorate in analytical chemistry from Purdue University, is Chief of the Land Combat Section, Combat Requirements Branch, Future Missiles Division.

# Mt. Charron COUNTRY CLUB

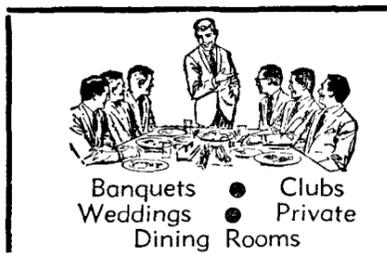
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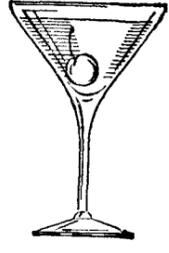
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# Old Time Fiddlers Plan Benefit At Athens

Old time fiddlers from Alabama, Tennessee and other states will be fiddlin' up a scholarship for Athens College Nov. 4 at the College. And two men from the Army Missile Command Procurement and Production Directorate, with some friends who share their interest in American folk lore, are largely responsible for the whole show.

The occasion is the first annual Tennessee Valley Old Time Fiddlers' Convention and Fiddlers' Contest, and the proceeds will go to the College for any scholarship use the officials there desire.

The Missile Command people who sparked the formation of the Association are Bill Harrison and Mike Wallis. Harrison, interim president to the group, and Wallis, have long been interested in all varieties of Americana. About three years ago, Wallis was looking for an old time string band to accompany him when he played his banjo.

Harrison happened to remember that when he was growing up there was an old fiddler in the hills of Limestone County. On investigation, it was found that, sure enough, the same man was still living there and vigorously fiddling even in his late seventies.

"So Friday night fiddlin' at the elderly man's house in the hollow became a regular get-together," Harrison says. "As the word got around," he continued, "more and more folks started dropping in including other fiddlers."

Next was a community fiddlin' contest, held for fun. So many people turned out that there were twice as many people as seats.

"We drew one conclusion: people from all walks of life love old time fiddlin'," Harrison said.

As a result of all the enthusiasm shown by their audiences, it was decided to stage another fiddlin' contest to raise funds for a local hospital. The word was spread so well that there was standing room only at this contest and at least 500 people were turned away!

The success of this event led to forming an Association and plans for an annual convention and contest. "We found that there was a national association with the same objectives after we established ours," Harrison commented.

Harrison, of Anglo-Saxon ances-

try himself, says many of the old time fiddlers have Anglo-Saxon names. He recalls that there was a time when the fiddle was King among musical instruments in the frontier and rural America eras. It singlehandedly launched a multi-million dollar industry called modern Country and Western music, but was later neglected as a musical form of art.

"It died out with the removal of authentic old time fiddlin' from the public ear," he noted. A complex old time fiddle tune cannot be adequately set to music and must be passed on by ear from one fiddler to another.

"Wallis and I and a mutual friend decided to do something about preserving this pure form of American folk music," Harrison said.

His interests in folk lore are not restricted to fiddlin'. Another old custom will be observed at the Association's upcoming convention, the anvil shoot, which will open the meeting.

To celebrate special events in pioneer days, the settlers put black powder on the bottom of an anvil with a powder trail to the edge of the base, then put another anvil on top. Fire pokers tied on long poles were heated to a cherry red in a bonfire, then arced to the powder trail. The resulting boom could be heard for miles.

It's done a little more conservatively these days with a fuze trailing from the powder. The fuze

is lighted, burns to the powder, the top anvil flies off into space with a great BOOM.

The main events, which include banjo, dulcimer, guitar, harmonica, folk singing, buck dancing con-

tests, all by tradition part of old fashioned fiddlin' contests, begin at 7 p.m. The program will be headlined by a contest between the top ten fiddlers selected through eliminations held during

the afternoon.

The "Tennessee Valley Fiddle King" will be selected by qualified judges. The title carries a cash prize and a trophy. There is also a cash prize for second.

