

# Redstone Rocket

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## Warhead venture marks new way of doing business

BY ED PETERS

A revolutionary new warhead being developed for the Army's Multiple Launch Rocket System may have far-reaching impact on the battle strategy and tactics of the United States and its NATO allies and also on the way they build and pay for new weapons for their common defense.

The United States, France, Britain and West Germany signed an agreement Nov. 29 to cooperatively develop a terminal guidance warhead for the MLRS.

The implications of this venture are several and substantial, militarily and politically.

It potentially is worth billions of dollars and could become the biggest program ever managed here at the Missile Command.

The program's push is coming from the highest levels of the U.S. Defense Department.

The four countries are each contributing money, technology, expertise and industrial resources in a type of innovative cooperative venture completely new to all of the partners.

A four-country contractor team with each element contributing significantly to the development is taking direction not from the individual partners but instead from the MLRS Project Office here. In effect the allies are working under an arrangement that subordinates their individual national interests to the greater, collective interest of the NATO alliance, according to Larry Seggel, MLRS deputy project manager at the Missile Command.

"There is a lot of courage here, a lot of forbearance at the several countries' higher levels," Seggel asserted.

"This kind of cooperation with the United States involved is the kind of thing that really puts cement in the NATO structure."

Each of the cooperating partners has stationed people at the Missile Command to assist the project office with engineering, quality assurance, configuration management and other research and development tasks.



**NATO COOPERATION** — Representing the partners in what may become the Missile Command's biggest program ever, the MLRS terminal guidance warhead venture, are Frank King of Britain, Col. N.R. Hurst, program coordinator; -Col.

Francois Revel of France, and L.R. Seggel of the United States. Absent from the photograph is Eckart Schulze, representing Germany. The representatives are here contributing to the venture in engineering and other areas.

The terminal guidance MLRS warhead, containing six individually-guided submissiles, gives a free-flight area rocket the capability to precision-hit targets. It

also puts a new face on land combat in Europe by giving NATO ground forces a non-nuclear means of  
(See Venture cont'd on page 3)

## Warhead will see through battlefield smoke, haze

A type of guidance that is new to Army missiles will permit the MLRS terminal guidance warhead to find targets through battlefield smoke and haze.

Millimeter wave guidance which employs very short wave lengths has enabled engineers and scientists here to build sensors small enough to permit using radar-type guidance on a small submunition such as the terminal guidance warhead.

"The short wave lengths permit us to build radars in packages small enough to compete with IR (infrared) devices in size and cost," said Nick Mangus, Army Missile Laboratory's principle engineer working on guidance with the MLRS Project Office here.

His millimeter guidance technology group has been exploring the concept some 15 years and the technology is far enough along that "the Army judged it mature enough to proceed with advanced development in a weapon system concept" for the terminal guidance warhead, Mangus said.

The decision to use millimeter wave guidance was the Army's last step in the concept formulation process for the terminal guidance warhead.

It was picked over infrared guidance for the new weapon because millimeter waves are better able to penetrate natural and battlefield atmospheres and locate targets.

Mangus is confident that research will overcome limitations of this new form of guidance, such as background "clutter" situations which limit its ability to discern targets in an air-to-surface role.

Millimeter wave guidance is an outgrowth of the evolution of the body of radar technology at higher frequency. "It's nothing new under the sun, just a natural evolution to make radar in smaller packages," Mangus pointed out.

A millimeter wave target sensor that missile engineers have developed is cylindrical in shape and about a foot long and four inches in diameter. At one

(See Warhead cont'd on page 3)

## Submissiles hit tanks in Assault Breaker demonstration

BY ED PETERS

The basic technology for a terminal guidance warhead was demonstrated here several years ago in a program called Assault Breaker.

A group in Army Missile Laboratory conducted a technology demonstration over a three-year period beginning in 1979 that culminated in a flight in which five submissiles boosted 85 kilometers downrange attacked 10 tanks positioned in a large circle and achieved hits on five tanks for a perfect score.

There were 13 flights leading up to that grand finale. "There were some failures along with the successes," concedes Tom Dilworth, who managed the Assault Breaker demonstration, "but it was quite a job when you stop and think about it."

"We delivered and dispensed several times in Assault Breaker. We showed that it could fly downrange, could dispense, and could hit a target," the engineer said.

There were 10 flights using a modified Patriot missile booster (T-16) and four using a modified Lance (T-22). The Air Force supported the experiments and furnished radar sets to provide target locations to the boosters. The Air Force's museum recently asked MICOM for pictures of the experiments to put on display.

Several types of submissiles were tried. Of the two most promising, a fragmentation type was rejected in favor of one that impacted the target directly. This TGSM (for terminally-guided submunition) was dispensed at 2500 meters with a parachute breaking its free fall. At 1000 meters the TGSM drops the parachute, then searches and locks on and flies to a target it sees. The munition has pop-out, fabric-covered stub wings for limited maneuvering. It utilized an infrared target seeker.

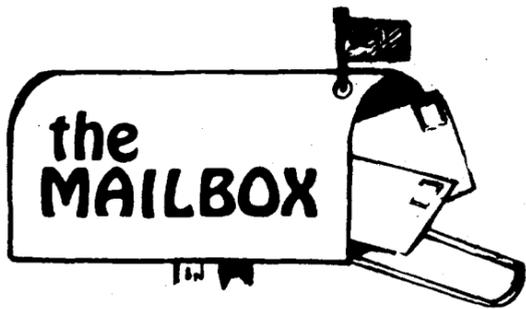
With the technology having been demonstrated, Dilworth believes the challenge now facing developers

of a terminal guidance warhead is cost. "Can you do it cost effectively is the big problem now," he said, pointing out that individual seekers and microelectronic parts make the submissiles expensive.

The Assault Breaker technology management group was small, only seven members, but virtually every element of Army Missile Laboratory was involved technically and contributed to the program, according to Dilworth. John French and Dr. Don Spring were the technical managers.

The Defense Advanced Research Project Agency sponsored it. "It was one of the few times DARPA ever did a missile system demonstration," Dilworth noted. Their manager for Assault Breaker was Dr. James Tegnalia, now an assistant to the Defense undersecretary for research and engineering.

Assault Breaker was a three-phase program, Dilworth explained. "First we investigated concepts  
(See Submissiles cont'd on page 4)



## Decision to close

**Editor:**

The hazardous driving conditions of Friday, Feb. 1 through Monday, Feb. 4 and again on Feb. 12 could have resulted in fatalities, injuries and untold property damage to Redstone Arsenal/Marshall Space Flight Center employees if someone with leadership and guts hadn't made the proper decision to close the post.

It also brought forcefully home why people should save their leave time. Without commanders who believe in the sanctity of human life, some employees would have lost pay.

The main reason for this letter is twofold. First, to heap praise on the individual or individuals who had the foresight and strength of conviction to brave possible repercussions by higher-ups. Second, to ask the question many of us would appreciate being answered in this forum. What is the rationale behind charging federal employees leave when the local civilian authorities have legally closed the highways leading to the arsenal? For those living south of the river, I-65, Route 231 and Route 431 were all closed by the state police Tuesday morning, Feb. 12. Is there a tunnel under the river we don't know about?

Graydon K. Parker

## Some suggestions

**Editor:**

I want to suggest some additions and variations which will add flavor to your weekly publication making it more interesting to your readers:

1. An entire issue devoted to "Letters to the Editor" - I think you receive more than the two or three per week which you publish. Those who write to you are interested in seeing their letters printed. If you really do not receive one edition's worth of letters over two to four weeks, at least a couple pages should be dedicated to them. They would certainly be more interesting than some of the "news" articles you print or reprint (from a previous *Army Times*).

2. Humor, such as articles, letters, cartoons, advertisements, satire, etc. - A page or section, like your sports page or local events page, could be devoted to this. You could also have a section in which you solicit input from your readers. You need not compete with nor emulate the *National Lampoon*, but it would be refreshing to read some humor.

3. More articles about the OMMCS, particularly on

the front page - We here between Patton Rd. and Vincent Dr. are a sizeable percentage of the work force on post, and would like to be recognized proportionately. Our news is just as interesting to us as is the news of any MICOM directorate to its people, and no less interesting to outside people than the news of any MICOM directorate to people outside it. "Stroke us" occasionally, even if the articles must be written by Peters, Vaughn or Rogers instead of Watson or Watson.

4. A personal interests section - Many people here have interesting hobbies, stories, families, recipes, advice, prescriptions, etc. which would be of interest to others. This could be a combination of letters and articles, solicited by you to the readers, and done monthly if there are not enough newsworthy events every week.

5. An April Fool's Day lampoon edition - Articles, letters, advertisements, scores, etc. for this edition could be satirical to outlandish. I think many of your articles and letters provide enough "meat" for satire and could be reprinted in such a manner. You could solicit input from your readers in several issues preceding that edition. I think some of your readers would contribute.

6. More "Soldier/Employee of the..." - You could list by unit weekly, monthly, quarterly "Soldiers of" in addition to annual articles on "Post Soldiers/Employees of the Year".

Capt. William F. Knoll Jr.  
OMMCS Mob Ofcr

**Editor's note:** We appreciate your comments and suggestions. Please allow us to make these points: We print all letters received, except those that are unsigned or nonsensical; OMMCS has elected to handle its own writing chores and not use the MICOM editorial staff; and there is always room in this newspaper for humor and other feature material contributed by readers. However, this newspaper and none other we know of is prepared to open its editorial columns to people who think they can write but can't and think they're funny but aren't.

## In appreciation

**Editor:**

I would like to express my sincere appreciation to all the employees who worked to make the arsenal safe and comfortable during the extreme weather from Feb. 1 to Feb. 5. Your actions were not less than heroic. We all realize you made great personal sacrifices and in many cases had to leave your families uncared for. The savings in property damage, both governmental and private, by our having heat, electricity and usable roads cannot be calculated. This appreciation extends to all of you—those who kept the shopping center open, the medical staff, security and police forces, facilities engineers and all the others. Thank you.

Col. Robert W. Caldwell  
Deputy Director,  
Missile Logistics Center

Letters to the editor should be signed (name withheld on request) and sent to: The Redstone Rocket, DRSMI-6. Unsigned letters will not be used.

## Engineer Run set for Saturday here

It's not just for engineers but for anyone who wants to race against the clock and other runners.

The annual Engineer Run 5-kilometer and 10-kilometer (6.2 mile) road races will be held on post Saturday, Feb. 23. The races are sponsored by the Huntsville Post, Society of American Military Engineers (SAME) for National Engineers Week, Feb. 17-23.

Applications for the races can be found at the Recreation Center, the post gym, athletic and sports stores in Parkway City Mall, The Mall, and the Madison Square Mall. Registration fee is \$8. Everyone registering will receive a T-shirt with the title of the race, the date and a SAME seal, commemorating the event.

Age groups for men entering the run range from 14 and under to 60 and over. Age groups for women cover from 14 and under to 50 and over.

Awards will be given to the overall male and female winners of the 5K and 10K events. Trophies will be presented to the first three finishers in each age group for both the 5K and 10K races.

Both races begin at the Rocket Auditorium. Race day registration and packet pickup will start at 7:30 a.m.; the 5K race begins at 9:00; and the 10K starts at 9:10. Both courses are certified by The Athletics Congress (TAC). Awards will be presented immediately after the 10K race.

For more information call Ray Aldridge or Dot Burnett 895-5660 or call John McHaffie 882-7231 during the day and 830-0556 evenings.

## THE REDSTONE ROCKET

Editorial Offices . . 876-1500  
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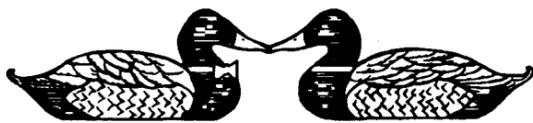
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Advertising deadline for display and commercial classified is 5 p.m. Friday before Wednesday publication.

