

# THE REDSTONE ROCKET

VOL. XIX; NO. 27

Published in the Interest of the Personnel of Redstone Arsenal  
REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

NOVEMBER 18, 1970

## Weather Helps Us Save Fuel

As long as the weather reports keep saying "mild temperatures," the Army Missile Command's dwindling coal supply can be stretched just a little farther.

"We burned about 2000 tons less last month than we did during October last year partially because we had unusually mild weather," William R. Henry, Post Engineer at the Arsenal Support Operations Directorate, said.

So far, November weather has been on our side too, but we're still urgently stressing utilities conservation since the situation is still critical."

The fuel shortage has compelled conservation measures Arsenal-wide. Thermostats in offices have been set to provide a maximum of 72 degrees of heat, and in shop areas it is 55 degrees. Warehouses containing material which must be protected have thermostats set at 40 degrees.

(See UTILITIES on Page 3)



WILLIAM L. HARP

## Senior NCOs Briefed On EER Report

An expert on the Army's Enlisted Evaluation System will speak to MMCS senior NCOs today and tomorrow on the subject of preparing the new Enlisted Evaluation Report.

William L. Harp, personnel psychologist at the Enlisted Test and Evaluation Center, Fort Benjamin Harrison, Ind., will be featured speaker at the Senior NCO Platform Presentation for November. One session of the presentation was given yesterday and identical versions are scheduled for today and tomorrow at 1400 hours in the Post Theater.

Among Harp's accomplishments is the development of MOS tests for ammunition and missile maintenance graduates of MMCS. His background also includes experience as an instructor for pilot

(See NCO's on Page 3)

## Seeks Answers

A questionnaire seeking opinion on Redstone Arsenal's food service appears on page 3 of this issue. Every Army civilian employee working on the arsenal is urged to complete the questionnaire and return it in the arsenal mail system to the Information Office, MICOM, Rm A-134, Bldg 5250.

Information obtained from the questionnaire will be used in a study being performed by a special Post Restaurant Advisory Committee. The committee is studying the feasibility of a Post Restaurant operating all vending machines, full line vending activities and cafeterias predominantly patronized by civilians. Those operations are now carried out by the Army-Air Force Exchange Service.

The Civilian Welfare Council, which is dependent upon a share of the profits of food service operations to finance numerous civilian employee activities, is assisting in the study and employee survey.

## Huntsville Firm Gets Contract

A Huntsville Company, M&S Computing, Inc., has won a \$95,500 Army Missile Command contract for work related to the Pershing missile system.

Under the one-year award, the company will evaluate by computer an improvement program for Pershing.

Pershing is the Army's most powerful land combat missile. The program is managed by the Missile Command at Redstone Arsenal, Ala., under Col. R.P. Hazzard, Project Manager.

The Missile Command's Procurement and Production Directorate negotiated the contract for the Army.

## Army Studies Wyoming Site For Safeguard

The Army last week announced that it will begin advanced preparation for possible future sites for Safeguard Ballistic Missile Defense System facilities in the vicinity of Warren Air Force Base, Wyoming.

Advanced preparation includes site survey, site selection and land acquisition.

This action was approved when the fiscal year 1971 Department of Defense Authorization Bill became law. No acquisition of interest in any real estate will be under taken until passage of the fiscal year 1971 Department of Defense Appropriations Bill and appropriate Congressional notification.

Construction of facilities or deployment of the Safeguard System radars and missiles in the Warren area is for a Missile Site Radar (MSR) with its associated Spartan and Sprint missiles and four Remote Sprint Launch (RSL) site locations for Sprint missiles.

**Dial 112  
For  
Redstone News**

## CFC Successful Despite Loss

Federally employed personnel in the Huntsville area responded to the annual Combined Federal Campaign fund-raising drive with more than a half million dollars for the third consecutive year.

The six-week drive was concluded this week with cash donations and payroll deduction pledges totaling \$505,258 from the employees of 19 Federal agencies and two satellited commercial concerns.

The Combined Federal Campaign is the only authorized fund-raising drive conducted within the Federal establishment during the year. The funds contributed go to support the work of some 150 local, national and international health, welfare and social service agencies. The great majority of funds raised by CFC go the United Givers Funds in the Tennessee Valley.

Abner McNaron, the CFC coordinator, said the drive was "a highly successful effort despite a reduction in the overall con-

tribution from the \$531,971 that was raised last year."

He explained that the minor drop was due to a decrease of over 2,000 potential contributors from the rolls. The average gift per participant was up by \$1.50 to \$27.27, with each of the participating agencies showing an increased per capita gift.

Seven agencies attained 100 percent participation and six others came within five percent of perfection as the overall rate of participation reached 96 percent.

The largest agency in the 100 percent category was the Huntsville Division of the Army Corps of Engineers, where 398 assigned military and civilian personnel contributed \$13,485. The average gift was \$35.82.

The Safeguard Logistics Command reached 100 percent with each of the 172 personnel contributing an average of \$28.96.

Other perfect agencies were the

(See CFC on Page 3)

## Three Receive AUSA's Honor Scholar Awards

Graduation ceremonies conducted Friday at the U.S. Army Missile and Munitions Center and School, Redstone Arsenal, saw 79 Army enlisted men receive diplomas for completing technical courses of up to 35 weeks in length.

Among the graduates, four soldiers were cited as honor graduates for achieving the highest overall scores in the respective courses. One of the men is from the Huntsville area.

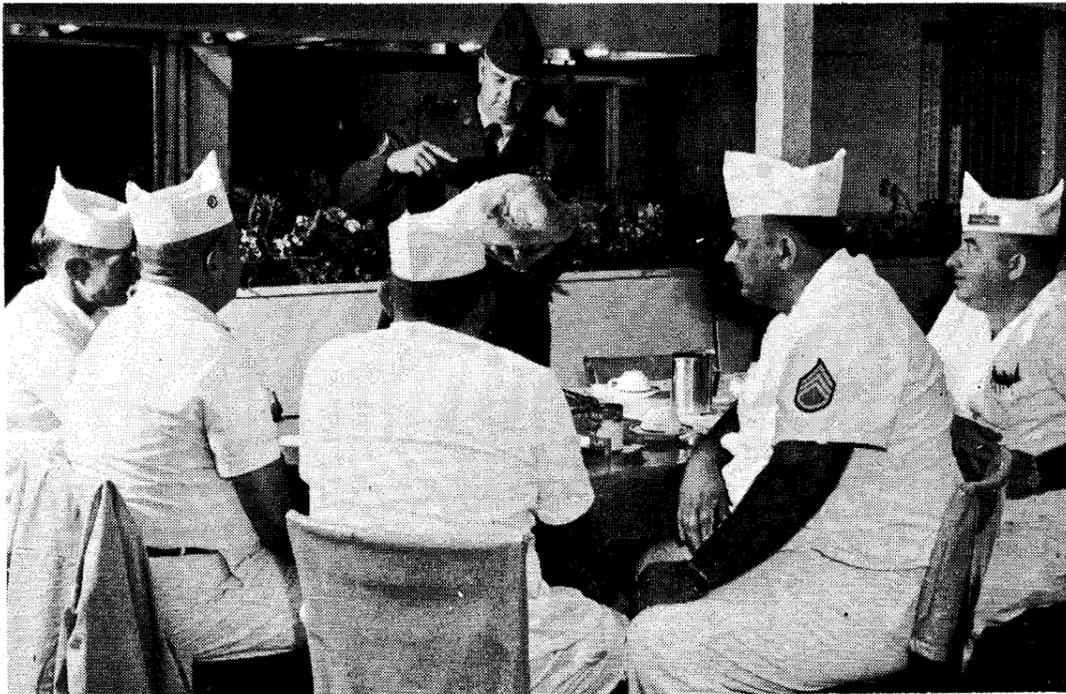
Specialist 4 Kenneth R. Butler, honor graduate in the HAWK

Missile and Launcher Repair course, is the son of Mr. and Mrs. Jack P. Butler, 3607 Stag Run. Butler's wife, Dettrina, is the daughter of Mr. and Mrs. Lester Norris, Route 10, Cullman.

The other three honor graduates were Private Richard J. Johnson of Racine, Wisc., Specialist 4 Woodrow B. Brashers from Paragould, Ark., and Private Paul J. Orheim of Tacoma, Wash. These three men also scored high enough to earn the additional distinction of being named Association of the United States Army Honor Graduates.

Guest speaker at the graduation was Major Wallace Johnson, an instructor in the Officer Training Department of MMCS. Johnson stressed to the men that how effectively they communicate will have a large bearing on how well they will do their jobs as they go on to their duty assignments around the world.

Two other graduates hail from North Alabama. Private Charles A. Sowell is the son of Mr. and Mrs. Charles W. Sowell, Route 3, Athens, while Private First Class Hoyt W. Landers is the son of Mr. and Mrs. Hoyt Landers of rural Cullman.



**IT'S TURKEY TIME**—Thanksgiving is Nov. 26, one week away. But, for food service personnel of School Brigade, Missile and Munitions Center and School, it is never too early to begin planning. Here, SFC Joseph Hall, Brigade Food Service Advisor, explains to his mess stewards some of the points in preparing the traditional bird. Seated from left are SFC Floyd Garner, Mess No. 1; SFC William Faulk, Mess No. 2; SFC Raymond Machinica, Mess No. 4; Staff Sgt. Edward Pinkley, Mess No. 1 and Staff Sgt. Kenneth Williams, Mess No. 3.

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# The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-134, 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 wanteds—is 10 a.m. Monday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P.O. Box 520, Huntsville, Ala. 35640.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

## Rocket Ruminations

No matter how important you are, you may get the measles. —Sandburg

## AMC Team Praised by General Miley

When he assumed command of the U. S. Army Materiel Command recently, General Henry A. Miley, Jr. said:

"Although . . . we are a young command, we inherited the substantial structure of the Technical Services whose materiel support of America's fighting forces and their Allies goes back to the beginning of our nation's history.

"Building on this technical base, the first two commanders of the Materiel Command, General Besson and General Chesarek, have welded together a solid structure of commodity commands, depots, arsenal, laboratories and test facilities which have been thoroughly exercised by the war in Vietnam. I believe the record will show a job well done.

"In the next phase of our history we face the delicate and often unhappy task of reducing our size and cost of operation to match the smaller military budgets planned for the years ahead. We must execute this phase with great care lest we damage or destroy the capability to support the force, both active and reserve, at a level of readiness commensurate with the national security.

"We will need, during this belt-tightening phase, the full cooperation and sympathetic understanding of the Congress, the Department of Defense, and the citizens and officials of the communities across the country—in which we do our business.

" . . . I know that my two illustrious predecessors have passed on to me a first class team of men and women, dedicated to the Army and the country.

