

# Redstone Rocket

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## Fighting forces equipped with MICOM missile systems

Patriot has received most of the media attention so far, but there are many other Army missile systems deployed with U.S. forces fighting the war in the Persian Gulf.

These systems are managed here by the Missile Command.

Air defense missiles include Stinger, Chaparral, Hawk and Patriot. Anti-armor missiles include the Dragon, TOW, Hellfire and Shillelagh.

Artillery missiles include the Hydra 70, Multiple Launch Rocket System (MLRS) and the Army Tactical Missile System (ATACMS).

**Patriot** is the Army's surface-to-air weapon system for both battlefield and air defense against high performance aircraft. It is a highly mobile weapon system that can simultaneously acquire, identify, track and destroy multiple air-supported targets. The newest version, currently protecting the skies of Saudi Arabia and Israel, is the PAC-2 which stands for Patriot Antimissile Capability second phase. This version has a new fuze and warhead designed specifically to defeat tactical missiles.

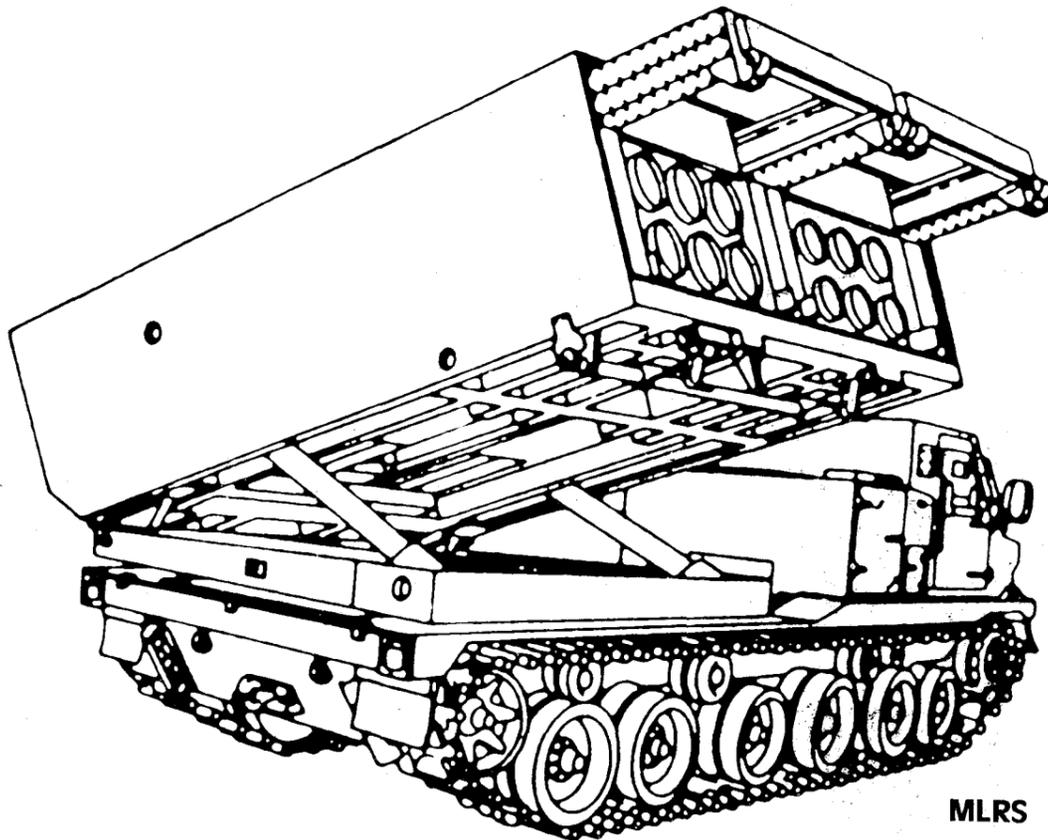
**Stinger** was first deployed in Europe in 1981. The 35-pound unit is designed to be fired from the shoulder by front line soldiers. Because it contains the latest infrared technology, the missile may be used against everything from helicopters to high speed, low level jet aircraft.

**Chaparral** is an infrared heat-seeking missile system mounted on a tracked vehicle. It is a low-altitude, forward area air defense weapon system. The missile automatically homes on the target's heat source.

**Hawk** is a surface-to-air missile designed to defend against low-flying enemy aircraft. It uses an advanced continuous wave radar homing guidance system to discriminate against ground clutter and features an illuminator radar that "lights" the target with a beam of radar waves. The missile tracks its target by following radar energy reflected by the target. Hawk is also given added mobility by mounting it on a self-propelled vehicle.

**Dragon** is a medium anti-tank/assault weapon system developed for the Army infantryman. It is the Army's first guided missile system light enough to be carried and fired by one man, yet having a warhead big enough to destroy most tanks and reinforced battlefield targets.

**TOW**, the Army's heavy-assault wire-guided



MLRS

missile, was developed to provide a major increase in firepower for infantry units. It is a "point fire" weapon for use against tanks, concrete fortifications, bunkers and other hardened targets.

**Hellfire**, an anti-armor weapon that is guided by a laser seeker, is the main armament of the Army's Apache Attack Helicopter.

**Shillelagh**, no longer in production, is used only by the 82nd Airborne Division in its light Sheridan tanks.

**Hydra 70** is an unguided rocket fired in clusters by Army helicopters. It can be armed with one of several warheads including high explosive, smoke screen, illumination and anti-personnel.

**MLRS**, the Multiple Launch Rocket System, is a rugged and reliable artillery rocket system that can be emplaced quickly and deliver a high volume of fire. The system is mounted on a highly mobile, full-tracked vehicle that carries 12 rockets which can be fired singly or in rapid ripples.

**ATACMS**, the Army Tactical Missile System, is the Army's newest artillery missile. About 13 feet long and two feet in diameter, it is designed to be launched from the existing MLRS vehicles. Inside its shroud are 940 fist-sized high explosive bomblets to be strewn over enemy formations more than 100 miles behind the front lines.

## Support group proves valuable for 95th's families

BY SKIP VAUGHN

As the crisis in the Persian Gulf evolved into war, family support groups serve an increasingly important role.



THE KOLASINSKI FAMILY — Margaret holds 3-month-old Katy while James encourages Thumper, the family pet, to sit still.

Families of deployed 95th Maintenance Company (TMDE) soldiers meet regularly at the home of the company commander and his wife. Besides this support group, many of these families are also active in the postwide family support group.

"We try to meet once a month. Recently, we've been meeting more often. But we try to visit or phone call each of the wives once a week just to check on them, see how they're doing," said Margaret Kolasinski.

(See Support, cont'd on page 2)

### Phone numbers to call for Desert Storm info

Family members of military and Defense Department civilian personnel deployed for Operation Desert Storm can receive information and assistance by calling the following:

- Army Missile Command, Emergency Operations Center, 876-4105.

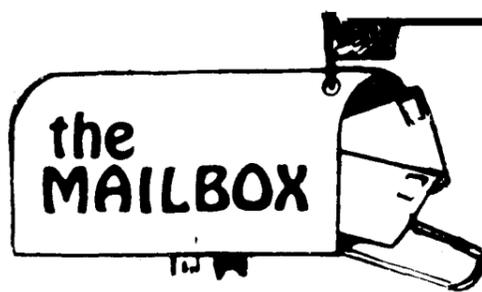
If you know the organization or Reserve Component affiliation of your sponsor (deployed husband/wife), you can receive information and assistance at the following numbers:

- OMMCS Hotline, 876-2662/7381.
- TMDE Support Group, 876-9171 or 851-6481 (after hours).
- Army Reserve: 535-6218/6215.
- Army National Guard — Call your designated Family Assistance Center first, if known, or the Alabama State Assistance Hotline 1-800-392-1947.

- All other — call the MICOM EOC number above.

If you are unable to contact or receive assistance at your organization, you can call the MICOM EOC. The emergency operations center is operating on a 24-hour-day basis, seven days a week, and can ensure your request is directed to the appropriate agency for assistance.

Defense agencies provided the following phone numbers for family members to call for information on Operation Desert Storm: Army 1-800-626-1440 (note this is a corrected phone number provided by Army Materiel Command public affairs office; an incorrect number had been provided earlier and was published in the *Rocket* last week); Air Force 1-800-253-9276; Navy 1-800-255-3808 (immediate family) or 1-800-732-1206 (general); Marines 1-800-523-2694; and Coast Guard 1-800-283-8724.



## Right of dissent

### Editor:

I just cannot understand why it should shock and dismay so many people to witness the peace marches and demonstrations of dissent being displayed across their television screens since the beginning of the Persian Gulf War.

Those of us that have not yet reached the age of total senility can still remember the peace rallies and slogans "Let's not get involved" reported over the nightly radio news broadcasts; all the while a maniac ran rampant and marched millions of men, women and innocent little children into his death chambers in Europe.

Some of us even remember the anti-war rhetoric being vocalized only a few days after the vicious attack on Pearl Harbor, while the battleship Arizona still burned. And yes, if my memory does not fail me, there was even a Congressman that voted NO to a Declaration of War request made by President Roosevelt.

As Americans, under the grace of God and our Constitution, we all have the right to dissent and express our concerns when we feel that something has gone amiss within our social structure; but please, don't use this right of dissent as a shovel to bury your head in the sand and ignore what is happening all around you.

It terrifies me to think what this world would be like today if the vocal dissent in the early 1940s had persevered and Adolf Hitler had been allowed to develop the first nuclear weapon. What would this country be today if we had decided not to go to war after that hideous day of Dec. 7, 1941.

You say the Gulf situation is different as this country is not being attacked. Well, from past history I view this philosophy as just being an increment of time. This is not a fight over oil or who controls the price of gas at the local service station. I see Saddam Hussein as another maniac turned loose upon the world. He has already demonstrated his contempt for mankind by gassing thousands of his own people just because they expressed disagreement with the way he runs their government. If Hussein had not been challenged but allowed to continue with his illusions of grandeur, a day would dawn to find the world being ransomed or suffer a nuclear holocaust. To stop this maniac now will cost some brave American lives but if

we wait for the inevitable the cost will likely be a hundred million American lives.

To those exercising their right of dissent, thank God as you march before the world that the president of your country is named Bush and not Hussein; for if that be our lot you would not be marching to an anti-war demonstration but to a common grave.

**Bob Masson**  
Missile Logistics Center  
PM Support

## Sign your letter

Letters will not be considered for publication in the *Redstone Rocket* unless they are signed and contain an address or phone number for the writer. Names are withheld on request but unsigned letters will not be used. Send letters to: *Redstone Rocket*, AMSMI-IN.

## Alabama soldier dies in Saudi

The Army has notified a Courtland family that their son, Sgt. Baldwin Satchel, 31, died Jan. 22 of a heart attack in Saudi Arabia while deployed with the Army in support of Operation Desert Storm.

Satchel was deployed to the Middle East from his

unit in Germany, the 229th Combat Support Company, Supply and Service Detachment, 7th Corps.

His parents, William and Mary Satchel, were notified in person on Jan. 22 at about 10 p.m. by the Army.

## Limit personal mail to troops in Saudi

The Army requests that personal mail sent to deployed servicemembers be limited to letters and audio cassettes in order to reduce the amount of items that must be transported.

Voluntary mail limitations for Operation Desert Storm are the subject of an Armywide message to installation postal officers, public affairs offices and family support groups.

"With the commencement of offensive operations there is an associated increase in the movement of combat and combat service support units within the area of operations. The task of supporting units on the move is a logistics challenge and every effort must be made to limit transportation support to what is necessary for sustainment. Actions are being taken to

reduce the amount of personal articles that must be transported," the message states.

"The commander-in-chief, U.S. Central Command requests that families and friends of Desert Storm deployed servicemembers voluntarily limit personal mail to first class letter mail and audio cassettes. This action is being taken to minimize the difficulty for our troops on the move to secure and transport personal articles and to reduce the possibility of items being lost, damaged or delayed.

"Due to current Desert Storm tempo of operations, we anticipate this mail restriction request to be necessary for the next 2-3 weeks. We will advise as the situation changes," the message concludes.

## Ordnance association contributes to AER funds

ABERDEEN PROVING GROUND, Md. — The Army Emergency Relief funds at Aberdeen Proving Ground and Redstone Arsenal are each \$500 richer, thanks to the U.S. Army Ordnance Corps Association.

During a presentation at the Ordnance Museum, Col. Dwight E. Hair, executive director of the association, presented two \$500 checks to support AER at the two installations.

Taking part in the ceremony were Mary Kaminis, AER officer at Aberdeen Proving Ground; Col. Douglas Baker, Ordnance Missile and Munitions Center and School, Redstone Arsenal; Carol Parkinson, manager of the Ordnance Association Gift Shop; and Paul Blackburn, association treasurer.

The money was raised through gift shop sales. In addition to providing monetary support for the Ordnance Museum, the gift shop proceeds are also used to provide scholarships and to restock the gift shop.

The association provides three annual scholarships. Applications will be accepted throughout the year, with selections being made in the spring. For more information about the scholarships and application procedures, write to: The Ordnance Corps Association, Post Office Box 377, Aberdeen Proving Ground, Md. 21005-0377.

The association will be holding its Executive Council Meeting from 11:30 a.m. to 3 p.m. March 22 at the Aberdeen Proving Ground Officers Club.

## Support

(Cont'd from page 1)

ski, coordinator of the 95th Family Support Group.

She and her husband, Capt. James Kolasinski, the company commander, formed the support group in late August after the unit was informed that some of its members would be deployed to Saudi Arabia. The company's mission is to calibrate and repair the Army's Test Measurement and Diagnostic Equipment. This includes supporting all the calibration and repair work for 11 Forces Command units throughout the U.S., the 6th Infantry Division in Alaska and the cold region test center in Alaska. More than 60 members of the 95th have been deployed so far; this includes 14 from Redstone and the remainder from Fort Stewart, Ga., Fort Bragg, N.C., Fort Riley, Kan., Fort Hood, Texas, and Fort Campbell, Ky.

The support group enables families of deployed soldiers to meet together to express their feelings and serves as a source of information. Besides the meetings, phone calls and visits, the group puts together a newsletter of information about post activities and other topics of interest to the families.