The *Redstone Rocket* is distributed free of cost to personnel at Redstone Arsenal, NASA and Industrial Park, Huntsville. Mailing rates off post for the *Rocket* are \$20.00 a year, tax included.

Everything advertised in this publication must be made available for purchase, use or patronage without regard to race, color, creed, 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 refusal to print advertising from that source.

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# Venture

(cont'd from page 1)

eaching behind enemy lines to get at huge numbers of tanks that strategists believe will be lurking beyond normal target range, waiting for an opportunity to break out en masse with overwhelming force.

With the Soviets thought to out-tank NATO by a ratio of 7-to-1, there is widespread public concern that the allies might have to resort to nuclear weapons, however risky and unpopular, to stop an armored juggernaut threatening to overrun defending allied direct-fire weapons.

The terminal guidance warhead, in concept, employs an inexpensive MLRS booster rocket to loft a warhead containing six small, "smart" submissiles that spew out and guide by radar to individual tanks or other armored targets. The MLRS can ripple-launch 12 of these warheads at once, thus releasing as many as 72 submissiles. Each has a millimeter wave radar seeker in its nose that identifies and locks on a target and guides the submissile to impact, striking on top where armor is most vulnerable.

The idea, said Seggel, is that allies battling a superior armored force could "chop him down to where he's bite-sized", allowing NATO fighters to confront enemy armor one-on-one with anti-tank missiles and cannons.

"That's why the ability to defeat and disrupt the second echelon is so important. He can't sit back there an hour from the battle and wait his opportune moment to bring that force to bear. If he sits back there we're going to start beating on him and he may never reach the battle.

"What we're doing is denying the enemy his sanctuary beyond cannon range," explained Seggel.

Besides its obvious potential for profoundly influencing NATO strategy and tactics for defending Western Europe, the terminal guidance warhead project is also seen as signaling a new era of cooperation among the NATO countries in the joint development and financing of defensive weapons.

"I personally think it's awfully good for the well-being of the NATO alliance and if we can make this development work well it stands to enable us all, through collaborative programs, to enhance our joint defenses at lower individual national expenditures," said Seggel, "and that's important. None of us can afford to defend ourselves independently."

Neither the U.S. Army nor the other partners have ever before undertaken with an ally to cooperatively research and develop and jointly fund a new weapon, which in this case will allow the United States to obtain the terminal guidance warhead at about 40 percent of its actual cost. Also new is the involvement of a multinational team of contractors, at least one from each country.

With all this has come an "enormous responsibility" for the MLRS Project Office here, according to Seggel.

He said the program is "being looked at as kind of a model for collaborative efforts" that may be under-

taken in the future between the United States and allies.

"The fact of the matter is the planning is good but we will have to wait and see how it in fact works because we have never done this before, our partners have never done this before" and, says Seggel, none of the partners has ever before entered into a weapons venture wherein "so much national sovereignty has been set aside in order to benefit the program."

In previous cooperative ventures, he explained using a simplified example, a weapon typically would be divided into components for each partner to develop independently and when brought to the table the pieces wouldn't fit together, resulting in delay, extra cost and much unhappiness.

The terminal guidance warhead venture is different in that it's set up where the cooperating countries and partnership contractors are working as one, under the management and direction of the MLRS Project Office here at the Missile Command.

"What we've done here is subordinate what I'll call the national 'stovepipes', explained Seggel. "We've

# Warhead

(cont'd from page 1)

end is a protective aerodynamic radome nose covering backed up by an antenna, torque motors and kick-off devices, plus a device that generates millimeter wave energy for transmission and detects return signals for processing. This transceiver is common to all radars but in this instance employs the very short millimeter waves which make it possible to build this radar in such a small package.

"The only difference in a radar seeker and a millimeter wave seeker is that the millimeter wave lengths are shorter than the RF wave lengths," Mangus explained.

Ten engineers and physicists make up the millimeter technology group in Army Missile Laboratory. Besides

created a joint project office. We, here, are the managers; we let them know what goes on but they don't manage and they don't manage the activities in their countries. The company in the United Kingdom, for example, is not directed by United Kingdom people. It's directed by us.

"So what we've done is destroy this independent national stovepipe so that now the acquisition becomes the thing — not national sovereignty, not national interests.

"We think it can work because essentially we've knocked down national boundary lines for the purpose of conducting a development. So theoretically, then, if everybody adheres to it, it should be no more difficult nor take more time nor be any more costly than to do a development internally. That's in theory what we've tried to work out.

"The responsibility is enormous because we here sincerely believe success is very important not only to our military posture but to our NATO foreign policy," Seggel asserted.

the terminal guidance warhead sensor, they also are working on a wireless command link for the TOW missile and on millimeter wave guidance for the new JTACMS (joint tactical missile system).

Work is in progress at Army Missile Laboratory on a new millimeter wave simulation facility. This will allow engineers to conduct hardware-in-the-loop simulation of missiles with millimeter wave sensors as they now are able to do with those having RF, infrared and optical sensors.

In hardware-in-the-loop simulation, a missile is "exercised" as if it were in actual flight, as opposed to exercising it analytically on a computer using equations.

# Army forms new command in Panama

WASHINGTON — The Department of the Army has announced a plan to form an Army headquarters to support the joint-service U.S. southern command.

The new headquarters, the U.S. Army, South, will be located at Fort Clayton, Republic of Panama, and formed from assets of the 193rd Infantry Brigade currently stationed in Panama.

This plan is intended to streamline the chain of command for Army elements in Panama.

The 193rd Infantry Brigade is the U.S. southern command's only Army component command, but as an infantry brigade is neither organized nor staffed to fulfill planning, programming and support responsibilities to the unified command. As a major Army command, U.S. Army, South, will be better able to carry out these activities.

The U.S. Army, South, will be the parent headquarters of the 193rd Infantry Brigade and will assume its functions in support of the U.S. southern command upon congressional approval.

There will be no increase in the number of Army personnel in Panama, only a realignment of existing manning allocations.

The previous Army headquarters supporting USSOUTHCOM was the U.S. Army Forces, Southern Command until it was disestablished as a major Army command in 1974 during a worldwide Army reorganization. Before that, the Army had a major headquarters in the Panama Canal area since 1917. (Arnews)

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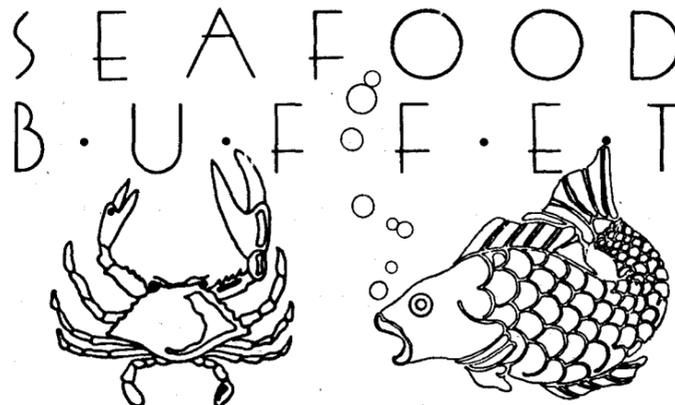
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# Military retirement system defended

WASHINGTON — In the wake of criticism about military pensions, top defense officials have expressed their support for the military retirement system.

The criticism came from David A. Stockman, the budget director, in a recent appearance before the Senate Budget Committee. Stockman called the military retirement system a "scandal," and said that the military would put its pensions ahead of national security.

"Institutional forces in the military," he said, "are more concerned about protecting their retirement benefits than they are about protecting the security of the American people. When push comes to shove, they'll give up on security before they'll give up on retirement."

Stockman told the committee that rather than slowing President Reagan's proposed military budget to reduce the deficit, Congress should move to curtail the military pension program, which is projected to cost \$17.8 billion in 1986, up from \$7.3 billion in 1976.

### Defense view

Secretary of Defense Caspar W. Weinberger, Secretary of the Army John O. Marsh Jr., and Army Chief of Staff Gen. John A. Wickham Jr. expressed their views on the purpose and necessity of the military retirement system.

Weinberger summed up his belief in the system: "America is fortunate indeed to be served by men and women of such great dedication and devotion, who gave up any self interest or sordid motives when they voluntarily entered the military service. The men and women in uniform endure great personal hardship and make many sacrifices for the security of the United States."

"Military people," he added, "spend great periods of time away from home, lose money everytime they move, must send their children to many different schools, must serve in isolated posts without their families and very often must risk, or give their lives for their country."

### Soldier's sacrifices

Marsh, in testimony before the House Armed Services Committee, reinforced the professional soldier's dedication to our country and the sacrifices they endure. He did this by using, as examples, two of the Army's senior officers sitting with him before the committee.

"I would say to you that during his tenure (as Army Chief of Staff) I have come to admire him (Gen. Wickham) enormously. He has twice been decorated for valor with the Silver Star and (also) with the Purple Heart. He was terribly wounded in Vietnam and refused medical assistance until the men in his unit, who were wounded, were evacuated, and he had established the security of his battalion. He has had some 30-plus years of service and has moved 17 times. Our congressional relations director (chief of congressional legislation liaison, Maj. Gen. Burton D. Patrick) has had 27 years of service and moved 27 times," Marsh said.

"The reason I mention that is to say they reflect the quality and caliber of the professional officers of the U.S. Army and also on the non-commissioned officer corps, and not just of the Army but of our sister services. I think that any reflections that their service has been self-motivated for retirement purposes as opposed to the defense of the nation are unfair and not substantiated.

"It is my observation and opinion that the service of our officers and non-commissioned officers has been that of dedication and sacrifice and great loyalty to our country, often at the price of hardship and sacrifice to themselves and their families."

### Comments 'inappropriate'

After concluding his testimony, Marsh responded to Stockman's comments.

"I think it was a highly inappropriate thing and does a disservice to our highly professional officer and non-commissioned officer corps," Marsh said.

"Those people by their records," he added, "have demonstrated they are more interested in the welfare of their country than they are in their own personal concerns. I think it's a very unfortunate and unnecessary remark.

"I support the current retirement system."

### Unlimited liability

In his remarks to the *Chicago Tribune* staff on Jan. 25, Gen. Wickham gave his philosophy on military retirement.

"When young men and women come into the Army, they basically sign an unlimited liability contract," Wickham said. "Witness the crash of the C-130 off the coast of Honduras. Soldiers and airmen on board didn't volunteer to get killed. But the nature of the job runs that risk. That's an unlimited liability. And it's

that unlimited liability contract that carries with it an obligation on the part of the administration and the public to provide adequate care for the families, as well as the benefits.

"Part of the benefits involve a deferred payment, which is their retirement.

"Retirement is in part not an old-age kind of thing," Wickham added. "It is partly deferred payment because we do not pay soldiers comparability pay for what they would get if they were a civil servant or if they were in the market place."

He contends that altering the retirement system may save some money, but in the long run would reduce the capability and quality of our armed forces.

### No cost-of-living hike

For his part, Weinberger believes the value of the military retirement system has been reduced significantly over the past several years, as military retirees have received only half of the cost-of-living adjustment.

"In the proposed 1986 budget, retirees will receive no cost-of-living allowance at all. People who have come on active duty since 1980 have now had their potential retirement benefits cut by 12 percent," he said.

Weinberger contends that, "Military personnel are far too dedicated to the service of their country to be 'more concerned with their benefits than the national security.' The military compensation system, including retirement, is fair but by no means lavish."





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# Blood program recognizes top contributing agencies

BY SKIP VAUGHN

Blood donors are just as important now as they were years ago, according to a Red Cross official.

"We've really come a long way in blood banking in the last 10 years but we haven't come near to finding an artificial blood," said Judy Cameron, director of laboratory and product management for the northern Alabama section of the American Red Cross.

