

Redstone Rocket

Vol. 40 No. 9

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March 6, 1991

God bless this great country of ours

Redstone community can take pride in the wartime support it provided

Each and every member of the Redstone Arsenal community shares in a great victory today.

The real credit of course goes to the soldiers, Marines, sailors and airmen of this country and of the other countries of the allied coalition who fought to drive Iraq from Kuwait.

But they were supported by members of this community and of many communities like this one. This Army community — all the military people, the family

members left behind, the federal civilian employees and the contractor workers — closed ranks to provide the support necessary to get the job done.

Vivid images come to mind from the months since the U.S. deployment began in August. A young Ar-

my medic, preparing to deploy to Saudi, relates with tears in his eyes how his young son told him he would cry every day until his father returned. The military and civilian employees working around the clock in the Missile Command's emergency operations center to ensure the MICOM weapon systems were in place and ready to be used in the Persian Gulf. The soldier, a member of the 95th Maintenance Company (TMDE), standing in line to be processed for overseas replacement — potential deployment to Saudi — and telling about how waiting was the difficult thing, how he just wanted to get over there and get the job done. The logistic assistance representatives, civilian workers

technical expertise, enduring the same hardships the soldiers endured in Saudi Arabia. The many activated Reserve and National Guard members leaving home to provide support needed for the military operation. The members of the chaplains' family support group making bows of yellow ribbon to show their support for the deployed servicemembers. The list of images which will last a lifetime goes on and on.

Our missile systems worked well in battle just as we knew they would. The Patriot air defense system performed admirably in defending against Iraqi Scud missiles launched toward Saudi Arabia and Israel. Our other systems — the Multiple Launch Rocket System, TOW and Hellfire, just to name a few — played a major role in Iraq's defeat.

Various organizations here did their part to support the effort. Some members of the Missile Logistics Center worked around the clock. The chaplains provided spiritual support and planned activities for the soldiers and Marines who could not go home for the holidays due to cancellation of the annual Christmas exodus. Army Community Service provided financial assistance and help in other areas for families affected by the deployment. The provost marshal office stepped up security to prevent possible terrorist acts. These are only a few examples of support provided by organizations here.

Often this support was done without recognition. Many times people worked overtime without being asked to do so, just because they knew the extra effort was needed. Many times they toiled without a word of thanks for the role they were playing in supporting the war effort; they can be forgiven if they felt ignored or unappreciated.

Let this victory be a source of personal satisfaction for us all — each and every member of this Army community. We all had a job to do to support our servicemembers fighting the war. We did it and we did it well.



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TOW system helps defeat threat posed by Iraqi tanks

BY SKIP VAUGHN

The TOW anti-tank missile system did its part in bringing about the end of the Persian Gulf War.

The project office here that manages this system expects to be getting feedback on how well TOW performed. Last week, as the war drew to a successful conclusion, the project manager did not have any specifics — how many tanks were destroyed by his system, and so on — but said what news has been available since the war started has been positive.

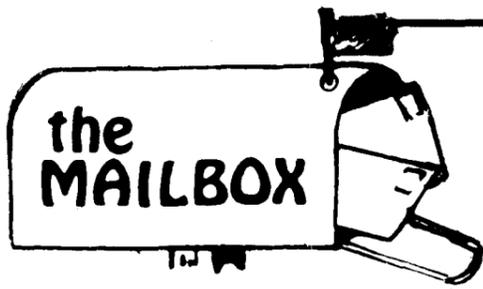
"We haven't been able to get much feedback on what's been happening with our system," said Col. Jack Conway, the TOW project manager. "I guess the good news part of it is we haven't had any bad news."

Many Army and Marine elements had the system in the Persian Gulf. Because of the large Iraqi armored threat, the system was deployed with some of the first units in Saudi: the 82nd Airborne Division, the 24th Mechanized Division and the 101st Airborne Division. Forces of other countries, including Saudi Arabia, also have TOW at their disposal. Conway said "thousands of missiles and hundreds of launchers" were deployed with the U.S. forces.

"I'm confident that it's played a key role in the war just because of the nature of the system, the quantities of missiles and launchers, and the availability of the system," he said. "As we get feedback, I hope we learn TOW lived up to everyone's expectations."

