

# Redstone Rocket

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January 18, 1984

## Hawk program on schedule in second phase

The second phase of the Hawk missile's product improvement program is on schedule and working well.

The phase two program reached a milestone last July when the first improved missiles in Europe were issued to a unit of the 32nd Army Air Defense Command. Since then four additional 32nd AADCOM units have been equipped with improved missiles.

The missiles are improved with a tracking adjunct system and significantly more reliable high power illumination radar units.

The radar units have been changed from an old design that "historically caused maintenance headaches", according to Lt. Col. Chester Whitaker, Hawk assistant project manager for readiness, and troublesome vacuum tubes have been replaced with solid state components.

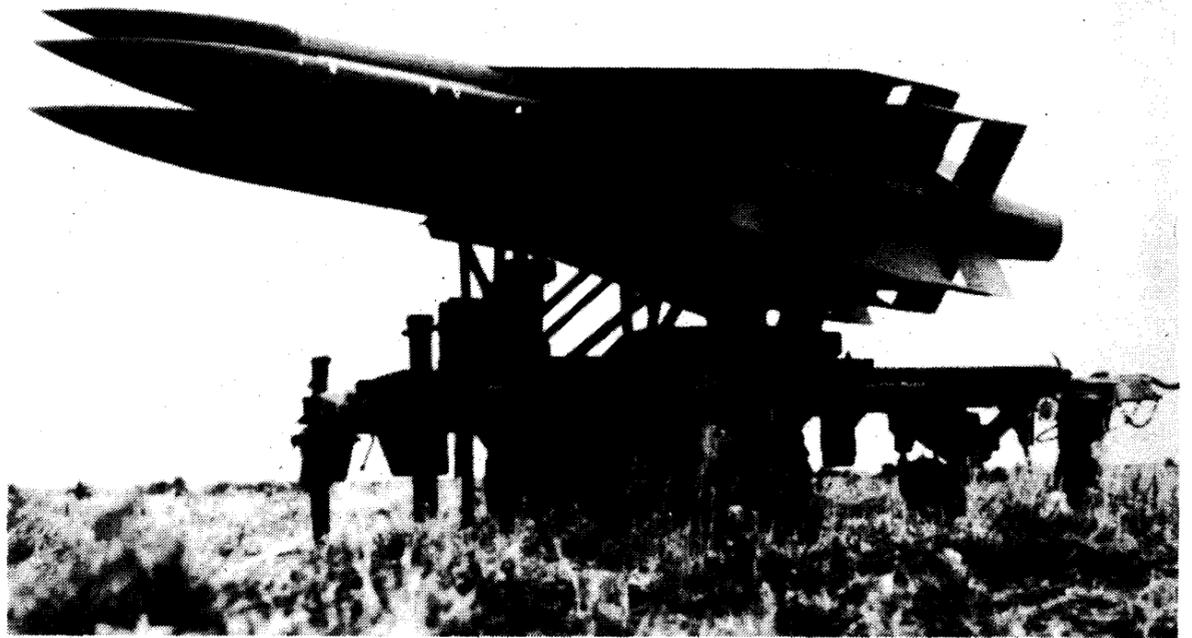
The new tracking adjunct system is an optical tracking system that enhances Hawk's ability to engage hostile targets in spite of enemy use of electronic countermeasures, Whitaker explained.

A special new equipment training school was established near Mainz, Germany to train maintenance personnel prior to receipt of the modified equipment on the tactical site.

The equipment was modified at the Hawk Project Field Facility-Europe in Mannheim. Repair parts to support the new equipment were packaged at New Cumberland Army Depot in Pennsylvania and airlifted to Europe. The equipment, trained troops and repair parts for the system merged as scheduled, resulting in the first unit receiving the improved missiles when it was supposed to.

"Customer reaction to the quality of the equipment has been extremely favorable," according to Whitaker. The reliability improvements to the high power illumination radar have made its mean time between failures higher than ever before, he added, with no 32nd AADCOM unit being "non-mission capable" due to a radar failure.

Other factors demonstrating the success of the fielding program despite some unanticipated pro-



RELIABILITY IMPROVEMENTS will keep the Hawk missile alive into the 1990s. It's already more than 20 years old.

blems, according to Whitaker, are that deployments were not affected by an unexpected change in new equipment training contractors nor by a change from a contractor to Letterkenny Army Depot as the primary modification and fielding agency, and every milestone date for equipping units has been met as originally scheduled.

"This accomplishment was the result of a total team effort with the 32nd AADCOM, Raytheon Company, Northrop Corporation, Letterkenny Army Depot and

MICOM sharing team membership," said Whitaker.

The missile dubbed Hawk PIP II resulting from the phase two product improvement program will enable the system to remain an active member of the Army air defense family well into the 1990s. The basic version was first deployed more than 20 years ago.

This latest product improvement program "continues the MICOM tradition of providing the field with quality equipment and support for an excellent Army," Whitaker said.

### King memorial message

## Arrived in different ships but all in same boat

BY SKIP VAUGHN

The important question is not who killed Dr. Martin Luther King Jr. but what will become of his dream, Congressman Walter Fauntroy told a memorial luncheon here last week.

Earlier at a press conference, Fauntroy said two men, now deceased, offered \$50,000 for someone to assassinate King. The civil rights pioneer was assassinated in 1968.

"I'm satisfied as to why it happened and how it happened and who was involved," said Fauntroy, who was chairman of the subcommittee that investigated the assassination. "The relevant question is what shall become of his dream."

King's dream was of justice, with poverty eliminated and a nation of brotherhood, said the former King associate. Fauntroy in 1971 became the first elected delegate to the House from the District of Columbia in 100 years.

He addressed more than 800 people at the NCO Club on Friday for the ninth annual memorial service honoring King. The congressman is among 19 men and two women in the Congressional Black Caucus.

King's message was "either we learn to live together as brothers on this planet or we perish as fools," Fauntroy said.

"Martin Luther King Jr. will go down into history as the singularly most important man with the most important message in this century," he said. Fauntroy added that King did not rest until he made his dreams of civil rights "living realities."

At the time of his death, King had a dream of a "new coalition of promise" with everyone working together, the congressman said.

Fauntroy told the luncheon audience that a lack of understanding of the nation's economic woes has resulted in government cutbacks in health and welfare programs. He said tax breaks have gone to the rich.

"The reason we're in trouble, simply put, is that other people are making better mouse traps than we are," Fauntroy said.

He listed examples of how foreign manufacturers have produced better products than American manufacturers. He drew laughter when relating how he found a Japanese stereo, Sanyo, was the best buy. "When I saw something better for less, I said Son-yo," he said.

"I was coming down here and something went by me, now I've got to learn how to say Isuzu," Fauntroy said, referring to a foreign car.

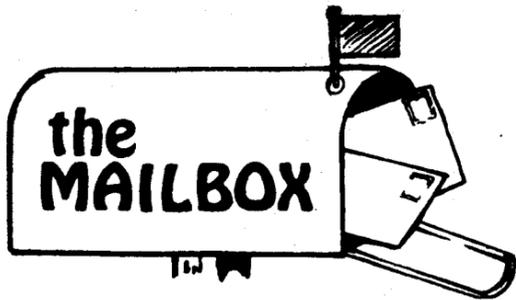
There will be no American jobs until "we decide to reinvest in human capital in this country and until we decide to work together—business and labor and government — to put the economy back together in this country," he said. "The way it's done is by investing in American and realizing we may have come over in different ships but we're in the same boat now."

Fauntroy received a standing ovation after he sang "To Dream the Impossible Dream" with added phrases. "To be willing—like Martin—to die so that honor and justice might live," he sang at one point.

In his press conference, Fauntroy said two now deceased businessmen in Jefferson, Mo., John Kaufman and John Sutherland, had offered \$50,000 for someone to assassinate King. He said James Earl Ray, who was convicted of the slaying, "never got the money."



FAUNTROY reflects on reporter's question at King observance Friday.



## Grapes of wrath

Editor:

"Grapes of Wrath" is a movie title of the 1930's, but the phrase is related to representatives of AFGE Local 1858 who hear the cries in the wilderness for help. These representatives do their utmost to represent all federal employees regardless of membership. They spend long hours after duty including weekends to represent you. In some cases, request annual leave to represent an employee in a hearing. Represent you, the employee, in a Merit Systems Protection Board hearing in Birmingham, Ala., or an EEO case. Representatives win some cases; employees are promoted, reassigned, or reinstated after being fired with back pay. AFGE Local 1858 called on the AFGE National Office for an attorney to fight the RASA Contracting-Out. Spent weekends evaluating the data and did receive a stay saving approximately 600 employee jobs.

Now for the "Grapes of Wrath," a union representative is not a healthy position to be in. In the position all you hear are the injustices toward employees. A representative has to be a dedicated person because there are no "roses" or bands playing except the self-satisfaction of helping a fellow employee. However, due to representing you, the employee, these representatives are well known by the managers/establishment. They never receive a promotion or any award as other employees. They are harassed by fellow employees for being a representative. Representatives frequently put in for a lateral reassignment but are never selected due to their union representation. I guess by now you feel the above is not a very pretty picture but it's all true. However, out there in the wilderness someone has to stand tall and be counted and available to help those in need. The above is to bring to your attention the adversity which faces all union representatives and hope that you as an employee regardless of affiliation will appreciate these efforts. They are your unsung heroes and the first line of defense against injustice.

**Hershel D. Cramer**  
Secretary (elected)  
AFGE Local 1858

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

## First readiness award presented at Fort Riley

The first of the command's new Holger N. Toftoy awards for missile readiness was to be presented yesterday to a Fort Riley, Kans. unit. The 2-51 Air Defense Artillery Battalion was selected for having the most improved air defense system readiness in a year-long competition that ended last August.

On Feb. 2 the 101st Airborne Division of Fort Campbell, Ky. is scheduled to receive the Toftoy award for best land combat system readiness. Brig. Gen. Charles Murray, MICOM deputy commander for procurement and readiness, was to present the awards to the two FORSCOM units.

Two additional Toftoy award winners, the 3-71 Air Defense Artillery Battalion, best air defense system readiness, and the 3rd Infantry Division, most improved land combat system readiness, are to receive their

awards in April. Col. Billy Sharp, MICOM director of missile systems readiness, will present the awards during a visit to the U.S. Army Europe units.

Missile Systems Readiness Directorate initiated the Toftoy awards last year as a means of recognizing excellence in missile systems readiness among the approximately 200 Army missile units worldwide.

The awards will be presented annually on a competitive basis to the four units with the best and most improved air defense and land combat system readiness.

Winners receive an engraved plaque with a likeness of the late Maj. Gen. Toftoy, a leader in early Army missile programs at Redstone Arsenal who brought the Von Braun team from Germany following World War II.

## Corrections

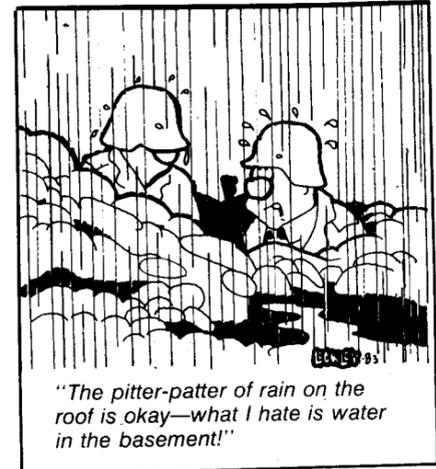
The phone number for the Army's new spare parts hotline service was incorrectly listed in the **Rocket** Dec. 21.

The correct number for the 24-hour hotline is autovon 977-7431.

The number can be called to report supply items that appear to cost more than they should.

The hotline service is offered by the Management Information Research Center at DARCOM's Catalog Data Activity at New Cumberland, Pa.

Also, a typographical error in last week's basketball picks resulted in a wrong team being listed as the pick for the Cincinnati vs. Florida State game. The correct pick was FSU.



## 30 federal agencies donate \$692,277.70

The final report for last fall's Huntsville Area Combined Federal Campaign shows \$692,277.70 was contributed by the 30 federal agencies.

Officers for the record-setting campaign included Maj. Gen. Jerry Max Bunyard, general campaign chairman; Peggy Burns, CFC coordinating committee chairperson; and John H. Wright, finance and reports chairman.