"We still depend on donors," she said. Cameron was the guest speaker at the annual awards ceremony for the Redstone Arsenal blood program. Organizations and individuals were recognized for their contributions to the blood program in 1984.

Cameron told how procedures have progressed from mainly collecting whole blood to being able to separate it into parts. A single transfusion can therefore be used for more than one purpose. "Blood is a very complex tissue made up of many components," Cameron said.

Parts of blood are used to help hemophiliacs and leukemia patients, among others. "It takes from six to eight donors every day to support one leukemia patient," said Cameron. She pointed out that this underscores the importance of Redstone's blood program.

"Thank you so much for supporting the Red Cross blood program," she said.

Redstone has had a blood program since September 1951. Back then the Red Cross only made one visit per month, said Col. Dahl Cento, deputy post commander. He served as master of ceremonies for the awards event held Valentine's Day, Feb. 14 at the Officers Club.

Col. George Shepard, MICOM chief of staff, presented trophies for top organization participants in the blood program.

"The enthusiasm and participation and support of the blood program here at Redstone Arsenal is one of the finest I've seen in my years of traveling around," Shepard said.

Here are the winning organizations in each category: Human Engineering Detachment, Army Missile Lab, and Technology Integration Office, Army Missile

Lab, 1-50 category; Support Services Division, RASA, 51-100 category; Multiple Launch Rocket System Project Office in a tie with Advanced Sensors Directorate, Army Missile Lab, 101-150 category; Civilian Personnel Office and Comptroller, 151-200 category; Missile Intelligence Agency, 201-400 category; P&P Directorate, 401-over category; and Teledyne Brown Engineering, contractor.

Participation trophies were presented to Fox Army Community Hospital, Ordnance Missile and Munitions Center and School, Ballistic Missile Defense System Command, NASA-Marshall Space Flight Center, and Corps of Engineers- Huntsville Division.



**GIVING BLOOD** — Frank Richter, in foreground, gives blood along with Larry Conner and H. Wayne Koger (at rear). They work in Procurement & Production Directorate, the top giving agency in the 401 and over category.

Runner-up plaques by category were presented to Air Defense Command & Control Project Office in a three-way tie with Chaparral/Faar Project and AMC Management Engineering Activity, 51-100 category; Finance & Accounting Division, 201-400 category; and Facilities Engineering Division, 401-over. Participation plaques were presented to McDonnell Douglas Technical Services Company and Morton Thioko Corporation.

Outstanding donors were recognized for each having contributed at least eight gallons of blood. They included John Norris, 14 gallons; Charles Thompson, 12 gallons; Kenneth Weikert, 11 gallons and five pints; Leonard Jones, 11 gallons; Ray Jones, 11 gallons; Roland Bockhurst, 10 gallons; Henry Allen, nine gallons; William Wilson, nine gallons; Bill Irwin, eight gallons and seven pints; Barney Davis, eight gallons and six pints; Roosevelt Whitfield, eight gallons and two pints; Art Jones, eight gallons and one pint; and James Capley, eight gallons.

## Officers going overseas get service extensions

**WASHINGTON** — Reserve commissioned and warrant officers on their initial three- or four-year active duty service obligations no longer have to request service extensions to serve full overseas tours.

An automatic extension is granted by the U.S. Army Military Personnel Center when the officer chooses the "with dependent" tour option at supporting military personnel offices.

In the past, officers who desired to take their families with them overseas had to process time-consuming extension requests before travel orders could be issued. Now the service extensions to fulfill the normal overseas tour is approved automatically.

Officers who elect the "all others" unaccompanied tour will be released from active duty when they have met their initial service obligation. (Arnews)



**534-1900**

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# Religious Emphasis Week programs start Saturday

Two nuns from California will conduct free programs here for Religious Emphasis Week, Feb. 23 through March 1.

The programs are for all denominations. Sister Teri Takken of Palo Alto, Calif., will be assisted by Sister Fran Campbell. Both are members of the Sisters for Christian Community.

They will present a variety of programs at the Post and Bicentennial Chapels. Subjects include the family, hospital care for the critically ill, new approaches to Bible study, life and current issues in religion, suffering, and the functions of the Parish Council. Musical segments are included.

"The purpose of it is a spiritual renewal of the Redstone Arsenal community," said Astrid Lahiere, program assistant for the office of the chaplain. "And this is ecumenical (open to all faiths)."

This is the third such observance here, according to the chaplain's office. Previous religious emphasis weeks were held in September 1983 and March 1984.

Sister Takken, 31, is a native of Oakland, Calif. She was an auxiliary chaplain for NATO forces. Sister Takken speaks 11 languages and has degrees from the University of Santa Clara, the University of Loyola in Rome, and the University of Louvain in Belgium. Her degrees from Louvain in Belgium include a doctorate in religious studies. In 1983 she recorded "The Way of The Heart," an album of religious songs on which she composed, arranged, accompanied and sang solo.

"I don't think there's anyone in Huntsville that has the background of Teri Takken," Lahiere said. "She has traveled all over the world, speaks 11 languages, writes music, sings and plays guitar. I think it (the special week) is going to be different from anything we've ever had in this area."

Sister Takken has said, "I strive toward an integration of (my) talents in my vocation to further the development of Christian community wherever I live and work."

In Germany in 1982 she worked with Brig. Gen. Donald Infante, now stationed here as Patriot Project manager.

Here is the program schedule for Religious Emphasis Week:

— Feb. 23 at 5 p.m. at Post Chapel, Introduction to Religious Emphasis Week: Sister Campbell's Mass, musical selections by Sister Takken.

— Feb. 24 at 9 a.m. at Post Chapel, Sister Campbell; at 9:30 a.m. at Bicentennial Chapel, Sister Takken; at 10:45 a.m. at Bicentennial Chapel, Sister Takken; 11 a.m. at Post Chapel, Sister Campbell; and 12:15 p.m. at Bicentennial Chapel, Sister Takken.

— Feb. 25 at 7 p.m. at Bicentennial Chapel, Sister Takken on "Life: the Greatest Gift, Issues of the Present and the Future" and Sister Campbell on "Teachers and Parents: Communicators of the Faith."

— Feb. 26 at 11:30 a.m. at Bicentennial Chapel, Sister Campbell on "The Parish Council: Its Spiritual and Administrative Purpose"; at 7 p.m. at Bicentennial Chapel, Sister Takken on "Suffering and a Good God" and Sister Campbell on "Faith Development."

— Feb. 27 at 6 a.m. at Post Chapel, prayer breakfast with Sisters Takken and Campbell; at 9:30 a.m. at Bicentennial Chapel, Sister Takken on "Different Approaches to Bible Study"; 1:30 p.m. at Post Chapel, Sister Campbell on "Ethical Considerations and Critical Care"; and 7 p.m. at Bicentennial Chapel, Sister Takken on "Teen Encounter Day" and Sister Campbell on "Celebrating Sacramental Signs."

— Feb. 28 at 7 p.m. at Bicentennial Chapel, Sisters Takken and Campbell on "Family Celebration of Life and Love."

— March 1 at 10 a.m. at Bicentennial Chapel, Sisters Takken and Campbell on "Creating a Family Celebration."

The public is invited to attend the programs which are free of charge. For more information call Lahiere 876-5751/2409.



NUN — Sister Teri Takken, along with fellow Sister Fran Campbell, will give religious week programs here.

## Tabs get approval for formal wear

WASHINGTON — Qualified soldiers now can wear the Ranger or Special Forces tab replica on uniforms designed for formal wear.

Army uniform officials recently approved the metal replicas for wear on the blue and white dress uniforms, the blue and white mess uniforms and the blue evening dress uniform.

Although soldiers might be qualified for both tabs, they are authorized to wear only one, officials said.

Which tab to wear is a personal choice, they added. Soldiers should consult AR 670-1, "Wear and appearance of Army uniforms and insignia," for proper placement instructions.

The tabs will be available in two sizes and should be at Army and Air Force clothing sales stores in July.

Soldiers may not wear the tab replicas on service, utility or field uniforms. (Arnews)



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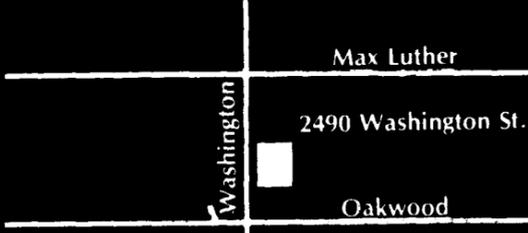
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# Soldier from England adjusting to American lifestyle

BY PAM ROGERS

Redstone's top soldier for February says he's beginning to feel like an American again, even though he spent most of his life in England.

Sp4 Frank Schaeffler of C Company, a computer programmer for the training management division of the Ordnance Missile and Munitions Center and School, was born in Smyrna, Tenn., but moved to England with his family when he was two years old.

"My father was in the Air Force, and when they closed the base in Tennessee, he requested a transfer to England, and that's where he retired," he said. Schaeffler's mother was born in England. His parents still live in Woodbridge, about 70 miles north of London.

Schaeffler said he's had some trouble adjusting to the fast-paced lifestyle in this country, even in Alabama.

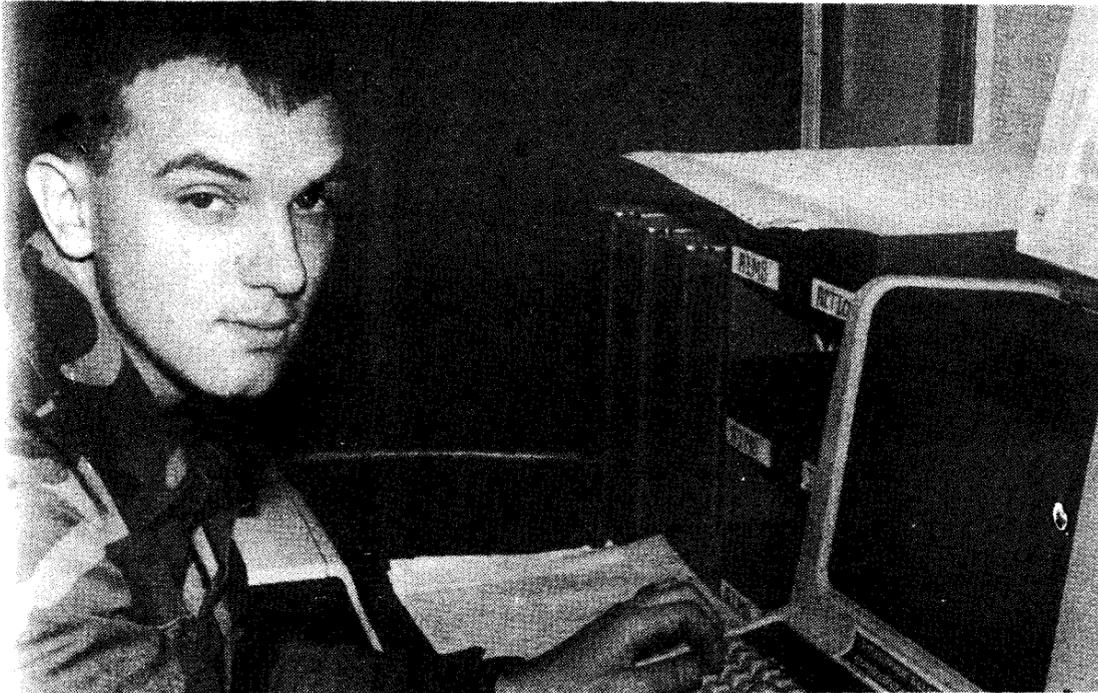
He and his wife, Nancy, met while they were both in college in California. "It was the same situation with her, but her parents were in France," said Schaeffler. She was born in Florida, and her parents transferred to France, her mother's native country, where they retired.

"We miss our families from time to time, especially when we see things on television, or at Christmas," Schaeffler said.

He and his wife have already decided they will return to Europe someday, but haven't decided what country they'll live in. "I know she would like to go back to France," he said.