"I am proud to become the Army Materiel Command's third commander."

**TOUR OF LIMESTONE**  
Limestone County and places of historical interest are on the itinerary of the Service Club tour Saturday at 11 a.m.

The first stop will be Mooresville for a visit to the Federal Post Office, built in 1822. It first served as a stage coach tavern. The Methodist Church where John Garfield delivered several sermons will be another stop. Antique shops, parks and other old buildings will be included in the tour stops.

The bus will leave from the Service Club. All enlisted men planning on making the trip are urged to register for lunch.

## SOUTH IS TREE-GROWER

The South is growing new trees faster than it is harvesting mature ones, reports the Southern Forest Institute. This year, the South's forest industries (pulp and paper, lumber, plywood, etc.) planted or distributed more than 465 million seedlings. The total included more than 460 million pine seedlings and almost five million hardwoods. Almost 60 million of the seedlings planted this year are genetically superior seedlings which will grow taller, bigger around, straighter and up to 25 percent faster than ordinary trees.

## Combined Federal Campaign Scoreboard

	Tot. Funds	Per Cent Participation	Av. Gift
Army Missile Command	\$213,218	98	\$ 25.21
MSFC	166,982	96	31.86
Safeguard Sys Command	36,198	99	38.35
Safeguard Log Command	4,980	100	28.96
AMMCS	30,158	99	13.29
Def Con Adm Svcs Off	1,236	86	13.74
Social Security Adm	282	100	14.10
Civ Service Commission	491	100	27.29
Econ Dvmt Administration	1,060	100	19.28
Post Office Dept	1,297	25	15.83
Tennessee Valley Auth	283	55	18.91
Internal Rev Svc	429	93	15.35
Govt Acctng Office	104	100	8.69
Small Business Adm	90	100	90.00
USA Engineer Division	13,485	100	33.88
Def Con Audit Agcy	877	93	23.08
Thiokol—Huntsville Div	30,290	89	59.51
Adv Bal Msl Agcy	3,152	98	35.82
Marine Trng Det	167	98	4.08
Dept of Labor	10	33	10.00
Redstone Fed Cr Union	361	94	8.21
<b>Total</b>	<b>\$505,258</b>	<b>96</b>	<b>\$ 27.27</b>
<b>COMPARISON WITH 1970 CFC</b>			
	<b>1970</b>	<b>1971</b>	
Total Dollars	\$531,971	\$505,258	
Assigned Personnel	21,304	19,275	
Participants	20,635	18,528	
Per Cent Participation	97%	96%	
Average Gift	\$25.78	\$ 27.27	



**ON LOCATION**—The television production unit of the Missile and Munitions Center and School's television department shoots a scene of decontamination procedure for a training tape at Ft. McClellan. MMCS pioneered the use of television in classroom teaching in the late 50's and became a Continental Army Command Regional Production Center in 1965. The production team has travelled to Ft. Leavenworth, Kans. and Ft. Benning, Ga., producing video tapes for military training.

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### CIVILIAN EMPLOYEE CAFETERIA SURVEY

1. What is the post cafeteria nearest your work site? 5250 .....  
4488 ..... 4505 ..... 5400 ..... 5681 ..... 7101 .....
2. Do you eat breakfast in a post cafeteria? Yes ..... No .....  
If yes, Regularly ..... Occasionally .....
3. Do you eat lunch in a post cafeteria? Yes ..... No .....  
If yes, Regularly ..... Occasionally .....
4. If you eat lunch in a post cafeteria, which services do you normally use?  
a. Beverages, chips, desserts only .....  
b. Soups, sandwiches, salads only .....  
c. Full meals .....  
d. All of the above .....
5. Indicate your opinion of the following items relating to post cafeterias:  
a. Quality of food: Good....., Average....., Poor.....  
b. Quantity of food: Good....., Average....., Poor.....  
c. Variety of food: Good....., Average....., Poor.....  
d. Prices: High....., Average....., Low.....  
e. Facilities: Adequate....., Inadequate.....  
f. Service: Adequate....., Inadequate.....
6. What, if anything, is most in need of improvement? (Check one)  
a. Nothing: .....  
b. Quality of food: .....  
c. Quantity of food: .....  
d. Variety of food: .....  
e. Prices: .....  
f. Other (specify) .....
7. If you are not a regular patron of post cafeterias, would you use them if conditions you marked in Item 6 were improved?  
Yes....., No.....
8. If you are not a regular patron of post cafeterias, would you use them if you had more time for lunch?  
Yes....., No.....
9. If you do not eat in post cafeterias regularly, where do you eat lunch?  
a. At work site (bring lunch) .....  
b. Use vending machine service .....  
c. Marshall Space Flight Center cafeterias .....  
d. NCO or Officers Open Mess .....  
e. Off post restaurant or sandwich shop .....  
f. Home .....
10. Provide any other comment you would like to make on food service at Redstone on a separate sheet of paper and attach to this questionnaire.
11. Name .....
- Work Site (Bldg No.) .....

### CFC

(Continued from Page 1)

Social Security Administration, the Civil Service Commission, the Economic Development Administration, the Government Accounting Office and the Small Business Administration.

The Safeguard Systems Command attained 99 percent participation with the contributions averaging \$38.35. Also coming within a single percentage point of total participation was the Army Missile and Munitions Center and School.

The largest single contribution came from the largest agency. The Army Missile Command attained a 98 percent participation rate with the donations totaling \$219,318. The Advanced Ballistic Missile Agency and the Marine Corps Training Detachment also reached 98 percent.

The Marshall Space Flight Center reached 96 percent while reporting a total contribution that exceeded last year by over \$6,000 despite a manpower reduction of almost 200.

Among the non-Federal agencies, the Redstone Federal Credit Union reached 94 percent in participation and the Thiokol Chemical Corp. received donations from 509 of the 574 employees at Redstone Arsenal.

Bare participation figures, however, do not tell the story of the effort at Thiokol where all existing records were exceeded.

The workers responded to the annual appeal with contributions totaling \$30,290 for an average gift of \$59.51.

U.S. Savings Bonds belong on every Christmas list. They always fit, are never out of style, and gain in value with each passing year.

### UTILITIES

(Continued from Page 1)

The heat is cut off entirely in some buildings and will be cut off in a majority of others when the outside temperature exceeds 65 degrees.

Coal to fuel the electric power plants operated by the Tennessee Valley Authority, which supplies electricity for Redstone, is also in short supply. Arsenal personnel are being asked to conserve electricity and have been doing so by leaving off lights in many corridors and in offices with windows where natural daylight is adequate on sunny days.

Arsenal officials are urging continued cooperation.

### NCO's

(Continued from Page 1)

training with the Air Force in addition to work in the evaluation of crew training for the Air Training Command.

The Platform Presentations are open to MMCS officers as well as to senior NCOs.

### USO SHOW

Bob Williams and his USO show will appear at the Service Club on Sunday at 8 p.m.

Bob has about thirty or forty members in his volunteer group and is now furnishing entertainment for the Service Men at other installations.

The USO show is looking for more talent and will welcome any interested person into the show.

### TURKEY SHOOT

The Redstone Arsenal Rod and Gun Club will hold its annual turkey shoot November 21 and 22 from 9 a.m. till dark at the clubhouse area at the northeast corner of the Patton Road overpass. Shotgun shells will be provided, and everyone is invited to come try their luck.

Under a new law, there is no longer a terminal date for a G.I. home loan for any eligible veterans, including WWII and Korean Conflict veterans who never used this benefit.

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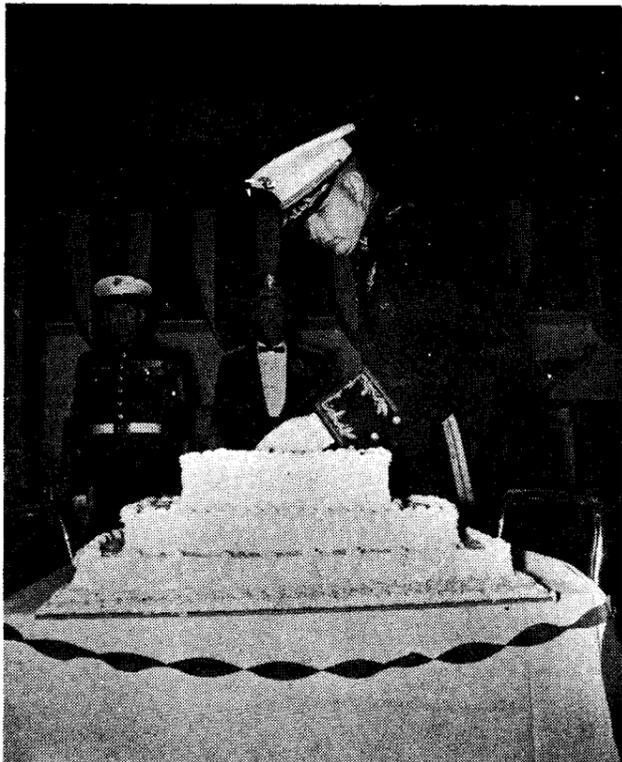
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HAPPY BIRTHDAY, MARINES!—Major F.J. Snyder does the cake-cutting honors as fighting leathernecks who are stationed at Redstone Arsenal celebrate their 195th anniversary. The Marine Corps Birthday Ball and traditional cake-cutting ceremony was held last week at the Redstone Arsenal Officers Open Mess. Major Snyder is Marine Quartermaster General Liaison Officer to the Army Missile Command.

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# Questions Answered On Off-Post Housing Policy

The Department of Army has issued a fact sheet explaining its program to insure equal opportunity in off-post housing, along with steps for soldiers to take who encounter discriminatory practices.

According to policies adopted in 1967, the Army will prohibit all personnel from renting or leasing housing from any landlord whose facilities are not available to all servicemen on an equal basis.

Two thirds of all military families reside off post in privately owned dwellings.

Any Redstone Arsenal soldier who feels he has been discriminated against in seeking to rent, lease or purchase housing, has several channels to seek redress. But the first step, in any case, is to report discriminatory practices to Jimmy T. Temple, Special Assistant for Equal Employment Opportunity at the Army Missile Command.

Following are questions and answers about the Army's program:

**Q.** What is the Equal Opportunity in Off-Post Housing Program?

**A.** The program is a means of providing a recourse for you whenever you encounter discrimination while looking for off-post housing. It will work for you but only if you initiate the action.

**Q.** How does the program operate?

**A.** The Equal Opportunity in Housing Program operates in conjunction with the Off-Post Housing Referral Service. The overall program is governed by the policy that all Army activities will be conducted without discrimination and in a manner which insures equal opportunity and treatment for all eligible persons regardless of their race, color, sex, religion or national origin.