Here is how the funds were distributed: National health agencies, \$162,900.81; United Way of Madison County, \$416,564.04; campaign expenses, \$7,093.82; international service agencies, \$32,009.68; other area united ways, \$60,575.83; national service agencies, \$10,867.02; and other agencies, \$2,266.50.

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# Off-road vehicles should stay on road

Persons driving off-road vehicles where they shouldn't are causing problems in some areas of the arsenal.

"We're concerned about damage to Army property and also to the environment by persons who really don't realize what they're doing by going onto un-

marked trails and roads not intended for use and not hard enough to stand up to the vehicle," said Bill Schroder, environmental quality coordinator at Facilities Engineering.

Schroder said damage has been most apparent on utility right-of-way roads through wooded areas. These maintenance rights-of-way provide access to underground water, sewer and gas mains or overhead utilities and are not intended for vehicle traffic.

"They can't see it but the traction they get with those off-road vehicles tears up the surface and weakens support of the pipes," said Schroder.

A sign prohibiting civilian vehicles from a utility right-of-way east of Patton Road near Huntsville Spring Branch had to be posted to curtail damage to the water main maintenance access road. "They had it torn up really bad in the latter part of December and early January, the environmental coordinator said.

He said too that off-road vehicles potentially are a threat to plant and animal habitat and also could damage some of the many archaeological sites on the arsenal.

"They buy four wheel drives for the purposes of getting off-road and that's what they want to do. But if they're going to do it they're going to have to get off federal roads," Schroder said.

Army regulation 210-9 states that off road use of vehicles on Army property is prohibited except where "determined suitable and specifically designated."

Schroder and off-road vehicles on the arsenal are expected to stay on established roads and not engage in "cross-country" travel.



## DDT pollution suit seeks \$1.2 million

Some 5,000 local plaintiffs have filed a federal lawsuit seeking \$1.2 billion in damages from the Olin Corp. and Tennessee Valley Authority claiming the chemical company and federal agency "systematically and continuously engaged in fraud" to conceal DDT pollution in area waters.

The suit also names as defendants two individuals, Benton H. Wilcoxon and Donald E. Morgan, who were managers of the DDT plant which operated on Redstone Arsenal from 1947 till 1970.

Plaintiffs include former DDT plant workers, their children and survivors, as well as commercial fishermen and residents of communities downstream of the arsenal potentially exposed to DDT pollution from the former pesticide factory.

Studies have shown that nearly 500 tons of DDT waste is present in the sediment of Huntsville Spring Branch on the arsenal. DDT pollution has been found to be widespread in area fish and waterfowl.

Olin Corp. was proprietor of the DDT factory for most of the years it operated here. Tennessee Valley Authority was the agency responsible for the waterways which became polluted with pesticide waste.

Plaintiffs in the suit claim the pollution has possibly shortened their life expectancy and caused genetic damage.

This latest suit does not include residents of the Triana community on the arsenal's southwest boundary who earlier attained a judgement against Olin totaling \$25 million in cash payments and medical care. As part of that legal action Olin agreed to devise a solution to the DDT pollution problem. Olin researchers have established an office on the arsenal and are conducting experiments aimed at satisfying the court's requirement to limit DDT uptake in area fish to no more than five parts per million.

## Meeting to discuss city school zoning

City school officials will explain proposed school zoning changes impacting arsenal children at a meeting of arsenal parents Thursday, Jan. 19.

The meeting will be in the Bicentennial Chapel at 7 p.m.

Maj. Gen. Jerry Max Bunyard asked for the session after meeting with school officials Jan. 16.

Dr. Mary Jane Caylor, superintendent of city schools, and members of her staff told Bunyard and Col. Dahl Cento, RASA Commander, that arsenal elementary students now attending Ridgecrest School will be shifted to Morris and University Place Schools beginning in September.

Dr. Caylor said the Board of Education would decide whether to make both Morris and University

Place K-5 schools or to use Morris as a K-2 school and University Place for grades 3-5.

Under the proposed zoning plan, all arsenal middle school pupils (grades 6-8) would be moved from Westlawn School to Cavalry Hill which the school administration plans to establish as a middle school.

Arsenal high school pupils will continue to attend Butler High.

Army officials asked the superintendent in November to modify the new plan and allow arsenal students to continue to attend the schools nearest their homes.

The Board of Education plans to vote on the zoning plan in February. It must then be approved by a federal judge.

## Board approves uniform modifications

Wear of the new women's garrison cap and the "pin-on" combat/special skills badges are among several proposals approved by the Army clothing and equipment board.

Soldiers now have the option of wearing the pin-on badges rather than the sew-on type, board officials say.

Women may wear the garrison cap as soon as it is available through the supply system or AAFES. A supply should be available at the post exchanges in early 1985 and the individual clothing bag in early 1986, officials estimate.

Other actions include testing the benefits of adding

two side pockets to the women's classic slacks and deciding whether women drill sergeants should wear the male DI hat.

Approval was also given for the development of a parachutist rough terrain suit, NBC equipment bag, tactile CB gloves, multipurpose lightweight overboot, and extended cold-weather clothing system.

Female soldiers asked for slacks with pockets to reduce the need for handbags, according to the ACEB proposal. The cap was approved to replace the black beret, which was perceived by many female soldiers as inconvenient. (Arnews)

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# Encouraging innovation helps government, small business

BY JERRY BERG

It doesn't necessarily take vast amounts of money to coax bright ideas from industry.

That is the philosophy behind a new program sponsored by the Department of Defense—one that is getting enthusiastic participation in Huntsville from the Army's Ballistic Missile Defense Organization.

Six small businesses in Huntsville have been awarded contracts by the BMD Organization in the first phase of the DOD Small Business Innovation Research (SBIR) Program. The six contracts for approximately \$50,000 each are among 13 awarded nationwide by BMD under the SBIR Program.

The purpose of SBIR is to stimulate proposals and support small businesses in high quality, innovative research and development related to important defense-related scientific or engineering problems. Increased use of small businesses in federal R&D will stimulate creation of new jobs and economic expansion.

For a participating agency, there are more direct benefits. Virginia Wright, the small and disadvantaged business utilization specialist for BMD, manages the BMD Organization's involvement in the program.

"This approach gives small businesses a chance to express their innovative ideas. And we have gotten some outstanding proposals through the program," Wright said.

### Particular plus

A particular plus about the program, Wright said, is that the subjects being investigated under the SBIR initiative not only are potentially fruitful areas for BMD technology advances, but areas which otherwise might not have been uncovered.

The SBIR program encourages breaking new R&D ground by taking a slightly different approach—compared to the traditional contracting process—to procuring the tools and techniques for strategic defense. Instead of calling for a contractor to provide a specified product or service, government agencies in SBIR submit topics for investigation. As an example, the BMD topics for 1984 included one titled "Software Development Technology: tools and techniques to improve the ability to produce high-quality software systems in a rapid manner."

Interested small businesses with expertise in that area responded with proposals, and an evaluation committee at BMD selected the most promising one for a "phase one" award. The same procedure was followed in 10 other topic areas listed for 1984.

Les Rogers, SBIR coordinator for BMD's Advanced Technology Center, said phase one of the three-phase program provides for the first few months of effort in which the contractor establishes a detailed plan, with timetable, for carrying out the project. All of the phase one proposals will then be evaluated to deter-

mine which of the innovative ideas merit being carried out, said Rogers.

"Perhaps only three or four of the phase one contractors will be chosen to go ahead with phase two, but those who are selected will be funded at a higher level than in phase one and given two years to produce results," Rogers explained.

### Benefits don't end

Completion of phase two, while it may close out the small business firm's work for the government, doesn't necessarily end SBIR benefits for the firm that has conceived a good idea and refined it to a point where its practical utility is clear.

In phase three of the program, firms will be encouraged to market the results of their DOD-supported R&D in the private sector or to federal agencies (including DOD) using non-SBIR funds. For instance, Rogers pointed out, a computer software in-

novation devised to meet a defense-oriented need might also have application to a civilian-world problem, such as air traffic control.

To foster long-term goals of the SBIR program, the government will allow participating firms to obtain commercial rights to any invention made in either of the program's first two phases. Furthermore, during phase one, contractors are encouraged to try to obtain a commitment at that stage for follow-on private-sector or federal non-SBIR funding of their work. And those who are successful in doing so will be given extra consideration during evaluation of phase two proposals.

For the time being, however, officials at BMD are eagerly awaiting the first-phase results of a program that represents a new approach to how government and small business can most productively cooperate in seeking solutions to problems such as defense against ballistic missiles.

## Army's tax burden amounts to more than \$1 billion

WASHINGTON—While few people may think of any military service as a taxpayer, the Army's growing tax burden now amounts to more than \$1 billion.

Officials report that except for a few federal excise taxes, the Army is never taxed directly. Rather, indirect taxes are passed on to the Army by companies contracted for goods and services. Even though these Army contractors must file tax returns and make tax payments, the Army itself bears the financial burden of these taxes under the contract.

At the federal level, the Army pays most taxes imposed on transportation articles. Costs range from a nine-cent tax per gallon of fuel to a 12-percent tax added to the price of every vehicle the Army buys.

The Army faces another huge tax bill if the 12-percent heavy vehicle tax is applied to its new expanded mobility tactical truck. If the IRS can't be convinced the vehicle is intended for off-road use only, the Army will have to pay \$100 million in taxes—roughly enough to pay for another 750 trucks.

At the state level, officials say, indirect taxation affects even more of the Army's dollar. Government contractors are regularly taxed on business occupation, environment, excise, franchise, gross receipts, income, privilege, property, sales, utility—the cost passed on to the Army.

"Without question, the United States may ultimately have to pay many of these taxes," wrote a Pentagon official recently. "The unmistakable trend of the Supreme Court is to sustain these taxes...even though the financial burden, by contract or otherwise, ultimately falls on the United States."

The report said that limited budgets, declining revenues and taxpayer revolts have made states more aggressive in their attempts to indirectly tax federal property and operations.

"In light of these factors," the report read, "it is equally clear that the Army's tax burden will continue to expand."

## See counselors for educational assistance

WASHINGTON—Soldiers not yet enrolled in the veterans education assistance program are reminded to check with their local education counselors on how best to participate.

Army education officials point out one option not often considered by potential soldier-students: They can deposit personal funds targeted for VEAP benefits

into interest-bearing bank accounts and thereafter withdraw the funds at a time most advantageous to them for lump-sum deposit into a basic VEAP account.

Army education officials say that the decision on that option in relation to others should be taken up with counselors available at Army education centers worldwide. (Arnews)

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# Many events scheduled for community services day

Family members in the military community can get a good idea of the services available to them here by attending Community Services Day, Jan. 24.

Officials from various on post services will give brief presentations at the program set for 8:30 a.m. to 3 p.m. in the assembly room of the Bicentennial Chapel. Lunch will be provided by Army Community Services.

"It's to educate the military community on the services that are available to them," said Rita See, a volunteer who coordinates training for ACS volunteers. She said all interested family members, whether active duty or retired, are invited.

A committee of volunteers has been working on the orientation day program for more than a month, according to Thelma Way, a volunteer supervisor for ACS.

Speakers will include top officials from social, medical and exchange services as well as family housing, post engineers and youth services. Army Community Services plans to have similar orientations twice a year.

"We felt there was a need to get more information to family members," said 1st Lt. James May, ACS officer.

Nursery services will be provided by calling in advance 837-6464. "And be sure immunization cards are on file at the ACS child care center," May added.

Questions can be directed to Army Community Services at 876-2859. Here are the scheduled events for Community Services Day, Jan. 24:

— 8:30 a.m., coffee and sign-in; 9 a.m., introductions by Thelma Way, volunteer supervisor for ACS; 9:10, opening remarks by Col. Dahl Cento, RASA commander; 9:20, ACS history and objectives by 1st Lt. James May; 9:40, social services by Dr. William Resha, child care coordinator and Army family advocacy officer; 10, Army Emergency Relief by Juanita Phillips, AER officer; 10:20 break; 10:30, Red Cross by William Ray, Red Cross director for Redstone; 10:45, human resources by Tony Capowski, civilian program coordinator for Human Resources Development Office.