Schaeffler, who was also named soldier of the month last July, believes determination and self-discipline helped him get the honor twice.

"It's a good exam," he said. "The knowledge you



COMPUTER PROGRAMMER — Sp4 Frank Schaeffler of C Company has twice been named post soldier of the month.

gain is useful, not just something you learn for the moment. I believe anybody who doesn't go for it is a fool."

He believes that being in this country and in the Army has opened a lot of doors for him. "I left England because of the economic situation," he said. "Nobody

would give me a job without experience, and I couldn't get any experience without a job."

Schaeffler said he is definitely considering making a career of the Army, but wants to stay flexible. Right now he's only thinking of another three or four year enlistment.

## Coupon Surprises



### Spring Service Checkup

- Inspect condition of radiator & hoses • Inspect for abnormal tire wear & rotate • Check air, fuel, & emission filters • Electronic scope analyze & adjust engine idle • Inspect front brake pads/linings & system operation • Inspect all drive belts • Check all fluid levels
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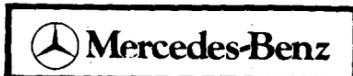


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# Officers wives plan charity art auction

The Officers Wives Club is putting the finishing touches on plans for its 13th art auction for charity.

The auction will take place in two separate sessions, with the first sale, the evening of March 2, being the main event. Chairman Dianna Haddock expects an exciting sale, with something to interest everyone.

"Where else can you go and enjoy a glass of wine, hors d'oeuvres, and see famous works of art in one evening? It's going to be a lot of fun," Haddock said.

There will be a stand-up sale the next morning, with coffee and juice served. The evening sale will begin at 7:30, and the session the next morning starts at 10:00. Donation for the event is \$2.50 per person.

Celia Bunyard, honorary chairman for the event, said the success of the sale will be measured by the number of charitable organizations it benefits. All proceeds will be returned to the community. Money from last year's auction went to such causes as merit

awards and space camp scholarships, among others.

"We would like to have the support of the community, because we have already had several requests from charities. Many have lost funding from other sources," Bunyard said.

More than 150 works of art are to be auctioned off. They will include exclusive editions of original graphics, oils and watercolors. Masters such as Dali, Picasso and Chagall will be represented, as well as School of Paris artists.

Haddock said the auction will be a new experience for most who attend, and the bidding procedure will be explained at the outset.

Ticket chairman for the sale is Sherry Sorrell. Pam Stieglitz is publicity chairman.

For more information, call Haddock 837-9586 or Sorrell 837-1655.



REVIEWING — Dianna Haddock, left, and Celia Bunyard review a list of artists represented in this year's OWC charity art auction.

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'73 MERC. Marquis	\$ 995	'82 BUICK Regal 2 door	\$ 8,950
'76 OLDS 98 Regency	\$ 1,450	'83 TOYOTA Celica	\$ 9,950
'71 MONTE CARLO, Sharp	\$ 1,995	'82 CHEV. Camaro Z/28	\$ 9,950
'71 CHEV. Malibu	\$ 1,995	'84 OLDS Cutlass Broug	\$10,950
'80 DATSUN 4 door	\$ 1,950	'84 OLDS Cutlass 2 door	\$10,950
'77 FORD Granada	\$ 2,250	'83 CHRY. 5th Ave., red	\$10,995
'80 CITATION	\$ 2,500	'83 CHRY. 5th Ave., gold	\$10,995
'79 CHEVETTE 4 door	\$ 2,500	'84 OLDS Cutlass LE	\$11,500
'78 OLDS 88 4 door	\$ 2,825	'84 OLDS Cutlass T-top	\$11,950
'80 DODGE Omi, beige	\$ 2,950	'84 CUTLASS T-tops	\$11,950
'78 PLY Volare	\$ 2,950	'84 DODGE Lazer Turbo	\$11,500
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# New ambulances expected to shorten response time

BY PAM ROGERS

New ambulances are expected to greatly improve the quality of emergency care at Fox Army Community Hospital.

"The ambulance team here is just doing a fantastic job," said Lt. Col. John Moskovites, chief of the Department of Nursing. He added that the updated emergency vehicles help team members deliver better patient care.

The 12-member team of trained emergency medical technicians are qualified either to drive or act as attendants. They will use the two new vehicles to respond to emergencies on the arsenal and in Research Park.

Maj. Patricia Jeanpierre, head nurse for the emergency room and ambulance sections, said the most important improvement the new ambulances have made is the speed with which a patient can be treated.

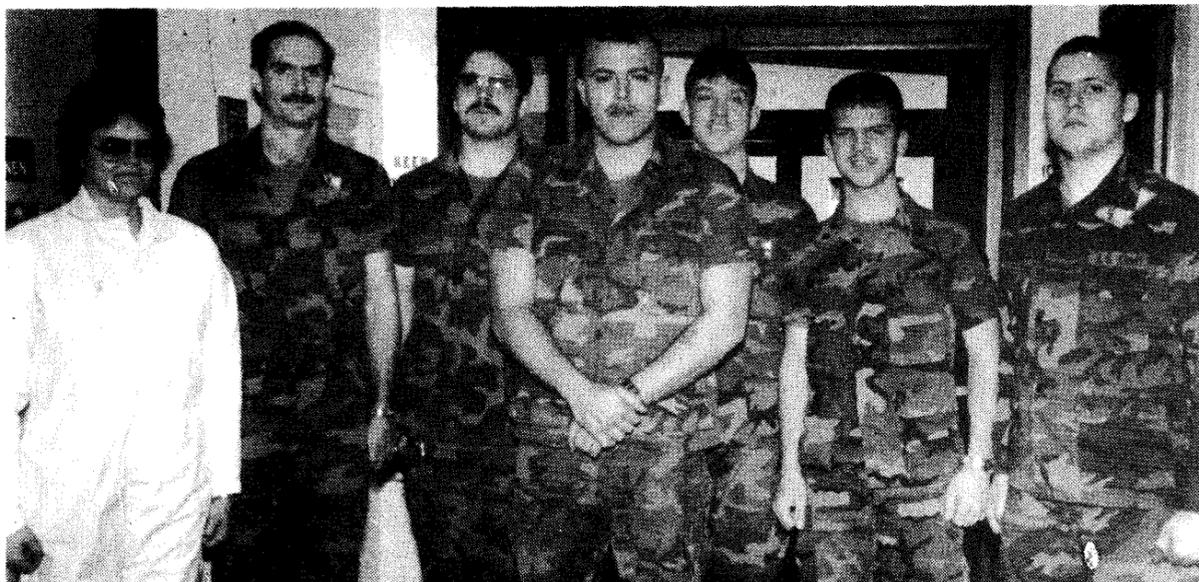
"These are high quality vehicles," said Jeanpierre. "They're reliable, and the equipment is the most modern. We have two-way communication between doctors and nurses here, and the ambulance. These vehicles are more comfortable, both for the person giving treatment, and for the patient. There's more room to maneuver inside."

Jeanpierre said the ambulances carry equipment for stabilizing and treating patients enroute to the hospital. Some of items included are oxygen, a suction kit, a portable heart defibrillator and monitor, and extrication tools to remove car wreck victims.

Sp4 Stephen Mink, a member of the ambulance team, says he likes the new vehicles. "They're a little more top-heavy than the old ones," but they're more reliable," he said. "There's a lot more room to move around, and they have better facilities."

Sgt. Steven Gastell, NCO in charge of the team, said many people don't understand the expanded role of today's EMT.

"Ambulances used to be just meat wagons," he said. "You'd throw the patient in the back, and drive like hell to get to the hospital. Now we spend more time



**TEAM MEMBERS** — Some members of the ambulance team pictured from left to right are: Pvt. Susie Alvarez, PFC Mark Fathbruckner, PFC William Cornett, Sgt. Steven Gastell, PFC Daniel Dunham, Sp4 Stephen Mink and PFC Todd Mattern.

with the patient before leaving for the hospital. We try to stabilize the patient before moving him. A lot of people don't understand why we spend that extra time."

Gastell said the mission of EMTs under his supervision is slightly different than that of technicians outside the Army.

"We have the usual responsibilities of fender benders and that sort of thing, but we also support the troops in field exercises," he said. Since troop exercises include chemical agent training, the EMTs must be prepared to treat any resulting casualties. They are equipped with special protective clothing and masks for decontamination operations.

The ambulance team must also be ready to respond

to any mass casualties on post. They routinely carry enough equipment and supplies to treat up to 30 people at once.

When they aren't involved in an emergency run, troop support, or training, team members work in the emergency room, providing patient care.

"They are constantly working with patients," said Moskovites. "I believe that any Army hospital, anywhere in the world, would be glad to get these EMTs."

Moskovites said the team is young, ranging in age from 18 to 32. "They're so young, but they have pride in what they do—they are an important part of our emergency room staff. I'm really proud of them."



**TAKING A CALL** — PFC Todd Mattern communicates with ambulance from hospital.



**TROOP SUPPORT** — PFC Daniel Dunham shows emergency medical supplies used in patient transport vehicles during field training exercises.



**READY** — Sp4 Stephen Mink checks ambulance equipment.

## Committee active in youth education

A committee is working to try improve educational opportunities for military family members on post.

That's according to Evelyn Fox, chairman of the Education Committee of the Army Community Service.

"Activities include regular dialogue with principals, staff members, and parent leaders of the schools serving arsenal students; recommendations for the formation of the Redstone Arsenal Advisory Council to the Superintendent of Huntsville city schools; a college fair for students (in the) 8th through 12th grades; and an annual Space Camp scholarship program for students completing grades 5th through 10th," she said.

The committee plans to sponsor the first College Fair from 1-4 p.m. March 30 at the Teen Center, building 118.

Students in the 8th through 12th grades are encouraged to participate with their parents. Alumni representatives of more than 30 colleges and universities are to provide brochures, firsthand information, and have catalogues available for reference.

"If you have a student thinking about college it is not too soon to browse as a family through the College Fair," Fox said. "The college your student selects may

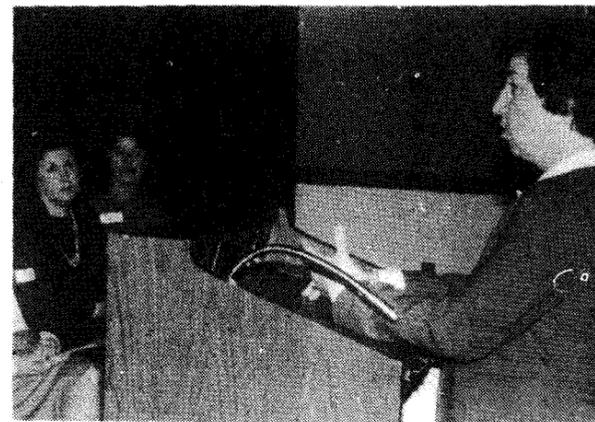
have requirements for high school courses you have never considered necessary."

Capt. Rankin Clinton is the volunteer chairman of the college fair project. Ex-students or alumni interested in representing their college or university should call the ACS office 876-2859 before March 1.

A Space Camp scholarship program will again be sponsored by the ACS Education Committee. Last year four full scholarships, provided by the Officers Wives Club and the NCO Wives Club, were awarded through this program. Scholarships will be available for Level I Camp (students completing 5th, 6th, or 7th grade) and for Level II Camp (students completing 8th, 9th, or 10th grade).

To be eligible students must be children of active or retired military, have an overall B average for the 1984-85 school year, submit an essay on "why I want to attend space camp", and complete an application form. Forms are available at the ACS office in building 3491 on Honest John Road. Past scholarship winners are not eligible for a second award.

For more information about education committee activities, contact Fox through the ACS office 876-2859.



**SUPERINTENDENT** — Dr. Mary Jane Caylor, superintendent of Huntsville city schools, addresses an ACS Education Committee meeting held Feb. 15.