The commander of each installation in the United States is required to either establish a

Housing Referral Office (HRO) or secure this service for his personnel through an established HRO. Each HRO is responsible for the following:

—Compiling and maintaining an up-to-date listing of suitable housing units within the commuting area that are available to all military personnel without segregation or discrimination because of race, color, sex, religion or national origin. Each HRO, as applicable, maintains listings of housing that may not be rented or occupied by military personnel because of discriminatory practices by landlords.

—Staying abreast of the housing situation in local communities and providing this information to interested personnel.

—Counseling military personnel on the availability of assistance in resolving complaints between tenant and landlord.

—Acting as point of contact for military personnel who encounter discrimination when seeking off-post housing.

—Advising commanders on imposing sanctions against rental properties that are not made available to all personnel without discrimination.

**Q.** Are soldiers required to check with the HRO upon arrival at an installation?

**A.** Yes. Every soldier who is authorized to occupy and who requires off-post housing is required to check with the HRO before renting private housing. All PCS orders include a paragraph or reference to this effect.

**Q.** Does the housing referral service advise prospective tenants on all aspects of the housing situation?

**A.** Yes. It advises on the types and costs of available private rental housing, schools, shopping facilities and other community services.

**Q.** What specific restrictions may be imposed by commanders

regarding where military families may reside off-post?

**A.** Each military person retains his or her freedom of choice in the selection of private accommodations except that no member of the military may reside in any facility against which sanctions have been applied because of discriminatory practices.

**Q.** What action will be taken by the Army commander when a member of his command complains of being unlawfully discriminated against with regard to housing?

**A.** All Army installation commanders are required to conduct preliminary inquiries and attempt to secure appropriate relief for the complainant if the inquiry supports the charge of unlawful housing discrimination.

If the local commander cannot resolve the complaint locally, he will conduct a more detailed inquiry and forward the case to Department of the Army for further action. In all cases the complainant will be advised of the actions taken in his behalf.

**Q.** What other actions may military persons take when they believe they have been unlawfully discriminated against while trying to rent or lease housing?

**A.** The right of individuals to pursue remedies through civilian channels is unchanged. Each person alleging unlawful discrimination may:

—Make a complaint direct to the Department of Housing and Urban Development (HUD). (Complaints to HUD must be submitted on HUD Form 903 which is available from the nearest regional office of HUD or by writing: Fair Housing, Housing and Urban Development, Washington, D.C. 20410.)

—Address the complaint to the U.S. Department of Justice.

—Bring a private civil action in the appropriate local, State or Federal court.

In every instance, complainants

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Rm A-134, Bldg. 5250**

may seek military legal assistance in preparing and filing complaints from the local military legal assistance officer.

The policy of the United States is to provide, within constitutional limitations, for fair housing practices throughout the United States. Rights and remedies are

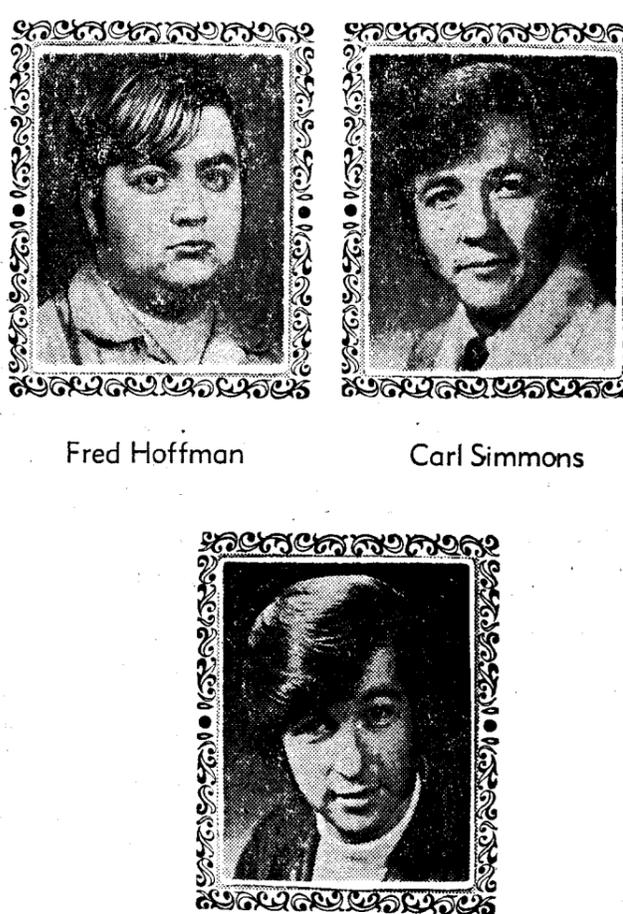
provided military personnel and civilian employees of the Department of the Army by 42 U.S.C. 1982 and by Titles VIII and IX of the Civil Rights Act of 1968.

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**GIFTS FROM HOME**—Members of the South Parkway Homemakers Club wrap gifts destined for the 93rd Evacuation Army Hospital in Vietnam. The club, which won the honor of Homemaker Club of the Year in Madison County, is working with "Operation We Care" to provide gifts to the Huntsville community's adopted hospital. "Operation We Care" is currently making an appeal for assistance to see that every patient and staff member of the 93rd Hospital receives a Christmas gift. Those pictured, from left, include Mrs. L.H. Riley, Mrs. H.R. Sells, Mrs. J.G. Motter, Mrs. Bob Newton, Mrs. C.H. Eadon, Mrs. Jack Rogers, Mrs. E.A. Hasemeyer, and Mrs. Charles R. Perry. Not pictured were Mrs. A. Thomas Byrd, Mrs. Norman Bresette, and Mrs. Ernest L. McMurtrey. The group gift-wrapped more than 500 individual packages in the home of Mrs. Motter.

## Red Cross Volunteers Receive Caps

Eighteen new Red Cross Volunteers received caps in ceremonies at the Post Chapel Monday morning at which Mrs. Edwin I. Donley, now Honorary Chairman and a former Chairman of Volunteers at Redstone Arsenal, gave the welcome.

Chief Nurse at the Post Hospital, Lt. Col. Hazel Outlaw presented the caps assisted by Mrs. R.W. Bregard, assistant Hospital Chairman. Mrs. R.P. Hazzard, present On Post Chairman presented a list of announcements following acceptance of the class by Col. Ernest M. Bralley, Jr., Post Surgeon and LTC R.I. Hart of the Dental Clinic.

Others participating in the ceremonies in addition to the class were C.K. Emery, Red Cross Field Director, and Col. Robert F. Mashburn, Post Chaplain.



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**DISCUSS CHARITIES**—Mrs. Gordon D. Rood, chairman of the Harvest Ball, discusses the success of the annual fund raising event with the Redstone Officers Wives Club president, Mrs. Preston B. Canady, and the Welfare Chairman, Mrs. Raymond L. Dinger, at the Redstone Officers Open Mess. Mrs. Rood turned over \$1728 to Mrs. Dinger to be used for charities which the Officers Wives Club sponsors. The exchange took place at the Wives Club luncheon last week.



## Magic Hour Dresses

Be bewitching. Let our magical chiffon dresses cast a romantic spell that adds enchantment to all your late-day holiday hours. See, choose yours now.

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### New Arrivals

SGT and Mrs. Bert C. Bolerjack, girl, Monica Eilene, Nov. 5.

PVT and Mrs. Woodrow B. Brashers, boy, Christopher Ian, Nov. 7.

CPT and Mrs. Alvin D. Young, boy, Chadwick Davis, Nov. 10.  
SSG and Mrs. Nicholas J. Grana, boy, Nicholas James, Nov. 11.

MAJ and Mrs. Kenneth A. Ingram, boy, James David, Nov. 11.

PVT and Mrs. James Maxwell III, boy, Brady Eugene, Nov. 13.

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Four honor roll series were recorded both at the local lanes and in downtown houses by Arsenal bowlers.

At the local house Roy Henderson, Wesley Monday and Larry Makanani posted the 600 sets while John Loflin hit the maples at Parkway Lanes. Henderson's 613 was in vain against 249th Ord. Det. in the School Brigade League as Co. C dropped three points. Henderson, bothered with splits in the tenth frame of games No. 2 and 3, had games of 189-224-200. (Someone made the comment that Henderson should always go golfing before bowling. Henderson scored an eagle on the local links.)

Monday shot his first honor roll set in propelling Co. B to a four point slaughter of the Marines. Co. B is now only one-half point behind the leaders, Delta 88s. Sandwiched between a 173 and 182, Monday hit a 246, high for the night during the Brigade league action. Also on Friday, Monday had a 217, second high for the night, behind Willie Wiggins 219.

Makanani, the old pro, hit his third honor roll set for the young season. His 627 powered Retired to a four point win over Nike Track. Makanani's games were

203-188-236. John Loflin had a 651 at Parkway Lanes last week on games of 180-230-241. Loflin didn't stop there, Sunday he shot a triplicate 192, also at Parkway.

### LEAGUE REPORTS

The Lucky Strikes took three points from Sperry to extend their lead in the Arsenal Officers League by five points. While the Strikes were being lucky, the Sandbaggers lost all four points to the Hardhats while the Blackjacks moved into second place by one-half game over the 'Baggers.

The Brigade League has really tightened up. The Delta 88s league leaders won four from 200th Ord. Det. while Co. B, in trouncing the Marines, moved to within one-half point of the leaders. Retired, Co. A, and Hq. Co. all with a 24-12 record, are tied for third. All registered four point wins against their opponents. Tied at third place are 249th Ord. and one-time leader Nike Track with a 23-13 showing, 249th was a three-point winner over Co. C while Track lost to Retired.

In the Redstone Arsenal Officers Wives Club League, the Pacesetters are still setting the pace. The Disposables were disposed of and sent to seventh

## Five Arsenal Riders Score

Three members of the Redstone Saddle Club won first places in the Huntsville Pony Club Show last week.

Wendy Walker took first place for unrated D riders and stable management and second in jumping for C riders.

Emily Hawkins won first place for unrated D riders combined with dressage and stadium jumping and cross country.

Rebecca Haynes took top honors in stable management and fifth place for D and unrated riders.

Second place for unrated riders went to Jeanine Cobb while Mike Langlely took third for D and unrated riders in a combination of events.

Redstone Saddle Club members have been making an outstanding showing in competition around the Huntsville area.



**BEST C NETTERS**—Jim Daily was in center stage when it came time to pass out the trophies for the post season tennis tournament staged by players on the C Division ladder sponsored by the Civilian Welfare Fund. Daily won the title with a final round victory over John Pettit (left). Caleb Burgoyne won the consolidation title, defeating Art Marler (Far right) in the final match.