— 11:00 a.m., child development services by Resha; 11:15, medical facilities by Capt. Harold McIntosh, chief of clinical support division at Fox Army Community Hospital; 11:30, dental facilities by Col. William Cruse, Dental Activity commander; 11:45, Champus by Brenda Cagle, health benefits advisor at Fox Hospital; 12, lunch; 12:45, recreation services by

William Diamant, chief of morale support activities; 1:00 p.m., family housing by Dora Hastings, housing referral officer; 1:15, facility engineers by Facility Engineer Paul Hancock; 1:30, commissary by Jimmy Steelman, supervisory supply technician at the com-

missary; 1:45, Post Exchange by Robert Davis, PX manager; 2:00, retired services by Frank Adair, retired services director; 2:15, volunteer committees by Marie Keirstead, assistant volunteer supervisor at ACS; and 2:30, closing remarks.



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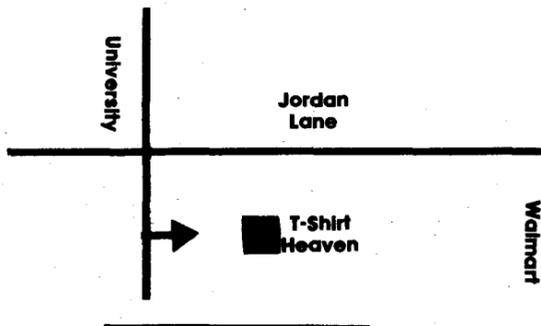
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# Top NCO applies himself to his goals in the Army

**BY SKIP VAUGHN**

If SSgt. Henry Jones hadn't been named NCO of the Quarter, he probably would have kept on trying. "You can do anything you want to do in the military if you just apply yourself," says Jones. "Never think that anything is too difficult. Don't ever give up. Just keep trying."

Jones, a platoon sergeant in School Brigade, was named NCO of the quarter for last October through December. The 8th Student Company soldier won at the battalion level before competing against two other NCO's before a post-level board.

He commands about 40 people as the sergeant for 5th Platoon, 2nd Battalion. This includes being a counselor, motivator, trainer and someone who makes sure their living conditions "meet military standards," Jones says.

The 31-year-old South Carolina native has been a platoon sergeant since coming here from Germany in November 1982. He has been in the Army for almost 10 years and describes himself as a career soldier.

"I just want to be the best I can be in whatever I do. I always pride myself in trying to be the best I can be," says Jones.

He is from Manning, S.C., about 64 miles southeast of Columbia, where he was graduated from high school in May 1971. He entered the Army three years later. Under the Army apprenticeship program, he received a certificate last year from the Department of Labor as a journeyman welder.

Jones is proud of the certificate he received for com-

pleting the apprenticeship training from 1978-82. "That's really done quite a bit for me, my morale and everything," he says.



NCO OF QUARTER SSgt. Henry Jones wants to be best in all he does.

NCO of the quarter was another goal that he worked hard for; he studied a lot to prepare for the board. Another 8th Student Company soldier, Sgt. Gary Kruse, won for the previous quarter. The top NCO receives awards from various groups and businesses.

The most recent honoree and his wife Leticia have two daughters, Sheila, 9, and Lasharn, 6. Jones enjoys basketball, jogging and sports in general.

"The Army's just what you make it. If you want to be something, all you've got to do is apply yourself," he says.

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# BDU developer's support uniform

WASHINGTON—For all their little growing pains during the past two years, the evolving versions of the battle dress uniform offer U.S. forces as much as modern science and technology can produce.

That's the sustained view of Army officials charged with the research, development, and field-testing efforts toward perfecting this "garment system" for the modern U.S. combatant.

In a recent press conference at the Pentagon, Brig. Gen. J.D. Ross of the Army's Office of the Deputy Chief of Staff for Logistics reiterated the Army's satisfaction with the basic concept and functionalism of the uniform. He dismissed as premature certain troops' sporadic criticism of the uniform, noting the several refinements programmed for adoption during the coming months.

From a continuing appraisal of the uniform's human-engineering, esthetics, and durability, said Ross, the Army finds no reason to alter the uniform's scheduled "priority based" program of design, manufacture, testing, procurement and fielding.

Ross reminded participants at the conference that the initial version of the uniform was targeted for a cool-weather climate like northern Europe. "They love it in Europe," he said.

In responding to reports about that version's heat-retention problem in tropical areas, he also reminded the audience that a light-weight, all cotton version now in the development stage is expected to be tested soon and made available to all users active and reserve, by 1985. (Arnews)

# Commissary prices lower in survey

According to a 1983 price comparison survey conducted by private researchers, customers can save approximately 26 percent on their bill by shopping in the local Army commissary rather than in a commercial supermarket.

The survey compared five Army commissaries in the continental United States with a nearby commercial supermarket. Commercial facilities, their locations and prices were examined. Eighty-one items selected from the grocery, meat and produce departments in each commissary were included in the price comparison of identical brands, grades, sizes and types of containers.

# 60,000 U.S. troops in Korea exercise

WASHINGTON—Some 60,000 U.S. military personnel will join South Korean forces, to participate in "Team Spirit '84," a major field training exercise scheduled for February.

The ninth annual exercise involves Army, Navy, Air Force and Marine forces already stationed in Korea, within the Pacific Command and the continental U.S. They will train alongside 147,000 Republic of Korea military personnel.

Reserve and Army National Guard units will also participate.

The purpose of Team Spirit '84 is to improve combat readiness of ROK and U.S. forces through training in joint and combined operations. The exercise will refine application of air-land battle doctrine and focus on realistic training in a field environment.

Team spirit will feature the UH-60 "Blackhawk" helicopter in its first major training exercise since NATO's "Reforger '83."

Participation will demonstrate the United States' pledge to strengthen military forces in Korea. (Arnews)

# Weapons qualification no longer Armywide

WASHINGTON—Under a recently announced policy change, soldiers no longer undergo annual weapons qualification unless they are assigned to a unit or duty position authorized individual weapons.

The original policy called for every soldier to qualify, regardless of the unit's weapon-authorization status.

Army operations officials say that the change derives from findings that too many weaponless organizations had a hard time complying with the requirement of the annual qualification process.

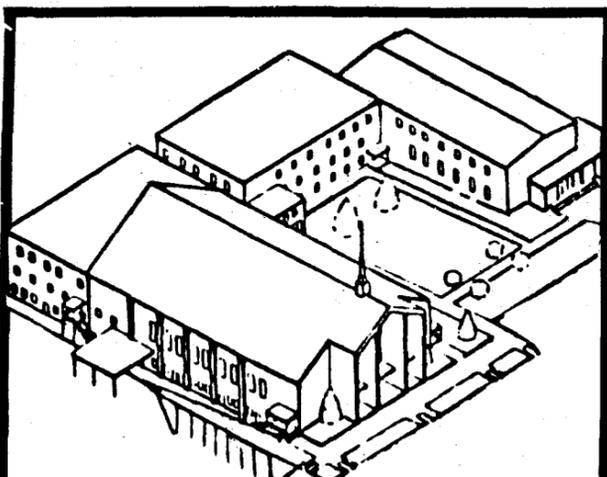
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# Criminal investigator job said exciting, rewarding

BY SKIP VAUGHN

They work like city police detectives, investigating major crimes in plain clothes.

The main difference is these are military personnel who investigate serious crimes of interest to the Army. They're called CID agents.

"We're looking for good people to apply for the program," says Special Agent Bill Griffiths of the Redstone resident agency for Army Criminal Investigation Command.

Griffiths is an investigator but other specialties within CID include crime lab technician, firearms, and fingerprinting, to name a few. There are three crime labs throughout the world. "And something that's relatively new in the last few years, we're getting into economic crimes," says Griffiths. "We're training agents to become specialists in economic crimes."

A soldier applies to become a CID agent. The application is reviewed by the Criminal Investigation Command and, if accepted, the soldier is sent to the basic criminal investigation course at the Military Police School at Fort McClellan, Ala.

After successfully completing the course, he or she is assigned to a CID office somewhere in the world and serves a one year probationary period.

"Basically what we do is we investigate any crime within the Army, or where the Army has an interest, that is punishable by one year or more in jail. And we also provide protective services for people like the Secretary of Defense, Secretary of the Army," Griffiths says. "Basically we provide protective services for people within the Department of Defense. There are times where we may be tasked to assist in protecting other people."

They investigate felony crimes such as murder, rape, or robbery and thefts of more than \$250 value. Military police investigators handle property offenses when the value is less than \$250.

The crimes CID agents investigate are Army related. This not only includes major crimes on an installation but also those off post which the Army has a legitimate interest in. An individual off post who is selling drugs to people bringing them on post would be an example. CID agents would work with local authorities on a case like that.

"We also conduct crime prevention surveys," says Griffiths. These are checks on facilities to identify any crime-conducive conditions.

Qualifications for criminal investigation agents include U.S. citizenship, a GT score of 110 or higher, enlisted grade E-4, a minimum of two years in the Army and two years of college.



CID OFFICES are located on Cajun Drive in arsenal building 3649 with the military police investigations section.

"It can be dangerous some times. I find it exciting," says Griffiths, an agent for five and a half years who came to Redstone last November. "It's different, you never know what's going to happen from one minute to the next."

One of four agents here, he says he enjoys the job and finds it "personally rewarding." Redstone is among 143 CID elements, including the headquarters at Falls Church, Va.

"Anyone interested in applying for the CID program can call me at 876-2037 and I'd be glad to talk to them," says Griffiths.

Tom Green, special agent in charge of the Redstone resident agency, adds that "CID is always in need for talented minorities and females."

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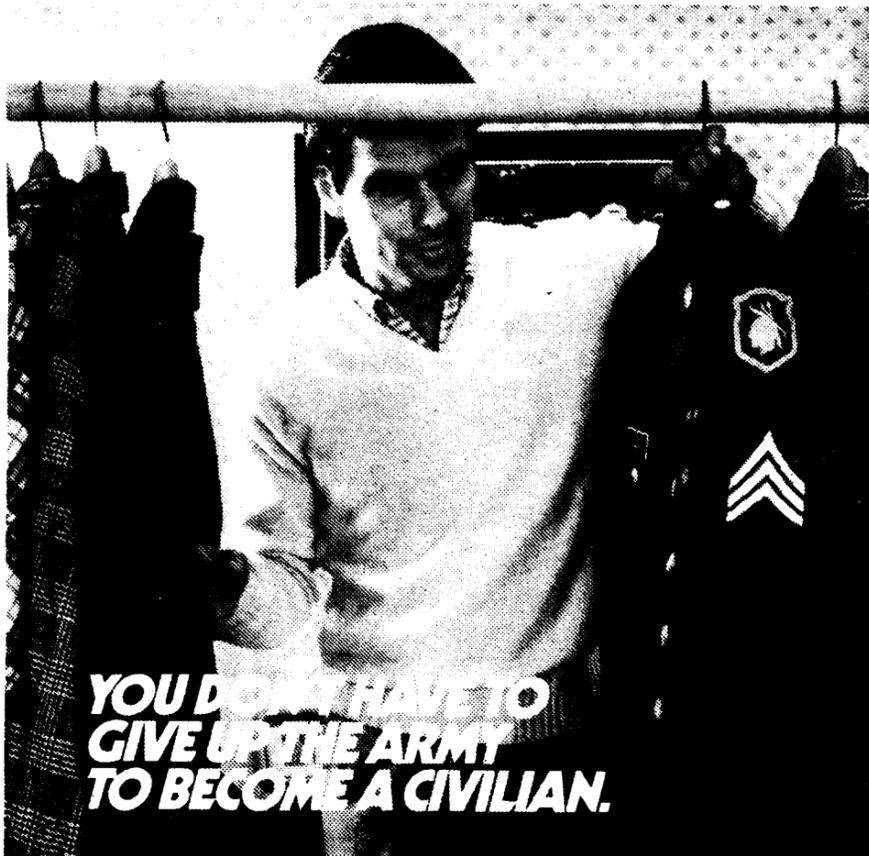
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# 'Urgent Fury'—The Grenada Op

On October 25, 1983, the U.S. military, at the request of the Organization of Eastern Caribbean States, conducted joint operations, code named "Urgent Fury," to protect U.S. and foreign citizens in Grenada and to assist in restoring order and stability in the country.

During the first few days of the operation, more than 600 Cubans were detained in Grenada. Resistance from these well-armed military and

para-military forces belied claims that they were simply "construction crews."