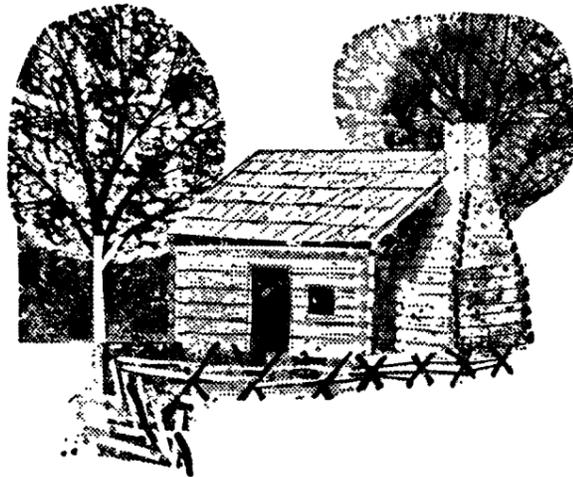


OLD TIME FIDDLIN'—Two men from the Army Missile Command Procurement and Production Directorate whose hobby is all aspects of folk lore and Americana are key sponsors of an old time fiddlin' contest set for Nov. 4 at Athens College. Mike Wallis cradles his fiddle, as Bill Harrison admires his skill.

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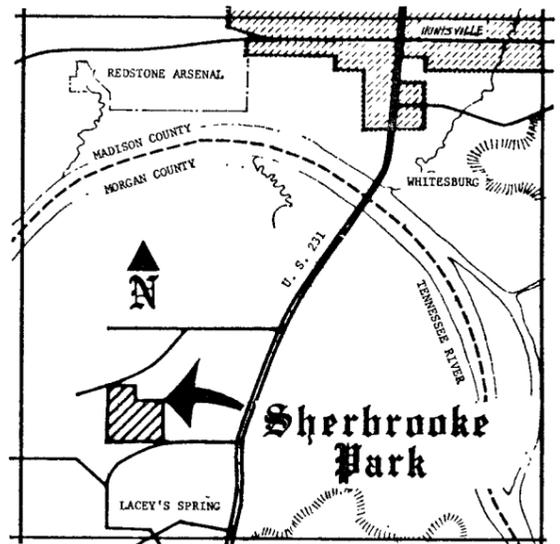


**RECEIVES MEDAL**—Lt. James C. Nix (left) receives the Bronze Star Medal from Col. Paul B. Schuppener, Commandant of the Army Missile and Munitions Center and School. The 24-year-old lieutenant received the decoration for outstanding performance of duty with Company "B" 41st Signal Battalion in Gui Nhon, Vietnam, where he served as Area Communications Platoon Leader. He returned from Vietnam recently and is now serving as an Instructor with the Field Maintenance Test Equipment Branch, Nike Division, of the Air Defense Department, Directorate of Individual Training at MMCS. Nix received his commission on graduation from Auburn University in 1965. He resides with his wife at 4511-D Patton Rd. S.W. in Huntsville.

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# Miniatures Save Money, Train Soldiers Too



**WHICH ROCKET IS REAL?**—Both, actually. The larger rocket with the bulging nose and fins is the normal round for the M-72 weapon system. The miniature round at top is part of the new training device being developed by the Army Missile Command to give soldiers realistic firing experience—at considerably less cost. James Howison, project engineer for the training device, compares the two rockets. In foreground is the M-72 launcher.

The U. S. Army Missile Command here has under development a unique new training device for the M-72 weapon system, better known as the LAW (Light Anti-tank Weapon).

It consists of a training kit, installed in the basic LAW launcher, which can fire a miniature training rocket. The tiny rocket, about eight inches long and one-half inch in diameter, duplicates the performance of the LAW rocket and carries a spotting head which flashes on impact to mark the target hit.

Once fielded, the device will give soldiers realistic training experience at considerably less expense than what normal rounds cost, the Army said.

The M-72 is a highly versatile weapon which weighs less than five pounds, is shoulder fired, and can also be used against bunkers, snipers, or field fortifications. It is deployed in Vietnam and with Army units elsewhere.

The entire weapon system, which is discarded after the rocket is launched, consists of the launcher and rocket and costs about \$42. But with the new training device, the launcher will be reusable and firings will cost less than \$3 each.

LAW was developed and deployed under Missile Command management and subsequently turned over to the Army Munitions Command. Hesse-Eastern, division of Norris Industries, was the development contractor and is also doing work on the new training device.

Management of the training device program is being directed under Howard Cox of the Land Combat Commodity Office at the Missile Command. Project Engineer is Jim Howison of the Small Rockets and Aircraft Armaments Branch, Development Division, Research and Development Directorate.

Later in the program, the Missile Command's Test and Reliability Evaluation Laboratory will conduct an extensive test program, under a variety of conditions, on the training system.