(See TOW, cont'd on page 2)





Fashion show

Editor:

I would like to take this opportunity to thank Redstone Arsenal and the Huntsville community for showing their support for the fashion show which was held Feb. 23 at the Challenger NCO Club in honor of Black History Month. With more than 900 people in attendance, it was standing room only.

Many thanks to all participants who worked so diligently to make the 1991 Black History Month Fashion Show a huge success.

Sandra Lyles-Jackson

Editor:

I would like to commend the persons responsible for bringing to the community for Black History Month at Redstone Arsenal an outstanding aura of fashion and entertainment which was very successful. I have never seen a crowd as the one on Feb. 23 for a fashion show. Once again, congratulations on a successful show.

Teresa Harris
Information Management Directorate

Trimming the rolls

Editor:

I sent the following information to my congressman. I suggest that agreeing readers clip it out and endorse to their congressperson and send to at least five of their DoD associates. Congressman Bud Cramer's address is 1431 Longworth Building, Washington, D.C. 20515.

This letter is about the bill being pursued by Rep. Barbara Boxer, D-Calif., and others of your colleagues. The bill provides incentive for voluntary reduction of the Department of Defense (DoD) civil service rolls by those people who are already at or within five years of retirement eligibility.

As you know, the number of civilian employees in the DoD is scheduled for significant reduction over the next several years. There are three ways which such a reduction usually takes place. The first is by attrition, which, because of the extremely large numbers involved, will not be able to handle the load.

A second means is to allow an "early out" without incentive, which, based on recent history, would not likely result in appreciable reductions. The third, and the most disruptive, is a Reduction in Force, which by brute force can achieve all the reduction necessary. Of the three existing methods of reducing the numbers of

DoD civilians on board, the only one that can be relied upon to do the job is a RIF, but at what price?

A RIF generally "fires" only those younger workers, those with children still at home and who have all the attendant financial obligations... those who can least afford to be out of work. A RIF, on the other hand, retains those older workers, many of whom are already, or soon will be, eligible for retirement and, because of their generally reduced financial obligations, could approximate their current living standards on their retirement annuity.

Not only would a RIF impose a problem to the individuals RIFed, but it also would pose an equal or probably greater problem to the organizations undergoing a RIF. The younger employees in the organization will be greatly reduced, and because of inevitable hiring restrictions, we will be unable to pull in other young blood as older employees enter into retirement. Without the ability to infuse new blood, much of an organization's vitality would be jeopardized.

Inherent in a RIF is the mass reassignment of people as a result of "bumping." For each person retained on the rolls, but displaced to another job, several others can be affected by the attendant bumping process. Mass turnovers of people and reassignment of jobs is a downer to morale, as people are moved to unfamiliar assignments, and even worse, if they are moved "out the door." The efficiency of the organization is likewise impacted in that so many of the work processes will then be accomplished by people not yet intimately familiar with the new position to which they are assigned.

The bottom line in a RIF situation... nobody wins; those put out the door, those moved to unfamiliar jobs, and management who now must contend with a less efficient organization.

Rep. Boxer has, no doubt, considered all this and more in the formulation of her proposed bill. We at Redstone Arsenal, as well as all DoD employees, have viewed her bill with much interest and support as a logical means of gaining the projected personnel reductions without incurring the negative effects of a RIF. Her bill would provide an incentive attractive enough that a near unanimous acceptance could be projected among those who would be eligible.

Her bill would provide for a continuance of a normal flow of people through an organization, in at the bottom, out at the top. It would allow retention of our young blood, most especially the hard-to-come-by young, technically oriented employees, such as engineers, mathematicians, scientists and the like. It allows a person to be removed from government employment by that person's choice rather than by the dictates of the system.

The bottom line in the situation created by Rep. Boxer's bill... everybody wins; those who leave by choice, those who have avoided being put out the door, and management who now would have a considerably less disrupted and, therefore, more efficient organization.

With all the advantages of her bill, the only thing that might seem a negative factor might be the cost. But, is it? The bill would provide an additional five years service credit for those affected by it. That translates to an additional 10 percent (2 percent per year) of the high three year average salary. This seems like a lot since the 10 percent applies for the rest of the annuitant's life. In reality, however, the only added cost is that 10 percent received during the first five years; in that if the employee remained employed for that five years instead of accepting retirement, the employee would then be eligible for the added 10 percent anyway.