Large amounts of Soviet weapons and equipment, supplied by the Soviets through Cuba to Grenada, were found by the multinational force. Following is a complete list of those weapons and equipment. This weaponry has been estimated to be sufficient to equip two Cuban infantry battalions for 30-45 days of combat.

## Rifles and Machine Guns

- 1,626 — Soviet AK-47 Assault Rifle
- 1,120 — Model 52 (Czech)
- 58 — Enfield
- 4,074 — KS Rifle (SKS)
- 3 — MK-3
- 2 — Bren Rifle
- 6 — M-16
- 2,432 — Mosin Nagent (7.62 mm Soviet Rifle)
- 32 — M-3A1 Submachine Gun
- 7 — Sterling Machine Gun
- 55 — M-23 Submachine Gun
- 17 — Sten Mark 2
- 180 — Soviet M-1945 Submachine Gun
- 300 — Miscellaneous Sidearms
- 31 — .22 Caliber Rifles
- 300 — Shotguns

## Crew Served Weapons

- 9 — Soviet 7.62 mm PKM Machine Gun
- 8 — 73 mm SPG-9 Recoilless Gun
- 12 — ZU-23 mm Anti-Aircraft Gun
- 1 — DSHQ 12.7 mm Machine Gun
- 10 — 82 mm Mortar

## Ammunition

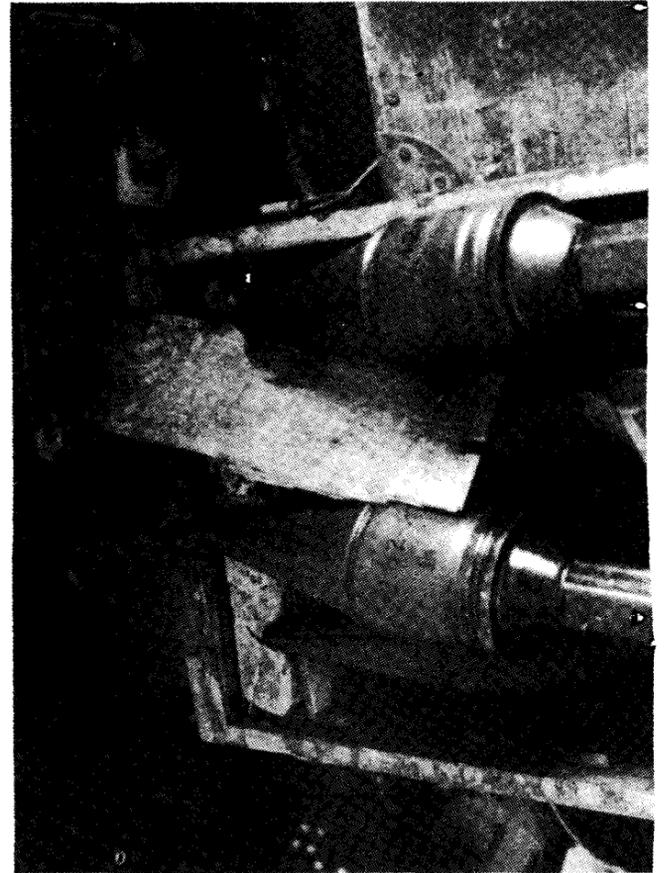
- 5,516,600 RDS — 7.62 mm
- 162 RDS — 73 mm
- 8,962 RDS — 82 mm Mortar
- 2,320 RDS — 14.5 mm
- 29,120 RDS — 12.7 mm
- 86,332 RDS — 23 mm Anti-Aircraft Gun Ammunition
- 366 RDS — 57 mm Rocket Propelled Grenades
- 940 RDS — 75 mm
- 1200 sticks — Dynamite
- 24,768 — Flares

## Miscellaneous Weapons

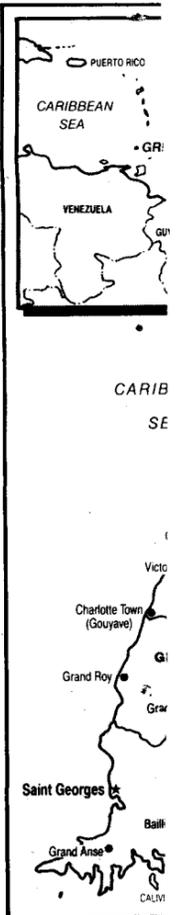
- 6 — RPG 7 (Rocket Propelled Grenade)
- 46 — RPG 2 (Rocket Propelled Grenade)
- 8 — Riot Gun Tear Gas
- 8 — Flare Guns
- 1,824 — Grenades

## Vehicles

- 2 — Armored Fighting Vehicles



North Korean rocket-propelled grenades discovered in Grenada.



**Geography:** With an area of 344 square miles, Grenada is about the size of Washington, D.C. It is the most southerly of the Windward Islands in the Caribbean Sea and is about 150 miles southwest of the tip of the South American continent and 90 miles northwest of the tip of the State of Florida. The State of Grenada also includes the southernmost Grenadines, a series of small islands extending from the north to St. Vincent.

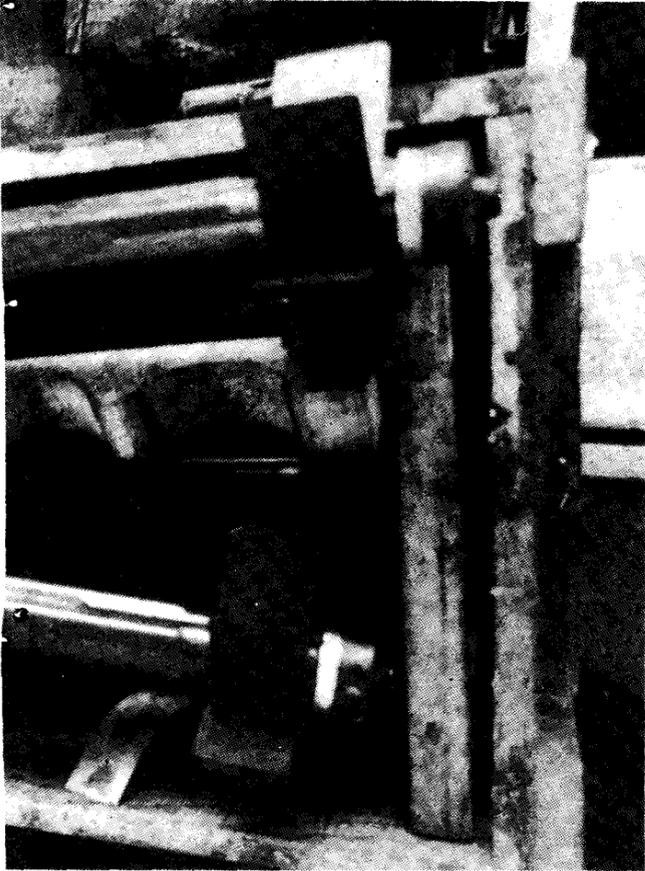
The center of the island is a lush, mountainous rain forest, and the coast has many white, sandy beaches. Its rich, dark soil and high rainfall make it well suited for tropical agriculture. Grenada, known as the "Spice Island," is famous for its nutmeg and cinnamon.

The capital of Grenada is St. George's, with an estimated population of 10,000.

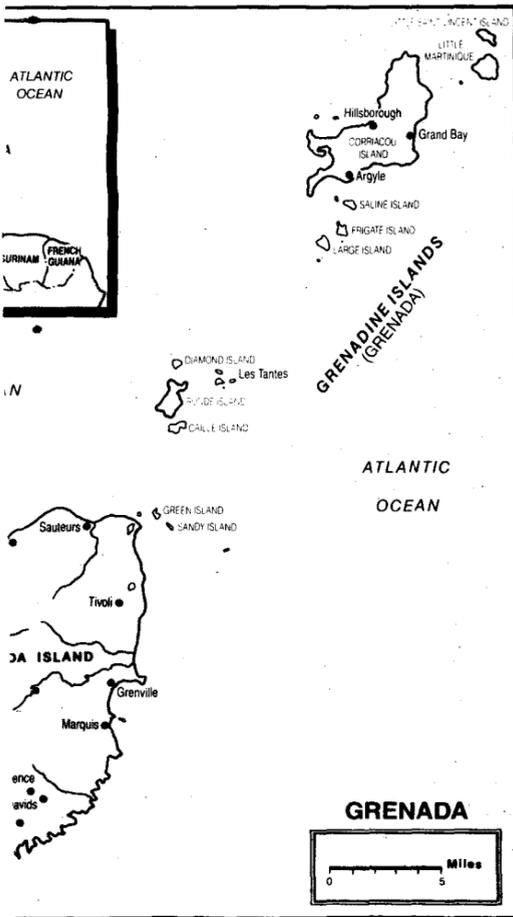


This box, labeled "Cuban Economic Office," contains Soviet 7.62mm small arms ammunition. Large caches of weapons and munitions were discovered at locations throughout Grenada.

# ration



Soviet assault rifles discovered in Grenada.



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**People:** Most of Grenada's population, 106,000, is of African descent; there is now little trace of the early Indian population—the Arawaks and the Caribs. About 30 percent of the population is concentrated around the capital. The rest is distributed evenly throughout Grenada, mostly on small farms.

English is the official language of Grenada and is the only one in general use. Only a few people still use a French *patois*.

A significant reminder of Grenada's historical link with France is the strength of the Roman Catholic Church. Most Grenadians are Catholic. The Church of England is the largest of the Protestant denominations.

**Economy:** Grenada's economy, as in most of the West Indies, traditionally has been sustained by agriculture. Un-

like most of the other islands in the eastern Caribbean, however, Grenada's economy is not dependent on one crop. The "Isle of Spice" exports nutmeg, cacao and bananas, and a variety of other minor agricultural products.

In recent years, tourism has come to play an important role, contributing an estimated \$9 million annually to Grenada's economy in the late 1970s.

**History:** Columbus discovered Grenada in 1498 during his third voyage to the New World and named the island "Concepcion." The origin of the name "Grenada" is obscure. As legend has it, the Spanish renamed the island for the city of Granada, but by the beginning of the 18th century this had changed in common usage to Grenada.

At the time of its discovery, Grenada was inhabited by Caribs, a warlike cannibal tribe of Indians who had driven the more peaceful Arawaks from the island. Partly because of the Caribs, Grenada remained uncolonized for over 100 years after its discovery. The British attempted to settle the island but were driven off.

In 1650 a French company founded by Cardinal Richelieu purchased Grenada from the British and established a small settlement on the island. The French settlement stayed and the island remained French until it was captured by the British 100 years later during the Seven Years' War.

Grenada was formally ceded to Great

Britain in 1763 by the Treaty of Paris. Although the French regained control of Grenada in 1779, the island was restored to Great Britain in 1783 by the Treaty of Versailles.

During the 18th century, Grenada's economy underwent an important transition. Like the rest of the West Indies, Grenada was originally settled to cultivate sugar. However, a series of natural disasters paved the way for the introduction of other crops. A plague of ants, followed closely by the "great hurricane of 1780," virtually destroyed the island's sugar industry.

In 1782 Sir Joseph Banks, the botanical adviser to King George III, introduced nutmeg into Grenada. The island's soil proved ideal for growing nutmeg, and because Grenada was a closer source of spices for Europe than the Dutch East Indies, it assumed a new importance.

The collapse of the sugar estates and the introduction of nutmeg and cacao encouraged the development of smaller land holdings and tenant farming. As farmers began to acquire ownership of their land, the island developed a yeoman farmer class which became the basis of contemporary Grenadian society.

In 1833 Grenada was made a part of the Windward Islands Administration. The Governor of the Windward Islands

(Cont'd on next page)



A warehouse full of Soviet 7.62mm small arms ammunition shipped from Cuba. Six warehouses were found, containing weapons and ammunition far in excess of Grenada's defensive needs.

administered Grenada throughout the remainder of the colonial period. In 1958 the Windward Islands Administration was dissolved, and Grenada joined the Federation of the West Indies.

After the Federation collapsed in 1962, the British attempted to form a small federation out of their remaining dependencies in the eastern Caribbean. Following the failure of this second effort, the British and the islands developed the concept of associated statehood.

Under the Associated Statehood Act of 1967, six British dependencies in the eastern Caribbean (Grenada, St. Vincent, St. Lucia, Dominica, Antigua and St. Kitts-Nevis-Anguilla) were granted full autonomy over their internal affairs with Britain retaining responsibility for their defense and external affairs.