"We have approximately 15 families. We have 30 people here sometimes," Margaret said. The meetings are informal. The wives of the deployed soldiers meet together while the children, watched by volunteers from the unit, play elsewhere in the house or outside. The wives receive any information available from

sources such as Army Community Service, the postwide support group and unclassified Army messages. "And we have them bring up any concern that they have," Margaret said. Any photographs of their husbands in Saudi are passed around; at one meeting, a videotape of the soldiers in the field was played. There is no set time for the meetings to break up. They usually last about two hours.

The families are welcome to visit or call anytime, not just attend the meetings, Margaret said. "We have a policy our home's always open," she said.

The Kolasinskis arrived here from Germany in February 1987. James, 31, is an "Army brat" from Anniston where his father retired. Margaret, 26, grew up in Merrimack, N.H. They have a 3-month-old daughter, Katy. The family pet is Thumper, a golden retriever.

"I think the people are really nifty. I enjoy working with them. If James were deployed and I was in the situation these wives are in, I would like to have something where I could get information or talk to others," Margaret said.

"I would want to know that my family's being taken care of," James said. "If she had a question, she would know where to go to get an answer; or if she had a problem where she would need to get a hold of me, again she would have a point of contact to make it happen."

# THE REDSTONE ROCKET

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## Assistant secretary of Army lauds Patriot performance

One of the Army's top civilian leaders came to Redstone last week with a simple message for the soldiers, civilian workers and contractors of the Army missile team.

The message: Thanks, thanks especially for Patriot, thanks for all you have done, thanks for all the other missile systems that our soldiers may yet use in combat.

Stephen Conver, assistant secretary of the Army for research, development and acquisition, visited both the Missile Command and Strategic Defense Command and spoke to a meeting of the Huntsville-Redstone Chapter of Association of the U.S. Army on Jan. 23.

Patriot's performance against Iraqi Scud ballistic missiles, Conver said, has exceeded the expectations of even its most optimistic backers. The system, he said, is a testimonial to the work of hundreds of people here and elsewhere who put 25 years into the system.



**PRESENTATION** — Conver, left, accepts a memento from Bob Johnson, president of Huntsville-Redstone Chapter of the Association of the U.S. Army.

Critics cited Patriot for years as a prime example of a high-tech weapon that wouldn't work and cost too much, but less than a week of combat by the system and its highly trained soldier crews had silenced the critics, Conver said, by saving lives, a lot of them.

By smashing Scuds, Conver said, Patriot and its crews:

- Held the coalition of nations aligned against Iraq together.
- Proved that government and industry can work together to give our fighting forces high-tech weapons that make a crucial difference in modern combat.
- Taught a "lesson of persistence," that 25 years of work were indeed worth the cost.

Our soldiers are counting on other Army weapons and equipment to perform as Patriot has, Conver said, and expressed confidence that would happen.

## Army acquisition system must change, says leader

The Army killed the Non Line of Sight fiber optic guided missile system last week and the man who made the decision told an audience of Army and industry people here Jan. 23 that what happened to that program was a prime reason why the Army must change how it develops and buys weapons and equipment.

Stephen Conver, the Army's acquisition executive, faulted "the system," the government and the contractors for "a massive cost overrun."

He outlined a series of changes he intends to make in the process in a speech to the Huntsville-Redstone chapter of the Association of the U.S. Army.

Change must come, he said, because the post Desert Storm Army will be operating in an era of tight budgets and intense public scrutiny. "Programs that are sick will be killed," he said.

What he hopes to do, Conver said, includes:

- Fully fund development programs. The Army should not force contractors "to bet their companies" by structuring developments that invite "buy ins." "If we have to terminate a program in development, the contractor should still make a profit," he said.
- Change the mind-set of industry that in the past has been buy in during development, get well in production.

• Do better risk assessment. When it's low, the contractor should be willing to bear more of the development cost; when risk is high, the government should.

- Select contractors on the basis of best value.

• Get "proper" incentives into contracts including "substantial rewards" for bringing programs in under budget.

He has been told, Conver acknowledged, that the acquisition system has been doing things differently for 30 years and cannot easily be changed.

"Watch us try," he said.

## Coalition forces continue search for Scud launchers

WASHINGTON — Although Iraq's participation in the Persian Gulf war has been "very feeble" and largely limited to scattered Scud missile attacks, a U.S. Central Command official says coalition efforts to locate and destroy Saddam Hussein's Scud launchers have been only partially successful.

During a CENTCOM press briefing in Riyadh at 10 a.m. EST Jan. 21, Air Force Maj. Gen. Burton Moore acknowledged hearing the reports of downed American fliers being held prisoner in Iraq, saying that while U.S. officials are "happy that our airmen survived the interception, the hostile fire, we hold Iraq accountable to treat them in accordance with the Geneva Convention."

Moore is the director of operations for CENTCOM's forward headquarters.

Nine Scud missiles were launched toward Dhahran and Riyadh early Jan. 21. Moore said that all of the incoming Scuds except one were intercepted by Patriots; the remaining Scud fell into the sea near Dhahran. He added that some damage was caused in Riyadh, but could not confirm whether it was caused by debris from an intercepted Scud or by a malfunctioning Patriot.

"I would say that his efforts to launch Scuds, both here and in Israel, have been very ineffective," he said.

Moore said the coalition air forces were continuing their hunt for both fixed-site and mobile Scud launchers, and that they were "no where near" finishing off Iraq's Scud threat.

"We have taken some of them out," he said. "We have not achieved 100 percent of our objectives against the fixed sites, the mobile sites and his Scud missile capability."

Moore also reported the following:

- Fourteen coalition aircraft had been lost to hostile fire, nine of them U.S. aircraft. Another two coalition aircraft — an Army Apache and a British Tornado —

had been lost in non-combat incidents. The Iraqis had lost 17 planes in air-to-air fighting.

• More than 8,100 coalition sorties had been flown against Iraqi targets.

• No direct ground combat between coalition and Iraqi forces had taken place, but sporadic artillery fire had been exchanged. (Arnews)

## U.S. Patriot units helping defend Israel

WASHINGTON — Army Patriot missile units from Europe have deployed to Israel to assist in that country's defense against Iraqi Scud missiles.

The deployment, announced in a Jan. 19 press briefing at the Pentagon, will augment Patriot missiles Israel had earlier purchased, beefing up the Israeli air defenses. Iraqi Scud ballistic missiles had fallen in Israel before the announcement of the additional U.S. Patriot deployment.

Defense Department spokesman Pete Williams also used the briefing to announce additional reserve call-up authority given to Defense Secretary Dick Cheney and subsequently delegated to the military services. The new rules make Individual Ready Reservists eligible for call-up. In all, Cheney gave the services authority to call up a total of 360,000 reservists and to keep them on active duty for up to one year.

To date, DoD has called up 161,887 reservists; these reservists already on active duty will be counted among those called under the new authority.

The Army's call-up authority was expanded from 115,000 to 220,000.

Williams said U.S. troops will help train Israeli soldiers on the Patriot systems Israel purchased and will assist in manning those systems in the meantime. The U.S. units deployed to Israel will return to Europe after the Persian Gulf war ends, he said.

"Israel has tried from the beginning to stay out of this conflict," Williams said. "By attacking the civilian population of Israel, Iraq is trying to widen the war." (Arnews)

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# 100th Avenger fire unit rolls off production line

BY SKIP VAUGHN

A ceremony marking the 100th Avenger air-defense fire unit had an underlying tone: the realization that the system would probably be used soon in the Persian Gulf.

Boeing employees, Army people and others attended the ceremony held Jan. 22 in the Avenger produc-



**AIR DEFENSE TEAM** — Robert Hager, vice president and general manager for Boeing's Huntsville Division, and Brig. Gen. Robert Drolet pose near the Avenger air-defense fire unit after the ceremony.

tion area at the Boeing Defense & Space Group facility in Huntsville.

The 100th Avenger was parked near a huge American flag which was behind the speaking area. Yellow ribbons tied to the front of the vehicle signified support for the soldiers who will use the system and the troops engaged in Operation Desert Storm. The Avenger carries eight Stinger missiles in two pods atop a gyro-stabilized turret mounted on the back of the Army's High Mobility Multipurpose Wheeled Vehicle.

Brig. Gen. Robert Drolet, the Army program executive officer for air defense systems, praised Boeing's performance in his remarks during the ceremony. He also praised the performance of the Patriot air defense system which has successfully fended off Iraqi Scud missile attacks against Saudi Arabia.

"I expect we'll see the same outstanding performance from our Avenger system as we've seen from our Patriot system," Drolet said.

David Barnes, vice president for defense programs at Boeing, told the audience Boeing's efforts on Avenger will continue.

"The system has proven it can work; our job is to build each one as the previous one and meet our delivery schedule," Barnes said.

Barnes had a special message for the men and women of the armed forces. "God bless America and the men and women who are defending our freedom and the United States," he said.

Avenger was fielded last summer to support Desert Shield; and continues its support to Desert Storm. Boeing will deliver 325 of the vehicles to the Missile Command by late 1992.

Boeing originally developed its Avenger system in the early 1980s in response to a search by the Army for a more efficient use of the already-proven Stinger air defense missile, which is a man-portable system. The company developed the Avenger at its own expense using some off-the-shelf items already in the Army inventory. At Boeing's request, soldiers participated in Avenger's final design to ensure easy maintenance and operation of the system.

In August 1987, the Missile Command awarded a \$190 million contract to Boeing to produce 273 Avenger units. The first completed Avenger was delivered to MICOM on Nov. 1, 1988. Now, just a little over two years since the first Avenger rolled off the production line, the 100th unit has been delivered one month ahead of schedule.

Since awarding the contract, the Army has extended options increasing production of Avenger units to 325 with Boeing Huntsville scheduled to complete those deliveries by late 1992; this brings the contract cost to \$228.8 million. Avenger production, which currently is at five per month, will be increased to 12 units per month by August of this year.

The Army's planned objective beyond year 2000 is to have 1,779 Avenger units in the field. With U.S. Marine and foreign sales, the number could reach over 2,000.

"I look forward to the delivery of the 2,000th Avenger fire unit," Drolet told the Boeing workers.



**100 AND COUNTING** — The yellow ribbons tied to the front of the 100th Avenger signify support for the soldiers who will use the system and the troops engaged in Operation Desert Storm.

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# Dr. Carter G. Woodson: the 'Father of Black History'

*Editor's note: Huntsville Alumni Chapter of Omega Psi Phi Fraternity Inc. provides the following article for Black History Month which is observed each February.*

Perhaps more than any other individual, Dr. Carter G. Woodson is credited with opening the rich, but long neglected, field of black history to the American public.

Using a combination of extensive research and intense dedication, he was the first historian to refute many of the myths and incorrect views previously associated with the history of black Americans. His work to ensure that black Americans were depicted honestly culminated on Feb. 7, 1926 with the establishment of Black History Week. Today it is known as Black History Month. During this month, Americans of all ages take time to study the proud heritage of this country's largest minority group.

Woodson was born in West Virginia in 1875. Despite both financial and social burdens placed upon him, he earned a master's degree from the University of Chicago and a doctorate in history from Harvard University. After Harvard, he accepted a position at Howard University.

In 1915, Woodson organized the Association for the Study of Negro Life and History and continued as its director for 35 years. Today the organization is known as the Association for the Study of Afro-American Life and History (ASALH). The purpose of ASALH is to promote an appreciation of the life and history of the black American, to encourage an understanding of present status, and to enrich the promise of the future.

In 1916, Woodson published the first edition of the *Journal of Negro History* and served as its editor until his death. This scholarly periodical is an essential source for all students of black history. His book, *The Negro in Our History*, became the bible of the black movement. It was the only textbook about black Americans for high school and college students for many years. He also wrote the widely accepted *Miseducation of the Negro*.

In 1920, Woodson founded Associated Publishers Inc. and made books on Negro history available to everyone. He wrote and edited more than 15 books; he collected and organized valuable documents and inspired scores of scholars. Many of Woodson's publications have become the foundations upon which more contemporary historians have based their own research.

The distinguished educator and scholar Dr. Benjamin E. Mays once told Woodson, "Largely through your own efforts, you mastered the fundamentals of common school subjects by age 17, but you were not able to enter high school until you were 20. Entering high school at 20, only a man of rare insight and prophetic vision would have been able to predict that you would earn an M.A. at Chicago, a PhD at Harvard,

become a historian of national renown, and achieve the facilities to speak fluently three languages. You have done more than any other man to make Negroes proud of their past and of their race. When you began your work in Negro history, all too many Negroes were ashamed of their race, and even college graduates took pride in the fact that they knew nothing of Africa and less of Negro life in America. You have made Negroes proud of themselves."

In 1984, a commemorative stamp honoring Dr. Carter G. Woodson was issued. He became the latest addition to the Black Heritage USA series which includes Harriet Tubman, Martin Luther King Jr., Ben-

jamin Banneker, Whitney Moore Young Jr., Jackie Robinson, Scott Joplin and many others.

Woodson died in 1950. His residence, 1538 9th St. northwest, Washington, D.C., has been designated a U.S. national landmark. The Omega Psi Phi Fraternity, as a memorial to their beloved brother, refurbished the interior of this row house. Woodson was a highly respected historian, a fact reflected by his honorary title — "Father of Black History." He advocated: "If a race has no history, if it has no worthwhile tradition, it becomes a negligible factor in the thoughts of the world."



## Events set for Black History Month

A gospel program, road race, luncheon and a fashion show are among the activities planned here for Black History Month in February.

With the exception of the luncheon and the road race, the events are free, according to the Missile Command's Equal Employment Opportunity Office. In addition, special lunch meals for Black History Month will be served during regular lunch hours Feb. 7, Feb. 14 and Feb. 28 in the military dining facilities; only authorized personnel (active duty military) are allowed access to the dining facilities.

The opening ceremony is set for 11:30 a.m. Feb. 4 at the Challenger NCO Club.

On Feb. 9 a gospel program will be held at 5:30 p.m. at the Bicentennial Chapel.

The fourth annual Brotherhood Run, a 10-kilometer (6.2 mile) race, will be held at 9 a.m. Feb. 16, beginn-

ing and ending at Pagano Gym. There will also be a 5K fun run. Trophies will be awarded for the 10K. Entry fee is \$8 before Feb. 1, or \$9 after that date; entrants receive a long sleeve T-shirt.

On Feb. 21 the fifth annual Black History Month luncheon will be held at 11 a.m. at the Challenger NCO Club. The scheduled speaker is Dr. Andrew Billingsley of the University of Maryland. His position at the university is principal investigator, professor and chair, Department of Family and Community Development. Tickets are expected to go on sale the first week of February.