Drive Defensively

Drive Safely

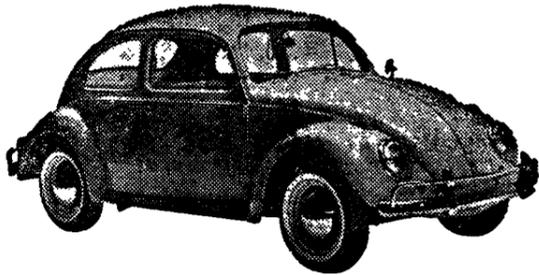
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**1966 VW 117**  
Sunroof sedan. Fully equipped. .... **\$1,595.**

**1966 VW 113 SEDAN**  
11,500 miles. Really sharp. .... **\$1,595**

**1965 VW 113 SEDAN**  
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**1965 VW 117**  
Sunroof sedan. Nice. **\$1,395.**

**1967 VW 113 SEDAN**  
19,000 miles. .... **\$1,695.**

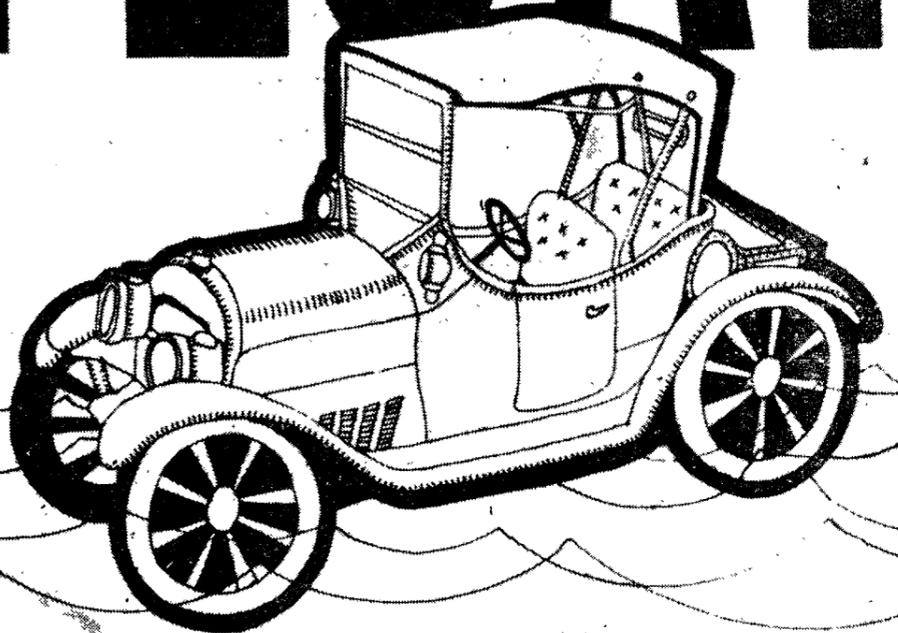
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Sedan (Sta. Wgn.) Real nice. .... **\$1,795.**

**1965 VW KARMANN GHIA**  
Radio, heater, sharp, sharp **\$1,795.**

**1965 VW 7 PASSENGER STATION WAGON**  
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HUNTSVILLE, ALABAMA—MEMBER FEDERAL DEPOSIT INSURANCE CORPORATION

# AFGE To Hold Election On November 13

Election of officers to direct the affairs of Lodge 1858, American Federation of Government Employees, for the next two years has been scheduled for Nov. 13. Polls will be open at Carpenter's Hall from 1 p.m. to 8 p.m.

Everett Brouillette, lodge president; Lester Mitchell, executive vice president, and Thomas Childers, treasurer, all face opposition as they try for another term.

J. Winton Moore has been elected chairman of the election committee. Candidates who may wish to have an observer at the polls have been requested to furnish Moore the observer's name in writing.

Absentee ballots will be permitted from personnel on TDY or PCS orders. Persons desiring an absentee ballot should request them from: "Election Committee",

## YACHT CLUB TO MEET

The annual meeting of the Redstone Yacht Club will be held in Bldg. 3614 Redstone Arsenal at 7:30 p.m. Nov. 3. Election of officers and board members for the coming year is the principal item on the agenda and all members are urged to attend and cast a ballot.

Bldg. 3648.

The complete list of candidates includes:

President: Everett Brouillette, William H. Gullion, Dowe Morlen and Raymond Swaim.

Assistant President: James Gray, W. Robert Moore and Larry W. Westbrook.

Executive Vice President: Louis Bartee and Lester Mitchell.