Grenada became an Associated State on March 3, 1967. It was the first of the Associated States to seek full independence, which the British granted

on February 7, 1974.

On March 13, 1979, the New Joint Endeavor for Welfare, Education and Liberation (JEWEL) Movement ousted former Prime Minister Sir Eric Gairy in a nearly bloodless revolution. Until 1983 the government was headed by Maurice Bishop.

On October 13, 1983, Bishop's government was overthrown by some of his followers and he was held under house arrest. A week later Bishop and some of his cabinet members were executed and the Revolutionary Military Council (RMC) headed by General Hudson Austin announced itself in control. The RMC declared a 24-hour curfew and stated any one who left his house would be shot on sight.

On October 25 the U.S. military, at the request of countries of the Organization of Eastern Caribbean States, conducted joint operations to protect U.S. and foreign citizens in Grenada and to assist in restoring order and stability in the country.

## Veterans receive record dividend

WASHINGTON—More than 3.5 million veterans who have kept their GI life insurance policies in force will receive insurance dividends during 1984 totaling a record \$721.8 million.

"No application for the annual dividend is needed," said Harry N. Walters, administrator of veteran affairs. "Each policy holder will receive the dividend in the month of the anniversary date of the individual policy."

Average dividends will range from \$49 to \$467, depending on the type of policy, the amount of insurance, the age of the insured, and how long the policy has been in force. Payment options range from cash to the purchase of paid-up insurance.

The amount to be paid is \$48.6 million more than the \$673.2 million paid during 1983, according to Veteran Administration officials. The increase is attributed to higher interest rates earned by the insurance fund.(Arnews)

### NATIONAL NEWS — MILITARY EDITION

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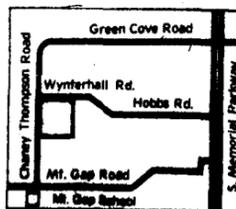
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- 4060 Memorial Pkwy. S. — 883-8670
- 300 Governors Drive SW — 534-5125
- 2304 Bob Wallace Ave. SW — 534-7961
- 2417 Memorial Pkwy. NW — 536-4856
- 4802 University Pkwy. NW — 837-1207

# Put Yourself in the Marketplace, in the Classifieds

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 8 1/2 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, Attn: 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.

**WANT TO BUY:** Brownie Scout Uniforms, sizes 5, 6, and 6X. Home phone—536-8447.

**OKIDATA DOT MATRIX PRINTER,** microline 82A, \$400; home stereo equalizer (20 band) with LED readout \$120. 19" color TV 8 months old, \$300. Corvette glass T-tops, blue tint, 1 pair \$550. Home phone—882-6590, office—876-8493.

**TWO ENDTABLES** \$150 and one cocktail table \$100. Double bed frame with brass headboard \$225. Call 881-3912.

**1977 PONTIAC GRAND PRIX,** air conditioning, power steering, white with green interior. Asking \$950.00 or best offer. Call Jim at 830-4834 or 876-4755.

**1981 BUICK SKYLARK LIMITED,** automatic, air, power steering, am/fm radio, tilt steering, other features offered only on limited edition, 4 cylinder, burgandy inside and out, 2-door, \$5,600, call 830-0627 after 5:00 p.m. or all day on weekends.

**1981 MERCURY LYNX,** white, 2 door hbk, air, power steering, and brakes, local one owner, \$4395, call 882-3687.

**1982 MAZDA GLC SPORT,** 5 spd, air, sunroof, low mileage, \$5800. Call 882-3687.

**1982 DATSUN SENTRA STATION-WAGON,** tan in color, automatic, sunroof, rear window defrost and wiper, 14,500 miles. Asking \$5500. Home phone—882-6590, work—876-8493.

**1974 CONTINENTAL MARK IV,** \$1495 firm, call anytime, 881-7772.

**1973 CADILLAC COUPE DEVILLE—**all power, new paint, leather interior, \$1595. Call 536-4718 after 4:00 p.m.

## Golden Dragon Restaurant

For REAL Chinese food and great service, many knowledgeable diners make it a point to stop in at the GOLDEN DRAGON RESTAURANT at 207 Jordan Lane NW in Huntsville. Here they always find their favorite Chinese dishes prepared in the traditional manner.

Whether it's Sweet & Sour, Egg Foo Yung, or Fried Rice, the skilled chefs at this outstanding restaurant take great care to use only the finest ingredients and follow the original recipe closely. American food? This fine restaurant also features a complete menu of delicious meat, fowl and seafood dishes cooked to perfection. There's something for every member of the family at this fine establishment.

Drop by for some great Chinese or American food anytime. If you would rather eat at home, just call 837-6181 and your order will be packaged to take out. Either way, there's some great eating in store for you at the GOLDEN DRAGON RESTAURANT. The writers of this 1984 HUNTSVILLE BUSINESS REVIEW are pleased to be able to recommend this fine restaurant.

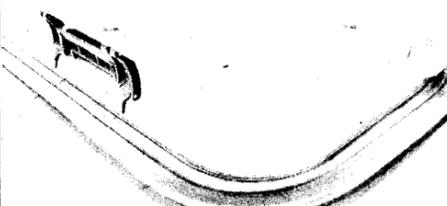
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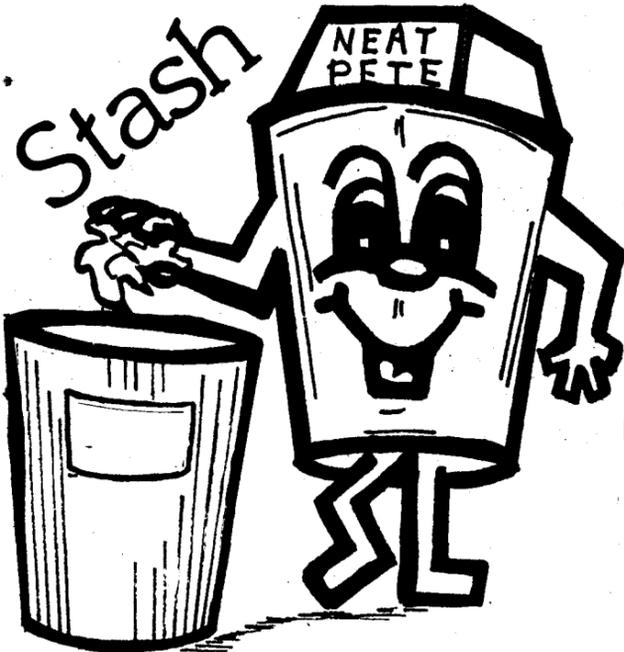
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**EXTRA VALUE USED CARS**

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Economical 6 cylinder, 3 speed. Has am/fm 100.....\$6195

**1981 VW RABBIT**  
Air cond., am/fm, 4 speed. Stock #101-Call before you come in—This car stays on the road.....\$5500

**1980 CHEVY CAMARO**  
Fully equipped. Berlinetta with only 59,000 miles. Car looks real good.....\$5500

**1980 DIESEL RABBIT**  
Top economy in this 4 speed, 2 door. Air, am/fm. High mileage but priced to compensate.....\$3800

**1979 PLYMOUTH HORIZON**  
4 door, 4 speed, 4 cylinder, am/fm, air. This is a good economical car.....\$2825

**1979 MUSTANG**  
Auto., air, am/fm, 4 cylinder for top economy.....\$3700

**1982 MAZDA RX7**  
Just what you would expect—An RX7 and priced at only.....\$9575

**1978 T-BIRD**.....\$3295

**1977 VW VAN**.....\$2695

**1980 TR7 Convertible**.....\$6200

**1977 CONTINENTAL**.....\$5275

**1979 VW CAMPER**.....\$6900

**1977 PONTIAC GRAN PRIX**.....\$2850

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A true work of art that should increase in value every year. I have a very limited number of these busts and they will be sold on a first-come basis, with a limit of 4 per individual.

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# Missile Systems scores upset, F&A leads league

Missile Systems fired the barrage that shook the CWF basketball league by knocking off previously unbeaten P&P #2, 79-72, in a stunning upset last week.

Balanced scoring and a sticky defense turned the tide for Missile Systems as the Blazers got 20 points each from Autro Whitman and Glenn Gurley while Larry Cable and Adrian Abrams chipped in with 12 each.

Willie Epps, the league leading scorer, got 27 for P&P #2, but was far below his average. Epps got sup-

port from Terry Whitman with 20 and Calvin Boone 16.

Meanwhile, F&A stopped Green Machine, 64-56, to run its record to 5-0 and take sole possession of first place.

James Battle let F&A with 16 points while Charles English had 14 and Robert McDonald 12. Dave Smith had 14 for Green Machine and Buphus Nall 13.

Elsewhere, Corps of Engineers nipped Security, 57-51; T&E rolled past Missile Labs 54-33; and Comp-

troller downed Structures, 73-40.

Steve Hide sparked COE with 28 points with help from Weldon Ragland with 13. Leon Williams had 12 and James Nesmith 11 for Security.

Mike Hubbard with 18 and Steve Lord with 14 were high for T&E while Dave Magnum had 12 for Missile Labs.

Larry Gopher had 22 for Comptroller while Roger Berry had 17 and Robert Nichols 15. George Snyder had 15 for Structures.

## Army nominates 29 astronauts

WASHINGTON—The Army's response to NASA's recent call for aspiring astronauts resulted in 29 officer nominations.

After NASA's 1983 solicitation—the first one since 1979—150 Army personnel applied through channels in hopes of winning the Army's nomination to become astronaut candidates. A review board selected the 29 officers as "best qualified to represent the Army in the selection process." The nominations include two reservists and one woman.

There is no guarantee, however, that any of them will fill the 12 new astronaut openings for 1984. Officials say NASA has received more than 3,500 applications already.

The Army nominees represent an array of

scholastic, scientific, and military talent:

—Sixteen of the nominees hold doctorates; four hold multiple master's unrelated to their doctorates.

—Their academic disciplines range from aeronautical and aerospace engineering to microbiology and biophysics.

—Eleven are physicists.

—Thirteen are graduates of the U.S. Military Academy.

—Five are graduates of the naval test pilot school.

—Six are experienced combat pilots.

The Army currently has two officers in the astronaut program. One of them, Lt. Col. Robert L. Stewart, 41, is scheduled to liftoff on Jan. 29 with the space shuttle "Challenger". (Arnews)

### CWF Standings

Team	Record
1. F&A	5-0
2. Comptroller	5-1
3. P&P #2	4-1
4. Security	4-2
5. Green Machine	4-2
6. Missile Systems	4-3
7. COE	4-3
8. Structures	2-3
9. T&E	2-4
10. Missile Labs	1-3

### Top 10 Scorers

Name	Team	Avg.
1. Willie Epps	P&P #2	36.9
2. Terry Whitman	P&P #2	18.9
3. George Snyder	Structures	17.8
4. Larry Gopher	Comptroller	17.7
5. Steve Hide	COE	17.1
6. Leon Williams	Security	16.4
7. Dave Smith	Green Machine	16.3
8. James Battle	F&A	15.9
9. Buphus Nall	Green Machine	15
10. Larry Cable	Missile Systems	14.8

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# GO PLACES

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For the experienced HAWK Missile Systems Expert with a sense of ambition and adventure, there's a world of new challenges and experiences waiting to be met. Raytheon Middle East Systems Company can take you to that world.

As an international subsidiary of Raytheon, a Fortune 100 Company, Raytheon Middle East Systems Company offers you unparalleled opportunities to enhance your career in existing state-of-the-art air defense programs in Jeddah, Saudi Arabia. Join our team and experience the adventure of the world overseas.

Openings currently exist in our Saudi Arabian Program for the following HAWK Missile Systems Personnel.

### Modification Technicians

We have several single-status openings for personnel with a minimum of 6 months experience in wiring and soldering. Must have current certification in soldering and wire wrap and the ability to use DAMWO manuscripts, schematic drawings and wiring diagrams.

### Instructors - HAWK Systems Major Items

The qualified candidates will have a minimum of 4 years technical experience pertaining to the specific major items. Candidates must have at least 2 years of formal instructional experience.

### Site System Technicians

Opportunities exist for individuals who can supervise technical personnel on the operation and maintenance of a HAWK Missile System Site. Requirements are an Associates Degree in Engineering, or equivalent experience, and a minimum of 4 years experience with each major item of the HAWK Missile System.