A Black History Fashion Show will be held 7 p.m. Feb. 23 at the Challenger NCO Club.

For more information about the events call SFC Sam Locke 876-8648 or Bonnie Kilgore 876-8946, both of the MICOM EEO Office.

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EQUAL HOUSING OPPORTUNITY

# First woman certified locally as professional logistician

BY SANDA LAGER

A Missile Command worker has been certified as a professional logistician, becoming the first woman in the Society of Logistics Engineers, Tennessee Valley chapter, to achieve that status.

Faye Jernigan, chief of the policy, plans and programs division, Missile Systems Readiness Directorate, passed the eight-hour examination last November. The examination is described by SOLE as a master's level comprehensive test.

"The reason I'm the only woman (to get the certification) is probably because very few women have attempted the test," Jernigan said. About 30 of the local chapter's 350 members are certified as professional logisticians.

"I've been exposed to many aspects of logistics," Jernigan said. She has worked in the Missile Logistics Center, Procurement Directorate, Force Development, Competition Management and has been in the Missile Systems Readiness Directorate for four years.

The Tennessee Valley chapter of SOLE, with its 350 members, is one of 120 chapters worldwide. International membership is at about 10,000. Most members are government employees or government-related contractor employees, according to Jim Wasson, SOLE district 5 director.

The organization's goal is to promote logistics professionalism and expand awareness throughout the world, Wasson said.



JERNIGAN

Members are encouraged to become certified logisticians to exhibit to their peers and employers their seriousness and devotion to the logistics field. The examination tests an applicant's knowledge in systems management, systems design and development, acquisition and production support, and distribution and customer support.

The examination is given twice yearly and 1,410 members have taken and passed the test since it was first given in 1974.

Few people take the examination because of its difficulty level, Wasson said. Only about 30 percent of those taking the semiannual examination pass it.

Jernigan, a GM-14, said her background as a biology teacher during a 15-year break in federal service, as well as having earned a master's degree in science, exposed her to many of the concepts and principles necessary to do well on the exam.

Jernigan is married to Millard Jernigan, chief of MICOM's Integrated Logistic Support Office, who is also a certified professional logistician.

She is the mother of Elizabeth McWhorter, who works in the Army Tactical Missile System Project Office, and Danny Leak, employed by Mayer Electric in Birmingham, and the grandmother of two.

For more information about the certified professional logistician examination or SOLE membership, call chapter chairman Martyn Martin 876-1277.

# Iraq's aggression the main reason behind U.S. policy

BY F. PETER WIGGINTON

AMERICAN FORCES INFORMATION SERVICE

Secretary of Defense Dick Cheney's recent testimony before the Senate and House Armed Services committees reaffirmed President George Bush's reasons for U.S. Persian Gulf policies and actions.

There are two ways to view the U.S. and world response to Iraq President Saddam Hussein's invasion of Kuwait, according to the defense secretary. One is in light of the world's dependence on the region's energy; the other, a context of 45 years of American presidents setting U.S. policy to recognize the region's importance.

"The reasons that made the gulf a concern of every president from Roosevelt and Truman to Carter and Reagan are equally compelling today: Persian Gulf countries possess more than two-thirds of the world's proven crude oil reserves," Cheney said. "Last year, they accounted for more than one-fourth of the world's oil production and about one-third of the Free World's."

"Secure energy supplies are a fundamental interest of the entire world." Putting a large share of gulf oil into the hands of a single hostile power, Cheney asserted, would endanger the economy and political stability of such areas as sub-Saharan Africa, Pacific rim countries and Eastern Europe.

"It is simply not acceptable for any hostile country to be in a position to manipulate the availability and cost of energy," Cheney continued, "and to have the

power to disrupt the world's economy and create political instability."

Cheney said the decision to put servicemen and women at risk is always difficult. "The president and the international community have responded to Iraq's aggression against Kuwait because a constellation of conditions came together, involving matters of principle, interests and military necessity," he said.

The first reason behind the president's policy, he said, is to thwart further aggression. Unless Iraq leaves Kuwait, Iraq poses a continuing threat to other countries and ultimately the United States, Cheney noted.

"If Iraq's ambitions are not curbed today," Cheney warned, "they will just grow stronger." Next time, he said, Iraq "will come armed not just with 5,600 tanks, a million-man army, chemical weapons and ballistic missiles. In the future, Iraq could possess nuclear weapons and the long-range missiles to deliver them."

Other reasons for intervention are the danger of Hussein gaining control of supplies and misusing the wealth that oil generates, said Cheney. He noted that with Kuwaiti oil assets, Iraq controls more than 10 percent of the world's oil production capacity and one-fifth of its oil reserves. If Iraq were to gain control or influence over Saudi Arabia and other gulf states, it could dominate over 60 percent of the world's oil reserves, Cheney said.

Because of that, no hostile country can be permitted to disrupt the world's economy nor create political instability, said Cheney. The world's economy is in-

terlinked. With the right leverage, Hussein could blackmail the world by threatening to disrupt supplies and drive economies into recession, he added.

Furthermore, Hussein has a history of using Iraq's oil wealth to build his military, and develop nuclear, chemical, biological capabilities, said the secretary. "The fact is, for Hussein," said Cheney, "oil is not so much a resource as a weapon of war."

A final reason for international involvement in the Persian Gulf is because Iraq's aggression challenges the better world everyone hopes to build following the end of the Cold War era, Cheney said. "If Iraq can succeed in this kind of action, when virtually the entire world condemns it," he asserted, "a very strong signal will be sent to all aggressive regimes that brutality pays."

Cheney reiterated President Bush's objectives for U.S. policy, which, he said, have remained the same throughout: complete and unconditional withdrawal of all Iraqi forces from Kuwait, restoration of the legitimate government of Kuwait, protection of American lives and strengthening the security and stability of the gulf region.

The mission the president gave the armed forces, said Cheney, was to deter further Iraqi aggression, defend Saudi Arabia if deterrence failed, bolster the military capabilities of friends in the region and enforce economic sanctions. Cheney said that service members are the greatest U.S. strength and most fear-

(See Cheney, cont'd on page 9)

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# Physicist and inventor retires after 45 years service



MOORE

An Army physicist who came to Redstone Arsenal in 1950 with von Braun's team of German rocket scientists has retired.

Tom Moore has been a fixture at Redstone ever since arriving from White Sands, N.M. Characteristically, he wanted to leave quietly, without fanfare. He politely declined several requests for interviews with this newspaper.

But Moore, an inventor who is credited with creating a jet vest many years ago, did graciously answer a few questions about his background.

His career dates back to 1946 when he went to work for the Navy as a physicist in Washington. "They sent me to White Sands; that's where I met up with the Germans," he recalled.

Later, Moore moved on to Redstone Arsenal with Dr. Wernher von Braun and the von Braun team. That was 41 years ago.

"And I've been here ever since," said Moore, 79, who will be staying in Huntsville.

He will be missed. Roy Cameron can vouch for that;

Cameron is group leader for length, mass and force at the Physical Standards Laboratory, Army Primary Standards Lab Directorate, U.S. Army TMDE Activity. TMDE stands for Test Measurement and Diagnostic Equipment. The worldwide organization provides the Army's highest level of calibration. "He (Moore) was a physicist here. We employ a good many engineers and physicists. He was a physicist throughout the years of the von Braun rocket team and their work here in Huntsville. And of course he was at White Sands with them before they moved here to Huntsville," Cameron said.

Cameron wrote the following tribute: "After some 45 years of government service, much of which was served as a scientist in space propulsion and related fields, Mr. Thomas M. Moore has decided the time is right to retire. Mr. Moore's capable and untiring efforts in the service of his country has contributed immensely to the long-range success of the United States' military and civilian space programs. He will be missed."

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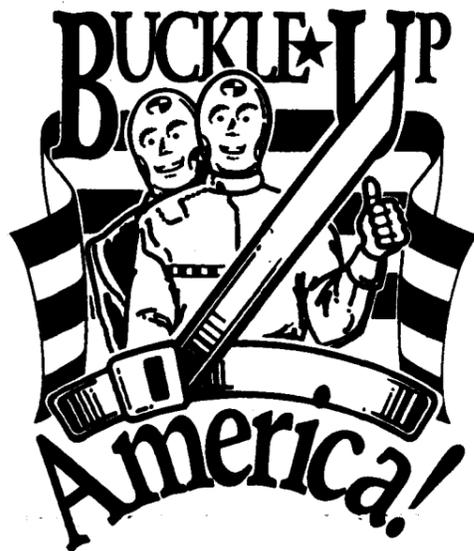


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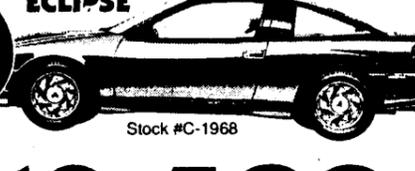


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# A black history reflection: slaves not permitted patents

BY RUDI WILLIAMS

AMERICAN FORCES INFORMATION SERVICE

African-American slaves produced many inventions and innovations, but it was against the law for them to patent them. All evidence of their creations was erased, except for the slave owners who applied for patents, some in their own names, according to a Smithsonian Institution researcher.

"We traced three important slave inventions," said Portia P. James of the Smithsonian's Anacostia Museum in Washington, D.C. James curated an exhibit and authored a book, both entitled *The Real McCoy: African American Invention and Innovation, 1619-1930*. "The invention of a cotton harvester by a slave named Ned led to the decisions by the U.S. attorney general to prohibit inventions from being patented by slaves or the slave owners," she said.

"In a series of letters on file in the U.S. Patent Office, the slave owner goes into this long intellectual argument about slavery and what slavery means," said James. "He said, 'Slavery means that if my slave invents something, because I own him, I own his physical labor and also his mind. Therefore, I have the right to patent his invention.' But the attorney general disagreed, saying no slave owner can patent an invention of a slave, nor is the slave allowed to patent it."

Ned was a slave mechanic in Pike County, Miss., on

a plantation owned by Oscar J.E. Stuart, who wrote his first letter to Secretary of the Interior Jacob Thompson on Aug. 25, 1857. Ned had constructed a new and innovative cotton scraper that local planters heralded as "a great labor-saving machine." With the assistance of one man and two horses it could, Stuart asserted, do the work of four men, four horses, two single scrapers and two ploughs, James wrote in her book.

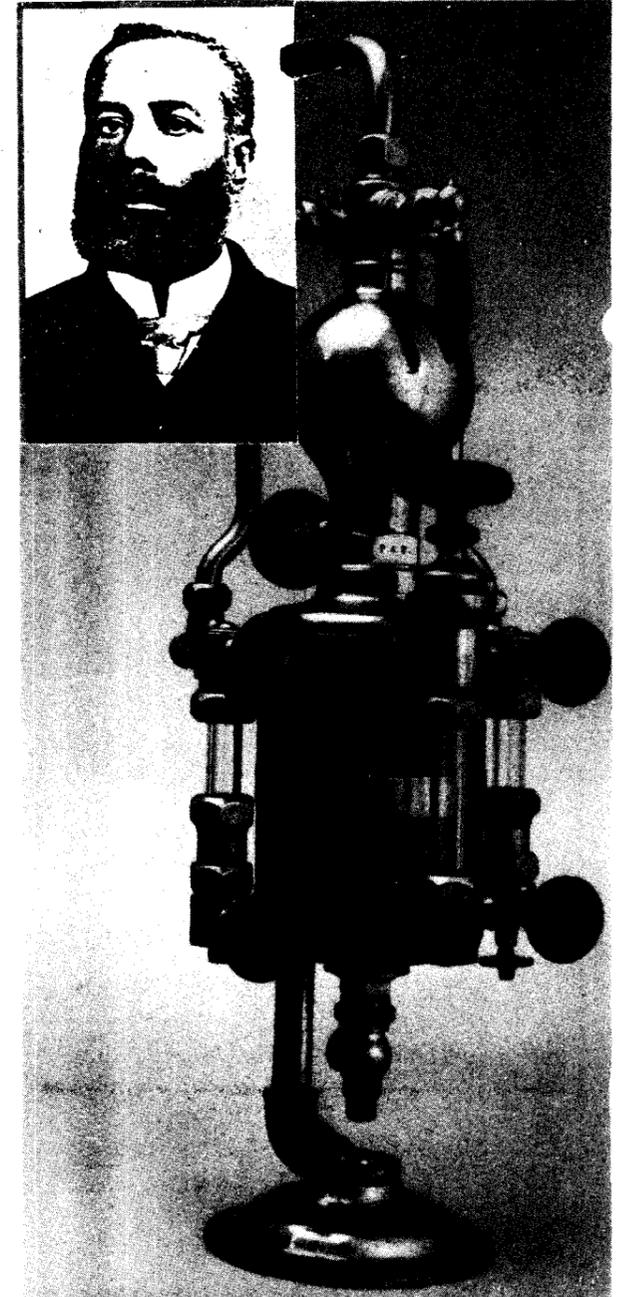
"The epilogue to this is that Stuart and his family became very wealthy from manufacturing and marketing Ned's Double Cotton Scraper," said James. Their advertising broadside included the enthusiastic testimony: "I am glad to know that your implement is the invention of a Negro slave — thus giving the lie to the abolition cry that slavery dwarfs the mind of the Negro. When did a free Negro ever invent anything?"

"The Stuarts became wealthy and Ned disappeared from history. We don't even know what his last name was, if he had one," said James.

"Another slave who was very important is Benjamin

Montgomery, who was the slave of Joseph Davis, the brother of Jefferson Davis, who later became president. (See Slaves, cont'd on page 15)

Photo Courtesy Smithsonian Institution



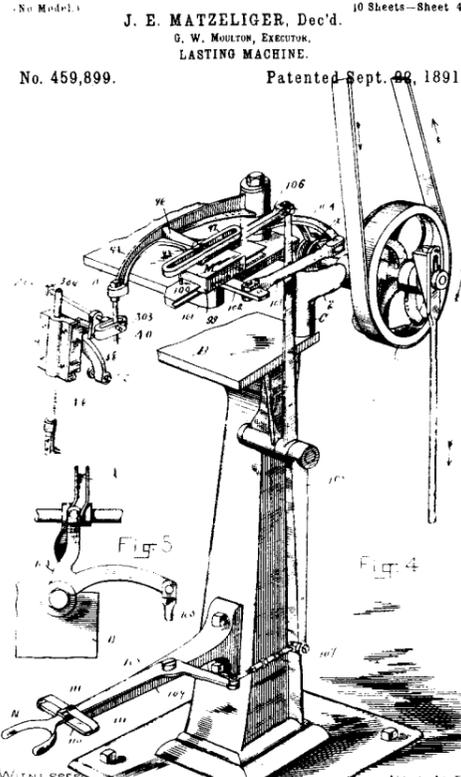
Elijah McCoy invented a hydrostatic oil lubricator for locomotives that became an industry standard — the "Real McCoy." Elijah McCoy's hydrostatic oil lubricator was patented March 28, 1882.