If we assume a hypothetical average salary of \$40,000 for those affected, the 10 percent would be \$4,000 per year, or \$20,000 for the five year period. The annuitant would receive somewhere in the neighborhood of 65 percent of his/her salary in retirement, or \$26,000, a reduction of \$14,000 per year. Over the five year period that amounts to \$70,000. So the incentive costs \$20,000, but it saves \$70,000, a real savings of \$50,000.

If one were to conduct a detailed, all inclusive, cost analysis, other factors would also have to be considered, such as the fact that there would be some promotions of the younger employees to fill the voids created by the retirements. Even so these promotees would earn a lower salary than the retirees being replaced. There would also be some offsetting savings, such as severance pay and other items associated with a RIF that would be avoided. All in all, I believe that the savings would turn out to be more than the cost, or, at worst, a push.

All of this is to say that I believe Rep. Boxer's bill offers every advantage and no identified disadvantage. I and, I believe, the great majority of your federally employed constituents, strongly support this bill.

Henry Fail
Missile Logistics Center

Sign your letter

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TOW

(Cont'd from page 1)

There were news reports that the Marines used TOW with success during the early stages of ground-fighting before the actual ground war began. The Marines have the system mounted on helicopter and on their light armored vehicles. The Army has the system mounted on the High Mobility Multipurpose Wheeled Vehicle, on the Bradley Fighting Vehicle, on the Improved TOW Vehicle, and on the Cobra helicopter.

"TOW is a heavy-assault weapon designed for the infantry primarily," Conway said. It is an anti-tank missile which is capable of destroying "all the known tanks" at a range of more than two miles.

The ground TOW launcher includes an optical sight, a missile guidance set, a tripod stand, a traversing unit and a launch tube. The missile itself is 4 feet long and a little more than 6 inches in diameter. A night sight enables the operator to see and fire the missile at night, through smoke, haze and so on. The night sight is mounted on top of the optical day sight. The ground launch system, with the tripod removed, can be mounted atop a pedestal on a vehicle.

The Improved TOW Vehicle or ITV uses the same components but mounts the system on a different rig, enabling the gunner to stay inside the vehicle and look through a different sight system. For the Bradley Fighting Vehicle, another version is used in which the TOW sight is part of an integrated sight that also acts as the sight for the 25mm gun. Similar technology, but a different version of TOW, is used on the Cobra helicopter. Other countries have the system mounted on other types of helicopters.

In Saudi Arabia the system was represented by high mobility multipurpose wheeled vehicle with the light forces, the Bradley Fighting Vehicle with the heavy

forces, Improved TOW Vehicle with some of the forces, and the Cobra-mounted version.

"It's 25 years old now," Conway said, referring to the history of the system. Basic TOW was designed in the 1960s. The Improved TOW missile was designed in the late 1970s to give the system additional lethality. In the early 1980s the TOW 2 missiles and launch system were developed, adding even more lethality and countermeasure protection.

"And then in the late 1980s, we went to the TOW 2A which gives the capability to defeat reactive armor. Now, we're entering production on the TOW 2B which will give us additional capability against future armored threat," Conway said. "By next fall, we'll be ready to start shipping 2Bs to the field."

Hughes has been the prime contractor since the beginning. "There's been a number of other producers of different pieces of the system at great savings to the government. Major contractors have included Emerson Electric and Texas Instruments. Early in the program, some missiles were made by Chrysler. Most of the missiles have been made by Hughes," Conway said. "The missiles are made at Hughes-Tuscon (Ariz.). Our systems engineering contractor is Hughes from Canoga Park, Calif., and El Segundo."

The project office is under the program executive office for fire support. There are about 120 members, including about 12 military people. Gerald Smith is the deputy project manager. Lt. Col. Steve Ansley and Lt. Col. Paul Pinkerton are product managers; and Lt. Col. Dave Colkett, assistant project manager.

"We're in the process of entering into the development of a sight improvement program which will give us an even better capability to detect targets at greater ranges and provide much more system capabilities out to the max range of the TOW missile system," Conway said.