# REDSTONE FEDERAL CREDIT UNION

## Statement of Financial Condition

### December 31, 1984

#### Balance Sheet

December 31, 1984

ASSETS	1983	1984
Loans to Members	\$124,519,612	\$168,738,568
Lines of Credit	2,931,527	3,400,645
Collateral in Process of Liquidation	94,008	247,238
Assets Acquired in Liquidation	44,678	26,669
Other Loans	411,300	396,426
Allowance for Loan Losses	(156,786)	(523,930)
<b>TOTAL LOANS</b>	<b>\$127,844,339</b>	<b>\$172,285,616</b>
Cash on Hand and on Deposit	5,184,007	6,188,351
Accounts Receivable	1,172	56,228
Investments	36,106,467	32,146,305
Accrued Income	1,649,567	1,655,120
Prepaid and Deferred Items	86,764	102,948
Land	689,495	867,251
Building	2,410,683	2,499,962
Furniture, Fixtures, and Equipment	1,419,163	1,503,877
Leasehold Improvements	244,706	214,656
Other Assets	52,177	100,461
<b>TOTAL ASSETS</b>	<b>\$175,688,540</b>	<b>\$217,620,775</b>
<b>LIABILITIES AND EQUITY</b>		
<b>Liabilities</b>		
Accounts and Notes Payable	\$ 185,214	\$ 269,625
Accrued Interest Payable	1,406	707
Taxes Payable	7,237	9,027
Dividends Payable	3,135,697	4,509,913
Accrued and Deferred Items	170,195	178,644
Other Liabilities	(6,783)	(20,479)
<b>TOTAL LIABILITIES</b>	<b>\$ 3,492,966</b>	<b>\$ 4,947,437</b>
<b>Equity</b>		
Shares	\$ 96,991,372	\$123,003,913
Share Certificates	68,047,507	79,326,131
Regular Reserve	4,687,705	6,317,793
Undivided Earnings	2,468,990	4,025,501
<b>TOTAL EQUITY</b>	<b>\$172,195,574</b>	<b>\$212,673,338</b>
<b>TOTAL LIABILITIES AND EQUITY</b>	<b>\$175,688,540</b>	<b>\$217,620,775</b>

Accompanying Notes to these Financial Statements appear in the 1984 Annual Report.

I certify, to the best of my knowledge and belief, this statement and the related statements are true and correct and present fairly the financial position and the results of operations for the period covered.



Roy Hollihan, President

#### Statement of Income and Expenses

OPERATING INCOME	1983	1984
<b>Income from Loans</b>		
Interest on Member Loans	\$14,655,418	\$21,447,727
Interest on Lines of Credit	485,597	559,331
<b>TOTAL INCOME FROM LOANS</b>	<b>\$15,141,015</b>	<b>\$22,007,058</b>
<b>Income from Investments and Other Income</b>		
Income from Investments	\$ 4,541,826	\$ 3,286,854
Fees, Charges, and Rent	634,885	726,235
Miscellaneous Operating Income	163,743	232,268
<b>TOTAL INCOME FROM INVESTMENTS AND OTHER INCOME</b>	<b>\$ 5,340,454</b>	<b>\$ 4,245,357</b>
<b>TOTAL OPERATING INCOME</b>	<b>\$20,481,469</b>	<b>\$26,252,415</b>
<b>EXPENSES</b>		
<b>Operating Expenses</b>		
Employee Compensation	\$ 1,712,583	\$1,934,079
Employee Benefits	322,857	355,982
Travel and Conference	46,177	46,388
Dues and Membership	8,835	11,506
Office Occupancy	805,474	850,784
Office Operation	1,131,720	1,371,490
Loan Servicing	48,707	63,988
Interest on Commercial Money	-	-
Cash Over and Short	15,685	15,575
Miscellaneous Operating Expenses	(884)	18,517
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 4,091,154</b>	<b>\$ 4,668,309</b>
<b>Members' Benefits</b>		
Education and Promotion	\$ 89,535	\$ 146,890
Professional and Outside Services	225,766	313,828
Federal Supervision and Examination	35,912	28,632
Members' Insurance	258,297	161,184
Provision for Loan Losses	400,484	826,567
Annual Meeting Expense	1,980	30,666
<b>TOTAL MEMBERS' BENEFITS</b>	<b>\$ 1,011,974</b>	<b>\$ 1,507,767</b>
<b>Return to Members</b>		
Interest on Borrowed Money	\$ 2,805	\$ 2,812
Dividend Expense — Shares Accounts	5,484,576	9,138,803
Dividend Expense — Certificates	6,940,166	7,739,743
<b>TOTAL RETURN TO MEMBERS</b>	<b>\$12,427,547</b>	<b>\$16,881,358</b>
<b>TOTAL EXPENSES</b>	<b>\$17,530,675</b>	<b>\$23,057,434</b>
<b>INCOME FROM OPERATIONS</b>	<b>\$ 2,950,794</b>	<b>\$ 3,194,981</b>
<b>TOTAL NON-OPERATING GAINS (LOSSES)</b>	<b>\$ 17,230</b>	<b>\$ (19,403)</b>
<b>NET INCOME</b>	<b>\$ 2,968,024</b>	<b>\$ 3,175,578</b>

### Officials Serving the Membership

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# Worker has enjoyed years of watching construction

BY SKIP VAUGHN

After 28 years of watching buildings go up at Redstone, Murrel Metcalfe plans to retire.

He has been involved in quality control over construction work as the assistant area engineer for the Redstone area engineer office, Mobile District Army Corps of Engineers. One of the major projects he worked on was construction of the NASA test stands here in the early 1960s.

"I've been able to see a lot of buildings come up here at Redstone, buildings and other facilities," Metcalfe says.

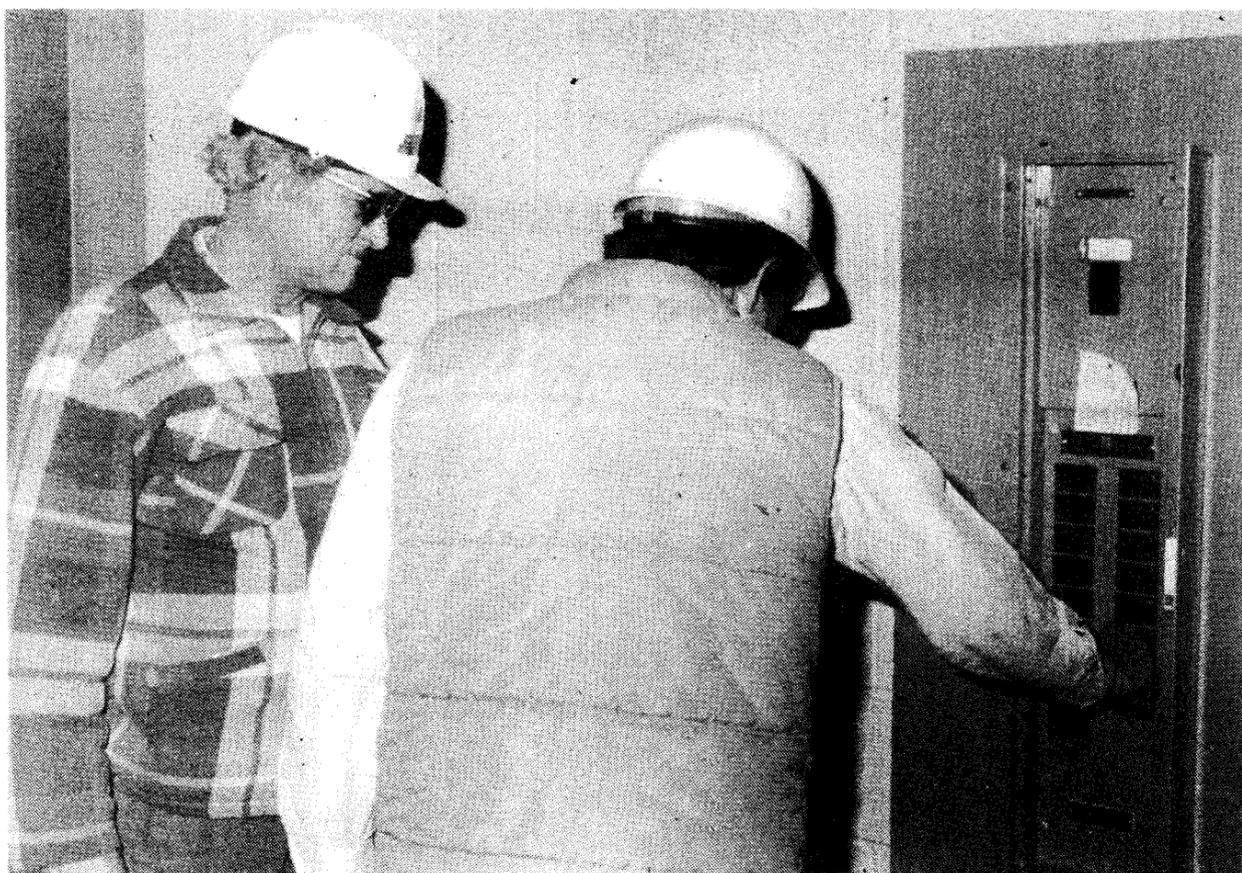
He was the chief inspector on the construction site for the space agency's large test stand for the Saturn C-5 rocket. "It (the stand) was quite unique in that it was the first structure of its kind in size built anywhere," he says.

Over the years Metcalfe has seen the addition of new and upgraded facilities, improvement of the roads, and enlargement of the post airfield.

The Corps of Engineers has supervised construction of the various research and development facilities. "Quite a few of them have been unique," Metcalfe says. "And another thing that I think is real outstanding is the type of people we've had to deal with within our own organization, with various user agencies, and with the Facilities Engineer's force."



RETIRING — Murrel Metcalfe has worked for the Corps of Engineers here since 1956.



ON SITE — Metcalfe watches as Joe Eidson of Tuskegee Lumber Company, prime contractor, examines an electrical panel in a classroom training facility under construction on Mauler Road.

Metcalfe, 59, was born and raised in Tupelo, Miss. This of course was also Elvis Presley's hometown although Metcalfe did not go to school with the late rock and roll star. "I went to school with some of his relatives though," he says. "Elvis was quite a bit younger than me."

He spent two years stateside in the Navy after he was graduated from East Tupelo High School in 1943. Metcalfe then worked for the Mississippi highway department and next in the inspection branch for a contractor on an atomic energy project in Kentucky. In 1954 he went to work for the Little Rock District Army Corps of Engineers in Blytheville, Ark.

In September 1956 Metcalfe transferred here as a job inspector. The Corps of Engineers organization at Redstone has changed through the years according to its workload. For about 20 years Metcalfe has been

assistant to either the resident engineer or the area engineer. The 11-member Redstone office has a project engineer at both the Memphis Defense Depot and the Milan (Tenn.) Army Ammunition Plant.

"In my line of work our concept has gone from a separate inspector for the various phases of construction, to construction representatives who are capable of watching after all phases of construction," Metcalfe says.

He and his wife Juanita reside in Arab. After retiring March 1, he plans to "catch up on a lot of fishing and hunting and loafing," he says. Metcalfe also enjoys woodworking.

"I've enjoyed my job down through the years. It's been real rewarding, (it's) never gotten monotonous. 'Gets a little hectic sometimes but never monotonous.'"

## Ammo gets bar coded to save money

The Army Armament, Munition and Chemical Command (AMCCOM) Rock Island, Ill. has launched a new program designed to facilitate speedy and accurate handling of ammunition records. Beginning in January at the Crane Army Ammunition Activity, Ind. and Pine Bluff Arsenal, Ark., all ammunition, smoke, and incendiary agents are bar coded. Within two months, all Army ammunition production plants will begin bar coding ammunition.