Photo Courtesy Smithsonian Institution



Jan E. Matzelliger invented a device called a shoe-lasting machine that completely automated America's shoe-making industry.

Photo Courtesy Smithsonian Institution



The Matzelliger shoe-lasting machine quickly shaped and smoothed shoe leather uppers to match a wearer's foot. Previously, time-consuming handcrafting was the method for lasting.

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# Some acquisition corps officers eligible for command

ALEXANDRIA, Va. — As a one-time exception to policy, eligible Army Acquisition Corps officers with the functional area 97 (contracting and industrial management) specialty can compete for command selection, in the procurement category only, in the upcoming fiscal 1992 lieutenant colonel-level command selection board.

The one-time exception was approved by the Army deputy chief of staff, personnel, on Jan. 11. It applies to functional area 97 officers with the additional skill identifiers 4M (acquisition corps candidate) and 4Z (certified acquisition corps officer).

According to Maj. Charles F. Vondra, FA 97 assignment officer, military acquisition management branch, Total Army Personnel Command, members of the recently established Army Acquisition Corps may not, under current policy, compete for command.

The lieutenant colonel command selection board date is not affected by this exception. The board convenes Jan. 29 through Feb. 15 as scheduled.

However, since there are a limited number of lieutenant colonel command positions requiring the functional area 97 specialty, the exception allows qualified officers to compete.

The director, Army Acquisition Corps will address the FA 97 command issue in the near future, Vondra said.

FA 97 officers must meet the same eligibility criteria published in MILPER message number 91-48 as all other officers. Any questions about one's eligibility for command consideration should be addressed to one's servicing local military personnel office.

Approximately eight FA 97 officers in Army Materiel Command and a total of 40 Armywide are affected. Sixty-eight other officers in FA 97 are also in the competitive category for this board. Total Army Personnel Command sent letters of notification to each affected officer.

For more information, call Vondra at Autovon 221-2758/2801/3124 or commercial (703) 325-2758. (AMC Command Information Release)



ROBOCOP? — SSgt. Donald Renner, an instructor of the Hazardous Devices Division, models the PS 820 Explosive Ordnance Disposal (EOD) suit. The suit is manufactured by PMCo. It is primarily made of Kevlar and features a ceramic chestplate and Lexan faceplate. The suit is used by U.S. Army and many state, county and municipal bomb squads. The hazardous devices division here celebrated its 20th anniversary Jan. 18.

## 'War clause' in many soldiers' insurance policies

FORT MONROE, Va. — Many soldiers have purchased life insurance policies that will not pay their beneficiaries if they are killed in combat.

That is because each of their policies contain a "war clause" or "battle death clause" that nullifies the insurance coverage for military service in a combat zone.

Soldiers are briefed about such clauses at their POR (Processing for Overseas Replacement) briefings. The clauses have been standard for many insurance companies for years, but have only recently received widespread publicity because of Operation Desert Shield which has become Operation Desert Storm.

Department of Defense and Department of Army regulations permit insurance companies to solicit business on military installations in accordance with state laws. However, when policies contain such clauses, soldiers must be told about them.

Army commanders are concerned about those soldiers who were solicited and purchased insurance who may not have been aware of all stipulations in their policies. Reservists and soldiers living off post may also have purchased insurance containing such clauses.

"Most insurance companies are reputable and will tell customers what the policies contain," said Lt. Col. Jay Manning, deputy judge advocate general for Training and Doctrine Command. "An insurance policy is a contract between the servicemember and the insurance company. Every soldier should read the policy to be sure he understands the contract and that it provides the coverage desired." (TRADOC News Service)

## Panamanian dependents affected by agreement

ALEXANDRIA, Va. — Panamanian nationals who are dependents of soldiers not assigned to Panama need to know that if they return to Panama, the status of forces agreement prevents them from using military facilities such as commissary, post exchange, educational, medical and housing.

This message was relayed by the Total Army Personnel Command.

Point of contact for more information for enlisted personnel is assignment procedures branch, TAPC-EPO-H, Autovon 221-8090. Point of contact for officer personnel is distribution management branch, TAPC-OPD-M, Autovon 221-7884.

## Cheney

(Cont'd from page 6)

some weapon against tyrants like Hussein. "Having talked with the men and women in the gulf," he said, "I know that they are prepared and willing to do whatever we ask of them."

"Our job, the job of this administration and this Congress, is to make sure that our decisions do not betray the trust our soldiers, sailors, airmen and Marines have put in us," he concluded.

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# New electronic security system a sign of the times at /

**BY EARLA LOCKHART**

When employees assigned to the U.S. Army Strategic Defense Complex on Wynn Drive returned to work Jan. 2, they were greeted by a sophisticated new building security system — the Electronic Integrated Facility Security System (EIFSS) — instead of the usual armed security guards.

USASDC shares the complex with the Huntsville Division/Army Corps of Engineers, the Redstone Readiness Group, the General Services Administration and two Missile Command components — the Security Assistance Management Directorate and the Patriot Project Office.

The state-of-the-art system allows employees and visitors to enter and exit the complex efficiently. It features new badging and visitor control procedures, a central alarm and intrusion detection system, and a closed circuit television system.

The new badges have a magnetic strip that is electronically encoded to allow access to certain areas of the building and deny access to areas that have not been approved for the visit. The entire badging procedure, including photographs for picture badges, is performed by the computer-based system.

Visitors to the USASDC complex enter either through the main entrance (facing Wynn Drive) or through the annex entrance (on the north side of the complex) and report to the visitor control post in the lobby. If a valid visit authorization is on file, badging is quick.

"Visitors can actually sign in and be issued a badge in less than one minute — if we have the clearance information on file," said SFC Jeffery Owen, technical monitor for the EIFSS installation contract. "The procedures are exactly the same whether you're visiting

the main building or the annex. All government employees and contractors who need to visit the complex on a regular basis, or even intermittently, should submit a request for visit authorization form."

Missile Command and contractor personnel should send their visit authorization request to the appropriate sponsor or contract monitor at the USASDC complex. The sponsor is responsible for verifying the visitor's "need-to-know," signing the form, and returning it to visitor control. The clearance information is kept in the computer until the expiration date.

The visitor is issued a badge with a magnetic coded strip, which is passed through one of the electronic cardreaders at the entrance turnstiles. Government personnel get a blue "no-escort" badge. U.S. contractor employees who have clearance information on file and a contractual relationship with a building tenant get a green "no-escort" badge. On future visits, a badge is reissued after the visitor presents appropriate identification and signs the visitor's roster.

All other visitors, except foreign visitors, will get a red "no-escort-required" badge issued if the sponsor provides the USASDC security office (Attn.: CSSD-IN-CS) a memorandum justifying the visit in advance.

MICOM and other government personnel without an active visit request on file will be issued a blue "escort-required" badge upon showing government identification. The visit sponsor is required to provide an escort while the visitor is in the complex.

The magnetic code on visitor badges allows access to elevators, stairways and other pre-approved areas of the building. However, they cannot be used to leave the building. To get out, visitors must turn in their badges to the visitor control post in the main lobby or annex lobby. The security system operators will

manually authorize exit after the badge is turned in.

If a visitor exits the building without turning in the badge, the EIFSS database will block both entry and issuance of a new badge until the original badge has been returned. Visitor badges expire at midnight on the issue date and cannot be used to re-enter the building until they have been reprogrammed.

Government and contractor personnel assigned to the USASDC complex full-time have been issued new picture badges. Under normal security procedures, these badges will allow entrance and exit through any exterior door of the complex.

The most visible evidence of the new system is the absence of security guards at building entrances, elevators and stairwells. The remaining security force includes the security system operators, who operate the EIFSS computers, issue badges, control and monitor the intercom system, cameras, and public address systems, and perform other security functions. A small force of armed guards responds to alarms and other problems.

Twenty-two interior and exterior cameras are monitored around the clock in the Central Alarm Station (CAS). Two-way intercom speakers are located at all elevators and exterior entrances/exits, allowing the CAS operator to see and talk to persons having problems at any of those locations.

According to Owen, EIFSS is designed to be user-friendly and not to create problems for employees or for visitors. In an emergency, crash-bars on all exit doors permit immediate exit from the building.

The EIFSS prime contractor is RDR Inc., and SAIC is the system integrator. The system operator is Integrity Private Security Services of Clarksville, Tenn.

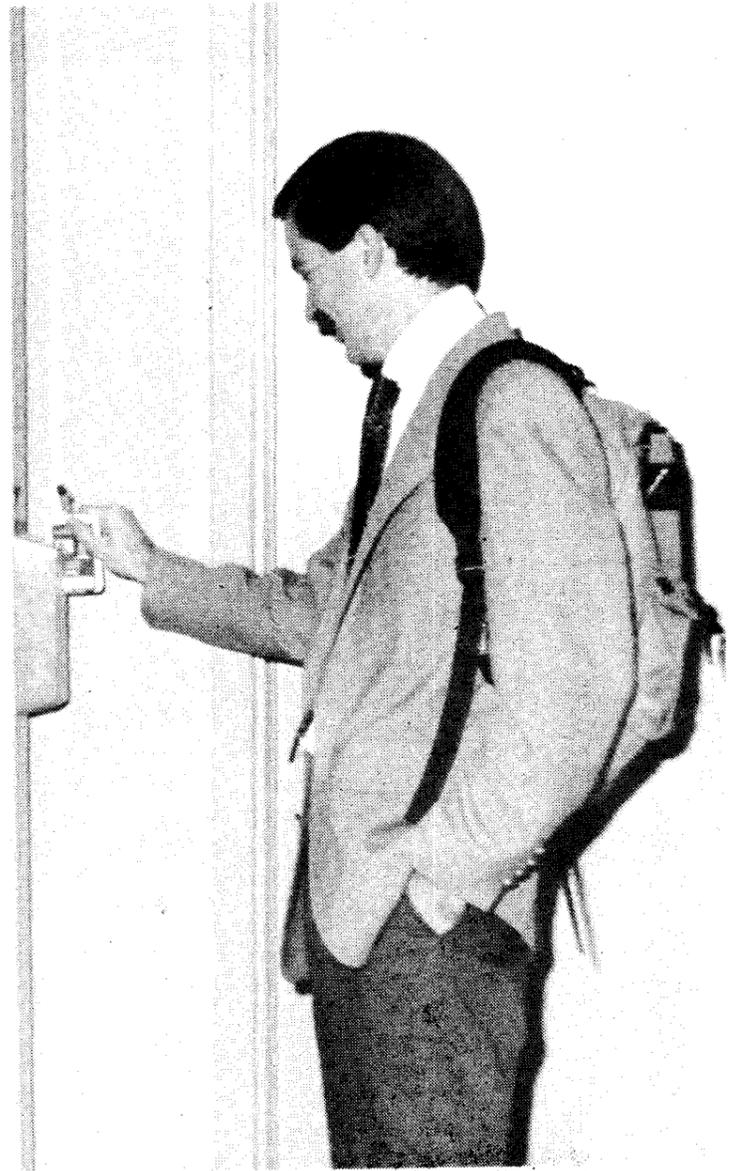


**ALARM STATION** — Carol Hastings and Harlen Brizendine of Integrity Private Security Services observe the Central Alarm Station television monitors.