## MID Tightens Race In S&M

The S&M Bowling League was tightened somewhat last week when the MID quintet doled out a 3 to 1 setback to the leading Bushwackers and the U-Tote-Ums took over second place after winning all but a half point of their set with the Auto Center.

Reba's were only able to win a single point from the Pin Spotters in relinquishing the runner up slot and the King Pins shutout the (not so) Lot-O-Pins in a battle at the lower end of the standings.

The Bushwackers got a 204 from Jimmy Likos in their single winning game but were unable to keep up with the all-around attack of MID the rest of the way.

Gil Vitale shot a 215 and a 201 to grab individual honors for the week with 597 for the Pin Spotters. Carl Beach topped Reba's with 520

while Bob Faust and Dick Pingry joined the 500 club for the Spotters.

The new second place occupants got a 543 from Oliver Graves in their near sweep and Clayton Bales joined the attack with 502. Tom Johnson and Jim Evett each went over 600 with handicap for the losers.

Mike Holland gave Vitale quite a run for top score of the week before settling for second with 587 in the King Pin sweep. Holland had games of 213 and 203 and his team mate, John Howard, totaled 519.

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**NO TAP TOURNAMENT**  
Charles and Lillie Rodeen posted a 1136 mixed doubles score in the No-Tap Tournament. The management of the Redstone lanes reports that the tournament will close before the December 20 deadline due to lack of interest. Cost of entry is \$1.50. Prize fund will be based on number of entries. Speaking of tournaments, start thinking about the Huntsville Bowling Association's 18th Annual Championships. This year they will be held at the Parkway Lanes Jan. 23, 24, 30 and 31. Deadline for entry is Jan. 3, 1971. More on that next week.

**HIGH & LOWS**  
Pete Henderson 538-202, Bruce Sheets 543-232, William Delchamps 555-220, Buddy Peek 544, John Heishman 524-221, R. Taylor 537, Charles Scott 543-210, Wylie Cooper 551, Charles Johnson 541, George Huffman 537, Henry Mattern 537-200, Carolyn

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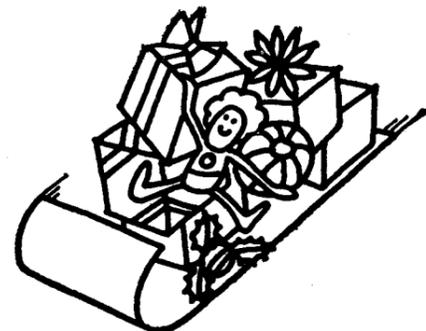
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## Tigers Grab Share Of AMC League Lead

The AMC-Civilian Welfare bowling league is involved in a close race again following the second straight setback handed out to the leading DeVault quintet.

Now, after losing three out of four to the Sprinters and T-Birds on consecutive weeks, the erstwhile front runners find themselves with company in the person of the Tigers. Three more fives are deadlocked for third, four points off the pace.

The Tigers gained a share of the top spot by winning three from the Bombers. The Bandits could only win a single point from the Raiders and saw their point total equalled by Sheraton and the Tow Boys.

Ron Backer went over 200 in each of his three games in shooting

a 615 (212, 201, 202) but it wasn't enough to get the DeVaults more than a single point from the well-rounded T-Bird attack.

Each of the Birds went over 500 with Dick Gill setting the pace with 530. Al Stiles chipped in with a 544 for the DeValults.

The Bandits got a 549 from Chuck Baker, a 540 from John Goltz and a 537 from Willie Wiggins but the Raiders had three of their own number firing to grab the win. Jimmy Galbreath was high with 586, Bill Brazelton chopped down 562 maples and Ed Gilgenast hit for 547.

The All-Sports had another three-man spree going for them in taking two and a half points from the Sprinters. Red Totten showed

the way with 555, Ed Leahy hit for 548 and Hal Madry turned in a 529. Al Rossi had a 532 for the Sprinters and Joe Leary turned in a 528.

The Sheratons gained a share of third in winning all four from the Wonnors as Ken Champagne hit for 533 and the Tow Boys did the same by taking three from the Alley Cats.

The Cobras started a climb back

into contention by blanking the Jokers and the Metro Cals got a 540 performance from Pete Coulter in forging a split with the Rejectors.

A new law removed the "inability to pay" requirement for all veterans 65 years of age or older having war or peacetime service, and for veterans who receive VA pensions.

### AUSA WILL MEET

The Tennessee Valley Chapter, Association of the U.S. Army will hold its first general membership meeting of the 1970-71 year tomorrow beginning at 6:30 p.m. in the Redstone Officers Open Mess.

The speaker will be John H. Popham, managing editor of The Chattanooga Times, whose topic will be: "The Contemporary Crisis and Its Challenges."

## MICOM Girls Roar Back By Stopping State Farm

A stirring last period rally turned an almost certain defeat into a big victory for the Missile Command girls last week and propelled them back into the Huntsville Industrial Women's basketball league title picture.

After dropping an overtime loss the week before, the CWF-sponsored Army girls were faced with a "must" situation in a battle with State Farm, winners of 26 consecutive league games over a period of three years. And win they did, by a single point, 63-62.

And for three quarters No. 27 appeared to be in the bag with the defending champions in front by 14 points, 56-42.

But the final period was all MICOM as Gladys Hill, Sandra Harrison and Joyce Ingram took care of the scoring while Carole Bissinger, Wyonelle Pennington, Paula Legg and Linda Melton completely throttled the high scoring antics of the State Farm forwards.

Gladys and Sandra connected for four goals apiece and Joyce canned a free toss to cut the deficit to three points with a minute still on the clock. Another Hill jumper ringed the net to make it 62-61 half way through the final minute.

On the return Melton intercepted a pass and fed the ball to Harrison whose ten foot jumper rolled off. But Hill grabbed the rebound and canned the winning points.

Gladys ended the evening with 35 points and Sandra added 20 more. Joyce hit for six and Carole hit one goal while playing in front court briefly.



CONSULTANT REVIEW TEAM—Harry F. Vincent (standing), Project Director of Research and Engineering, points out the Chaparral launcher assembly to members of an Army Missile Command Consultant Review Team. Pictured from left are Dr. Robert Newton of John Hopkins University, Dr. Bruce Reese of Purdue University, Dr. Henry Zimmerman of the Massachusetts Institute of Technology and Dr. Arthur Menius of North Carolina State University. The team members, specialists in missile technology, are evaluating future missile system programs and will recommend new technology programs to the Director of R&E.

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# Missile Test Plan Avoids Cost

Army missilemen have a two word answer to the question they hear often from laymen. It usually goes:

"How do you know something as complicated as a guided missile will work?"

The answer, all the more effective because it is true:

"We test."

Simple as it sounds, testing, particularly the testing of Army missiles, is an incredibly complex, time consuming and costly business. It has been estimated that up to 40 percent of the millions of dollars required to develop a guided missile system are spent in some kind of testing.

By careful planning, combining where possible, and screening out potential duplication, the U.S. Army Missile Command in its unique life cycle approach to missile testing has recorded substantial cost avoidances.

A recent check on six of the missile systems it manages for the Army revealed almost \$60 million in potential test costs had been avoided through coordinated management actions.

The opportunity to apply similar techniques exists in almost every major item of Army equipment and is receiving renewed emphasis throughout the U.S. Army Materiel Command as a special task in AMC's PROMAP-70 program, a major effort to improve all phases of the weapons acquisition process.

Testing begins long before a weapon system takes shape, continues throughout its service

lifetime and ends only when the weapon is removed from service use. There are nine formal categories of tests conducted during a normal development program, seven more while it is in production and use, four others that must be accomplished in



whole or part before the item is turned over for troop use.

Costs and time delays add up fast on a particular item of hardware when the required tests are conducted sequentially and independently by each Army agency and element charged with a portion of the total testing program.

The Missile Command's successful approach brings all interested elements within the command as well as other Army and government agencies in early to work out a complete test plan covering the entire lifetime of a particular item.

That kind of combined effort, applied to the long range Pershing missile, for example, arranged testing to avoid firing several additional missiles that would have cost more than \$5 million. Evaluation of new components in the missile and its ground equipment were successfully tested during annual service practice firings when operational units conducted 'launches' under simulated combat conditions.

The project office managing development of the new SAM-D surface to air missile system avoided, through early coordination with the Army Test and Evaluation Command, testing that would have cost more than \$40 million. Part of TECOM's requirements were satisfied by using development and simulation test data that otherwise would have had to be accumulated and proven on tests using actual system hardware.

Still another combination by the Shillelagh project office avoided almost \$9 million in missile costs

by using the missiles, held in storage for a prolonged period to verify the weapon's ability to perform satisfactorily years after manufacture, to meet requirements for several hundred rounds to be fired in annual service practice.

Those actions, and other substantial cost avoidances in the Dragon and TOW missile programs, resulted from adhering to the single life cycle concept of testing developed at the Missile Command. The concept has been implemented in a command regulation combining a multitude of Army regulations on the subject in a single document.

Within each project office managing a particular missile system, a single individual has been designated test manager with full responsibility for all testing to be performed on that weapon system.

Combining test operations is not limited to hardware alone, but also covers where the tests are conducted and by whom. The Missile Command has avoided costs by testing some of the smaller weapons it manages at its own facilities on Redstone Arsenal.

The life cycle approach works just as well when applied to hardware for weapons that have been in Army use for almost 20 years. The Honest John Free rocket has been around that long undergoing periodic technical changes to keep it up to date for service use. When new launchers were ready for test in actual firing operations recently, the Missile Command combined the tests with some previously scheduled firings for other purposes and avoided costs of about \$82,000.

## Re-Ups Up At MMCS

"You can't argue with success," the old saying goes, and two career counselors at the Missile and Munitions Center and School (MMCS) aren't even getting any quibbling about their performance.

MSG Rudolph Blackstock and SSG Dean Britt, reenlistment NCO's for MMCS, have a record of repeatedly topping their objectives which explains why they're pleased with the fruits of their efforts. The latest distinction their ambitious counseling has helped earn for MMCS is the highest overall reenlistment rate in Third Army among commands in its size category.

While this "first" was earned for the first quarter of fiscal year 1971—July through September of this year—it's no exception to previous reenlistment figures set by the School. Actually, for the entire year preceding that three-month period, MMCS was toss in Third Army for its size category in overall reup rate.

The efforts of career counselors Blackstock and Britt not only contributed to winning another reenlistment certificate from Third Army for the School. They also helped push the number of MMCS reenlistees for last quarter to 120 per cent of the objective set by Third Army.

Modestly, Blackstock said a big factor in the success of the reenlistment program is the "tremendous" cooperation he and Britt have received from unit commanders and NCO's at MMCS.

Nurses who obtained government-sponsored student loans while in school may earn credit toward loan cancellations by serving in a professional capacity in VA hospitals.