According to David Piskorik, acting chief of the Packaging Office at AMCCOM's Engineering Support Directorate, each of the Armed Services will achieve savings from the new program. The new system is anticipated to save the Department of Defense approximately \$29 million annually in inventory costs and improve the accuracy of record keeping.

The bar codes will contain the national item identification number, lot number, quantity, and serial number (when applicable). In addition, provisions have been made for coding the maintenance due dates, condition code, and ownership code on selected items and shipments.

The bar code system has distinct advantages over some previous inventory techniques, according to Piskorik, who cited the old pencil-and-clipboard method. "Using flashlights in dark silos, a '7' could easily be mistaken for a '1' in recording stock numbers," he said. "Quantities could also be miscounted. But bar coding provides a fast accurate means of capturing data."

In addition to the inventory benefits, shipping and receiving documents can also be recorded quickly and accurately.

Bar coding is a result of the Office of the Secretary of Defense five-year study, logistics applications of automated marking and reading symbols (LOGMARS). After prototype testing, the deputy chief of staff for logistics determined that bar coding

would save the government money if added to existing systems.

Bar coding of the national stock number and contract number began on all military supplies, other than ammunition, in 1982. Bar coding of ammunition was deferred pending agreement among the joint services on data to be bar coded. There was an additional delay pending the delivery of bar coding and reading devices to the ammunition production plants and depots.

In the future, Piskorik says bar coding will also be used in many logistics applications, such as keeping track of maintenance reporting records, which potentially should have the most substantial payback identified in the LOGMARS study.

AMCCOM is a subordinate element of the Army Materiel Command which is responsible for the acquisition and support of Army weapons and equipment. AMC is responsible for executing the Secretary of the Army's mission as the DoD single manager for conventional ammunition. (Arnews)

## Postal rates, fees rise

WASHINGTON — All U.S. domestic and international postal rates and fees increased on Feb. 17.

First-class postage costs 22 cents and post cards cost 14 cents.

Military postal service agency officials expect sufficient quantities of the temporary "D" stamps, as well as one- and two-cent stamps will be available at military post offices overseas. In addition, the maximum value of postal money orders sold in military post offices will increase from \$500 to \$700 but with no increase in fees.

According to the MPSA officials, Department of Defense official mail costs are expected to increase about nine percent, or \$20 million annually. (Arnews)

## Weight policy to limit training options

Soldiers who exceed weight standards may find their training options limited under a new Army policy.

Effective April 1, overweight personnel can be disqualified for all military and civilian schooling beyond initial entry training. Initial entry training includes basic branch course or equivalent for officers and basic training, AIT, OSUT and OST for enlisted personnel.

"Appropriate Army regulations will be changed to reflect this change in policy in future updates," the Army announced. "This change in policy is effective 1 April."

Commanders were advised to "initiate stringent enforcement procedures to ensure that a soldier is within the weight standards before allowing the soldier to proceed to a military or civilian course."

In cases where overweight personnel report for a course, these actions will be taken:

- Students on PCS status will be given a 30-day probationary period to meet the weight standard. If standards are not met, the student will be considered a failure and an appropriate academic evaluation report rendered. The student will be reported to the appropriate career division for assignment instructions.

- Students on TDY and return status will be denied enrollment and returned to their units.

- Students on TDY enroute to a PCS assignment will be denied enrollment and will be reported to the appropriate career division for determination if they should continue to their new unit or be diverted to another assignment.

- Training and Doctrine Command headquarters or major command headquarters of other military schools will notify the losing major command involved.



# CAMEL FILTERS

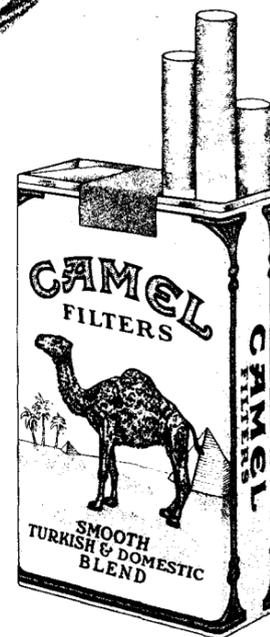
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# MP calls his job a constant challenge

A Redstone military police officer has found that family support helps in his line of work.

Sgt. Graham French, who was named post NCO of the quarter recently, acts as a game warden, desk sergeant and patrol supervisor. He is also a squad leader.

"My job is constantly challenging," he said. "It can go from routine and boring one minute to something very stressful the next."

French said his duty as game warden is one of the most dangerous aspects of his job.

"The people you're dealing with are armed," he said. "If you go after someone who's hunting at night with a high powered rifle, he's liable to start shooting at you."

French, a native of California, has served in the Army for two separate enlistments. His only duty stations have been Redstone and Frankfurt, Germany. He says he likes Alabama.

"Alabama's great. There's a lot less smog here, and the fishing is good," he said.

French and his wife, Carolyn, have two children. Megan is 3, and Amy is 5 months old.

"My wife accepts and supports what I do," said French. "And that's not easy. The hours are long, and I'm on call at all times. Good family support makes everything a lot easier. I really need it."

French says he plans to make a career of the Army. He is scheduled to attend the Army's Criminal In-

vestigator School. Upon graduation, he will be a special agent for the CID at Fort Bragg, N.C. He also plans to complete his college degree, and apply for warrant officer training.



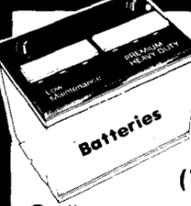
**POLICE OFFICER** — Sgt. Graham French is a military police officer recently named NCO of the quarter.

# Fast food test works

WASHINGTON — Now that six months has passed since the Army and Air Force Exchange Service entered into a 5-year franchise agreement to test Burger King outlets at selected military installations worldwide, how are things going?

Quite well, according to AAFES officials. In the first four months, almost \$1 million worth of food and beverages were sold at the four test sites. AAFES has high hopes for the Burger King outlet in Frankfurt, Germany. They expect it to be the largest sales producer at \$300,000-plus monthly.

In the next several weeks, outlets at Fort Stewart, Ga., and Fort Polk, La., will be added to the original list, which includes Ansbach and Frankfurt, Germany, Schofield Barracks, Hawaii, and Camp Casey, Korea. Opening dates have yet to be set for the outlets approved for Forts Benning and Gordon, Ga., and Fort Bragg, N.C. (Arnews)



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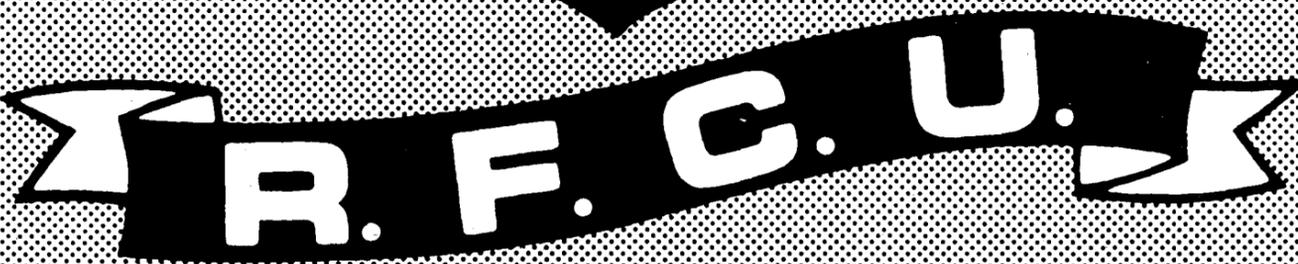
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# Former company commander expects to miss job

BY JEFF WATSON

Being a company commander can be an often thankless job consisting of long hours, hard decisions, and a great deal of responsibilities. For one company commander that recently relinquished his command, the duties will be missed.

Capt. John Turner, now brigade S-3 officer, took command of A Company, 1st Battalion in October 1983 and turned the responsibilities over to Capt. John McCluskey this past Friday.

"Being a company commander was more than I ever thought it would be," stated Turner, a West Point graduate and San Francisco native. "It (being a company commander) wasn't an ordinary job. To me being a company commander meant a lot of interaction with the soldiers, and at times, making a lot of far-reaching decisions that not only affect the soldier, but their families as well."

While acting as A Company commander, Turner oversaw several changes and improvements within the company. Most notable were the division of A Company to form C Company, and various improvements in the quality of life within the company barracks, earning A Company an 'excellent' rating in a recent command inspection.

"One of the first things I learned while at Company A, and really didn't expect, was of the high caliber of soldier we have here," Turner related. "I also think that reflects in the conduct the soldiers show, and the fact that we didn't have some of the problems sometimes associated with barracks life, mainly theft and vandalism."

Problem solving on a job is usually carried out by following a carefully prepared course of action. Many of the problems encountered by a company commander, however, are not so simple and must be addressed on an individual basis.

"I felt the most difficult part of being a company commander was having to make decisions in the 'gray' area of Army regulations, while at the same time, making an effective decision, that considers both the soldier and Army priorities," said Turner. "It's tough and very hard at times. You really think about the decisions you make, and the impact they will have on the soldiers and their families."

Besides perplexing decisions, there have also been many other aspects of commanding a company that has brought 'highs' and 'lows' to Turner's command, and these aspects were expressed.

"I think the high points of being a company commander is that one day a month when you have an awards and promotions ceremony, and seeing soldiers there from my command. Another high point is the

feeling of gratitude I received anytime I could do something positive for a soldier, whether it be career related, personal, or a family matter," Turner said.

"As far as low points go, undoubtedly it's when we receive a bomb threat and coming in and seeing soldiers from my command standing outside, or setting in their cars, trying to stay warm in the sub-freezing cold. That has to be the worst," he added.

As a company commander, Turner witnessed a variety of problems experienced by soldiers. In doing so, he has developed his own ideas as to the biggest problem facing soldiers today.

"I feel the biggest problem facing soldiers today is their ability to mature quickly upon entry into Army-life in order for them to be competitive with their peers. I feel this is important because when it comes time for the soldier to reenlist, the decision will be his, not the Army's. Upon initial entry, the soldier should plan to stay 20 years," Turner said.

"The Army of today is living the motto of 'Army of Excellence'," he added. "The standards are getting tougher as the quality of soldiers increase, the retention requirements just keep going up."

After serving full-term as A Company commander, Turner doesn't deny he'll miss the company and the people he has worked with.

"An unequivocal yes, I will miss the company," Turner said. "The interactions with the soldiers, the decision making, and the feeling of being able to

facilitate a soldier's needs, will all be missed. I'd like to stay another 18 months."

Does Turner have any 'words-of-wisdom' for this successor, or any last words for the soldiers of A Company?

"The only thing I could tell Capt. McCluskey is to be honest, fair, consistent, and foremost, upfront with the soldiers in all dealings. And, I guess that is the way I would like to be remembered as commander of Company A," Turner said, reflecting back. "My last thoughts for the soldiers of Company A would be to keep living the Company A motto: We lead the way."

## Bowling standings

Tuesday's Conference		
Team	W	L
C Company 1	332.5	117.5
HHD, USATSG	325	125
*HHC	304.5	120.5
A Company	285	165
Marines 1	273	177
515th 1	220.5	229.5
*B Company 2	193.5	231.5
B Company 3	194	256
6th Students 1	191.5	258.5
7th Students 1	154.5	295.5
7th Students 2	109.5	340.5
**515th 2	78.5	371.5
* has one match to make up		
** dropped out		
200 Games Bowled:		
B. Evans	227	
Mark Ripp	206	
Mick Gabree	203	
Thursday's Conference		
Team	W	L
B Company 1	339	111
Meddac 1	328.5	121.5
B Company 4	327	123
Marines 2	280	170
7th Students 3	274	176
95th	234.5	215.5
Meddac 2	198.5	251.5
C Company 2	169.5	280.5
291st MPs	161	289
7th Students 4	123	327
Meddac 3	119.5	330.5
6th Students 2	110.5	339.5
200 Games/600 Series Bowled:		
Jim Stracke	258	
Keith Warters	244 & 224 & 649	
Dave Katolin	210	
Dave Baldwin	209	
Jerald Dozier	205	
Bob Tanner	202	
Jim Henderson	201	
Bill Hubbard	201	
Dave White	201	
Jim Metzger	210	



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# Officer advanced course changes made

**FORT MONROE, Va.** — When officers return to their branch schools this year, they'll find revised advanced courses.

The revisions, say officials at the U.S. Army Training and Doctrine Command, are taking place at the same time as changes in the way officer students are assigned after the advanced course.