THE REDSTONE ROCKET

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Hellfire gets the job done in Persian Gulf War

BY SKIP VAUGHN

The Hellfire missile system is among the unsung heroes of the Persian Gulf War.

"I'd be willing to bet that Hellfire was the first Army system utilized and may have in fact been the first (of) any system used in Desert Storm," said Hellfire Project Manager Col. Robert Huston, "because they used Hellfires in air defense sites to provide a path for the Air Force to get into their targets. And from the results of the first day of the war, you can tell that was a very successful use of Hellfires."

Hellfire is primarily an anti-tank weapon to be fired from the Army's Apache helicopters and Marines' Cobra helicopters. Because the system is laser-guided, and therefore can ensure accuracy from great distance, there are other types of targets which Hellfire has been used on. This included Noriega's command headquarters during Operation Just Cause in Panama.

In the Persian Gulf War, the system was deployed with Army units and Marine units. An Army OH-58D helicopter used Hellfire to sink a 60-foot Iraqi boat in the Gulf during the ground war, according to Rick Shingler, the deputy project manager.

Huston did not give specific numbers but said hundreds of helicopters were armed with thousands of Hellfire missiles for the war. "Because of the classified nature of the operations, Hellfire wasn't getting much notoriety as it was going on. It's definitely one of the many unsung heroes of the campaign," Huston said.

"Hellfire is a helicopter-launched, anti-tank missile; a laser guided missile," he said. "And it has an operational range of 7 to 8 kilometers (about four and a half miles). A launcher carries four missiles. And an Apache can be configured to carry two to four launchers, so one Apache can carry a maximum of 16 missiles at a time.

"The missile can guide on a laser designation from the firing helicopter or on laser designation from a remote helicopter designator or from a ground laser designator," Huston said. The main components in-



APACHE IN ACTION — An Apache helicopter fires a Hellfire missile which is guided by laser to its target.

clude the helicopter fire control system, the launcher and the missile. The missile is 64 inches long, 6 inches in diameter and weighs 100 pounds.

Hellfire Project Office formerly also had responsibility for the ground laser locator designator, but the laser designators are now under the auspices of the Weapon Systems Management Directorate.

Based on a decision by the secretary of the Army and the assistant secretary of the Army for research, development and acquisition, Hellfire Project Office will soon become the Air-to-Ground Missile Project Office. Huston expects the name change to occur in March.

The system dates back to the mid-1970s. Production began in 1983, and the first fielding occurred in 1985. Originally, the cost per missile was about \$50,000; but, through competition — "we got smarter," says Shingler — the cost today is half as much, \$25,000.

There were two prime contractors, Martin Marietta and Rockwell International, until this year. Rockwell is the sole producer now. And Martin is doing research

and development on future variants of Hellfire, according to Huston.