NORWEGIAN VISITORS HONORED—Maj. Gen. Johan Bert (right), Army Commander of West Norway, salutes the colors during an honor ceremony for him last week at Redstone Arsenal. At left is Col. Louis Rachmeler, Deputy Commander of the Army Missile Command. While here, Gen. Berg and his party were briefed on a variety of Missile Command weapon systems.

## Space Center Adds Quick Monoplane

Few people are aware, however, that an aircraft was developed near Huntsville in the early 1900's. Completely restored, it was put on permanent exhibit Nov. 4 at the Alabama Space and Rocket Center.

Known locally as the Quick Monoplane, the bat-like craft was invented in early 1900 by William L. Quick who lived in northern Madison County. Construction of the aircraft took about eight years to complete. The first and only flight was made about 1908 by Quick's brother William M. Quick. The craft flew only a few seconds, flying several feet off the ground for a short distance before running out of flying space in a pasture field.

Complete restoration was completed by the members of the Aircraft Association with the help of Joe Quick, son of Will Quick, inventor of the airplane. The craft stands 7 feet tall, 18 feet long, and has a wing span of about 38 feet. It is powered by an early model Ford engine and weighs approximately 500 pounds.

The Monoplane is now on permanent exhibit in the Missile and Space Hall hanging above rocket engines used to power the Mercury-Redstone, Jupiter and Saturn rockets. It is in close proximity to one of two remaining X-15 rocket planes, used for record-setting flights to the edge of space with future astronauts at the controls.

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## Thiokol Earns FY 70 Safety Award

Col. E.J. McGinnis, Chief of Staff, U.S. Army Missile Command, recently presented the Army Materiel Command FY 1970 Award of Merit for Safety to Thiokol Chemical Corporation-Huntsville Division.

In making the award to John H. Goodlow, Vice President and General Manager, Col. McGinnis said, "The presentation of safety awards to Thiokol's Huntsville Division has almost become a tradition.

You have accomplished a real savings by substantially reducing your accident cost per capita from \$236.89 (FY69) to \$6.12 (FY70). In presenting the award, I note with pride that you are maintaining a no

disabling injury record that began in January 1969 and that you have compiled to date 2,236,332 injury free man hours. I extend the personal congratulation of both Gen. F.J. Chesarek, Commanding General, U.S. Army Materiel Command, Gen. E.I. Donley, Commanding General, Army Missile Command.

The plaque reads "U. S. Army Materiel Command Award of Merit for Safety is presented to Thiokol Chemical Corporation, Huntsville Division, for superior achievement in the prevention of accidents by the establishment and maintenance of a comprehensive and effective safety program during FY 1970."

## Theatre Schedule

WED., Nov. 18  
 "Underground" (GP)  
 THURS.-FRI., Nov. 19-20  
 "Tell Me That You Love Me, Junie Moon" (GP)  
 INCREASED ADMISSION:  
 adults .50, children .25  
 SAT., Nov. 21  
 "Journey to the Far Side of the Sun" (G)  
 SUN.-MON., Nov. 22-23  
 "Little Fauss and Big Halsy" (R)  
 INCREASED ADMISSION:  
 adults .75, children .25  
 TUES.-WED., Nov. 24-25  
 "Bullitt" (GP)

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

## Space Center Film Wins International Accolade

"Freedom To Explore," the Alabama Space and Rocket Center's feature film won a top award last week at the International Film and TV Festival of New York.

The gold medallion award was presented to Edward O. Buckbee, Director, Alabama Space and Rocket Center by Frank Blair of NBC News, Today Show. The award was one of five presented in the special recognition category.

The film, produced for the Center by Audio Productions, New York City, has also received

the Chris Statuette Award presented by the Columbus Film Festival, Columbus, Ohio, for excellence in public relations. The CINE Film Festival of Washington, D. C. recently awarded a Golden Certificate to the Center for Freedom To Explore and selected the film to represent the United States in several foreign film festivals.

Freedom To Explore is an 11-minute multi-image production that is shown every hour at the Alabama Space and Rocket Center.

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### Susannah

by Carlisle Floyd

**MAY 1, 1971**

Set in the Tennessee Valley, this contemporary opera will thrill you with its beautiful music and earthy drama. Jeffrey King of Athens College, who studied with the composer, will direct.

### Gianni Schicchi

by Giacomo Puccini

**JUNE 19, 1971**

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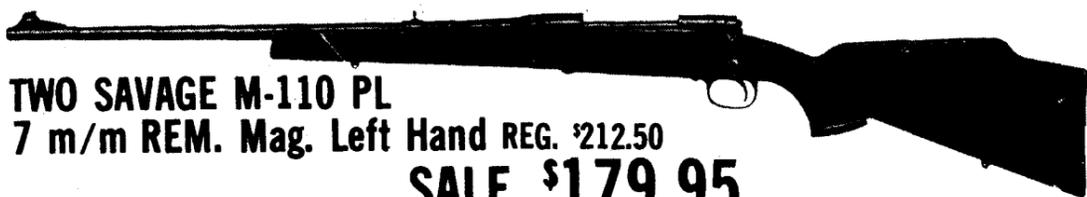
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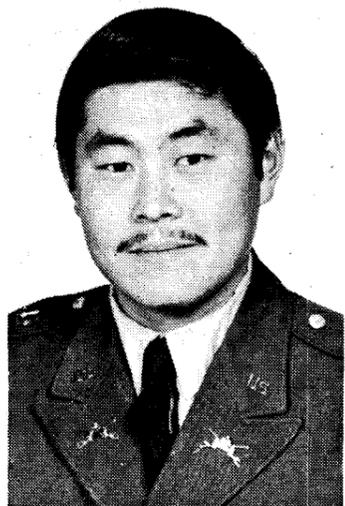
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**NAMES IN THE NEWS**

**SP4 JERRY BERG**

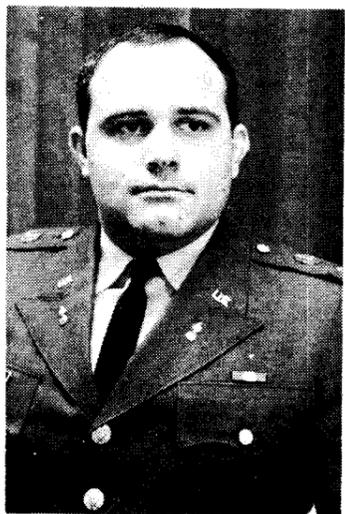


**1LT STEPHEN T. SATO**

**SATO TAKES OVER 6TH ETC**

Men of the 6th ETC have a new leader this week. In change of command ceremonies held last Thursday, 1LT Stephen T. Sato took over as commanding officer from CPT Robert L. Cardin. Sato comes to the company from an assignment as Assistant Foreign Liaison Officer for MMCS. A native of Gardena, Calif., he entered active duty in May, 1969.

Cardin, having completed his active duty obligation, plans to continue his education by returning to Georgia State University.



**2LT RAYMOND TALLMAN**

**JUST UNDER THE WIRE**

Also, we've learned just at deadline time that Company A has a new commanding officer, effective today. Change of command ceremonies were held this morning, with 2LT Raymond D. Tallman II taking over the unit. Tallman graduated from the Missile Maintenance Officer course here in September and since then has been serving as supply officer for Co. D. A native of Columbus, Ohio, he entered the Army in January of this year and holds a Bachelor of Science degree from Ohio State University.

**KEEP CLIMBING THAT LADDER**

Promotions are always good news, and for those receiving them they're especially welcome at this time of the year. (Christmas, remember, is only 32 shopping days away!) This week we have a dozen MMCSers who'll be able to play Santa Claus with a little less strain on their pocket-books.

Topping the list is LTC John H. Wigginton, chief of Logistics Division, OTD. Col. Wigginton acquired his silver oak leaves

Nov. 9th in ceremonies held in the commandant's office.

CPT David A. Kocian moved up to his present rank last week. A recent honor graduate of the Ammunition Officer course here at MMCS, Kocian is on his way to a duty assignment in Vietnam.

In the enlisted ranks, two NCOs added another stripe each. For MSG Charles M. Des Roiser, Co. A, it was a third rocker under his chevrons, while SFC James W. Russell, Co. C, tacked on his second rocker.

Stepping up from PFC to SP4 were six soldiers from the 6th ETC who graduated from the Hawk Missile and Launcher Repair course Friday. They are Robert D. Adcock, Kenneth R. Butler, Charles G. Cryer, William Steinmueller, Ben White, Jr. and James R. Whitley.

Leonard Duke, another trooper from the 6th, proved that hard study is one sure way to make rank. Duke advanced to SP4 through the outstanding student promotion system.



**SP4 WILLIAM WILCOX**

**WILCOX NAMED INSTRUCTOR FOR THE QUARTER**

For an outstanding job of teaching, a Co. D soldier was singled out last week by DIT.

**VETERANS**

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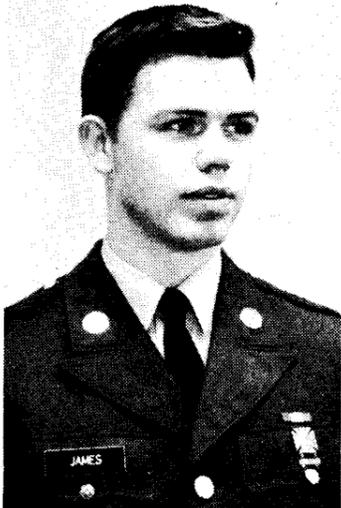
SP4 William E. Wilcox was named MMCS Instructor of the Quarter for the third quarter of this year (July through September.) Wilcox teaches in Redeye Branch and calls Birmingham home. Congratulations to a deserving instructor.

**THAT TIME OF THE MONTH AGAIN**

Last week was an active one in the awards department in spite of what midweek holiday to honor veterans. The 1st and 2nd Battalions both held their monthly award ceremonies and for good measure the 3rd Battalion added a presentation of its own.

At 1st Battalion, the Army Commendation Medal, First Oak Leaf Cluster, was presented to SSG Lee A. Truss of Co. A. Truss was recognized for his meritorious service as a power plant operator and repairman with Advisor Team 96 in IV Corps, Republic of Vietnam.

The 1st Battalion ceremony saw Company A walk off with two honors. For the largest contribution to the blood drive during October, Co. A was awarded the Battalion Blood Donor Trophy. And, for generally keeping their house in order, the men of Alpha were given the Battalion Honor Company guidon streamer and rotating trophy. Their company earned the distinction for September and October.



**SP4 ROBERT J. JAMES**

While we're at it, 1st Battalion's Soldier of the Month for November was selected last week from men representing the four letter companies. He's SP4 Robert J. James, an instructor assigned to Co. D, and hails from Flint, Mich. Best of luck, Bob, as you work your way up the elimination system to post level SOM.