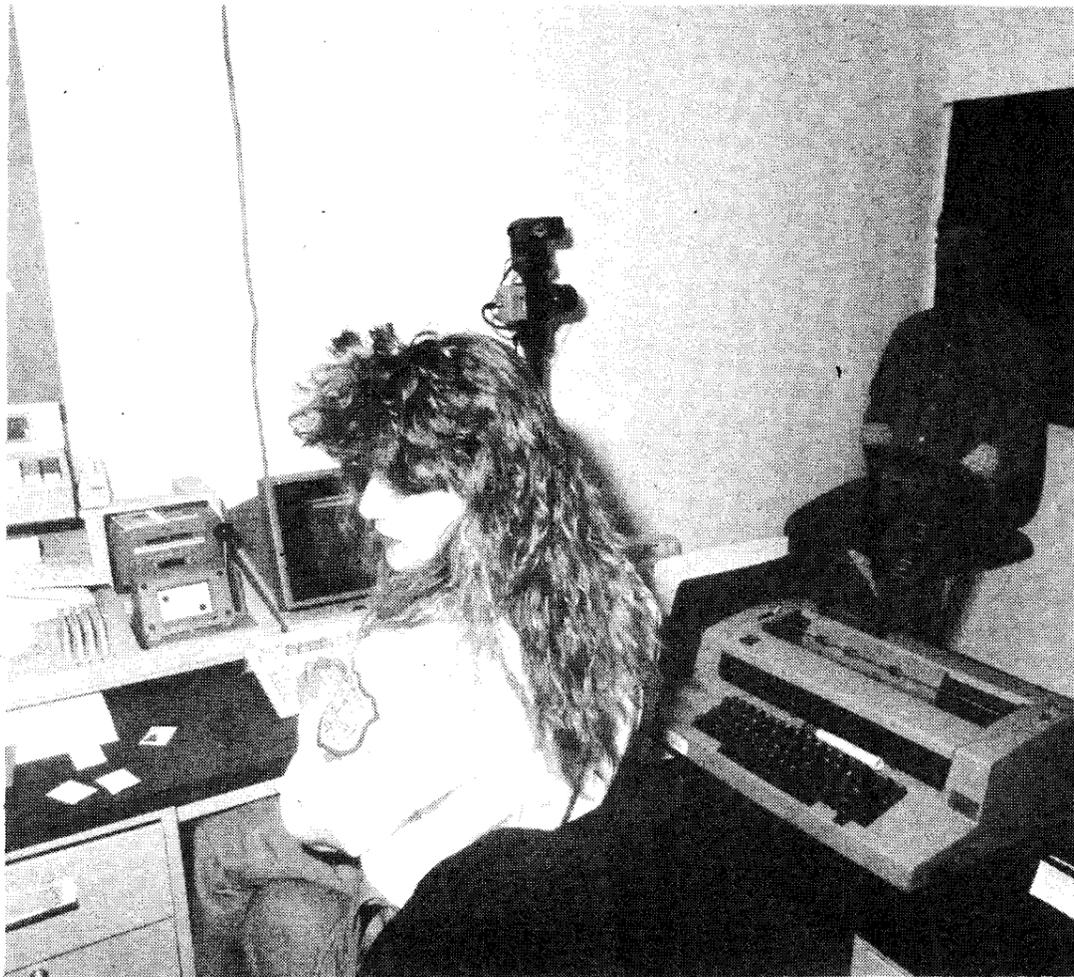
# my Strategic Defense Command complex



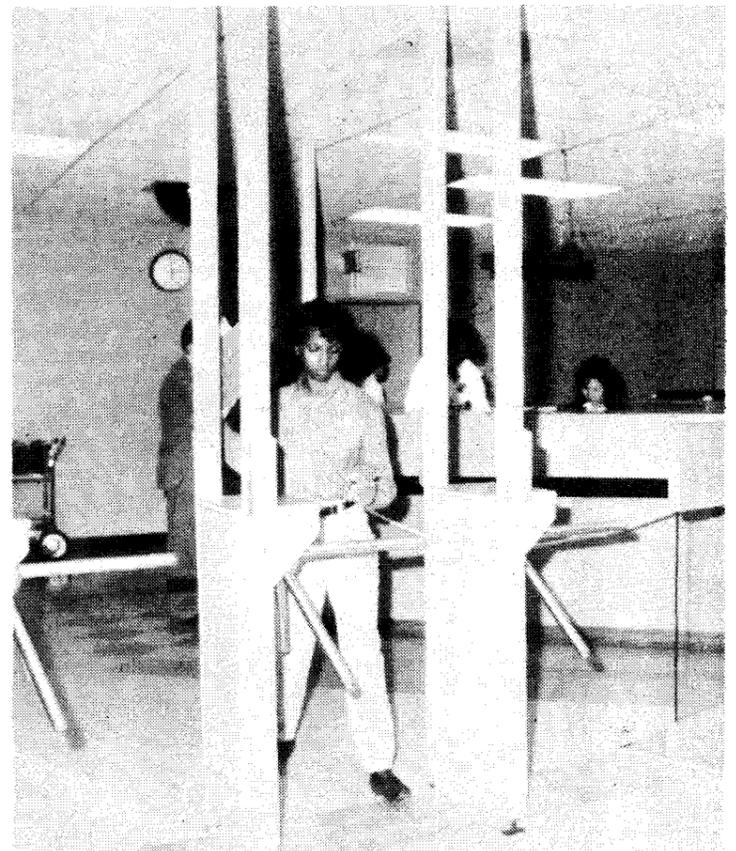
**HOW IT WORKS** — Robert P. Teetz of the USASDC Counterintelligence Division demonstrates entry procedures to visitor Dick Marsden from General Electric.



**CHECKOUT TIME** — Jack Miller of the USASDC Visual Information office, "cards-out" at the end of a work day.



**NEW BADGE** — Rita Mason prepares a computer-generated badge for Doug Pennington of Huntsville Associates.



**TURNSTILE** — Charlotte Moss, Huntsville Division mailroom employee, uses turnstile in the main lobby of the complex.

# Army has maintenance support shop in Southwest Asia

CHAMBERSBURG, Pa. — The Army Materiel Command's Depot System Command has established an Army Support Group in Southwest Asia to provide supply and maintenance support for Operation Desert Shield.

A major mission of the facility is to operate a supply point to support units by storing, shipping, receiving and repairing spare and repair parts.

The group will also provide direct support, general support and depot-level support maintenance to preclude equipment being shipped to Germany or returned to the United States for repair. Direct support equates to repair of an automobile at a service station; general support equates to taking a car to a dealer for repair; and depot-level equates to sending the car back to the factory for maintenance. Overhaul, rebuild and conversion will continue to be done at depots in the States and in Germany.

The amount of equipment transferred to Southwest Asia warrants the establishment of this forward activi-

ty whose commander, Col. Gary Clark, will report to Headquarters, Depot System Command. The facility will be located in a rented automobile assembly plant.

The support group will employ up to 750 civilian volunteers from the Army's 12 depots and six depot activities. Assignment to the group is temporary duty for the civilians who will live in housing provided by the Army and receive Army rations.

Depot System Command has supported the Desert Shield effort from the beginning. By early October,

they had shipped more than 80,000 tons of materiel, primarily large end items, spare and repair parts and ammunition. (Depot System News)



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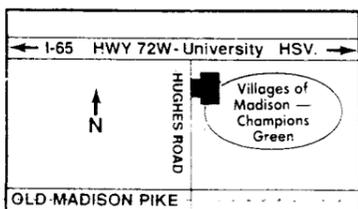
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## Course Schedule March & April, 1991

Course Title & Course No.	Dates	Days	Time	Fee
<b>SCIENCE &amp; ENGINEERING</b>				
Fundamentals and Applications of Fiber Optic Systems PD3129-02	Mar 18 - 22	Mon - Fri	8 a.m. - 5 p.m.	\$495
<b>Nondestructive Testing Series</b>				
Radiography-Level II PD3072-03	Mar 11 - 15	Mon - Fri	7:30 a.m. - 4 p.m.	\$850
Ultrasonics-Level II PD3070-03	Apr 1 - 5	Mon - Fri	7:30 a.m. - 4 p.m.	\$850
Electromagnetic Testing-Level I PD3116-02	Mar 4 - 8	Mon - Fri	7:30 a.m. - 4 p.m.	\$850
Electromagnetic Testing-Level II PD3138-01	Apr 8 - 12	Mon - Fri	7:30 a.m. - 4 p.m.	\$850
<b>MANAGEMENT DEVELOPMENT</b>				
<b>International Marketing/Management Certificate Program</b>				
Export Licensing and Control PD6139-01	Mar 6	Wednesday	8:30 a.m. - 5 p.m.	\$175*
Strategic Planning for the Global Marketplace PD6135-01	Apr 22	Monday	8:30 a.m. - 5 p.m.	\$175*
<b>Finance and Accounting</b>				
AMA: Fundamentals of Finance and Accounting for Nonfinancial Managers PD6090-02	Mar 4 - Apr 8	Mondays	6 - 8:30 p.m.	\$395**
Material Management Accounting Systems PD6141-01	Apr 2 - 4	Tues - Thurs	8:30 a.m. - 4 p.m.	\$550
<b>Career Builders</b>				
Management Skills for Secretaries and Administrative Assistants PD6022-11	Apr 17	Wednesday	8:30 a.m. - 4 p.m.	\$175
How to Work With People PD6089-03	Apr 18	Thursday	8:30 a.m. - 4 p.m.	\$195*
Managing Multiple Priorities PD6140-02	Apr 19	Friday	8:30 a.m. - 4 p.m.	\$195*
Performance Measurement Techniques PD6142-01	Apr 24	Wednesday	8:30 a.m. - 4 p.m.	\$195*
<b>Writing Skills</b>				
Proofreading and Editing PD6060-05	Apr 9 & 10	Tues & Wed	8:30 a.m. - 4 p.m.	\$295*
<b>COMPUTER APPLICATIONS</b>				
<b>Microcomputer Fundamentals</b>				
Intro to IBM PCs and Compatibles PD0064-25	Mar 12 - 15	Tues - Fri	8 a.m. - noon	\$275+
Intro to IBM PCs and Compatibles PD0064-26	Apr 1 - 11	Mon - Thurs	6 - 8 p.m.	\$275**
Personal Compute Overview PD0007-40	Apr 23 - 25	Tues - Thurs	6 - 8:20 p.m.	\$135**
<b>Operating System</b>				
MS-DOS PD0001-33	Mar 18 - 22	Mon - Fri	8 a.m. - noon	\$325+
MS-DOS PD0001-34	Apr 15 - 25	Mon - Thurs	6 - 8:30 p.m.	\$325**
Intro to Novell NetWare PD0147-01	Apr 22 - 26	Mon - Fri	8 a.m. - noon	\$495+
Intro to Novell NetWare PD0147-02	Apr 22 - May 2	Mon - Thurs	6 - 8:30 p.m.	\$495**
<b>Word Processing and Electronic Spreadsheets</b>				
Intro to WordPerfect PD0027-16	Apr 25 & 26	Thurs & Fri	8:30 a.m. - 4 p.m.	\$325**
Beginning Lotus 1-2-3 PD0005-61	Apr 22 - 24	Mon - Wed	8:30 a.m. - 4:10 p.m.	\$395+
Intermediate Lotus 1-2-3 PD0047-18	Mar 25 - 28	Mon - Thurs	5:45 - 9 p.m.	\$295**
Lotus Macros PD0008-09	Mar 28	Thursday	8 a.m. - 4 p.m.	\$175+
<b>Desktop Publishing</b>				
Desktop Publishing on the IBM PC and Compatible PD0062-10	Mar 4 - 6	Mon - Wed	8 a.m. - noon	\$325**
<b>Database Management</b>				
Intro to dBase III Plus PD0002-34	Mar 4 - 8	Mon - Fri	8 a.m. - noon	\$395**
Intro to dBase III Plus PD0002-35	Apr 8 - 18	Mon - Thurs	6 - 8:30 p.m.	\$395**
Intro to Oracle PD0142-02	Apr 8 - 18	Mon - Thurs	6 - 8:30 p.m.	\$595**
<b>Technical Computer Courses and Computer Languages</b>				
PC Utilities PD0143-01	Mar 11 - 21	Mon, Tues & Thurs	6 - 8:40 p.m.	\$295+
PC Troubleshooting PD0080-18	Mar 25 - 27	Mon - Wed	8:30 a.m. - 12:20 p.m.	\$425+
Applied Data Communications and Networking PD0020-08	Apr 8 - 12	Mon - Fri	8 a.m. - noon	\$395
"C" Programming PD0010-27	Apr 1 - 12	Mon - Fri	8 a.m. - noon	\$645*
<b>Apple Macintosh Courses</b>				
Intro to the Apple Macintosh PD0016-49	Mar 20 & 21	Wed & Thurs	9 a.m. - 12:30 p.m.	\$195
Microsoft Word PD0079-27	Apr 2 - 4	Tues - Thurs	6 - 8:20 p.m.	\$195*
Advanced Microsoft Word PD0090-03	Mar 6 & 7	Wed & Thurs	9 a.m. - 12:30 p.m.	\$195
MS Works PD0105-03	Apr 15 - 18	Mon - Thurs	5:30 - 8:30 p.m.	\$295*
WingZ PD0141-01	Apr 23 - 25	Tues - Fri	9 a.m. - 1 p.m.	\$325
Desktop Publishing PD0026-31	Mar 12 - 15	Tues - Fri	9 a.m. - noon	\$295

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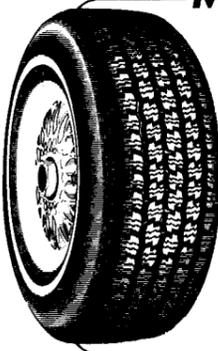
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P185/75R14	61.82
P195/75R14	63.17
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P215/75R15	73.23
P225/75R15	76.56
P235/75R15	80.37

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165R13	46.64
175R14	54.57
185R14	58.55
175/70R13*	51.39
185/70R13	57.16
185/70R14*	61.58
195/70R14	68.47
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185/65R15	72.17
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\*LX1 Tread Design

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The XA4 is an all season tire designed to provide excellent year round traction for owners of domestic and imported cars. NTW 40,000 MILE LIMITED TREADWEAR WARRANTY. Whitewall/Blackwall.\*

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P215/75R14*	68.21
P235/75R15* XL	92.75

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The MXV is a high performance tire designed to provide high speed stability and ride comfort on world class performance sedans. Blackwall.

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195/70HR14	92.92
205/70HR14	98.84
195/65HR14	101.86
195/65HR15	110.60
195/65VR15	123.25
205/65HR15	117.22
205/65VR15	130.65
185/60HR14	91.16
195/60HR14	95.50
205/60HR14	104.82
195/60HR15	103.63
205/60HR15	110.07

some sizes may be MXV2 or MXV3

## MICHELIN® XZ4



The XZ4 is an all season tire designed to provide exceptional ride comfort and low noise levels for owners of domestic luxury sedans. NTW 40,000 MILE LIMITED TREADWEAR WARRANTY. Whitewall/Blackwall.\*

SIZE	PRICE
P185/75R14	66.42
P195/75R14	75.50
P205/75R14	80.59
P205/70R15	77.94
P215/70R15	82.23
P205/70R15*	69.44

## MICHELIN® XGT V®



The XGT V is an ultra high performance tire designed to provide the optimum levels of handling responsiveness and max handling stability for very demanding drivers of the best performance cars. Blackwall.

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215/60VR15	130.81
P225/60VR15	134.84
P215/65VR15	117.74
205/55VR16	160.72
225/50VR16	175.53
P245/50VR16	186.13
P255/50VR16	200.29
P275/40ZR17	258.13
P215/60HR15 H4	120.36
P225/60VR16 V4	148.66

## MICHELIN® XW4®

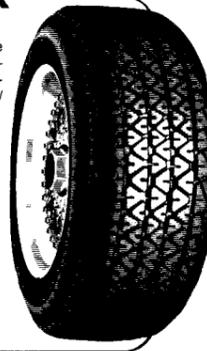


The XW4 is a new generation all season tire designed to provide improved traction and ride comfort for owners of today's more advanced sedans. NTW 40,000 MILE LIMITED TREADWEAR WARRANTY. Whitewall/Blackwall.\*

SIZE	PRICE
P205/75R15	74.19
P205/75R15 TS	99.42
P235/75R15 TS XL	116.19
P215/70R15	84.89
P205/75R15*	70.82
P205/65R15*	78.93

TS- Tru-Seal Self Sealing

## MICHELIN® EPX



The EPX is an all season performance tire designed to enhance the appearance and handling responsiveness of "sporty" cars with standard suspensions. Raised outlined white letters/ Raised black letters.\*

SIZE	PRICE
P205/70R14	86.94
P215/60R14	87.37
P235/60R15	97.99
P215/65R15	88.61
P195/70R14*	78.45
P225/70R15*	82.27
P205/60HR15*	99.87

## MICHELIN LX1®



The LX1 is a premium all season tire designed to deliver enhanced handling characteristics for owners of contemporary touring sedans. NTW 40,000 MILE LIMITED TREADWEAR WARRANTY. Blackwall.