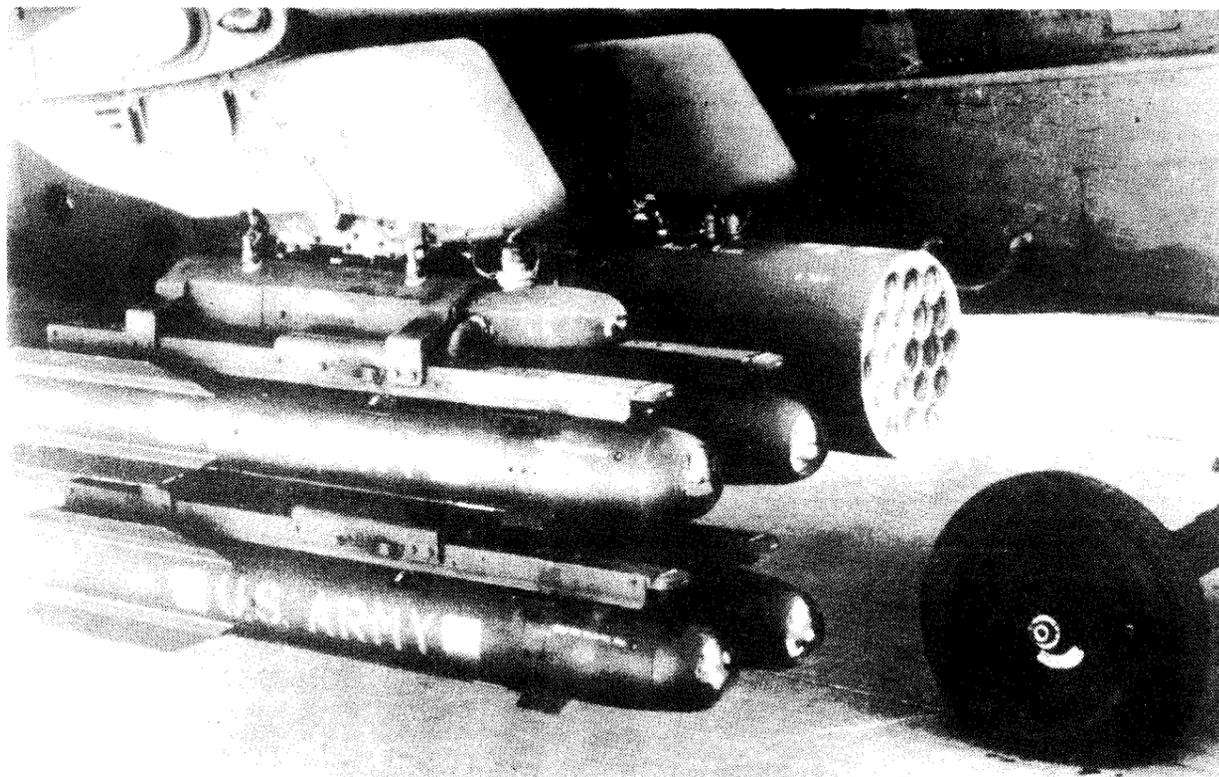
The project office consists of about 85 people, including six military members. "We sent some teams of our people over to Southwest Asia, to Saudi Arabia, during the war," said Shingler, the deputy project manager. Two two-member teams from Rockwell went first, and got back the day before hostilities began. Next the project office sent a two-member team consisting of a Rockwell technical representative and a soldier, Maj. Matt Barnett. Barnett, test officer in the project office, was sent to establish improved communications with the tactical units and to help solve any potential operational or logistical problems the units might have. Barnett came back just before the ground war started. The contractor representative remained to help with any problems that might occur in "stand-down" of the units, according to Huston.

Besides Huston, the project manager, and Shingler, the deputy, other leaders of the project office include Mel Waters, chief of logistics management division. Waters and his section, including Larry Justus, stayed busy working the logistics of the Southwest Asia effort. George Starkey is chief engineer at the project; Carl Covan is chief of program office; and Rhett Farnior serves as assistant project manager for product assurance, tests and configuration management.

Hellfire's future looks productive. "The contract that Rockwell has right now is for an improved version of Hellfire to be more effective against tanks with reactive armor. It has a precursor warhead in front of the main warhead. That will be in production for two years," Huston said. "That will be fired by what we call the Hellfire Optimized Missile System (HOMS) which will be even more effective against future threats. Also, in research and development is Longbow Hellfire missile which will be the first fire-and-forget Hellfire missile, using millimeter wave technology."

"While Hellfire is currently an air-to-ground system, the Army is exploring the use of it from ground based systems such as HMMWV (high mobility multipurpose wheeled vehicle) and Bradley carriers," Shingler said. "And the Navy has a development program under way to mount it onboard ship for a ship-to-ship mission."

Sweden uses Hellfire from a manportable tripod launcher configuration for shore defense missions. Israel also has Hellfire. Contracts provide for Egypt to obtain the system within a couple of years. "There's a whole host of countries looking at it (Hellfire) right now," Shingler added.



TENT CARGO — Hellfire missiles are mounted on an Apache helicopter. Other types of helicopters also use the system.