### System Support Technicians

Requirements are an Associates Degree in Engineering, or equivalent experience, and a minimum of 4 years experience in direct support or general support maintenance with the HAWK System.

### LOCAL INTERVIEWS

Raytheon will be conducting local interviews next week. For full details, see our ad in Sunday's Huntsville Times.

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Cold Watermelon Chunks  
Russian River Mushroom/  
Sour Cream

### SOUP

She Crab Soup • Fresh Gumbo  
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Carb and Mushroom Soup

### COLD FOODS

Cold Boiled Shrimp  
Crab Claws • Oysters

### HOT FOODS

Fried Shrimp • Fried Oysters  
Broiled Flounder • Fried Catfish  
Seafood Newburg

### VEGETABLES

Slaw • Rice • French Fries  
Corn on the Cob

### DESSERT

Assorted Fruit Tarts

### BREADS

Assorted Dinner Rolls  
Hushpuppies

# Wildcats picked to rebound from loss

BY SKIP VAUGHN

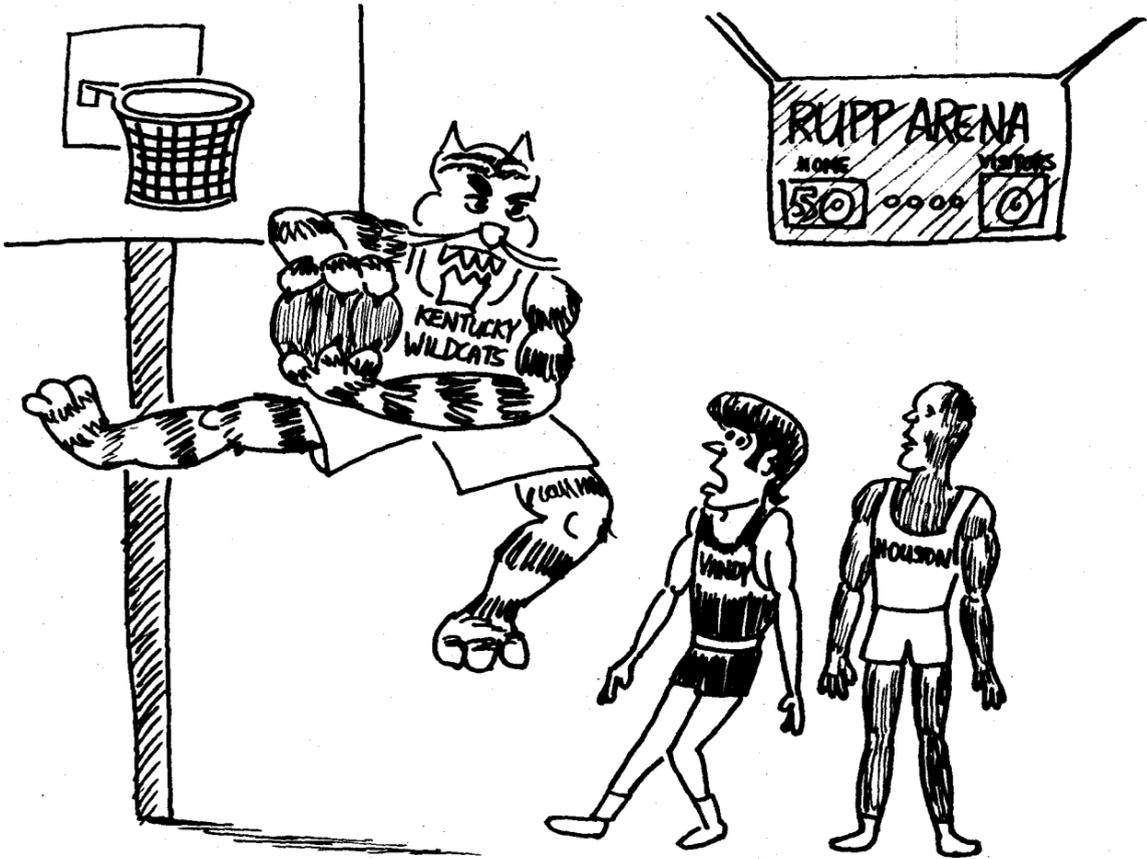
The Kentucky Wildcats will try to bounce back after being upset at Auburn last week.

Coach Joe B. Hall's team has the talent to do just that, especially at home in Rupp Arena. It won't be easy however. After Vanderbilt comes to town, the Cats have to take on Houston.

North Carolina showed it has the ability to go undefeated after whipping both Maryland and Wake Forest on the road last week. This week the Tar Heels take on Virginia before traveling to Duke.

Skip's Picks last week resulted in a 17-11 record, bringing the overall marks to 40-20. Here are the picks for major college basketball through the weekend.

- Virginia at North Carolina (Jan. 18)—NC
- Cincinnati at Louisville (Jan. 18)—Louisville
- Arkansas at Texas (Jan. 18)—Arkansas
- Ohio State at Michigan (Jan. 18)—Michigan
- Memphis State at South Carolina (Jan. 18)—State
- Fairfield at Army (Jan. 18)—Army
- Va. Commonwealth at Alabama—B'ham (Jan. 19)—UAB
- Oregon at Washington (Jan. 19)—Wash.
- Vanderbilt at Kentucky (Jan. 20)—Ky.
- North Carolina at Duke (Jan. 21)—NC
- Fresno State at Nevada-Las Vegas (Jan. 21)—UNLV
- Georgetown at St. John's (Jan. 21)—Georgetown
- Purdue at Illinois (Jan. 21)—Purdue
- Alabama at Louisiana State (Jan. 21)—LSU
- Florida at Tennessee (Jan. 21)—Tenn.
- Miss State at Ole Miss (Jan. 21)—Ole Miss
- DePaul at South Florida (Jan. 21)—DePaul
- Virginia at Clemson (Jan. 21)—Virginia
- Boston College at Syracuse (Jan. 21)—BC
- Indiana at Michigan (Jan. 21)—Ind.
- Southern Miss at Virginia Tech (Jan. 21)—VPI
- Wake Forest at NC State (Jan. 21)—NC State
- Auburn at Georgia (Jan. 22)—Auburn
- Houston at Kentucky (Jan. 22)—Kentucky
- UCLA at Louisville (Jan. 22)—Louisville



## Some services limited at Dental Activity here

Redstone's Dental Activity serves the Army community here as a tenant organization under the Health Services Command.

Certain dental services are available to authorized active duty and retired service members. Active duty family members living within a 30-mile radius of Redstone can also receive dental care, but only on a space available basis.

Family members of retired personnel can only be provided emergency treatment and then only if they live within the 30-mile radius, say dental activity officials. The 30-mile radius restriction for family members is required by public law.

Active duty family members and retired members can receive examinations, x-rays, cleanings, fillings and oral surgery. The type and amount of care available here in some specialty fields, such as orthodontics and crowns and bridges, is generally limited.

Patients with questions about their treatment can contact either Maj. James Putnam, chief of the dental clinic at Fox Army Community Hospital at 876-6860 or Lt. Col. William Krantz, chief of the main dental clinic at 876-7474.

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Openings also exist for RF Systems Engineers, Manufacturing Engineers, Senior Contract Administrators, Systems Engineers (EU/IT), Instrumentation Test Engineers, Field Engineers (Navigation or Avionics), Program Managers (Telecommunications) and Marketing Managers (Avionics or Digital Systems).

In addition to technical challenges and a desirable lifestyle, Tracor offers competitive salaries and an excellent benefits package. But the best way to find out everything you want to know is to call Tracor, collect, at (512) 929-2100 and arrange your personal interview. Or, you can send your resume to us at Tracor, Inc., Department HRT, 6500 Tracor Lane, Austin, Texas 78721. Either way, it'll be the easiest career move you've ever made.

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 KIT CONTAINS: 48 sq. in. Bandage Wrap, Wrap Tie, Metal Heat Shield

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# HHC wins annual card scene contest

Headquarters and Headquarters Company won first place in the annual Christmas card scene competition held over the holidays at the Post Chapel.

The 11 entries were the most ever, according to Chaplain (Capt.) Cecil Ryland, assistant staff chaplain. Judging was done by three civilian ministers.

Second place went to 6th Student Company and third to B Company. The top three received plaques and the other participants received honorable mention

plaques. Entries consisted of Christmas scenes painted on large plywood boards that were displayed on the lawn of the Post Chapel during the holidays.

"PFC Malcolm Johnson got the idea and painted the Christmas card," said 1st Lt. Robert Krefting, executive officer at HHC MICOM. "It had a soldier praying, with the caption 'Peace on earth...good will toward men.'"

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## REDSTONE FEDERAL CREDIT UNION

### Statement of Financial Condition for Quarter Ending December 31, 1983

**Assets**

Loans .....	\$128,001,124
Allowance for Loan Losses ..	(156,785)
Cash & Receivables .....	5,185,179
Investments .....	36,106,467
Accrued Income .....	1,649,567
Prepaid & Deferred .....	86,764
Fixed Assets .....	4,764,047
Other Assets .....	52,177
<b>TOTAL ASSETS .....</b>	<b>\$175,688,540</b>

**Liability & Equity**

Accounts Payable .....	\$ 193,858
Dividends Payable* .....	3,135,697
Accrued & Deferred .....	170,195
Other Liabilities .....	(6,784)
Shares .....	96,991,372
Shares Certificates .....	68,047,507
Reserves .....	7,156,695
<b>TOTAL LIABILITIES &amp; EQUITY .....</b>	<b>\$175,688,540</b>

**Operating Income**

Loans .....	\$4,466,087
Investments .....	833,763
Other Operating Income .....	214,427
<b>TOTAL OPERATING INCOME .....</b>	<b>\$5,514,277</b>

**Expenses**

Operating Expense .....	\$1,103,437
Members' Benefits .....	196,427
Return to Members .....	\$3,329,486
<b>TOTAL EXPENSES .....</b>	<b>\$4,629,350</b>

Income From Operations .....

Non-Operating Gains .....

**NET INCOME .....**

\*A dividend of 7.25% annual percentage rate for the fourth quarter 1983 was payable January 1, 1984.

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- Mr. Richard J. Allen ..... First Vice Chairman
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**Office and Hours**

OFFICE	BUSINESS HOURS	OFFICE	BUSINESS HOURS
<b>MAIN OFFICE</b> 220 Wynn Drive Huntsville, Alabama 35814-5347 Telephone 837-6110	Monday-Friday 9:00 a.m. - 5:00 p.m.	<b>REDSTONE ARSENAL BRANCH OFFICE</b> Redstone Arsenal Shopping Center Redstone Arsenal Telephone 881-0534	Monday-Friday 9:00 a.m. - 5:00 p.m. Saturday 10:00 a.m. - 2:00 p.m.
<b>PARKWAY CITY MALL BRANCH OFFICE</b> Parkway City Mall South Memorial Parkway Telephone 539-0758	Monday-Friday 10:00 a.m. - 8:00 p.m. Saturday 9:00 a.m. - 5:00 p.m.	<b>SCOTTSBORO BRANCH OFFICE</b> John T. Reed Parkway (Highway 72 Bypass) Scottsboro, Alabama 35768 Scottsboro Telephone 259-0138 Bridgeport Telephone 495-3395	Monday-Friday 10:00 a.m. - 6:00 p.m.
<b>THE MALL BRANCH OFFICE</b> The Mall, North Memorial Parkway Telephone 539-4168	Monday-Friday 10:00 a.m. - 6:00 p.m. Saturday 9:00 a.m. - 5:00 p.m.	<b>HAYSLAND SQUARE BRANCH OFFICE</b> Haysland Square Shopping Center Telephone 881-6200	Monday-Friday 10:00 a.m. - 6:00 p.m. Saturdays 9:00 a.m. - 5:00 p.m.
<b>BUILDING 4200 BRANCH OFFICE</b> Marshall Space Flight Center Telephone 881-7724	Monday-Friday 9:00 a.m. - 4:30 p.m.	<b>MAIN OFFICE DRIVE-IN TELLER</b>	Monday-Friday 9:00 a.m. - 6:00 p.m.