SIZE	PRICE
P175/70R13	51.39
P185/70R14	61.58
P215/70R15	80.10
P185/65R14	68.90

## MICHELIN® XCH4



The XCH4 is an all season light truck tire designed to deliver unequalled ride comfort for owners of pickups, vans and sport utility vehicles. Raised outlined white letters/ Blackwall.\*

SIZE	PRICE
P195/75R14	74.50
LT215/75R15 C	93.85
LT235/75R15 C	101.99
LT215/85R16* D	111.99
LT225/75R16* D	118.11
LT235/85R16* E	128.99
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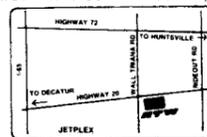
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## Company exempts troops from insurance premiums

ATLANTA — Cotton States Insurance Company plans to suspend auto insurance premiums for military personnel involved in Operation Desert Storm in the Middle East.

According to Cotton States President J. Ridley Howard, the company will suspend auto insurance premiums for all reservists currently insured by Cotton States retroactive from the time they were called to active duty in Operation Desert Shield. The company also will suspend auto insurance premiums for all regular military personnel who are currently insured by Cotton States retroactive from the time they became actively involved in the conflict known as Operation Desert Shield. The premiums will remain suspended as long as they are involved in Operation Desert Storm.

"We're suspending the auto premiums for our men and women serving in this operation to show our gratitude and support for them," Howard said.

The company extends the offer to all existing Cotton States auto policyholders in Georgia, Florida, Alabama and Kentucky. Family members of military personnel should contact their local Cotton States agent for details. (Cotton States news release)

## Troop basketball

Here are the troop basketball standings as of Jan. 25:

Eastern Conference	Won	Lost
NCOA	4	1
95th	3	2
Marines	3	2
B Company 832nd	2	2
HHC 832nd-1	2	2
E Company 832nd	2	3

Western Conference	Won	Lost
F Company 832nd	4	0
515th	4	1
HHC	2	2
HHC 832nd-2	2	3
D Company 832nd	1	3
C Company 832nd	1	4
HHC C&S	0	5

## Troop bowling

Here are the Redstone Arsenal troop intramural bowling standings as of Jan. 24:

Tuesday's Conference	Won	Lost
HHC 832nd-1	289.5	160.5
F Company 832nd-4	287.5	162.5
USATSG	248	202
HHC Command & Staff	239.5	210.5
F Company 832nd-3	239	211
HHC 832nd-3	226	224
HHC MICOM-1	208	242
MEDDAC	193	257
Marines	168.5	281.5
C Company 832nd	151	299

200 games bowled Jan. 22:

Bill Hollifield (F Co. 832nd-4)	223
Dan McClannahan (USATSG)	222
Frank Cappock (HHC 832nd-3)	215
Larry Thompson (HHC MICOM-1)	211
Dale Higgins (Marines)	207
Bill Young (F Co. 832nd-4)	207

Thursday's Conference	Won	Lost
E Company 832nd-1	294.5	155.5
F Company 832nd-1	272.5	177.5
Readiness Group	271	179
F Company 832nd-2	253	197
HHC 832nd-2	245.5	204.5
515th Ordnance Co.	219	231
E Company 832nd-2	213	237
HHC 832nd-4	194	256
HHC MICOM-2	158	292
D Co. 832nd	123.5	326.5

200 games bowled Jan. 24:

John Davis (F Co. 832nd-1)	210
Rich Collins (F Co. 832nd-2)	202
Tim Kirkland (Readiness Group)	202
Steve Cook (F Co. 832nd-1)	201

Research works.



## Wartime requirements cancel some separations

ALEXANDRIA, Va. — Soldiers that may have been selected for QMP (Qualitative Management Program) separation from the Army by the Master Sergeant Selection Board held in July 1990 are getting a second chance.

According to MSgt. Rachel A. McGlothlen, enlisted management NCO, Army Materiel Command deputy chief of staff for personnel, the Army DCSPER decid-

ed to not release the 1990 QMP list for the grades of sergeant and sergeant first class because of Operation Desert Shield requirements.

"Essentially, the list was thrown out and any soldiers who made that list, are getting a second chance," McGlothlen said.

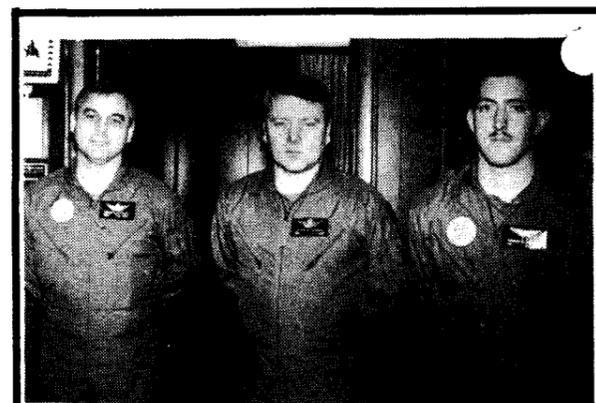
The next Master Sergeant Selection Board, tentatively scheduled for July-August 1991, will consider all eligible sergeants first class for promotion and both sergeants and sergeants first class for QMP. To date, the zones of consideration for this board have not been announced.

"Those soldiers who were in the zone of consideration during the last board, will probably be reconsidered in the zone for this upcoming board," McGlothlen said. "The 1991 board will not see the 1990 QMP list."

There are 186 sergeants and 141 sergeants first class assigned to Army Materiel Command worldwide. If you have any questions about whether you were in the QMP zone of consideration during the last board, contact the appropriate local servicing military personnel for information.

The list of staff sergeants selected for QMP by the October 1990 Sergeant First Class Selection Board will not be released before the end of January 1991. The actual release date will depend on further developments in Operation Desert Storm.

McGlothlen stressed that soldiers currently processing for separation as a result of a pre-July 1990 QMP board or as the result of a QMP appeal denied by any board, will continue to separate as scheduled. (AMC Command Information Release)



**REDSTONE HEROES** — From left are CWO 4 Loren Dethlefs, CWO 4 Jeffery Cummins and Sgt. Jeffrey McKinney, a Redstone Airfield helicopter crew that rescued a 15-year-old boy from an airplane crash near the Bessemer airport Jan. 20 in which four others die. The military team was asked for assistance after civil authorities were unable to launch a search plane due to bad weather.



**READY TO EAT** — Carl Dohrma, a student from Challenger Elementary School, holds a Meal Ready to Eat (MRE) during a visit to the Ordnance Missile and Munitions Center and School. Looking on are SFC Thurman Farmer, Threat office NCO-in-charge, and Lula Howard, OMMCS management analyst. They talked to Dohrma about the crisis in the Persian Gulf; and Farmer gave him an MRE so he could taste what U.S. soldiers in the Gulf eat.

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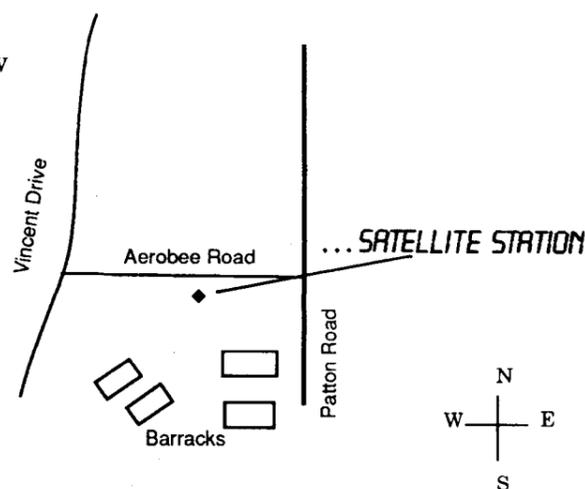
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# Slaves

(Cont'd from page 8)

dent of the Confederacy. Born in Loudoun County, Va., Montgomery was sold to Davis and became general manager and mechanic of Davis' Hurricane Plantation in Mississippi. In 1850, he invented a propeller for a river steamboat. Joseph and Jefferson Davis tried to patent it in their names, but the U.S. attorney general wouldn't allow it.

"When Jeff Davis became president of the Confederate States, he pushed through legislation — Section 50 of the Confederate Patent Act — that allowed slave owners to patent slaves' inventions," James added.

Stephen Slade, a North Carolina slave owned by a prosperous tobacco farmer, discovered, purely by accident, a new process for curing tobacco that was adopted by tobacco growers across the nation. "Slade

was in charge of curing tobacco in a smoke house. Up until his discovery, cured tobacco was a dull brownish color. As it happened, Slade fell asleep one night while tending the curing fire," said James.

"When he awoke, to his horror, the fire had gone out and he thought he was going to be punished," she continued. "The tobacco leaves had turned to a bright, shiny golden yellow color. It was beautiful, and the quality of the tobacco wasn't injured at all. As a novelty, the slave owners sold the tobacco on the market as bright tobacco. It was a tremendous hit because it was so attractive, and his owners became very wealthy because they were the only ones who knew how to manufacture it. Later, they toured the country informing other tobacco growers how to duplicate the process."

James said many slaves invented labor-saving devices and innovative techniques. An Alabama slave named Hezekiah invented a cotton-cleaning machine around 1825. Ebar, a slave in Massachusetts, invented a new technique for making brooms from broom corn around 1800. And the list goes on.

"When you look at the number of patents black inventors have received, they closely mirror the areas they were allowed to work in," said James. "For instance, there are an incredible number of patents in railroad transportation. That makes sense because for a long time, blacks were heavily employed in the railroad industry. A number of them received patents for railroad-related devices — couplers, ventilation systems and lubrication systems. Blacks were not allowed to be engineers. They were also issued patents for a lot of home devices — breadmakers and bread-crumber machines, biscuit cutters, pots, pans, grill irons, and processes for making things, such as coconut oil and dried coconut products.

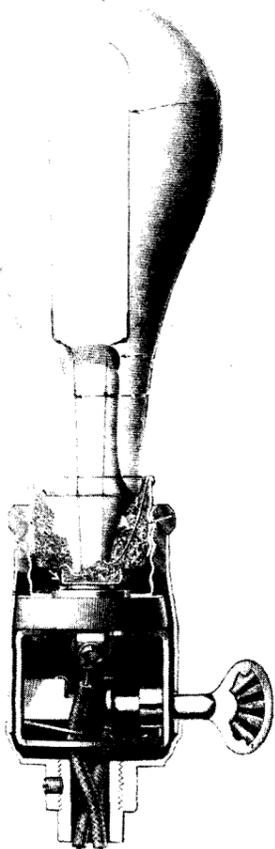
"Unlike some other trades in which slaves were



Granville Woods came to be known as "the black Edison" for his many contributions to the U.S. electrification.

employed, crafts were not the exclusive domain of men. Young women were often selected to become highly skilled milliners or dressmakers. Others learned to make lace or exquisite beaded bags. Elizabeth Keckley (1818-1907) developed a system for cutting and fitting dresses, which she taught to dressmakers in Washington, D.C.," James wrote in her book.

Photo Courtesy Smithsonian Institution



Lewis H. Latimer, a draftsman, inventor and author, was a pioneer in incandescent lighting, which the world knows today as the ordinary light bulb.

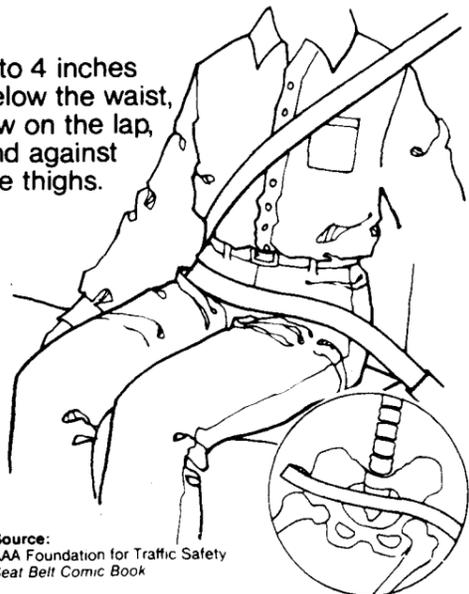
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# Army recruiting programs provide educational funds

The Army continued to play a major role in funding the educational plans of young people in the south central Tennessee-north Alabama area during the fourth quarter of 1990, according to Capt. Rick Bransford, Army recruiting commander in Huntsville.

During October, November and December 1990, 39 young men and women from this area enlisted for the Army College Fund, representing a total of \$870,600 which may potentially return in education payments to our colleges and universities over the next several years.

The Montgomery G.I. Bill Plus the Army College Fund allows young people to accumulate from \$17,000 to \$25,200 in educational benefits by enlisting in the Army for two-to-four years. Although the Army College Fund is only offered for specific skill areas, a wide variety of skill training options is available.

Applicants must be high school seniors or graduates and score in the upper half of the entrance aptitude test to qualify for the Army College Fund. Soldiers then must contribute \$100 per month during their first year of enlistment, for a total of \$1,200, to secure the government's contribution.

The Army also continued to see significant interest in its Loan Repayment Program. This program allows students with qualifying guaranteed student loans to reduce their debt by one-third for each year of Army service. Potentially, a student debtor could repay all of his guaranteed student loans in just three years of Army service while learning a useful skill. Enlistment qualifications for the loan repayment program are identical to those of the Army College Fund.

In addition to infusing funds back into the com-

munity, the Army returns experienced and reliable persons to the work force; students who are financially and professionally capable of completing their college education; and workers and leaders who are capable of making positive contributions to employers and communities.

Anyone interested in the Army College Fund, the Loan Repayment Program or other Army opportunities should call the Army recruiting station in north Huntsville 539-7431 or south Huntsville 882-1660. (News release from the Army Recruiting Battalion in Nashville)

# Veterans may have chance to reduce mortgages

The recent decline in interest rates may be good news for some veterans. Declining rates usually mean that high interest loans can be refinanced at lower rates. Often this will save veterans hundreds of dollars a month or thousands over the life of the loan.