All the advanced courses now have a mandatory 20-week period of instruction, followed by add-on modules to prepare individual officers for the specific job they're headed to after graduation.

"The add-on modules will be hands-on, performance-oriented courses focusing on technical and tactical proficiency," a TRADOC official said. "They're designed to prepare captains to lead, train, fight and maintain units."

Most branches are developing modules to prepare their officers for assignments peculiar to a given branch. Also, some branch-immaterial modules will cover such positions as adjutant and supply officer.

The modules complement assignment procedures for OAC graduates. As explained by the U.S. Army

Military Personnel Center in Alexandria, Va., these procedures are:

— When notified of their selection for OAC attendance, officers will be asked where they want to be assigned after graduation.

— About two months before reporting to the course, officers will be notified of their tentative follow-on assignment.

— Early in the course, officers will discuss their tentative assignments with branch assignment managers. The gaining command then will be notified of the final assignment decision.

— When the gaining unit notified MILPERCEN and the branch school of the specific duty position to which the officer will be assigned, the officer is scheduled for the appropriate add-on modules to prepare for that position.

— If the necessary modules begin within two weeks after the course ends, the officer will remain at the school. If there is to be a longer delay, the officer may proceed to the new unit and return to the school when the module begins. (Arnews)

# Army adds supply hotline

**WASHINGTON** — The Army's Natick Research and Development Center in Natick, Mass., has added its phone number to the list of military hotlines. This one has been established to answer questions and solve problems related to Army supply items.

Originally designed for supply people at major commands and issuing officers at central issue points on Army installations, the hotline — (Autovon) 256-5341 — now is available to soldiers worldwide.

"If you have a standard combat boot and the sole is loose, chances are it's not a serious problem," said Dave Cheney, and equipment specialist and manager of the hotline. "But if your unit has 10 soldiers with loose boot soles, you might call us to find out if it's an Army-wide problem and what can be done about it."

"Anyone with suggestions, complaints or questions about centrally procured and issued items, such as food, clothing, tentage and individual equipment, can call the hotline," said Cheney. (Arnews)

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*Contract Management—Human Resources Management*  
*Logistics Management—Data Processing*

Master of Science in Engineering Management  
Master of Science in Systems Management  
Master of Science in Contract and Acquisition Management

**Spring 1985 Quarter**

**Registration is now open for the following courses:**

COURSE NUMBER & TITLE	CLASS BEGINS	CLASS ENDS	CLASS NIGHT
SM 5014 Management Information Systems	15 APR 85	24 JUN 85	MON
SM 5017 Program Management	15 APR 85	24 JUN 85	MON
SM 5021 Business Law	15 APR 85	24 JUN 85	MON
CM 5017 Contract and Subcontract Formation	15 APR 85	24 JUN 85	MON
SM 5013 Behavioral Science and Management	16 APR 85	25 JUN 85	TUES
SM 5022 Analytical Methods in Management	16 APR 85	25 JUN 85	TUES
SM 5029 Computer Operations Management	16 APR 85	25 JUN 85	TUES
SM 5034 Program Evaluation	16 APR 85	25 JUN 85	TUES
SM 5006 Managerial Statistics I	16 APR 85	25 JUN 85	TUES
SM 5001 Managerial Accounting and Control	17 APR 85	26 JUN 85	WED
SM 5032 Personnel Management and Industrial Rel.	17 APR 85	26 JUN 85	WED
CM 5011 Procurement & Contract Mgmt & Admin I	17 APR 85	26 JUN 85	WED
CM 5020 Contract Management Research Seminar	17 APR 85	26 JUN 85	WED
OR 5049 Reliability Theory II	17 APR 85	26 JUN 85	WED
SM 5000 Financial Accounting	18 APR 85	27 JUN 85	THUR
SM 5026 Computer Applications For Managers	18 APR 85	27 JUN 85	THUR
SM 5109 Organizational Theory and Design	18 APR 85	27 JUN 85	THUR
OR 5105 Operations Research Computer Tech. II	18 APR 85	27 JUN 85	THUR

Approval has been granted for Veterans Administration tuition for eligible persons.  
For information contact Florida Institute of Technology Resident Director, 876-1581  
or visit the Center in Building 7446 Warehouse Road, weekdays between 0900-1630

# Announcements

## Artificial intelligence seminar

A three-day seminar sponsored by the Army Research Office will be conducted here by the University of Texas starting at 9 a.m. Feb. 25 and concluding at 3 p.m. Feb. 27. This will be an "Artificial Intelligence Seminar on Knowledge Representation, Problem Solving Search and Expert Systems." There is no fee for the seminar to be held in the Rocket Auditorium but those planning to attend should call Shirley Reed or Dr. Willard Holmes 876-4853/1048.

## Military pre-retirement

A military retirement workshop will be held at 1 p.m. Feb. 27 in the NCO Club. Presentations will be made that can affect benefits and rights after retirement for the active duty member and his or her spouse. Spouses are also encouraged to attend. For more information call Frank Adair 876-2022.

## Recreation Center

Here's the Recreation Center's schedule: Tonight- *Air Hockey Tourney* at 7:00. Thursday- *Bingo* at 7 p.m. Friday- *Ping Pong Tourney* at 7 p.m. Saturday- *Chess Tourney* at 3 p.m. Sunday- *Fantasy* show at 7 p.m. Monday- *Trivia Quiz* at 7 p.m. Tuesday- *Pool Tournament* at 7 p.m.

## Protestant women

The Protestant Women of the Chapel will meet at 9:30 a.m. Feb. 21 at Bicentennial Chapel. The program is "Rejoice in the Lord through Music." Members of PWOC will perform individually and in groups and the meeting will close with a sing-along. The program will be repeated at 7 p.m. Feb. 24 at Bicentennial Chapel. Those attending the Feb. 21 meeting who need child care are reminded to make reservations at the Post Child Development Center.

## Officer orientation

A mandatory orientation for all newly assigned officers will be held from 8 a.m. to noon Feb. 28 in room A-241, building 5250. All warrant officers and commissioned officers—O-1 through O-5 (not just O-4 and O-5 as previously announced)—who are newly assigned to MICOM and have not attended a previous orientation are required to attend. For more information call Capt. Joel Becton 876-4668.

## West Point anniversary

Graduates of the United States Military Academy and their guests will celebrate West Point's 183rd anniversary at the Redstone Officers Club on Sunday, March 3, at 5:30 p.m. Graduates, parents of graduates, and former cadets of all U.S. and foreign army, air force and naval academies are welcome together with their spouses. For more information call Louis Hergent Jr., a retired colonel, at 882-3031 or 533-5900 or call Lt. Col. David Linder 895-4402.

## Black history month

A gospel singing featuring local church groups will be held at 7 p.m. Saturday, Feb. 23, at the Post Chapel. A variety show—featuring military and civilian performers—will be held at 7 p.m. Monday at the Recreation Center. Both events are free.

## PX diesel survey

Due to customers' request the Post Exchange is conducting a survey for diesel fuel. Survey forms are located at the Main Exchange and Service Station. Customers with diesel vehicles should complete a survey form and leave it at either location.

## Computer club

A Computer Club meeting will be held at 7 p.m. Feb. 26 at the Recreation Center. The meeting is open to military personnel and family members who are interested in learning about computers or in sharing their computer knowledge. You need not have a computer or have computer experience in order to attend. The purpose of the meeting is to organize the computer club and to get acquainted. There are no dues and free refreshments will be served. For more information call 876-5492.

## Clothing sale

The Thrift Shop, building 3657, will have a clothing sale Feb. 23 from 10 a.m. to 2 p.m. Consignments will not be accepted during the sale. Consignment items are accepted on Wednesdays and Fridays from 10 a.m. until 12:30 p.m. Normal operating hours are 10 a.m. to 2 p.m.

## OMMCS wives luncheon

The School Brigade wives will sponsor this month's OMMCS luncheon Feb. 26 at the Officers Club. Guest speaker will be graphologist Carl Powe. Social hour begins at 11 a.m. Cost for the luncheon is \$6. For reservations call Martha Nell 852-4311, Liz Kidd 837-1706, or Wally Burgess 830-4859. Reservations must be made by Feb. 22.

## Alcoholics Anonymous

The Redstone Arsenal Group of Alcoholics Anonymous has an open discussion meeting each Friday afternoon at 5:15 in room 11 of the Bicentennial Chapel. Anyone interested in the subject of alcoholism is invited to attend.

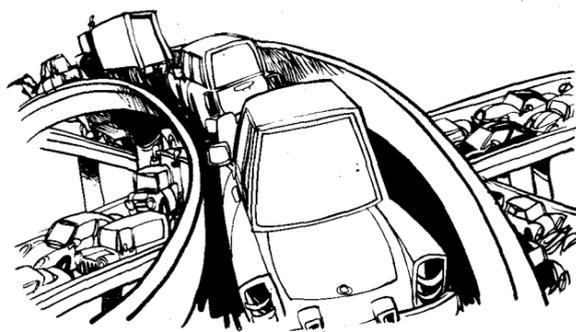
## Exchange discount

The Army and Air Force Exchange Service has again extended its 10-percent discount sale on items in the 1985 exchange mail order catalog. The sale will now run through March 31. All merchandise in the catalog's Europe section (pages E2 through E192) plus the photo and electronic portion from the Pacific section (pages P214 through P352) will be discounted. Shoppers should deduct 10-percent from the unit price of each item when completing the order form. The discount does not apply to shipping and handling fees nor to items in the America sections of the catalog or in catalog supplements, flyers, or sales publications. All mail orders postmarked on or before March 31 will receive the discount. Copies of the catalog are available at local exchange customer service departments.

## NTA meeting

The Huntsville Chapter of the National Technical Association will meet on Monday, March 4, at 7 p.m. at the Elmore Health Science Building, Alabama A&M University. The guest speaker will be Col. R.E. Abbott, the director of the Corps of Engineers, Huntsville District. He will be discussing career opportunities for scientists and engineers. For more information call C. Trabue 876-5031 or Bobby Bradley 876-1208.

# Carpool Hotline



Call 876-1500 to place your free carpool ad.

Park City, Tenn.

Carpool member wanted from Park City/Fayetteville to 5250 or 5687, hours 7-3:30. Sharon Wright 876-8166.

## Logistics engineers

The Tennessee Valley Chapter of the Society of Logistics Engineers (SOLE) will hold its regular luncheon meeting on Feb. 21 at the Officers Club. A social begins at 11:30 with lunch at noon. The speaker will be Jack Isom, director of the Missile Logistics Center. All present and perspective members and guests are invited. Cost of the luncheon is \$6. For reservations call Marty Martin 876-8166 or Glen Smith 876-8634.

## Travelers checks

Travel advances are now being paid by travelers checks. The travelers checks are available to the traveler at no cost and at no cost to the government; therefore, the traveler should not be required to purchase travelers checks on his or her own. In instances of large travel advances where the traveler requests a treasury check, it may be necessary to convert a part to travelers checks at a bank or other financial institution. In this case a receipt for the purchase must be attached to the travel settlement voucher to obtain reimbursement, according to the Finance and Accounting Division.

## Pro baseball team

Preparations continue for the Huntsville Stars' inaugural season in the Class AA Southern League. Projections are that the Stars might sell as many as 1,800 season tickets by the home opener, April 19, against the Birmingham Barons. For season ticket information call 882-2562.