The 2nd Battalion, meanwhile, selected the 7th ETC as their Honor Company for October. For keeping their "home" in a high state of military order, men of the 7th were awarded the Honor Company trophy, and, since this was the third month in a row they've taken it, they also walked off with a gold streamer for their guidon. Keep looking sharp there, men.

Another Soldier of the Month hopeful will be on his way to MMCS level competition next month. PFC Frederick M. Sanchez, 5th ETC, was named 2nd Battalion SOM for November at the Battalion award ceremony last Tuesday.

SSG William W. Weaver was presented a certificate of completion for a correspondence course not normally studied by NCOs. Weaver, of the 4th ETC, successfully worked his way through the 155-hour Ammunition Officer course.

**GIVING, THE RED-BLOODED AMERICAN WAY**

Also cited at the 2nd Battalion ceremony was the 4th ETC, for best participation in the October blood drive among units in the larger size category. Sixty men from the company, representing over 30 percent of its personnel strength, gave a pint each. In recognition of their generosity, men of the 4th ETC will be keeping the American Red Cross best unit participation trophy for a month.

Likewise, in the smaller unit category, the 3rd ETC won a best unit participation trophy for their contribution. And overall, MMCS earned an honorable mention for donating blood well over and above the Red Cross goal. A lot of people are alive today who wouldn't be if it weren't for generosity like this, so let's see more of the same this month.

**ANOTHER SOM**

Not to be left out, UTC announces its contender for MMCS Soldier of the Month in December. SP4 Ronald H. Mendal, 90th Ord. Det., was selected last week as UTC Soldier of the Month for October. If the performance of the last two UTC entrants is any indication—they went all the way to win at post level—Mendal will be a strong competitor too.

**A LUCKY FRIDAY THE 13TH**

Among the superstitious, Friday the 13th is supposed to be an unlucky day, but for a half dozen MMCS personnel that day last week brought good news, not bad luck. A suggestion certificate was presented to 1LT Robert Peek, Admin-Operations Division of DIT, in recognition of an idea he proposed which will ultimately save taxpayers' dollars by reducing costs.

For 10 years of federal service, Harold Lane, Wanda Griggs and Floyd Wofford received pins and certificates. They're employees of Hawk Division. Also recognized for passing the 10-year mark was Francis P. Newell of Combat Support Missile Division A.

Finally, for staying in good health and letting his sick leave time accumulate, William T. Akins of Missile Components Dept. was presented a sick leave conservation award.

**RETIREES RECOGNIZED**

Three men who recently departed the School have been awarded the Army Commendation Medal for their meritorious service while assigned to MMCS, according to Third Army General Orders No. 290. MAJ Charles A. Edgeworth, SSG George Delano III and MSG Franklin T. Holmes were each cited for their noteworthy accomplishments during the two years they were each stationed at the School.

COL Robert H. Newell concluded a 28-year Army career last week. Newell last served MMCS as director of the Maintenance Dept., Logistics Directorate. Hope your retirement proves to be even more rewarding than your military service, Colonel Newell.

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# Coded Tape Bosses Unmanned Machine

The Army Materiel Command is doing things by the numbers, numbers in the shape of holes punched in a tape, a tape that will boss a machine tool without a machinist to steer it.

This method of automated manufacturing is known as numerical control (NC). It's a fairly new technique that permits guiding a machine tool through its manufacturing cycle with digital data supplied to the machine in the form of a coded punch tape.

What was wrong with the old fashioned method?



Take the case of an urgent request to the Army for 13 special fuel caps: There were none in hand. So an AMC installation decided to buy 63 fuel caps, hoping to put 50 in reserve, just in case more were needed. It requested bids from contractors only to find no firm would interrupt its production for such a small order.

Finally, one company offered to produce the item, at \$4.41 each. It would not guarantee a delivery date. In desperation, AMC agreed.

Eight months later, the fuel caps were delivered.

It was discovered some time later that had the AMC installation been capable of performing the work on numerical control all 63 caps could have been turned out in five days at a cost of \$1.17 each.

Numerical control is rarely used in mass production. It is best applied in filling small lots and short runs.

A major portion of defense needs today falls in the category of satisfying small lot requirements. This requires a manufacturing technology that can quickly and economically produce hardware in small quantities, yet be adaptable to quick changover from one short run to the next.

Three reasons why John C. Williams of the Office of Industrial Preparedness of AMC's Direc-

### WOOD FOR EVERYONE

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torate of Requirements and Procurement heads a special PROMAP-70 task force working on expanding AMC's capabilities for automating short-run manufacturing processes.

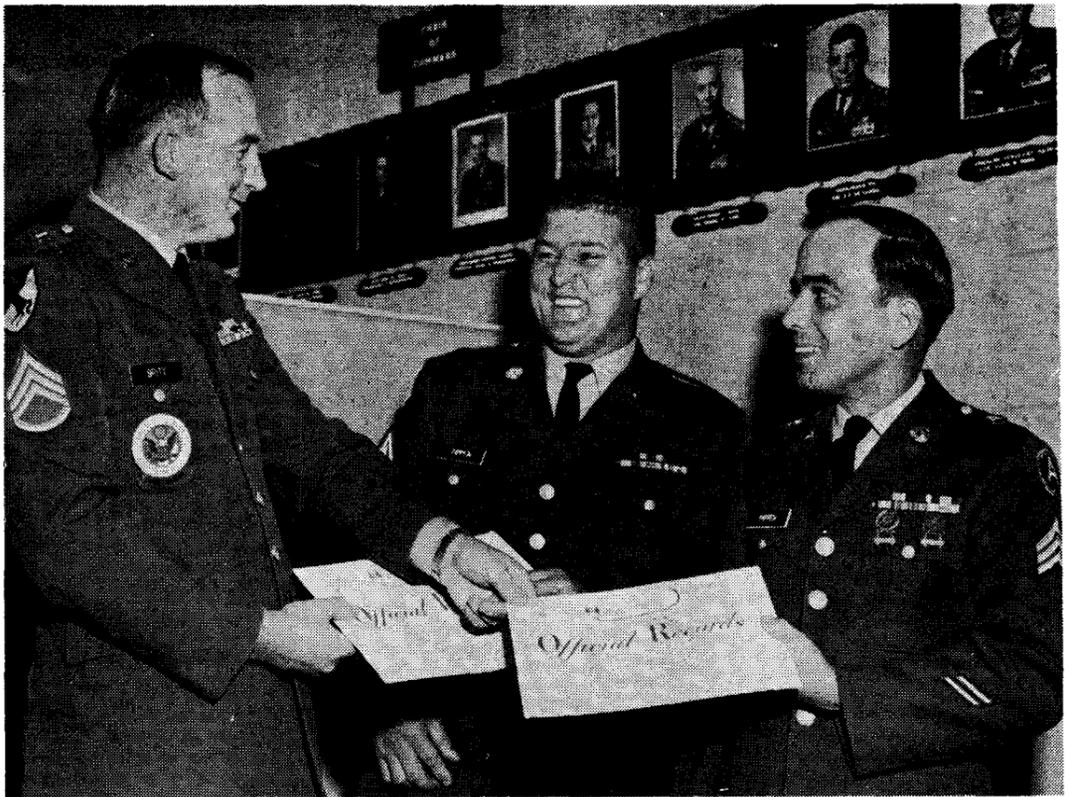
By July 1969 AMC had procured 87 new numerically controlled machines. By July 1971, it is planned to have 174 representing an investment of almost \$20 million. In eight years experience, NC has shown AMC a 29 percent annual return on investment. Based on this, these machines will pay for themselves in a little more than 3 years. This new manufacturing process is currently being used and expanded in six of AMC's major subordinate commands and in five of its depots.

In FY 70, AMC's NC operations spent \$8.9 million to manufacture hardware in small lots (the largest order was 1500 parts). If AMC had not had NC, this hardware made by conventional machines would have cost \$10.9 million. This economy is in addition to up to one third faster delivery time with greater precision.

A punched tape telling a particular machine what to do and how to do it is only the first step in the use of computer technologies in the manufacturing process.

The next steps will be entire families of machine tools under the command of a single multi-station computer.

The industrial community calls this next step "Computer Aided Manufacturing" (CAM). AMC's



**TIPPEN WITH PIPPEN**—Sound like a comedy routine from a nationally famous comedy team? Not really. But, it is a team, but not one that takes the spotlight on a national TV hook-up. The pair are noncommissioned officers assigned to the Missile and Munitions Center and School and both reenlisted to remain with the Army team for a combination of nine years. Sgt. Robert C. Phippen, right, assigned to Hq. Co., Army Unit Training Command, reenlisted for three years while Staff Sgt. Thomas Tippen, 227th Ord. Det., took an additional six years. At left, Staff Sgt. Dean Britt, MMCS reenlistment NCO presents the men with their reenlistment and discharge papers during a ceremony at Unit Training Command.

manufacturing goal is an automated facility to satisfy day-to-day job shop requirements simultaneously performing the day-to-day supply of repair parts. Most of the hardware and software necessary to achieve this goal already exist. Consolidation and expansion of those entities into a single integrated facility is an

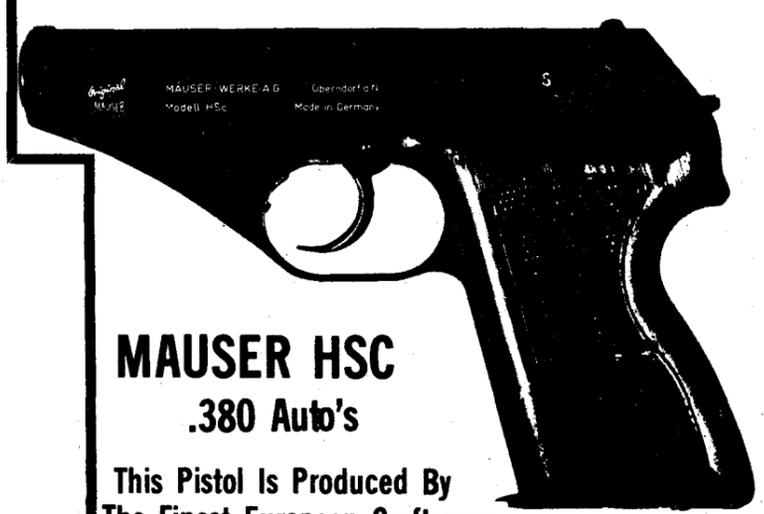
objective of AMC's five year plan. The primary objective of AMC's total program is to permit the Army Materiel Command to respond to demands for small quantities of hardware. This would be particularly useful at the beginning of a national emergency when four to six months of supply time are lost while contractors tool

up and go in to mass production. This same quick response capability would serve the Army well in the day to day operation of maintenance depots. AMC recognizes that in the next five to 10 years, it will by buying from an industrial base that will largely be Numerical Control-Computer Aided Manufacturing.