Alabama has about 4,000 outstanding VA home loans with interest rates above 12 percent, according to Samuel Maraman, director of the Montgomery VA Regional Office. He estimates the balances on these mortgages at more than \$176 million.

To cite an example: If your original loan was \$50,000 and you had an interest rate of 12 percent for 30 years, your monthly payment of principal and interest is \$514.31. If the same loan amount were closed today at VA's current rate of 9.5 percent, the payment would be only \$420.43, a savings of \$93.88 a month or \$33,797 over 30 years.

In the above example, the benefits of refinancing occur most often when mortgage interest is reduced by 2 or more percent. The new loan may exceed the current VA interest rate (9.5) but must be lower than the existing mortgage rate the veteran is paying.

Also, veterans should be aware there may be

substantial closing costs involved. However, many mortgage lenders offer these loans with no out-of-pocket cost to the veterans. Veterans who currently have a high interest rate VA mortgage loan should consult their lender or local yellow pages for a mortgage lender who is active in this aspect of the VA home loan program.

The investment of your time may very well result in a belated Christmas present — a lower house payment in 1991! (News release from the Regional Office for Department of Veterans Affairs)



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### SPRING QUARTER REGISTRATION SCHEDULE

ADMISSIONS OFFICE — STUDENT CENTER

#### Early Registration for Returning Students

9:00 A.M. - 6:00 P.M.

Priority is Determined By Hours Earned At Athens College  
Priority Lists will be posted at various locations on Campus and Redstone Arsenal.

February 6, 1991 — PRIORITY I	February 12, 1991 — PRIORITY IV
February 7, 1991 — PRIORITY II	February 14, 1991 — PRIORITY V
February 11, 1991 — PRIORITY III	

Students Registering On These Dates Must Pay Fees By February 15, 1991.

**!!!ATTENTION NEW STUDENTS!!!**

New Students Entering Spring Quarter:  
Application Deadline — February 25, 1991  
Any Student Making Application After Feb. 25, Will Not Be Allowed To Register Until Late Registration: March 6, 1991.  
New Student Registration Spring Quarter Open Registration (Returning Students):  
Spring Quarter: March 5, 1991 — Fees Must Be Paid By: March 5, 1991

**LATE REGISTRATION DROP AND ADD**  
March 6, 1991: 1-6 P.M.      March 8, 1991: 9 A.M.-4:30 P.M.  
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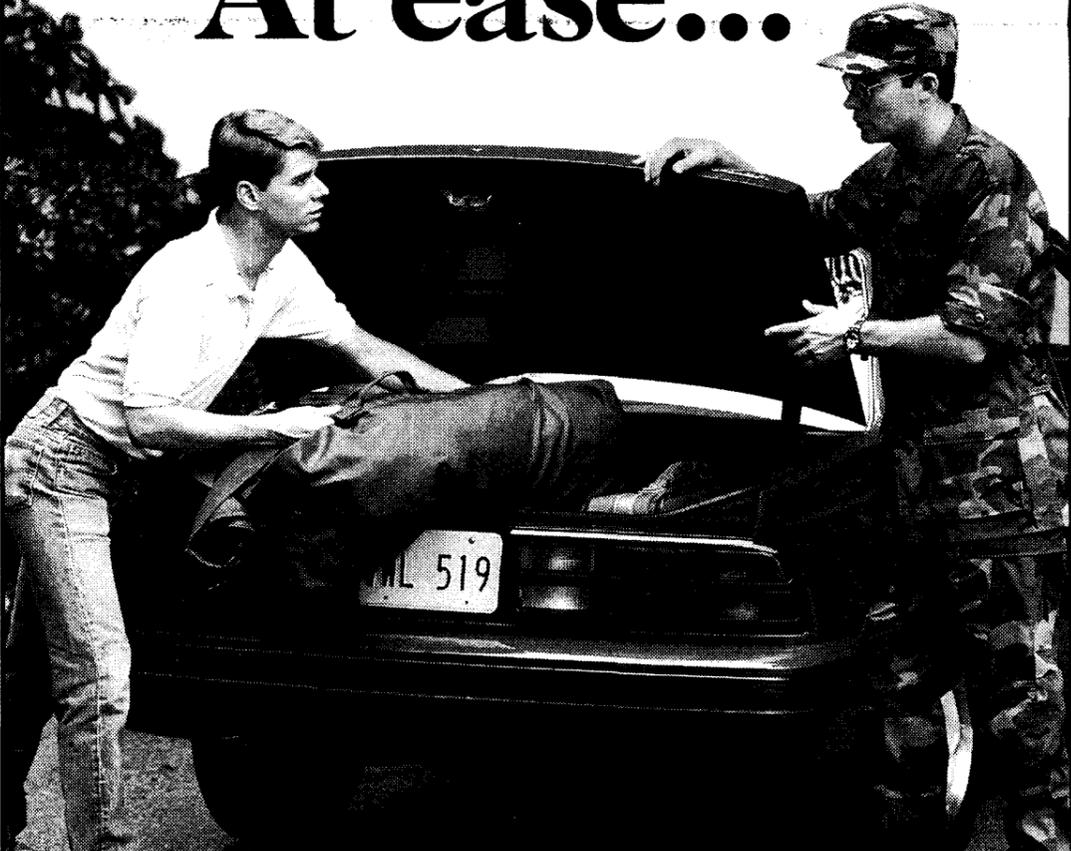
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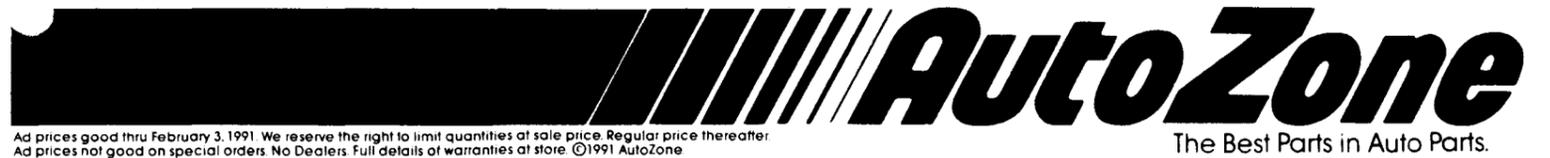
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# Announcements



## Road races

The fourth annual *Brotherhood Run*, a 10-kilometer (6.2 mile) race will be held 9 a.m. Feb. 16, beginning and ending at Pagano Gym. There will also be a 5K fun run. Trophies will be awarded for the 10K. Entry fee is \$8 before Feb. 1, or \$9 after that date; entrants receive a long sleeve T-shirt. For more information call CWO 2 Glen A. Smith 876-1672 or SFC Sam Locke 876-8648. The eighth annual *Engineers Run* 5K and 10K will be held Feb. 23 at the Rocket Auditorium. The 5K starts at 9 a.m., the 10K at 9:10 and the one mile fun run/walk at 9:20. Awards will be given to the overall male and female winners in the 5K and 10K events. Trophies will be presented to the first three in each age group, 5K and 10K, and to the three teams with the lowest combined times. All fun run/walk finishers receive commemorative ribbons. T-shirts will be given to all pre-registrants for the 5K and 10K. Registration is \$8 if postmarked by Feb. 16; \$10 thereafter and on race day. There is no charge for the one mile fun run. For more information, call Barry Peterman 955-5370. The 18th annual *Rocket Run* road races 10-mile and 5K will be held March 30 at Pagano Gym on post. The 10-mile begins at 8 a.m., and the 5K starts at 9:45. Entry fee is \$3 for either race or \$5 for both. For more information call Jim Upton 544-2945.

## Sport shooters

The Madison County Sport Shooters Association is sponsoring a Military Appreciation Weekend, Saturday, Feb. 16 and Sunday, Feb. 17. Unlimited use of the rifle/pistol range is being offered free of charge to all members of the armed forces, either active duty, reserve or National Guard (must possess a valid pink or green military ID card). Shooters should bring their own weapons and ammo and preferably targets; a limited number of targets are available for a small fee. For more information, call SSgt. Norm Ginty 876-1839/6689 or 379-4072.

## Command change

HHC, MICOM will have a change of command ceremony at 11 a.m. Feb. 8 at the Recreation Center, building 3711. All are invited. Capt. Lennie R. Upshaw will be assuming command from Capt. David L. Thomas.

## Garden clubs

The Willowbrook Garden Club will host the Feb. 6 meeting of the Federated Garden Clubs of Huntsville and Madison County at the Huntsville Botanical Garden. Coffee will be served at 9:30 a.m. with the meeting following at 10. "A Visit to Butchart Gardens" will be the program presented by Betty Spradley. The Butchart, which is located on Vancouver Island just outside of Victoria, is renowned for its colorful floral displays and for its extensive rose collection. Slides of the recent flower show, "Down Christmas Tree Lane," will be shown by Carlene Elrod. Federated Garden Clubs is a coalition of 16 area garden clubs.

## Retired officers

Huntsville Chapter of The Retired Officers Association (TROA) will hold its 26th installation of officers ceremony and banquet at 6 p.m. Jan. 31 at the Officers Club. Col. Lee McCormack, president of the Alabama Council of Chapters, is to be the installing officer; and Maj. Bert Bank, a survivor of the "Battalion Death March" and a past three-term Alabama legislator and state senator, is the scheduled guest speaker. Reservations are required. Call CWO 4 Henry Beall 883-8237 or Chaplain (Capt.) Eugene Keen 881-2269.

## Producibility conference

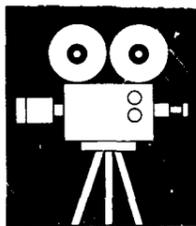
A DoD Tri-service sponsored conference on the Producibility of Infrared Focal Plane Array (IRFPA) Assemblies will be held Feb. 19-21 at the Rocket Auditorium. The objective of this conference is to bring together contributing experts from government, industry and producibility-oriented academia to address infrared FPA producibility issues in order to improve our national production capability. The agenda includes comprehensive coverage of the services' requirements and producibility programs, presentations addressing infrared FPA producibility, and open topical panels at the conclusion of each session. For more information, call Colleen Richmond at (313) 994-1200, extension 2821.

## Post Theater movies

Thursday — *Jacob's Ladder*, rated R, 113 minutes. Friday — *Nutcracker Prince*, G, 73 minutes. Saturday — *Predator II*, R, 108 minutes. Sunday — *Predator II*. Tuesday — *Rocky V*, PG-13, 109 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

## Tall club

Rocket City Tall Club, a social organization to promote friendship and fellowship among tall people, meets at 5:45 p.m. Wednesdays at the Classic Cafe, 5901 University Drive northwest. For information call 880-9061.



## Travelogue film

Huntsville Kiwanis Club invites you to its 27th year of "Travel and Adventure Series" motion pictures narrated in person by world travelers. The next film, "Finland — The Different Scandinavia," will be presented 7:30 p.m. Feb. 5 at the Huntsville High School Auditorium. Admission is \$4. Discounted season tickets are available. For more information, call 539-2817.

## Comptroller careerists

The next headquarters Department of Army accomplishment rating session for initial submissions of ACCES packages for Comptroller career program (CP-11) is scheduled for May. Completed packages — original and three copies — are due by April 1 in AMSMI-RM-MS. Changes or updates to ACCES (Army Civilian Career Evaluation System) can be submitted at any time. Packages received after April 1 will not be rated until the August session. No extensions can be granted. For more information, call Anita Hughes 876-6188; her location is room A-304, building 5250.

## Newcomers club

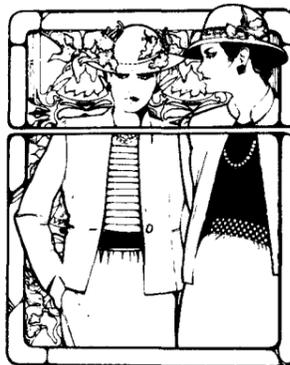
The Greater Huntsville Newcomers Club will have its get-acquainted coffee at 10 a.m. Tuesday, Feb. 5 at the Huntsville/Madison County Public Library, 915 Monroe St. Anyone who is new to the area within the past three years is invited to attend. The event is free, and reservations are not required. For more information, call 539-9346 or 881-7718. The monthly luncheon meeting will be held 11 a.m. Tuesday, Feb. 12 at the Huntsville Hilton; for luncheon reservations, send an \$8 check by Feb. 8 to Huntsville Newcomers, 2203 Magna Carta Place, Huntsville, Ala. 35803.

## Pistol match

Redstone Pistol Association will have its monthly range practice and match at noon Feb. 3 at Shields Range. Active-duty or retired military people are invited to participate. After the practice session, the match will begin about 2:30. For more information call SSgt. Carl Mathes 842-2321.

## MICOM hail/farewell

The Missile Command's "Hail and Farewell" will be held 4-6 p.m. Tuesday, Feb. 5 at the Officers Club. Hors d'oeuvres will be served, and cash bar(s) will be available. Honorees will include all military officers and civilian employees GS/GM-13 and above, who have joined MICOM within the three months preceding (October, November and December) and those scheduled to depart before March 29. For more information, call 955-4325.



## Officers wives

Officers Wives Club's coffee on Feb. 12 will be a Cottage Industry/Craft Day. The event will be held at 10 a.m. at the Officers Club. OWC members will show their products or crafts as well as offer items for sale. A finger food buffet will be \$4. RSVP by noon Feb. 8, cancellations by Feb. 11. Call after 2 p.m.: Elizabeth Bradshaw 837-3442 (for last names beginning A-H), Lawanda Blue 837-1957 (I-P), Judy Westrum 830-5287 (Q-Z and newcomers).

## ACS news

The next *Newcomer's Orientation* will be held 9-11:30 a.m. Feb. 4 at the Youth Center, building 3148. Family members are encouraged to attend. Free child care is provided on site. For more information, call Frances Howard of Army Community Service 876-2859/5397. ACS Education Committee meets at 7 p.m. Feb. 20 at Army Community Service, building 3491. For more information call Maj. Scott Wilson, the committee president, 876-8987 or Frances Howard 876-2859/5397.

## Dental clinic

The Redstone Arsenal Dental Activity will have a Saturday exam clinic for active-duty family members Feb. 9 at the Main Dental Clinic. For appointments, call 842-0139 from 7:30 a.m. to 4:30 p.m.



Call 876-1500 to place your free carpool ad.