# Remember Your First Love



Was there ever a time in your life when you had a closer relationship with God? A time when you talked to Him, depended on Him, and knew that He loved you? He does, you know. But would He say to you as He did to the people of the Church in Ephesus after He had complimented them on the good things in their lives,

"But I have this against you, that you have left your first love. Remember therefore, from where you have fallen, and repent and do what you did at first...." (Revelation 2: 4-5)

Let this be a time of remembering, a time of beginning again!

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FEBRUARY 24-MARCH 1, 1985

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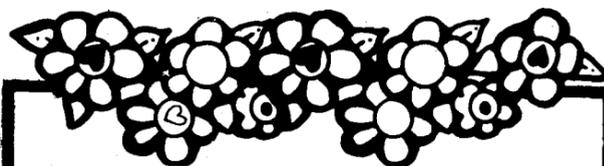
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The Alabama Supreme Court requires every lawyer who chooses to advertise to publish the following: "No representation is made about the quality of legal services to be performed or the expertise of the lawyer performing such services."

# Vaccine now available for viral disease of cats

By David Goolsby

Feline Leukemia Virus (FeLV) is a viral disease of cats. It is contagious, easily transmitted and present in a large percent of the cat population. The disease affects almost 10 percent of cats in the United States—which is between three and five million cats. The virus is transmitted by direct contact between infected cats and susceptible cats because it is shed in the saliva. It can also be transmitted in milk to kittens, by blood transfusion and possibly to the unborn cats of the pregnant cats.

The name "leukemia" was given to the disease because it often causes a decrease in the number of white blood cells (WBC's). These cells are important defenses against infection. Without adequate cellular defenses the animal's immune system can be severely suppressed. This condition of immunosuppression causes the pet to be more susceptible to other infections—viral and/or bacterial.

Lymphosarcoma is a critical cancerous disease caused by FeLV. It actually occurs more frequently than the leukemic changes in WBC's. The cancer lesions are variable in size and location and may go undetected until the cat's health has suffered markedly.

Signs of infection with FeLV are variable because the primary diseases or FeLV-associated diseases may affect almost any organ system. These include the immune, respiratory, digestive, reproductive and urinary systems. The current belief is that more cats die from

FeLV-associated diseases than from leukemia or lymphosarcoma.

Three situations can result once a susceptible cat has been infected:

— The cat's defenses neutralize and eliminate the virus. These cats are resistant to future FeLV infection and are said to be "recovered."

— The infected cat goes through an initial period of virus shedding. Virus remaining within the cat becomes inactive for an indefinite period but may become activated at any time. These cats are "carriers." They remain susceptible to the disease. They can also serve as a source of infection to other cats during those periods of virus activations.

— A cat may become persistently infected and continuously shed the virus. Most cats in this category develop a FeLV-associated disease and die within three years of the initial infection. Because of the progressive nature of the disease, they are referred to as "progressors." This latter group is also a source of infection to other cats.

Unfortunately a cat may not show outward signs of infection or the resulting immunosuppression. Specific laboratory tests are available as the only clear means of FeLV diagnosis. But diagnosis does not allow any prediction of the pet's future health status. It must be understood that even though the disease may be treatable, it is not curable. The owner of the cat that

tests positive for FeLV must also understand that the cat can be a source of infection for other cats, will probably develop a FeLV-associated disease within three years, and will show increased signs of illness after exposure to stressful situations.

The reference to "leukemia" has, for years, caused public concern about FeLV. It has been compared to human AIDS. The accepted belief at this time is that no evidence exists to indicate that the virus responsible for FeLV can be transmitted to people. However we do suggest that the very young, very old and any immunosuppressed individual not be exposed to the FeLV positive cat.

Prevention of a contagious, incurable disease is the obvious choice. Finally we can accomplish that goal because a vaccine is now available. Because of the varied categories of infection, the diagnostic test is required prior to vaccination. For more information the veterinary clinic on post can be reached at 876-2441.

(Capt. David Goolsby is a veterinarian who treats animals here and at Fort McClellan.)

## Troop basketball

Here are the company level basketball standings as of Feb. 14:

Eastern Conference	W	L
A Company	10	2
Meddac	9	2
5th Students	7	4
95th	7	4
Marines	6	6
291st MPs	3	9
B Company 2	1	9
7th Students	0	11
Western Conference	W	L
515th Ord	10	2
B Company 1	9	3
HHC	6	5
4th Students	5	6
6th Students	4	7
C Company	2	9

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- 1984 OLDS CIERA ..... \$9995  
Maroon, automatic, air, P/S, P/B, 8 track, cassette, 4 cylinder, gas saver, one owner, like new, only 1,300 miles.
- 1984 CHEVY S-10 PICKUP ..... \$7795  
Black, 4 speed, air, AM, 4 cylinder, gas saver, one owner, like new, only 8,000 miles, chrome wheels, and raised whitewall tires.
- 1984 BUICK REGAL ..... \$9995  
Green, automatic, air, P/S, P/B, FM, 8 cylinder, one owner, like new.
- 1984 OLDS 98 REGENCY ..... \$14,595  
White, automatic, air, P/S, fully equipped, like new.
- 1984 CHEVROLET CHEVETTE ..... \$3895  
Blue, AM, 4 cylinder, gas saver, one owner, like new.
- 1983 OLDS CUTLASS ..... \$8695  
2 door, sable, automatic, air, P/S, P/B, 8 track, cassette, 6 cylinder, one owner, like new.  
Sold new at Bill Penney's
- 1983 OLDS DELTA 88 ..... \$9695  
4 door, sable, automatic, air, P/S, P/B, FM, 8 cylinder, one owner.
- 1983 CHRYSLER LEBARON ..... \$6995  
Grey, automatic, air, P/S, P/B, 8 track, cassette, 4 cylinder, gas saver, low mileage.
- 1983 OLDS CIERA BROUGHAM ..... \$7695  
Lt. sable, fully equipped, gas saver, one owner, like new.
- 1983 BUICK REGAL LIMITED ..... \$9895  
Green, 6 cylinder, fully equipped, one owner, like new.
- 1983 CHEVROLET SILVERADO PICKUP ..... \$8995  
Red/white, 4 speed, air, P/S, P/B, FM, 8 cylinder, one owner, camper top, sliding rear glass window.
- 1982 BUICK SKYLARK LIMITED ..... \$5695  
4 door, brown, automatic, air, P/S, P/B, 8 track, cassette, 4 cylinder, gas saver, one owner, like new.
- 1982 PONTIAC T-1000 ..... \$4495  
Blue, automatic, air, FM, 4 cylinder, low mileage.
- 1982 BUICK LESABRE LIMITED ..... \$7695  
4 door, grey, cassette, fully equipped, one owner, like new.
- 1982 OLDS CUTLASS ..... \$8195  
2 door, blue, automatic, air, P/S, P/B, FM, 8 cylinder, like new, low mileage.
- 1982 CUTLASS SUPREME BROUGHAM ..... \$5295  
OLDS, 4 door, grey, fully equipped, gas saver, one owner, like new.
- 1982 PONTIAC T-1000 ..... \$4595  
4 door, blue, automatic, AM, 4 cylinder, gas saver, one owner.
- 1982 OLDS CUTLASS ..... \$7495  
4 door, brown, automatic, air, P/S, P/B, FM, one owner.
- 1981 FORD ESCORT S/W ..... \$4195  
Brown, automatic, air, FM, 4 cylinder, one owner.
- 1981 OLDS CUTLASS ..... \$6295  
4 door, blue, automatic, air, P/S, P/B, FM, one owner, like new.
- 1981 OLDS 98 REGENCY ..... \$8995  
4 door, green, 8 cylinder, fully equipped, low mileage.

- 1981 CHEVROLET CITATION ..... \$4195  
Blue, automatic, air, P/S, P/B, FM, one owner.
- 1981 BUICK REGAL LIMITED ..... \$6995  
2 door, green, fully equipped, Sharp.
- 1981 OLDS CUTLASS SUPREME ..... \$6995  
2 door, brown, automatic, air, P/S, P/B, FM, 8 cylinder, one owner.
- 1981 OLDS DELTA 88 ROYALE ..... \$4795  
4 door, green, fully equipped, one owner.
- 1981 CHEVROLET MALIBU CLASSIC ..... \$5995  
Blue, automatic, air, P/S, P/B, FM, 8 cylinder, like new, only 35,000 miles, new tires, one owner.
- 1980 MERCURY COUGAR ..... \$5295  
White, automatic, fully equipped, one owner, Sharp.
- 1980 CHEVROLET MALIBU S/W ..... \$4995  
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- 1980 CHEVROLET MONTE CARLO ..... \$5795  
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- 1980 PLYMOUTH HORIZON ..... \$3695  
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- 1980 BUICK REGAL ..... \$5195  
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- 1980 BUICK SKYLARK ..... \$4495  
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- 1980 HONDA CIVIC ..... \$4495  
Blue, 4 speed, air, FM, gas saver, one owner, like new.
- 1980 CADILLAC ..... \$SAVE  
SEDAN DEVILLE, grey, automatic, 8 cylinder, loaded, fully equipped, one owner.
- 1980 OLDS DELTA 88 ..... \$3995  
Blue, fully equipped, gas saver, one owner.
- 1979 CADILLAC FLEETWOOD ..... \$5995  
BROUGHAM, black, fully equipped.
- 1979 FORD LTD ..... \$4495  
4 door, black/silver, automatic, air, P/S, P/B, FM, one owner.
- 1979 FORD T-BIRD ..... \$SAVE  
Red, automatic, air, P/S, P/B, FM, one owner, like new.
- 1979 CHRYSLER CORDOBA ..... \$SAVE  
Green, 8 cylinder, fully equipped, one owner, like new.
- 1979 FORD MUSTANG ..... \$SAVE  
White, P/S, P/B, FM, 4 cylinder, one owner.
- 1979 MERCURY GRAND MARQUIS ..... \$SAVE  
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- 1979 OLDS DELTA 88 REGAL ..... \$SAVE  
4 door, blue, automatic, air, P/S, P/B, FM, 8 cylinder, one owner, power door locks, P/S, tilt & cruise.
- 1978 CHEVROLET MONTE CARLO ..... \$SAVE  
Blue, automatic, air, P/S, P/B, AM, one owner, new tires.
- 1978 MERCURY COUGAR ..... \$SAVE  
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The Redstone Rocket provides the Rocket Classified section as a free service to active duty military personnel and army civil service personnel at Redstone Arsenal. To place a Rocket Classified ad:

- Type or legibly print a brief description of what you want to sell on an 8½ x 11 inch piece of paper (no 3 by 5 cards or torn paper accepted). You must list a price, your home phone number, your home address and your duty status (active or civil service).

- Sign the ad.

- Deadline is 9 a.m. on the Thursday before the ad will appear. Ads will run for only one week. You may resubmit them.

The Redstone Rocket will not accept ads

concerning real estate, mobile homes, or apartments for rent, or businesses.

Conditional statements as "like new," "excellent condition," "runs well," will not be printed.

If you submit more than one classified at a time, place each one on a separate piece of paper, unless they fall in the same sales category, (miscellaneous, vehicles, etc.).

Mail Rocket Classified ads to Sara Grant & Associates, Atten: Redstone Rocket Classified, P.O. Box 5351, Huntsville, Alabama 35805.

The Redstone Rocket will not accept free classified ads by telephone.

The Redstone Rocket is not responsible for typographical errors or for omissions in this section.

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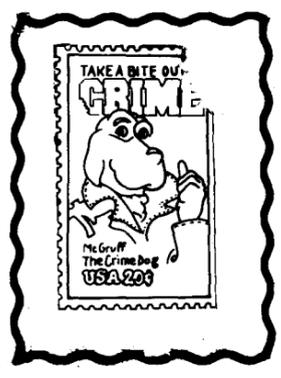
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