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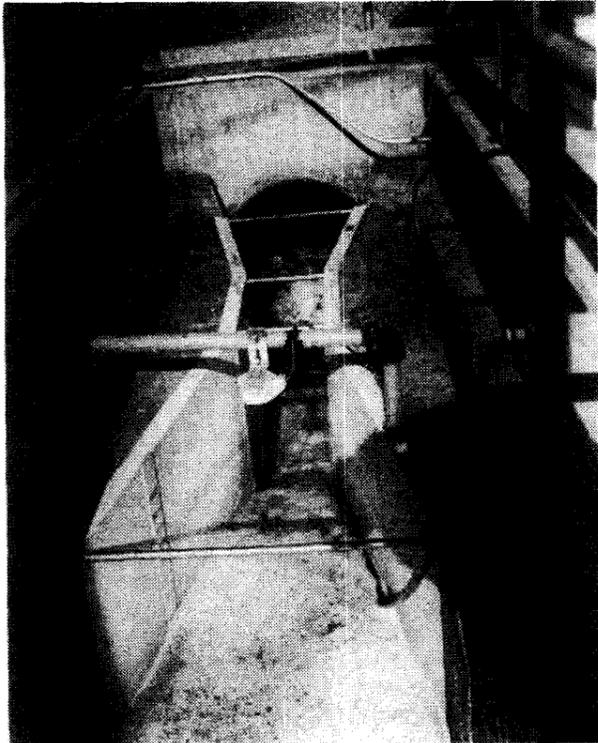
SUBWAY
My Way!

Redstone activates new ultraviolet treatment facility

BY PAM ROGERS

Redstone now has a new ultraviolet disinfection system that will remove residual bacteria from treated wastewater before it is released into the Tennessee River.

The Alabama Department of Environmental Management last July cited the Arsenal for releasing



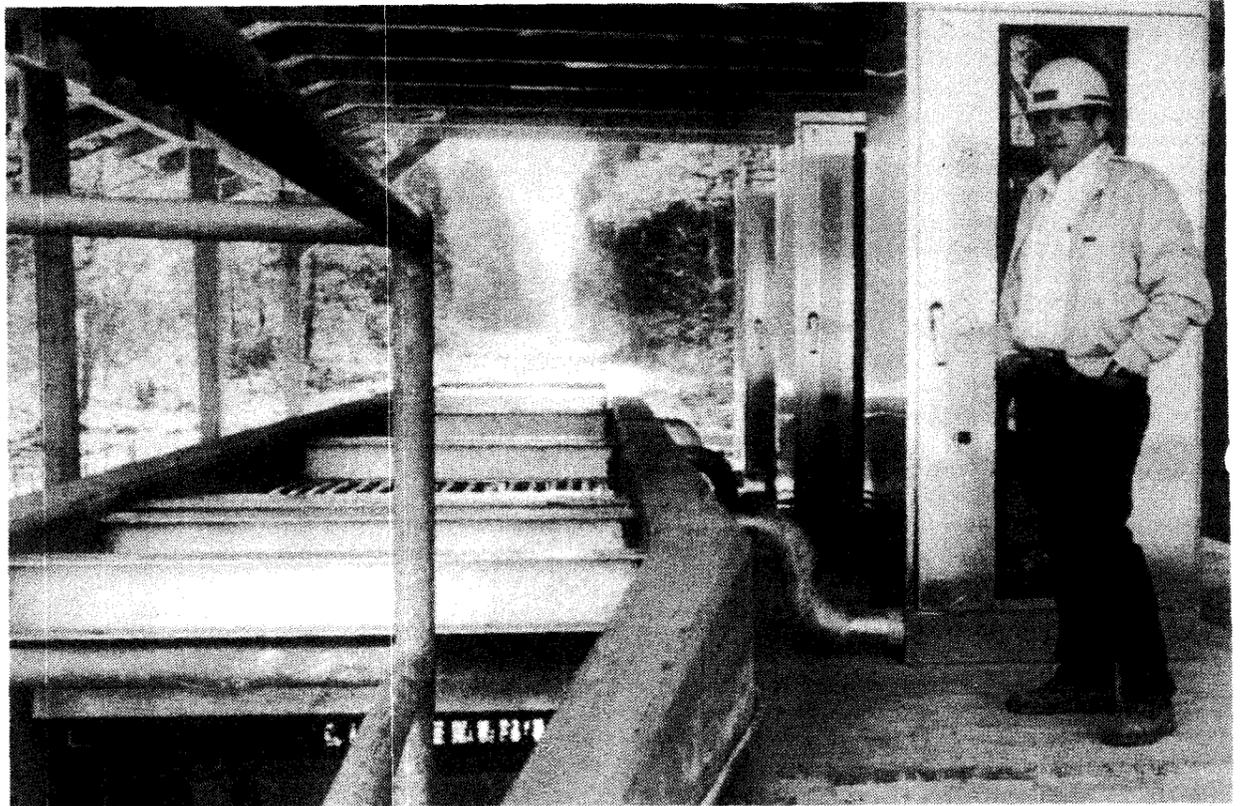
TEST STATION — UV-treated water is sampled before it is released to pipeline which ends at Tennessee River.