## Arab/Morgan City

Carpool or ride wanted from Arab/Morgan City area to 3495 or 3300 area, hours 6:15-3 flexible. Isaac Hall 842-9813.

## Valentine dance

American Society of Military Comptrollers (ASMC) will have a Valentine Dance on Saturday, Feb. 9 at the Knights of Columbus on Leeman Ferry Road. Festivities will begin at 7 p.m. with hors d'oeuvres followed with dancing to the band Jericho. A cash bar will be available. Door prizes will be awarded during the evening. Tickets are \$12 each and must be purchased by Feb. 4. For tickets and information, call Jackie Clark 876-5274 or Debbie Christian 955-4927.

## Vehicle decals

All the old Redstone Arsenal decals — the one-piece decals that were applied inside the windshield — will expire this year for active duty, retired military and Department of Army civilians. Individuals should renew vehicle decal registrations during the month their decal expires. To renew the vehicle registration, the following actions are required: Write down the decal number. Remove the entire one-piece decal from inside the windshield. Turn in decal with recorded number to Vehicle Registration and Identification, building 3423. Show a valid driver's license. Also show a military identification card or security identification badge; then a new Defense Department vehicle decal will be issued.



## Youth activities

Here's a listing of activities at the Youth Center for the upcoming week. Today, *Cheerleading day*, 4 p.m.; *Arm wrestling contest*, 7 p.m.; Thursday, *Spades competition*, 7 p.m.; Friday, *Preteen dance contest*, 4 p.m.; *Doubles pingpong*, 7 p.m.; Saturday, *Movie day*, 11 a.m. and 5 p.m.; Monday, *Bingo*, 3 and 6:30 p.m.; Tuesday, *Barbie doll contest*, 4 p.m.; *Dodge ball*, 6:30 p.m. Gymnastics and Karate are taught every week. All programs are for military children only. For more information call 876-KIDS.

# Carpool Hotline

# classifieds

Federal law makes it illegal to advertise any preference, limitation or discrimination in housing based on race, color, religion or national origin. The REDSTONE ROCKET will not knowingly accept advertising that is in violation of the law, and readers and advertisers are hereby informed that all dwellings advertised in this paper are available on an equal opportunity basis.

According to the Inspector General, the use of office phone numbers in classified advertising is contrary to regulation. Please submit home numbers only.

**WOMEN'S UNIFORMS FOR SALE:** Class A's, size 14, \$75, excellent condition; Dress blues, size 14, worn once, hand tailored, \$100. Also several shirts, pants and a skirt, sizes 12-14, \$10 each; Saucer cap, size 22½, \$15; Pumps and low quarters, size 9½-10, \$10 each. All in excellent condition, worn for a very short time. Must see. Call 461-8181.

**FOR SALE:** Beautiful white lace wedding gown with heart shaped neckline and chapel length train. Includes veil with blusher. Approximate size: 10 (may be altered). Asking \$175. 461-8181.

**FOR SALE:** Cub Cadet Hydra, 18 hp, twin cylinder Kohler engine, power steering, hydraulic lift, 60" heavy duty mower, bought 9/89 for \$5200. Sell for \$4000 or \$1000 and assume payments of \$108/month. 837-6664.

**FOR SALE:** 1975 blue Oldsmobile Omega. 260, V-8, runs but needs engine work. \$250 or best offer. Call 533-3245 or 852-9764 (RM 402), Jeanie Winston.

**FOR SALE:** Heavy duty washer and dryer. \$180 each. Call 837-9306.

**FOR SALE:** 1983 Ford Escort. '87 motor, new brakes, tires, paint, master cylinder, muffler, battery and tune-up. Runs great, good transportation car. Call Athens 1-230-0144 after 6 p.m. weekdays, anytime weekends. \$2000 or best offer.

**FOR SALE:** 1985 Dodge Shelby Charger. Intercooled turbo, 2.2L, excellent condition. To be a classic, with a limited number made. Many extras. \$3900. Call 379-4348.

**FOR SALE:** Two 8½ week old puppies. German Shepherd and Border Collie mixture. Both have had first shots. One male and one female. \$25 each. Call anytime, 776-4527.

**FOR SALE:** 1987 Acura Integra LS. 5-speed, one owner, blue, 5-door, fully loaded, cassette equalizer. Unlimited mileage dealer warranty thru June 1991. All maintenance check-ups performed; all changed every 3000 miles; never wrecked. (Have company car, don't need Acura anymore.) \$8150 or best offer. Call 883-1510 after 6 p.m.

**HOME NEEDED:** Looking for a loving home for 20-pound grey Maine Coon cat. Prefers females. Has been neutered and had all vaccinations. Call after 5 p.m. and weekends, 772-0578.

**UNIFORMS FOR SALE:** BDU's, sizes small-regular (in excellent shape), \$15/set; and medium-short (good condition), \$12.50/set. Long black woman's raincoat/overcoat, calf length, 42L, \$20. 461-8181.

**FOR SALE:** 1968 VW. New Baja kit installed, new paint, rebuilt 1500cc motor with less than 400 miles, new battery. Redone inside, tires and mags. Sharp and clean. Call Athens 1-230-0144 after 6 p.m. weekdays, anytime weekends. \$2000 or best offer.

**FOR SALE:** 1979 Ford Conversion Van. Captain chairs, new starter, alternator, paint, heavy duty C6 transmission, large radiator, new brakes, front tires, front end work plus alignment. Just tuned-up. Western van, no rust out. Call Athens 1-230-0144 after 6 p.m. weekdays, anytime weekends. \$3200 or best offer.

**FOR SALE:** 1985 Honda Accord LX. 4 door, 54,000 miles. \$5500. Call 883-9797.

**FOR SALE:** 1980 Toyota Celica. Automatic, air, power steering, am/fm/cassette, wire wheels. New brakes, good tires. \$1195 or best offer. 859-3821, leave message.

**FOR SALE:** 1987 Honda Accord LXI. White, 3 door hatchback. Automatic, loaded. 37,000 easy miles. Excellent condition. Clean car. \$8450. Call 883-9073.

**FOR SALE:** Chevrolet Silverado pickup. 1991, extended cab, SWB, MT, 350CID, bed liner, loaded. Very low miles. \$16,600. Phone 539-3452.

**FOR SALE:** 1989 Mitsubishi Galant LS. Automatic, air conditioning, full power accessories, sunroof, light brown color, 13,500 miles, excellent condition, RFCU loan value \$12,200, asking \$11,250. Call 539-8011 after 5 p.m.

**FOR SALE:** 1946 Willys Jeep CJ2A. 4 cylinder Chevrolet engine, 12 volt, Buckshot tires, new red paint, roll bar, tow bar, extra set of tires, excellent condition and runs great, asking \$1600. Call 539-8011 after 5 p.m.

**FOR SALE:** 1986 Chevrolet Cavalier Z-24. New dealer installed engine, cooling fan, alternator, starter, front brakes. Automatic, air conditioner, am/fm cassette, cruise, tilt wheel, luggage rack, sunroof, and more. Very well kept, adult driven local car. Asking \$3650. Call 851-8278 after p.m.

**FOR SALE:** Contemporary couch and matching chair, green and rust floral, solid wood frame, good condition, \$120. 883-4118.

**FOR SALE:** 1980 Oldsmobile. 4 door, black, low mileage, good condition. \$1500. Call 852-1358 or 259-0269 (Scottsboro).

**FOR SALE:** Yamaha E-10 console organ, full pedal-board, excellent condition. One-owner, used at home but powerful enough for church use. \$6500 new, sell for \$1400. Call 881-2066.

**WANTED:** Outside storage building, small freezer, full size mattress and box spring, firm. 830-8368.

**FOR SALE:** Twin beds, maple, wagon wheel design, \$25. Includes footboard, headboard, and frame. King size mattress, Posture Bond King Coil, \$100. Phone 830-8368.

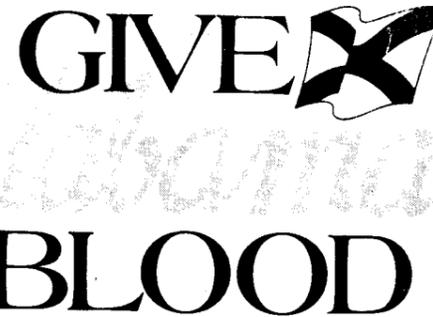
**LOST:** Man's gold wedding band. Intersection of Goss and Vincent. Phone 830-8368.

2105 Byrd Spring Rd. SW  
VA Gov't Home,  
\$63,000. Low down,  
closing paid. 9.5%, Vets,  
Non-Vets, Investors,  
too. William or Bettye  
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**WIGINTON REALTY,**  
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All areas.

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Target Bond Money,  
8.2% or Reg. FHA or  
VA, 9½%. Owner  
ready to go. \$34,300. 2  
Bedroom, New central  
heat/air. William,  
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People call you.  
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Ext. FON133.  
\$.99 per minute.

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Gives you the opportunity to re-fashion your career. If you enjoy working with cosmetics and fragrances, come work with us at our counter at Redstone Arsenal, 30 hours per week. Highly motivated candidates with selling background preferred. Send resume with salary history to: Ms. Gena Shreve, 3106 Westbury Dr., Raleigh, NC 27607. NO PHONE CALLS PLEASE.



## HALF A DOZEN WAYS TO EARN AN EARLY RETIREMENT.

1. Eat high-fat, high-cholesterol foods.
2. Smoke.
3. Ignore your high blood pressure.
4. Heavily salt everything you eat.
5. Put on extra weight.
6. Stop exercising regularly.

Follow these steps and you could retire from work, and from life, sooner than you planned.



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*Each picture is the best it can be or we reprint it free...now!*

Offer applies to one-hour prices. No limit on number of rolls discounted. 4x6 color prints (print length varies with film size). First set of prints only. C41 in lab process, not combinable with other processing and print offers.

**Coupon good through April 27, 1991**

**CPI photo finish**  
one hour photo

### One-Hour Services:

photo finishing • enlargements  
reprints • double prints

### Also Available:

wallet photos • film  
instant color passport photos  
video transfer  
copies from prints  
cameras and accessories  
E-6 slide processing

**Madison Square Mall**  
across from Morrison's Cafeteria

## HOW TO PLACE A REDSTONE ROCKET CLASSIFIED AD

The REDSTONE ROCKET provides the ROCKET CLASSIFIED section as a FREE service to active duty military personnel and army civil service personnel. These FREE classifieds are limited to personal items for sale only, to include yard sales, animals, household items, automobiles, clothes, lost and found items, etc.

**REAL ESTATE IN ANY FORM, BUSINESS, AND "FOR PROFIT" DO NOT QUALIFY FOR THIS FREE OFFER.**

To place a ROCKET CLASSIFIED ad:

Type or legibly print a brief description of what you want to sell on an 8½ x 11 inch piece of paper (no 3 x 5 cards or torn paper will be accepted).

Only home numbers will be listed in the advertisement. No office phone numbers will be accepted. Sign the ad, and list the following identification: Building number, badge number, and work phone.

The deadline is 5 p.m. on Friday before the Wednesday publication. FREE ADS will run for one week only. You may submit them.

Real estate classified ads for civil service and active duty military personnel is \$5.75 for 20 words or less, and .06 for each word thereafter. To place a real estate classified follow the instructions above for FREE classified ads, and enclose a check, money order, or a VISA or MC number with expiration date, sign your name under these numbers. The Redstone Rocket does not bill classified advertising, nor do we accept classified advertising over the phone. No work numbers are permitted in advertising of Arsenal Personnel, home phone or off post numbers only may be submitted.

**FOR COMMERCIAL CLASSIFIED RATES CALL 539-3980.**

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

The Redstone Rocket is not responsible for typographical errors or for omissions in FREE CLASSIFIED ADS. Classifieds will be published as space permits. First come, first served basis.

If you submit more than one classified at a time, place each one on a separate piece of paper.

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

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10W30 • 10W40  
20W50 • HD30

**Havoline Motor Oil**  
10W•40

Performance Proven  
Helps Keep Engines Clean

**HAVOLINE Oil**

**47¢**  
Quart.  
After Rebate

Limit 12 Quarts

Texaco Rebate  
Good through  
January 31st.

**Multi-Purpose Automatic Transmission Fluid**

Western Auto

**Western Auto ATF**

**97¢**  
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Limit 6 Qts.

Type F or Dexron II

**FRAM**  
Wearguard  
OIL FILTER

**FRAM Oil Filters**

**1.97**  
Domestic  
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Import Filters...2.27

In-Store Price.....3.47  
Mail-in Rebate .....1.50

**Anti-Freeze & Summer Coolant**

Western Auto A/F

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After Rebate

Limit 2 Gallons

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HALOGENS	NON-HALOGENS
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Capsules.....9.88	Rect., 2-Lamp..5.88

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Reman. Domestic.  
Alt. w/o regulator.  
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**18.88** Exch.

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With Internal Regulator.....24.88 Exch.

**CHAMPION Spark Plugs**

Standard, resistor type at one low price. Limit 16.

**79¢** Each

### TIRES AND BATTERIES INSTALLED FREE!

50,000 MILE Classic All-Season	35,000 MILE Deluxe All-Season	45,000 MILE All-Season Radial	60,000 MILE Ultra 775 All-Season																																																																																																																																																									
<b>CLEARANCE PRICED AS LOW AS... 24.75</b> 155-13	<b>4 TIRES FOR \$59</b> P155/80R13	<b>4 TIRES FOR \$79</b> P155/80R13	<b>4 TIRES FOR \$119</b> P155/80R13																																																																																																																																																									
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We reserve the right to limit quantities. Tire assortments vary by store—all stores can order any advertised tire for you at these prices. Some tire sizes may be back-ordered from the manufacturer. Tire sizes other than those advertised may be available for special order at additional cost. Complete details in store.

<p><b>TOUGH ONE 65</b></p> <p><b>37.99</b></p> <p>With Trade Built By Delco!</p>	<p><b>TOUGH ONE 675</b></p> <p><b>47.99</b></p> <p>With Trade Built By Delco!</p>	<p><b>DieHard</b></p> <p><b>59.99</b></p> <p>* With Trade DieHard Gold. Up To 900 CCA...79.99*</p>
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HUNTSVILLE 10035 Memorial Parkway South 882-3303

HUNTSVILLE 4949 University Drive Northwest 722-0150

DECATUR 2115 Sixth Ave. Southeast 340-1930

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