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## Air Travel Restrictions Eased For Holidays

WASHINGTON (ANF) — Military air travel during this year's Christmas-New Year holiday season will be less restrictive than last year, according to the Military Traffic Management and Terminal Service.

In past years, airlines have added restrictions or "black-out" days to their normal schedules. However, this year all of the major airlines will continue to offer the same service as offered before the holiday season.

To be eligible for reduced military fares offered by rail, bus and air carriers, military personnel must be:

- On active duty in the armed force or a cadet at a service academy.
- On official leave, pass, liberty, furlough or within seven days of discharge.
- Traveling at their own expense.
- Traveling in uniform.

All personnel must present upon request a valid Authorization for Commercial Air Travel (DD Form 1580) to each air carrier.

### Fares And Restrictions

**RAIL TRAVEL** — Railroads offer approximately 25 per cent reductions on both one-way and round-trip travel. These fares are also available on a year-round basis with no week-end or holiday restrictions.

**BUS TRAVEL**—Furlough fares during the holiday period will be limited to selected points in the eastern states and selected points between eastern and midwestern states and apply generally to round-trip travel.

These fares also are available on a year-round basis, with no weekend holiday restrictions.

**AIR TRAVEL**—Fare reduction of two types are offered: The Military Standby Fare, which is approximately one-half fare, and the Military Reservation Fare, which is approximately two-thirds fare.

A soldier using the Military Standby Fare is placed on a standby basis until all reservations have been claimed. Standby passengers on non-connecting flights are not subject to "bumping" at enroute stops once they have been accommodated and have received a validated ticket. There are no weekend or holiday restrictions on the standby fare.

Under the reservation fare, reservations are accepted in advance and space is confirmed similar to that of other passengers. However, the reservation privilege is withheld by most airlines during peak travel hours on weekends throughout the year. This same procedure will apply during the Christmas-New Year holiday season.

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 <p><b>ARIES</b> Mar. 21-Apr. 20</p> <p>You were born under the sign of the ram, and born to be a leader, Pontiac, a car for leaders...</p> <p><b>1969 Torino</b> by FORD. Factory air, full power.</p> <p><b>\$2450</b></p>	 <p><b>TAURUS</b> Apr. 21-May 21</p> <p>You were born under the sign of the bull, your stalwart character demands the most bold of cars, a Cougar.</p> <p><b>1969 Olds</b> Delta Custom. 4 dr. sedan, local, 1 owner, full power, factory air.</p> <p><b>\$2970</b></p>	 <p><b>GEMINI</b> May 22-June 21</p> <p>You were born under the sign of the twins and your spirited nature demands Grand Prix.</p> <p><b>1969 Triumph</b> SPITFIRE. Local, 1 owner, just . . .</p> <p><b>\$1880</b></p>	 <p><b>MOON CHILDREN</b> June 22-July 23</p> <p>You were born under the sign of the crab; your cordial nature needs a friendly, courteous car like Buick, for all the pleasure the finest accessories can give.</p> <p><b>1968 Olds</b> LUXURY SEDAN. Full power, factory air.</p> <p><b>\$2960</b></p>
 <p><b>LEO</b> July 24-Aug. 23</p> <p>You were born under the sign of the lion. Your strong noble nature demands that you have Riviera to make you king of the road, master of all who wish they, too, owned one.</p> <p><b>1968 GTO</b> Full power, factory air.</p> <p><b>\$2490</b></p>	 <p><b>VIRGO</b> Aug. 24-Sept. 23</p> <p>You were born under the sign of the maiden, your search is always for perfection. In this search you will find Chevrolet, the perfect car.</p> <p><b>1969 Pontiac</b> Bonneville Brougham. 2 dr. hardtop, factory air, full power.</p> <p><b>\$3290</b></p>	 <p><b>LIBRA</b> Sept. 24-Oct. 23</p> <p>You were born under the sign of the scales. Your balanced nature will naturally choose the Catalina, the car to win over all the odds.</p> <p><b>1969 Chevy</b> Impala Custom Coupe. Factory air, full power, 5 radial tires.</p> <p><b>\$2935</b></p>	 <p><b>SCORPIO</b> Oct. 24-Nov. 22</p> <p>You were born under the sign of the scorpion and are marked by loyalty. Vista Cruiser offers the pleasure of a luxury car, a car once owned, never to be forgotten.</p> <p><b>1968 Montego MX</b> 4 dr., full power, air.</p> <p><b>\$1945</b></p>
 <p><b>SAGITTARIUS</b> Nov. 23-Dec. 21</p> <p>You were born under the sign of the Archer and have a talent for fun. Let Pontiac speed you away to the beach, boating or surfing this summer, for all the fun and a gallop you love so well.</p> <p><b>1970 Cadillac</b> ELDORADO, fully equipped. 10,000 miles.</p> <p><b>\$6885</b></p>	 <p><b>CAPRICORN</b> Dec. 22-Jan. 20</p> <p>You were born under the sign of the goat, you're spirited and full of determination. The Buick Electra is just for you, a car that demands to be handled by the most skilled.</p> <p><b>1969 Olds</b> LUXURY SEDAN. Local, 1-owner, full power, factory air.</p> <p><b>\$3785</b></p>	 <p><b>AQUARIUS</b> Jan. 21-Feb. 19</p> <p>You were born under the sign of the water bearer, you're creative and adventurous! Delta is waiting to share each and every new adventure with you.</p> <p><b>1969 Cadillac</b> COUPE DEVILLE. Full power, factory air.</p> <p><b>\$4690</b></p>	 <p><b>PISCES</b> Feb. 20-Mar. 20</p> <p>You were born under the sign of the fishes, your world is cool, deep and water green. Buick is for you!</p> <p><b>1970 Grand Prix</b> SJ Model with bench seats, full power, factory air.</p> <p><b>\$4325</b></p>



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### GEM EXHIBIT

The Huntsville Gem and Mineral Society will exhibit representative gems and hand-crafted articles at Dunnivant's Mall from 9 a.m. to 6 p.m. Saturday.

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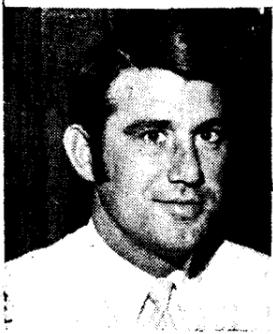
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# NCOs Get Ready For Ball

It's D minus 22 and still counting. That's the count down for the 2nd Annual Military Ball, to be held December 11, at the Arsenal NCO Club.

The formal ball will commence at 6 p.m. and the ceremonies beginning promptly at 7 p.m. with the Grand March and end as the colors are retired.

The steering committee of the ball, headed by Sgt. Maj. Warren Bibey, Missile and Munitions Center and School, met last week to finalize plans for the ball.

At the meeting it was announced that reservations for the ball will be taken by the club. Reservations will not be taken, however, after December 9.

Tickets are now on sale at each unit orderly room and at the NCO Club.

Command Sgt. Maj. Charles Havner, Army Missile Command, is host for the affair. Distinguished guest will include Maj. Gen. Edwin I. Donley, Missile Command commanding general; Col. Gilbert P. Levy, commandant, Missile and Munitions Center and School; Chaplain (Col.) Robert F. Mashburn, staff chaplain and Mayor Joe Davis of Huntsville.

A queen will be crowned during the ball and the NCO Wives Club has the responsibility of naming the lucky girl. According to the Wives Club, the queen will be selected from Gold Star Wives residing in the Arsenal-Huntsville area.

The committee also stresses that dress is formal. For active duty military personnel the dress is blues or greens with white shirt and bow tie. For the ladies appropriate short or long formal dress.

Music for the occasion will be furnished by the 55th U.S. Army Dance Band.

### PLANETARIUM SHOW

"Beyond the Milky Way Among the Galaxies" starts its second series of showings on November 22 at the Rocket City Astronomical Association Planetarium across from the riding stables in Monte Sano State Park. The free showings are scheduled for 2, 3 and 4 p.m.

## Drive Safely

**Norman Guthery**  
Used Cars  
H'way 36 West

(1½ miles from H'selle)

'65 PONTIAC Air & Power	\$895
'67 PONTIAC Conv.	\$1175
'67 FAIRLANE 500 289 Auto., 2-dr., H.T.	\$995
'68 FORD XL P.S. Auto. Trans.	\$1650
'68 FORD Ranger Auto. trans. 360 eng., 8 ft. bed	\$1600
'68 VOLKSWAGEN Sun-roof	\$1200
'69 CHEVELLE SS 3-speed	\$1995
'69 GTO PONTIAC Conv., 4-speed	\$1875
'69 PLYMOUTH Fury II Auto. 383	\$1625
'70 MUSTANG Mark I Air & 4-speed	\$2995
'70 BUICK Electra 225 All Power	\$3850

Phone H'ville  
**881-3830**

# Nichols Funeral Services

Funeral services for David J. Nichols were held last Thursday in Columbus, Georgia. Nichols, 48, an Army Missile Command employee, died in a Huntsville Hospital. He was the chief of the Management Information Systems Directorate's Program Management Branch.

A veteran of World War II, Nichols entered federal service on March 14, 1946 at Mt. Ranier Ordnance Depot in Tacoma, Washington. He came to Redstone Arsenal from Ft. Lawton, Washington in August 1960.

Survivors include his wife, Irene Nichols and a daughter, Mrs. John Barnard of Montgomery.

**-WANTED-**

**USED CARS**

We Pay Top Prices for All Makes and Models . . .

Phone 837-4101 — 837-4595

132 ACRES

# AT AUCTION

Saturday, Nov. 21 at 10:00 A.M.  
ON THE PREMISES

LOCATED 6 MILES NORTH OF FAYETTEVILLE, TENN., ON THE SHELBYVILLE HIGHWAY

**FARM • CATTLE • EQUIPMENT • HOUSEHOLD BELONGINGS**

Property of

**MR. & MRS. FREEMAN FRANKLIN**  
BEING SOLD DUE TO ILL HEALTH OF OWNERS

**132 ACRES to be sold in tracts then regrouped**

This comfortable frame home containing 8 rooms and bath is heated with gas and is situated on west side of highway in a beautiful grasslot with abundance of shade, garage and necessary out-buildings. Barn situated on Tract 1—with house. Is in good condition with stone and concrete foundation and ample shed room to accommodate a large number of livestock.

These buildings represent the type buildings that are appreciated by some one seeking the luxury and privacy of country living and have most of the conveniences of the city.