amounts of bacteria and chlorine that exceeded limits required by the state and by the Environmental Protection Agency. ADEM gave Redstone 240 days, or until March 10, to remedy the situation or face fines of \$25,000 per day and possible criminal penalties.

The UV system was installed to replace three chlorination systems that were part of the Arsenal's existing sewage treatment facilities, according to Bill Schroder, an environmental quality coordinator for the Missile Command's Environmental Office.

The new treatment system was required "because the chlorination systems could not treat the effluent at the outfall to limits required by ADEM under our National Pollutant Discharge Elimination System permit," he said. An NPDES permit is required for every sewage treatment plant in the United States.

The facility went on line Feb. 15, and since that date fecal coliform bacteria levels in water released to the river have been as low as zero. Previous levels were



NEW FACILITY — Schroder stands beside the tank which contains ultraviolet bulbs. Behind him is control equipment.

substantially higher than the 200 colonies per milliliter limit set by ADEM.

The workings of the facility appear simple. As water passes through a concrete trough, it's bathed in the light emitted by hundreds of ultraviolet bulbs. Each bank contains 136 light bulbs and there are three banks of bulbs.

It's not just a matter of letting water through, however. Water flow rate and depth are continuously monitored, and UV lights are turned on and off automatically, depending on how much water is flowing through the system. Water samples are taken automatically 24 hours a day and measured for bacterial levels. Each bulb in the system is monitored individually for intensity.

The facility can effectively treat up to 9 million gallons of water per day, which is the current maximum of sewage treatment facilities on post. Since the UV equipment was activated, it has been treating around 6 million gallons per day, Schroder said.

"This is the best available technology," Schroder said, adding that as this technology becomes more readily available, it probably will be applied to water purification facilities.

There is still some construction work to be done on the UV facility, but "the main thing is to meet the per-

mit limits," Schroder said. The unit was designed by BAMS, the installation support contractor, and was built by Blevins and Pritchett Construction Inc. of Birmingham. The components were manufactured by Trojan Industries, based in Ontario.

The facility, which was installed for \$440,000, can also be used in conjunction with a new sewage treatment plant that will be built on Buxton Road southwest of the MICOM Finance and Accounting Office.

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Servicemembers going to Nashville for televised tribute

BY SKIP VAUGHN

Soldiers and Marines from Redstone Arsenal will appear in a nationally televised tribute to the armed forces March 18 on the Nashville Network.

The 100 servicemembers, including members of the 832nd Ordnance Battalion and the Marine Detachment, will be in the studio audience at Opryland in Nashville for the live telecast from 8-9:30 that night. This will be the "Nashville Now" television show's special salute to the armed forces.

Redstone soldiers, Marines and members of the chaplains' family support group have been in the studio audience several times for Nashville Now which is a nightly, country-music talk show. The trips began in December when the chaplains asked the show to help them with activities for servicemembers who would be unable to go home for the holidays due to the cancellation of the annual Christmas exodus.

The most recent trips — Feb. 25, March 4 and now March 18 — are at the request of the show in order to show its support for the military, according to Chaplain (Capt.) Gary Bragg. He is organizing the March 18 trip along with Chaplain (Maj.) David McLean, and SFC Susan Willis of 832nd Ordnance Battalion.

"These last trips were at the invitation of Nashville Now; they wanted to show support for the soldiers and Marines and what they're doing," Bragg said.