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## HUMOR IN UNIFORM

IN THE MID-1950s my father completed a tour of duty at Elmendorf Air Force Base in Anchorage, Alaska. We were stationed with him and returned to Seattle aboard the troopship *USS Funston*. As troop commander, Dad was charged with conducting daily inspections of the men's quarters, galley and mess hall. My four-year-old brother, Stuart, tagged along one day. As usual, the galley gleamed, the floors were spotless, and the mess-hall tables and condiment containers were aligned with military precision. My father was about to pass the inspection when Stuart piped up, "Daddy, look at all the gum under the table!" Dad bent down to the eye level of a small child, and was horrified to see years' worth of petrified chewing gum covering the bottoms of the tables.

The mess hall did not pass inspection until later that day—and the troops who scraped off all that gum could happily have thrown my little brother in the brig.

—MARGARET M. MILLER (Elizabethon, Tenn.)

I WAS ATTENDING a re-enactment of a Revolutionary War battle at the Genesee Country Museum in Mumfordsville, N.Y. On one side were the colorfully uniformed British with their Indian scouts; on the other, a brave but ragged band of Colonials. As the

battle raged, the earth shook and the air filled with smoke from the explosions of cannon, mortar and musket. Colonial forces were advancing in a line when the British and their scouts suddenly rallied and pushed them back.

Like most of the observers, I was caught up in the emotionally charged atmosphere. I was trying to focus my camera on a fearsome-looking Indian scout as he fired his musket and felled a Revolutionary. Next, the Indian carefully approached the fallen man, laid down his musket, ceremoniously hit the wounded soldier with his tomahawk and drew a scalping knife from his belt.

At this moment a spectator snapped me back to reality. "Forget the scalp," she yelled. "Get his MasterCard!"

—MICHAEL A. ARBUTHNOT (Montpelier, Ohio)

THE MORNING after I arrived at our Marine base in Da Nang, Vietnam, there was a rocket attack that sent everyone running for the closest bunker. At the entrance to the one I reached was a stenciled sign reading: "Capacity 23." Beneath it someone had scrawled: "In a pinch, 67."

—KENNETH BARNARD (Vicksburg, Miss.)

A FRIEND OF MINE and his partner had just survived a night of the

### HUMOR IN UNIFORM

Army's tough Ranger school atop a freezing Georgia mountain. Fatigued from little sleep and even less food, they waited on the outskirts of a small mountain town for a signal to continue their maneuvers in the area.

A young boy, who was bored with waiting at a nearby school-bus stop, ventured to the edge of the woods. Apparently he was accustomed to the Rangers because he showed little surprise when he suddenly came face to face with the two camouflaged soldiers. The boy simply reached inside his jacket and pulled out his lunch sack.



"You'll need this worse than me," he said matter-of-factly. Then he trudged back to his bus stop—leaving behind two grateful warriors.

—BETH PATE (Auburn, Ala.)

AS EXECUTIVE OFFICER at a defense supply center, I worked with an Air Force general's aide, a first lieutenant. One morning I overheard the lieutenant discussing an important project with a secretary. Each time he tried to explain what he wanted done, she would elaborate on all the problems preventing accomplishment. Clearly the lieutenant was losing both the battle and his patience. Finally he broke in on one of her monologues and said,

"Quit pontificating! Just do it!"

The secretary stopped talking in mid-sentence, looked sternly at him and replied, "I see no reason to bring religion into this, lieutenant."

—CAPT. ANDREW J. OGAN, USAF (Montgomery, Ala.)

AFTER 22 YEARS of military life that included drilling for countless hours and leading hundreds of parades as a first sergeant, I was nervously waiting to escort my daughter down the aisle to be married. As we stood listening for our cue to enter, she looked up at me reassuringly. "Remember, Dad," she said, "left foot first."

—BILLY R. FRAZIER (Benton, Ark.)

WHEN OUR SON was in Marine boot camp at Parris Island, S.C., we received this cryptic note from him: "Dear Mom and Dad—No time to write. Please send a few things I need—alarm clock, nail clippers, panty hose. It's cold down here. Love, Rob."

I agonized over what size panty hose a man six feet tall, with a 30-inch waist, would wear. What style? What color? Support? Sheer? Control top? Does 'One Size Fits All' really fit all? I decided on queen size, opaque, in sun-tan, with a reinforced toe. Hoping they would keep our handsome Marine warm, I mailed the package.

It wasn't until Rob came home for Christmas that the mystery was finally solved. "How did those panty hose work out?" was one of the first questions I asked.

"Thanks, Mom, they were great! They're the best thing for putting a super shine on my boots."

—LINDA W. CARLSON (New Milford, Conn.)

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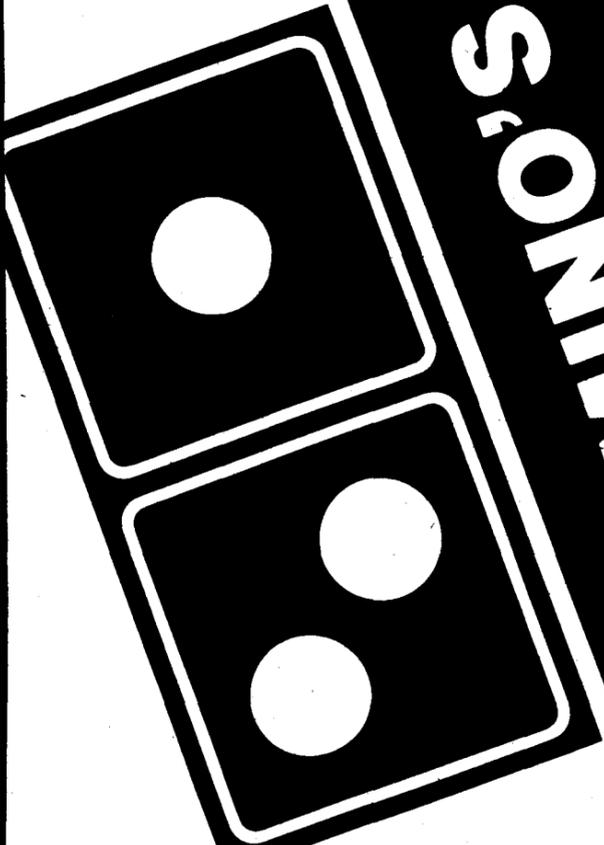
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Have you read—or heard—something interesting or amusing you would like to share? Although Reader's Digest does not read unsolicited article-length manuscripts, it welcomes contributions to *Humor in Uniform*, and payment is made, on publication, at these rates:

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Your name, address, telephone number and the mailing date should be on all items. Original contributions—which become the property of Reader's Digest upon acceptance and payment by Reader's Digest—should be typewritten. If from a published source, the item should include the publication's name, date and page number. Contributions cannot be acknowledged or returned. Address: **Humor in Uniform Editor, Reader's Digest, Pleasantville, N.Y. 10570.**



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# ANNOUNCEMENTS

## Infantry marathon

The First Annual Infantry Marathon and Half-Marathon will be held Jan. 28 at Fort Benning, Ga., site of the 1984 All-Army marathon team trials camp. The event is open to military and DA civilian personnel. Entry fee is \$8 (for entries postmarked before midnight Jan. 23) and \$9.50 for late registration. For more information call Capt. Robert Borja at (404) 544-7141/6461 or Autovon 784-7149/6461. His address is P.O. Box 1817, Fort Benning, Ga. 31905.

## Ballet performance

The Royal Winnipeg Ballet will perform Saturday, Jan. 28, at 8:15 p.m. in the concert hall of Von Braun Civic Center. The Canadian dance company will present a variety of classical and modern ballet dance pieces. Tickets are available at the civic center ticket office for \$6 to \$8 depending on location of seating. The performance is sponsored by Huntsville's Community Ballet Association during its 20th anniversary season. For more information call the association at 539-0961 after 3 p.m.

## Ground school

The Redstone Arsenal Flying Club will conduct an FAA approved private pilot ground school from Jan. 17 through March 22 on Tuesday and Thursday evenings from 6-8 p.m. for persons eligible for membership. Preregistration is required. For further information, contact the Flying Club at 881-3980 between 8:30 a.m. and 12:30 p.m.

## Government accountants

The North Alabama Chapter of the Association of Government Accountants will meet on Thursday Jan. 19, at Michael's Restaurant, Ramada Inn. Social hour will be at 5:30 p.m. with dinner and program to follow. Dr. Azalia S. Francis, a professor of education at UNA, will speak on "Communication: Content and Intent". For reservations call Debbie Rosenblum, 876-8385 or Tom Bair, 895-3192.

## Youth judo

The youth activities judo program has openings in its current sport judo and self-defense class. After initial exposure to sport aspects of judo, self-defense techniques using these basics are presented. The teaching method stresses patience, tenacity and self-discipline and is part of a rigorous physical training regimen. The class meets on Tuesday and Thursday from 5:30-6:30 p.m. in building 3197 just outside gate 8 and is open to family members of active and retired military. Registration is at building 3197 from 8 a.m.-4 p.m. There is a similar program for military personnel and other adults.

## Safe boating course

The Huntsville Power Squadron is conducting a 10 week safe boating course starting at 7 p.m. on Jan. 17 at Westlawn Community School. The course covers aids to navigation, regulations, charts of the area, handling characteristics of your boat and rules of the road. The course is free except for a small charge for the class manual. For more information call 883-2142 or 881-5535.

## Tennessee Valley Toastmasters

Come and learn how to be a better public speaker. Join the Tennessee Valley Toastmasters at their next meeting at Howard Johnson's, Thursday, Jan. 19 at 6:30 p.m.

## Military retirement workshop

A military retirement workshop for personnel retiring or going on terminal leave within the next three months will be held Jan. 23 at 2:30 p.m. in the building 3708 test control office. Presentations will be made that will affect benefits and rights after retirement for retirees and spouses and both are encouraged to attend. For more information call Frank Adair 876-2022.

## Warrant officers

The next monthly meeting of the Redstone Arsenal Chapter of the U.S. Army Warrant Officer Association will be Feb. 1 at 11 a.m. at the officer's club. You need not be a member to attend the luncheon and meeting. For more information call CWO Banville at 876-1461 or 876-1591.

## Vending machine refunds

Each vending machine operated by the post exchange has a decal attached giving a telephone number to call in case a machine is out of order or empty. Refunds on money lost are refunded by giving a name, building and room number, machine number and amount lost to the post exchange or get a refund at any direct operated exchange activity, main PX, snack bar, service station, or troop store.

## Christmas food baskets

The chaplains thank everyone who participated in the 1983 Christmas Food Basket program. Because of the generosity of the MICOM family 89 families had a brighter and happier Christmas.

## Recreation center

Today-Foosball tourney at 7 p.m. Thursday-Bingo at 8:30 p.m. Friday-UNO tourney at 7 p.m. Saturday-Domino tourney at 2:30 p.m. Sunday-Super Bowl party at 4 p.m. Tacos and more served. Monday-Video game tourney at 7 p.m. Tuesday-Pool tourney at 7 p.m.

## Patient medical education class

A Patient Medical Education Class will be conducted in the post theater on Saturday, Jan. 21 from 9-11:30 a.m. The class will include common winter health problems in small children and coronary heart disease risk factors and chest pains. Attendees will be issued a PMEC certificate that will authorize them to receive certain nonprescription drugs at the MEDDAC pharmacy without a doctor appointment.

## Closings

The following facilities will close on Jan. 25 for inventory: the Main Exchange, Shoppette, Troop Store, Military Clothing, and the Service Station retail store. The pump island will be open. The garden shop located in the main exchange will be closed Jan 24-25 and all concessions in the mall area will be open during normal hours.

## Insurance

The Redstone Benefit Association has extended their insurance enrollment campaign to Jan. 31. During the campaign enrollment information, insurance plans, and rate listings will be mailed directly to arsenal workers. For more information or assistance see Dot Brooks in building 7442, room 39 from 8:30 a.m.—12:30 p.m. daily.

## Carpool Hotline



Call 876-1500 to place your free carpool ad

## Florence

A ride wanted from Florence to 407 Governors Dr., hours 8 a.m.-5 p.m. Nell Shepherd 536-6621.

## Quality control society

The Huntsville section of the American Society for Quality Control will meet Thursday, Jan. 19 at 6 p.m. at the Elks Lodge on Franklin St. James E. Duarte of Reynolds Metals Co. will speak on computer graphics and statistics in quality control. Interested persons are invited. For reservations call Mac Chaney 882-4136 or John Allen 883-4320.