TRACT 1—Contains an estimated 6 acres and the above described buildings and is in garden, lawn and pasture—watered by wells and tank.

TRACT 2—Containing approximately 12 acres fronting Giles Hollow Road —adjoining Tract 1 and watered by everlasting creek. All in permanent pasture.

TRACT 3—Containing approximately 114 acres lying on east side of Highway, has approximately 45 acres level to rolling open land with the remainder being rolling and hill pasture with some timber. Watered by pond and stream that runs part-time. Improvements consists of small barn and cattle fenced. Most of this acreage sown to pasture.

Agents reserve right to sell Tract 3 in two parcels if they deem it advisable, as well as regrouping all tracts in any manner they decide.

TRACT 3 has cattle underpass to allow livestock to move under highway to Tract 2.

0.50 ACRE BURLEY BASE  
18.0 ACRE CORN BASE

As an entire, this unit is an excellent livestock and grain farm. TRACTS 1 and 2 are most desirable for the city worker desirous of having "a place in the country" and grow livestock. Inspect each tract prior to sale date and make your arrangements to buy one tract or any group.

FARM LAND of this type and location is extremely hard to find making this a type sale that is seldom offered at the high dollar.

## HOUSEHOLD BELONGINGS

Consist of numerous items of various type collected over the years that the owners do not wish to move to town with them.

### EQUIPMENT

Ford Tractor  
Plow  
Cultivator  
Disc  
Mower  
Chain Saw  
Numerous other items.

Wagon Trailer  
Horse Drawn Wagon  
Horse Drawn Rake  
Cut-Off Saw  
Horse Drawn Plows  
Lawn Mower

6 Can DeLaval Cooler  
7 Unit DeLaval Milking Machine  
Milk Cans  
Wrenches  
Hand Tools  
Forks—Scoops

### CATTLE

21 White Face Cows — Mostly Springers, 10 Brown Swiss Cows, 4 Calves—200 Lb. to 500 Lb., 2 Hereford Bulls, Approximately 40 Hens, Approximately 1200 Bales of Hay.

Anyone needing assistance in financing farm—contact Agents.  
Sale to be held RAIN OR SHINE.  
Lunch to be served.

Terms: Personal Property Cash. Real Estate—25% cash date of sale—balance upon delivery of deed. Possession with deed.

Sale of Real Estate is subject to confirmation by Chancery Court.  
For Further Information Contact:  
Mrs. Freeman Franklin — 433-5675  
Mrs. Muriel F. Stone, Guardian 305-536-7570  
Mr. R. W. Stevens, Atty. 433-5704

## MONKS REALTY & AUCTION COMPANY

Phone 433-3505 — Fayetteville, Tenn.  
Tennessee Auctioneers License No. 52

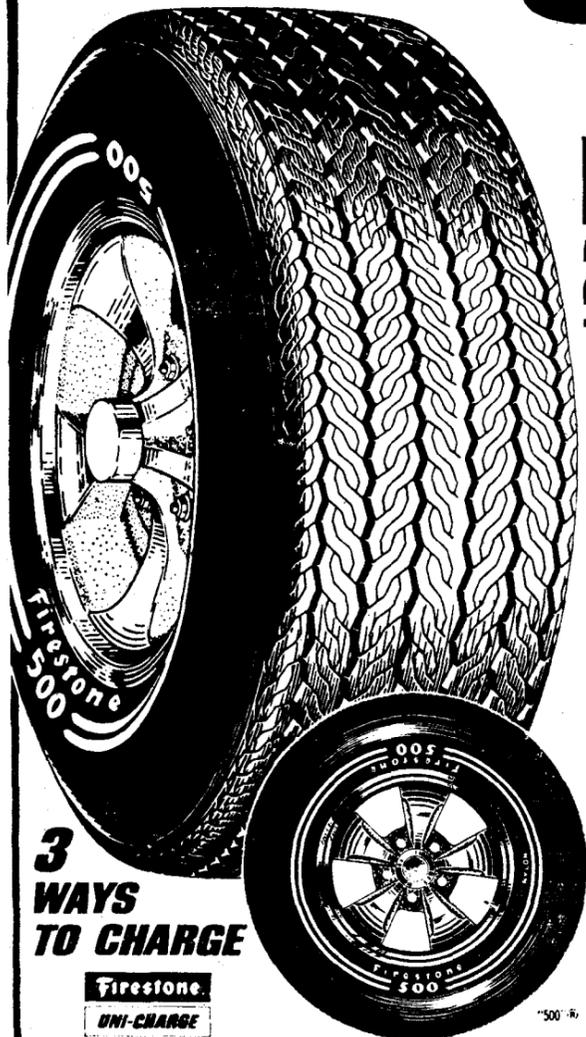
**MONKS REALTY CO.**  
Fayetteville, Tenn.

Information contained in this advertisement is derived from sources believed to be correct but not guaranteed.

# SALE! Firestone

## NEW WIDE "500" TIRE

### FIRST TIME EVER 2nd TIRE 1/2-PRICE



**3 WAYS TO CHARGE**



When you buy the 1st tire at our everyday exchange price (Plus Fed. Ex. taxes)

SIZE	BLACKWALLS		WHITEWALLS		Fed. Ex. Tax (per tire)
	1st Tire	2nd Tire	1st Tire	2nd Tire	
E78-14 (7.35-14)	\$35.75	\$17.87	\$40.75	\$20.37	\$2.25
F78-14 (7.75-14)	37.75	18.87	43.00	21.50	2.44
F78-15 (7.75-15)					2.40
G78-14 (8.25-14)	41.50	20.75	47.25	23.62	2.60
G78-15 (8.25-14)					2.60
H78-14 (8.55-14)	45.50	22.75	51.75	25.87	2.80
H78-15 (8.55-15)					2.80
J78-14 (8.85-14)	---	---	57.75	28.87	3.01
J78-15 (8.85-15)					2.93
L78-15 (9.15-15)	---	---	59.50	29.75	3.20

All prices PLUS taxes and 2 tires off your car.

- NEW Wide look of the '70s... '78" series design, blackwall or raised white stripes and numerals.
- NEW Concave molded construction puts the entire tread width on the road for longer mileage and better traction.
- NEW Wide, deep 7-rib tread design and high '60° cord angle for improved handling.

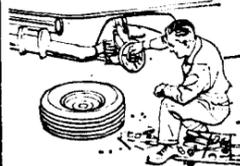
**Full 4-ply construction**

(All comparisons relate to previous Firestone "500")

**Buy today! Save \$17<sup>87</sup> to \$29<sup>75</sup> per pair**

## DRIVE IN TO Firestone FOR DEPENDABLE CAR SERVICE

### GUARANTEED BRAKE RELINE



Here's what we do:

- Replace linings and shoes on all 4 wheels with new Firestone linings.
- Adjust brakes for full drum contact.
- Inspect drums, hydraulic system, return springs and grease seals.

**\$21<sup>66</sup>**

GUARANTEED 20,000 MILES OR 2 YEARS

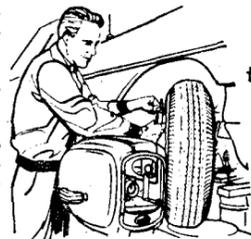
We guarantee our brake lining for the specified number of miles or years from date of installation, whichever comes first. Adjustments are based on mileage and based on price current at time of adjustment.

Most Fords, Plymouths, Chevys, American compacts and light trucks. Others slightly higher. Disc brakes excluded.

3 WAYS to Charge

### COUPON OFFER

#### Front End Alignment



Precision alignment by skilled mechanics using the most modern equipment.

**6<sup>66</sup>**

This coupon expires November 30, 1970

Extra charge for cars with torsion bars or air conditioning

### COUPON OFFER

#### Lube & Oil Change



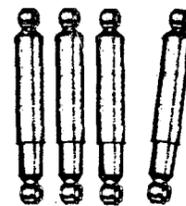
Includes up to 5 quarts of premium oil and expert lubrication.

**3<sup>66</sup>**

This coupon expires November 30, 1970

### COUPON OFFER

#### 4th Shock Absorber



Buy 3 famous brand shock absorbers at our everyday price... get the 4th for only

**66<sup>c</sup>**

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### COUPON OFFER

#### Brake Adjustment

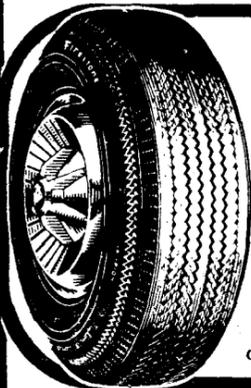


Let our skilled mechanics adjust your brakes.

**66<sup>c</sup>**

Disc brakes excluded

This coupon expires November 30, 1970



Outstanding quality at low everyday prices!

### Firestone CHAMPION

Full 4-ply nylon cord body

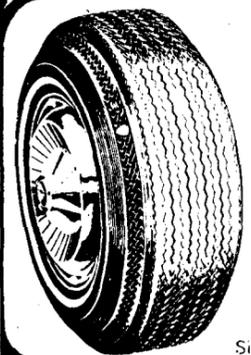
A great economy tire value that will deliver excellent mileage... you can depend on Firestone quality, even at these low prices!

6.50-13 Blackwall <b>\$10<sup>95</sup></b> \$1.78 Fed. Ex. tax	5.60-15 Blackwall <b>\$15<sup>70</sup></b> \$1.75 Fed. Ex. tax	7.35-14 Blackwall <b>\$15<sup>70</sup></b> \$2.04 Fed. Ex. tax
7.75-14 or 7.75-15 Blackwall <b>\$16<sup>75</sup></b> \$2.17 or \$2.19 Fed. Ex. tax	8.25-14 or 8.15-15 Blackwall <b>\$18<sup>85</sup></b> \$2.33 or \$2.35 Fed. Ex. tax	8.55-14 or 8.45-15 Blackwall <b>\$20<sup>95</sup></b> \$2.53 Fed. Ex. tax

WHITEWALLS ADD \$3.00

All prices PLUS taxes and tire off your car. Champion TM

Priced as shown at Firestone Stores. Competitively priced at Firestone Dealers and at all service stations displaying the Firestone sign.



### ANY SIZE LISTED Firestone

**DLC-100 New Treads**

WHITEWALLS or BLACKWALLS

**2 \$28**

7.75-14  
7.75-15  
8.25-14  
8.25-15  
8.55-14  
8.55-15  
8.85-14  
8.85-15

RETREADS ON SOUND TIRE BODIES OR ON YOUR OWN TIRES.

Similar prices on single tires. Lower prices on smaller sizes.

Plus 43¢ to 55¢ per tire Fed. Excise tax (depending on size) and 2 recyclable tires of same size off your car.

# FIRESTONE STORES

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(Across From King's Inn)

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