Treasurer: Thomas Childers, Virginia Sanderson and William Strange.

Sergeant-At-Arms: Lewie Brooks and Billy Layne.

Vice President (MSFC): Marvin O'Donnell.

Vice President (MICOM): Winfred Cobb, Herbert Ivey and Robert Peay.

Vice President (P.X.): Walter Parks.

Vice President (AMMCS): Joe Shumate.

Vice President (DCAS): Cecil Adamson.

Vice President (Weather Bureau): Wilbur Cobb.

Vice President (Michoud): Eugene Grabowski, Robert Kinch and James Leggett.

The cash value of Series E and H U. S. Savings Bonds outstanding is now more than \$51 billion.



**SCHEDULED TO SPEAK** — Col. Rex H. Hampton, a veteran artillery and missile officer who has been nominated for promotion to Brigadier General, will visit Redstone Arsenal next Friday, Oct. 27th, to address 88 U. S., German and Japanese graduates of the Army Missile and Munitions Center and School. Currently on the faculty of the Army Command and General Staff College at Fort Leavenworth, Kans., Col. Hampton was born in Chicago, holds degrees from Utah State and George Washington Universities and has served with the British Army, Allied Supreme Headquarters in Europe and commanded Corporal and Pershing missile units.

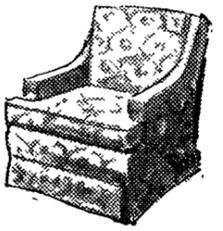
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DEPARTMENT OF DEFENSE officials have announced relocation of certain elements of Marine Corps Disbursing activities from Washington to Kansas City, Mo. Move will affect 22 military and 213 civilian billets and is expected

to be completed within 10 months. Officials said relocation was prompted by Marine Corps' desire to develop a centralized and computerized manpower and disbursing system at an installation ready to handle such an application.



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Last October We Sold 193 New Chevy Cars and 31 New Chevy Trucks for A Total of 224 Units!

**NOW TO BEAT THAT RECORD We Know We Will Have To VOLUME SELL As Never Before!**

**THAT WE WILL DO! So, Fall Into A New '68 CHEVY DEAL THIS MONTH AT HILL'S !!**

## PRICE BUSTER USED CARS

'64 IMPALA CHEVROLET V-8 **\$1295**  
Auto. Trans., Power Brakes & Steering, Air Conditioning. No. 934-P.

'63 PONTIAC CONVERTIBLE **\$495**  
A Bargain. Stock No. 858-P.

'65 KARMANN-GHIA **\$1295**  
Convertible Stock No. 782-AP.

'66 BUICK V-8 HARDTOP **\$1795**  
Air-Conditioned, 2 Door, Sharp. No. 1024-P.

'62 OLDS Hardtop **\$995**  
Air Conditioned, Full Power. No. 1009-P.

'66 RAMBLER 770 Series **\$1495**  
4 Door, Radio, Clean and Ready To Go. Stock No. 855-P.

'66 CHEVY Fleetside 1/2 Ton Pickup. **\$1295**  
Clean and Ready. Stock No. 953-C.

'65 FORD Fairlane Wagon V-8 **\$1495**  
Automatic transmission, air condition, Radio and Heater. Stock No. 987-P.

'64 BEL AIR Station Wagon **\$1295**  
V-8, Automatic Transmission, Air Condition, Radio and Heater. No. 1040-P.

'61 CORVAIR Station Wagon **\$395**  
A Bargain. No. 986-P.

**And Many More Big Money Savers!**

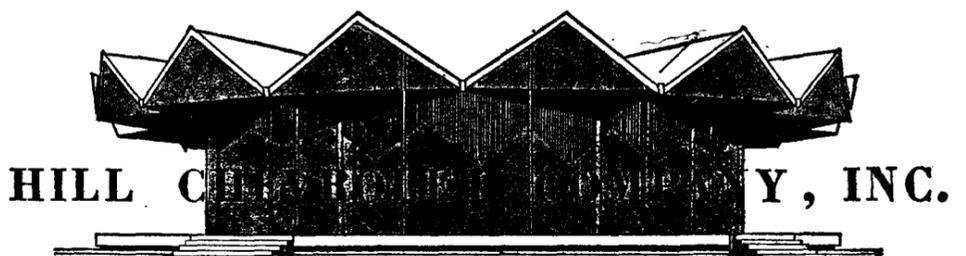
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