## Contract managers

The monthly meeting of the National Contract Management Association, Huntsville Chapter, will be held at the officers club on Thursday, Jan. 26 with social time at 11:30 a.m. Retired Lt. Gen. Harold F. Hardin will speak on "Procurement-The Integrity of the System." Interested persons are invited to attend. The cost is \$6 per person. For reservations call Tommie Connors 876-3250. Jim Reynolds 895-5631 or L.D. Moorman 895-3230.

## Flying club meeting

The Redstone Arsenal Flying Club will hold its mandatory quarterly safety and general membership meeting on Thursday evening, Jan. 26 at 9 p.m. in building 5250, room A-115.

## Laser courses

The MICOM Learning Resource Center is offering three courses in laser technology field. Basic Laser Theory I includes laser fundamentals and physics, properties of laser light and laser systems. Laser Technology II acquaints students with pulsed laser flashlamps and power supplies, power sources and optical pumping for CW lasers, CW solid lasers—efficiency and coding, and laser power and energy measurements. Laser Technology III is a fundamental course in laser technology emphasizing laser components. For more information call 876-1061/1416.

## Handicapped support groups

H.E.R.O., is a fellowship of the Handicapped Engaged in Reflecting the Omnipotent, is a Christ-centered, interdenominational, spiritual support group of the handicapped. Fellowship meetings are held the third Saturday of each month, the next one being Jan. 21, from 11 a.m. to 2 p.m. at St. Stephen's Episcopal Church on south Whitesburg Drive. For transportation assistance call Martha at 830-5331; for more information call Lois at 876-8391, days or 882-0909, evenings.

## Hazel Toftoy memorial held

A memorial service for Hazel Toftoy, widow of Maj. Gen. Holger N. Toftoy, former commander of Redstone Arsenal was held in Huntsville Jan. 14.

She died Jan. 12. She was 79.

She is survived by a daughter, Doris Williams of Huntsville, a son, Charles M. Toftoy of Washington, D.C. and four grandchildren.

The family suggested contributions to the American Heart Association in lieu of flowers.

Maj. Gen. Toftoy convinced senior Army officials to centralize missile and rocket work at Redstone in 1949 and commanded the arsenal from 1952 through 1958.

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## 'All volunteer' no longer used

The term "all volunteer" in reference to the U.S. armed forces is no longer in use by the Defense Department or any of the individual military services including the Army.

The term in use since the early 1970s was jettisoned Nov. 3 by Secretary of Defense Caspar Weinberger who said, "From today it will not be the policy of the Department of Defense to speak about our military as the all volunteer armed forces...our men and women in uniform are simply the armed forces."

"The intent of the policy," amplified Assistant Secretary of Defense Lawrence J. Korb in a recent memorandum, "is to emphasize that after 10 years the all volunteer force as a concept is sound and the experiment is over. The term all volunteer is no longer

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**DATES:** MW sessions Feb. 29-Apr. 30; TT sessions Mar. 1-May 1; Sat. sessions Mar. 3-Apr. 28. Holiday Mar. 12-17.

**REGISTRATION:** Continuous through first session. **Reservations are required** (telephone 837-9726).

**FEES:** Full-term 300/600 level: \$225 tuition per course plus \$5 registration, or as noted. Application (one-time): \$5 special (non-degree); \$25 regular. Textbooks are additional.

**FINANCIAL ASSISTANCE:** Approved for tuition assistance from the Veterans Administration and most governmental and industrial organizations. Half-tuition scholarships are available from Southeastern for qualified attendees. **NOTE:** Government and most other training offices require receipt of assistance requests 30 days prior to course start.

**INFORMATION:** Telephone (205) 837-9726 or write P.O. Box 1485, Huntsville, AL 35807.

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**11-513 COMMUNICATION ELECTRONICS** MW 6:50-9:00 p.m.  
A study of solid-state radio-frequency electronic circuits used in transmitters and receivers. Background: knowledge of electrical and electronic circuits. Instructor: Vernon W. Ramsey, Ph.D.; Boeing Military Airplane Co.

**11-672 ADVANCED RADAR SYSTEMS II** MW 4:30-6:40 p.m.  
A detailed study of selected advanced topics in radar systems. Background: good knowledge of basic radar. Instructors: Stephen M. Gilbert, Ph.D.; Dynetics, Inc.; Larry D. Bennett, D.Sc.; U.S. Army Missile Command.

**14-571 ROCKET PROPULSION SYSTEMS** TT 4:30-6:40 p.m.  
An introduction to the theory and hardware of solid and liquid rocket propulsion systems. Background: basic knowledge of thermodynamics. Instructor: Robert R. Kruse, Ph.D.; Thiokol Huntsville Operations.

**17-309/509 PROGRAMMING LABORATORY** \*TT 6:50-9:00 p.m.  
Guided (309) or independent (509) hands-on practice using advanced personal computers. Choice of languages in 509. Credit 1.5 units; fee \$120. (\*) Primarily hours arranged. Background: knowledge of Fortran. Instructor: John L. Montgomery, B.S.M.E.; Dynetics, Inc.; Consultant.

**17-505 INTERMEDIATE FORTRAN** TT 4:30-6:40 p.m.  
A study of intermediate- and advanced-level topics in Fortran and programming techniques. Background: basic knowledge of Fortran. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

**17-513 PROGRAMMING LANGUAGES** Sat. 8:00-12:00 noon  
A study of the design, evaluation, and implementation of high-level programming languages. Background: knowledge of programming. Instructor: Robert R. Covelli, S.M.; System Development Corporation.

**17-544 COMPUTER SYSTEM ORGANIZATION** MW 4:30-6:40 p.m.  
An introduction to the organization and function of digital computer systems. Background: basic knowledge of programming. Instructor: J. B. White, Ph.D.; General Electric Company.

**17-633 EXPERT SYSTEMS** MW 4:30-6:40 p.m.  
An examination of the design, programming, and application of artificial intelligence expert systems. Background: knowledge of data structures. Instructor: Virginia P. Kobler, Ph.D.; U.S. Army BMD Systems Command.

**17-662 ADVANCED COMPUTER NETWORKS II** TT 4:30-6:40 p.m.  
A continued study of advanced concepts and techniques in computer communication networks. Background: basic knowledge of computer networks. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.

**17-672 SOFTWARE RELIABILITY** MW 6:50-9:00 p.m.  
A study of the reliability aspects of large-scale software production. Background: good knowledge of programming. Instructor: Bobby C. Hodges, M.S.E.; NASA Marshall Space Flight Center.

**21-623 STRATEGY AND IMPLEMENTATION** Sat. 8:00-12:00 noon  
A study of the role of strategic planning and its implementation in management. Background: studies or experience in management. Instructor: Richard H. Shuford, Jr., D.B.A.; Management Consultant.

**21-644 MOTIVATION AND PRODUCTIVITY** TT 6:50-9:00 p.m.  
A seminar on motivation in organizations and identification of production improvement techniques. Background: studies or experience in management. Instructor: Julian S. Kobler, J.D., D.Sc.; Management Consultant.

**24-552 CONTRACTS ADMINISTRATION** MW 4:30-6:40 p.m.  
An introduction to contracts administration, emphasizing contracting by and with the Federal government. No particular background required. Instructor: Eugene R. Andrzejewski, M.B.A.; Teledyne Brown Engineering.

**24-615 ECONOMIC AND LEGAL FACTORS** TT 4:30-6:40 p.m.  
A study of the economic and legal environment affecting business and government organizations. Background: basic knowledge of economics. Instructor: Orba F. Traylor, Ph.D., J.D.; Consultant.

**27-661 TECHNOLOGY FORECASTING** TT 4:30-6:40 p.m.  
A study of methods and applications in forecasting technological advances. Background: studies or experience in technical management. Instructor: William O. Davies, D.Sc.; U.S. Army BMD Systems Command.

**31-303 ELEMENTS OF CALCULUS** Sat. 8:00-12:00 noon  
A concentrated introduction to basic calculus and its applications. Background: basic knowledge of algebra and trigonometry. Instructor: To be announced.

**31-541 ADVANCED ANALYSIS TECHNIQUES I** TT 6:50-9:00 p.m.  
A study of differential equations and operational mathematics used in engineering and physics. Background: knowledge of calculus. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Inst. of Tech.; Consultant.

**31-617 APPLIED STOCHASTIC PROCESSES** MW 4:30-6:40 p.m.  
An intensive study of stochastic processes, emphasizing information applications. Background: knowledge of probability and random variables. Instructor: Mervin C. Budge, Ph.D.; Dynetics, Inc.

**34-637 OPTICAL PROPAGATION** MW 6:50-9:00 p.m.  
An intensive examination of optical wave propagation in the atmosphere. Background: knowledge of physical optics and mathematical techniques. Instructor: Charles L. Wyman, Ph.D.; NASA Marshall Space Flight Center.

### SHORT-TERM COURSES

**24-591 ACCOUNTING FOR TECHNICAL PERSONNEL**  
March 19-23 (M-F); 8:00-12:00 noon  
An overview of accounting procedures and reports for monitoring and controlling cost behavior in engineering activities. Lecturer: Richard H. Shuford, Jr., D.B.A.; Management Consultant. Fee: \$350.

**31-591 QUANTITATIVE METHODS FOR MANAGERS**  
April 9-13 (M-F); 8:00-12:00 noon  
A review of basic mathematics and an overview of statistics and operations research techniques for managerial decision-making. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Inst. of Tech.; Consultant. Fee: \$350.

\*\*\*\*\*

### OFFERINGS IN COMPUTERS AND SOFTWARE

Responding to the extensive computer-related activities in Huntsville, Southeastern has developed an outstanding program of offerings in computers and software systems. Courses are available that can serve needs ranging from literacy to the most advanced professional level.

There are entry-level courses primarily for persons holding degrees and desiring a basic knowledge of programming. Several of the beginning and intermediate courses can be used to earn a certificate in programming for career redirection or entry into a graduate program. At the master's level, SIT offers professional degrees in applications programming, software systems, and computer systems. At the most advanced level, doctoral programs are available emphasizing both hardware and software.

Languages available include Fortran, Cobol, Pascal, Ada, and Assembly. Support courses involve Data Structures, Operating Systems (including CP/M and Unix), and Compilers. Advanced applications included Simulation, Database Systems, and Artificial Intelligence. Software engineering courses are given in Advanced Development, Reliability, Verification, and Cost Analysis. Hardware-oriented courses include Computer Organization, Microprocessors, Architecture, Telecommunications, Networks, and Distributed Systems.

### M.B.A. PROGRAM NOW AVAILABLE

Southeastern now has a program leading to the Master of Business Administration (M.B.A.) degree. In this program, the term "business" means much more than the traditional areas of commerce and industry; the core courses are also applicable in government agencies and nonprofit institutions. Thus, unlike many M.B.A. programs, this curriculum is well-suited for persons in all types of organizations. Available elective clusters include Contract Management, Human Systems, Technical Management, Software Systems, and Management Sciences.

With the accelerated schedules of Southeastern, the program can easily be completed in 12 to 24 months while continuing with regular employment. Courses will be offered on Saturday mornings as well as in the evening schedule. Of the 36 units total requirements, at least 21 units must be earned through Southeastern.

### AN INDEPENDENT PROFESSIONAL SCHOOL

Southeastern Institute of Technology is an independent, nonprofit institution of higher education, providing continuing education and professional degree programs for mature, working adults. Fully approved by the Alabama Department of Education, Southeastern offers programs leading to the following degrees:

- Master of Science
- Master of Science in Engineering
- Master of Science in Management
- Master of Business Administration
- Doctor of Science
- Doctor of Engineering
- Doctor of Management

For persons with two or more years of college work or the equivalent, degree-completion programs are available for the following undergraduate degrees: Bachelor of Science, Bachelor of Engineering Science, and Bachelor of Administrative Science. Certificate programs at all levels are also available, including the Basic Certificate in Programming and the Certificate in Basic Engineering. These latter are very popular as career-redirection preparation for persons holding nontechnical degrees.

Southeastern's central facilities are located at 200 Sparkman Drive, Cummings Research Park. The mailing address is P.O. Box 1485, Huntsville, AL 35807. For additional information, telephone

**(205) 837-9726**

Southeastern Institute of Technology admits attendees of any age, sex, race, color, or national and ethnic origin.