The show Monday, March 18, entitled "A Salute to the Armed Forces," will include the following performers: Larry Gatlin and the Gatlin Brothers; Donna Fargo who will sing "Soldier Boy"; Helen Cornelia, singing "From a Distance"; Bill Anderson; Johnny Cash; Barbara Mandrell, and others. Besides being shown live on the Nashville Network at 8 p.m., the show will also be aired for the troops in Saudi Arabia on the Armed Forces Network. The Redstone soldiers and Marines appeared on the Nashville Now show aired Feb. 25, which was also recorded for the troops in Saudi.

"Nashville Now has been very supportive of our troops, especially during this time of war," Bragg said. At the end of the shows attended by servicemembers, the attendees from Redstone have been permitted to pose for a group photo with the performers, get their autographs and talk with them. The servicemembers and family members have also been interviewed during the show by the host, Ralph Emery.

In the Feb. 25 show Emery wore a yellow ribbon pin with the message "Support our troops" which was given to him by Francis Godwin, a member of the chaplains' family support group. Her son, a member of the 101st Airborne Division, deployed to Saudi in October. "We'd like to send a special message to all of you in the Gulf and applaud the great job that you're doing," Emery said. Pvt. Kerr David Cole from West Virginia, a member of A Company, 832nd Ordnance Battalion, had the opportunity to go onstage to meet singer Robin Lee. Pvt. Gina Gross from Chicago, also of A Company, was able to send greetings to her brother, a Marine corporal stationed in Saudi since Aug. 15. Also, several members of the family support group were able to go onstage to show their greetings signs including a large sign that read, "Chaplain's Support Group, Redstone Arsenal, Alabama."

"I loved it, it was exciting," said Pvt. Tami Hartman, 18, from Huntington Beach, Calif., who attended that show. Hartman was among more than 30 members of her company who attended. She



NASHVILLE NOW — Servicemembers, family support group members and Nashville Now performers pose for a group photo Dec. 20.

graduated from the ammunition specialist course Feb. 15 and was ordered to depart Feb. 19 for Saudi, but those orders were subsequently placed on hold. She planned to attend the March 18 show if still at Redstone.

About 150 people from Redstone attended the show Dec. 13; and a similar number attended the show Dec. 20. Some 400 soldiers and Marines went to the Grand Old Opry in Nashville on Dec. 21. About 75 people from here attended the Nashville Now show Feb. 25, and 100 were expected to attend the March 4 show.

Three military buses will be traveling from the Post Chapel for the March 18 trip. Nashville Now, which invited the servicemembers, is providing free tickets to the show.

"Tickets will be divided between the Marines and the soldiers. On the first two trips, we took some family support people whose husbands are stationed in Saudi Arabia. This last trip will primarily be for the soldiers and Marines," Bragg said. "They've told us the shows they (the servicemembers) appear on, their ratings go up."

Human Resource Council meets Tuesday

Anyone interested is invited to the Tuesday, March 12 meeting of a high-level Redstone quality of life council.

The Human Resource Council will meet from 9:30-11 that morning at the Youth Center, building 3148. The council, which last met Jan. 8, is primarily concerned with improving quality of life issues at this installation; these are issues that would help make living and working at Redstone better.

The council consists of about 30 members, both civilian and military, who represent the primary leadership of Redstone Arsenal — including directorate heads and major command heads.

Tuesday's meeting agenda includes the following: 9:30, call to order by Steve Carter; 9:30-9:35, review and approval of minutes; "old business," 9:35-9:45, family symposium 1990 carry-over issues by Sue Pad-

dock, and 9:45-9:50, health fitness center update status by Joe Hopkins; "new business," 9:50-10, Army Community Service (ACS) Education Committee, Maj. Scott Wilson; 10-10:05, sponsorship/relocation by Frances Howard; 10:05-10:10, installation volunteer council by Paddock; 10:10-10:15, Fox Army Community Hospital update, Col. Karl Snyder; 10:15-10:20, Post Exchange update by Stanley Drejewski; 10:20-10:25, new clothing sales store by Drejewski; 10:25-10:30, Commissary update by Herman Wainwright; and 10:30-10:40, drug and alcohol report by Ruby Turner. Open discussion will be conducted from 10:40 until the meeting adjourns at 11.

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Schwarzkopf takes lid off Desert Storm war plan

WASHINGTON — As allied forces steamrolled into what would prove to be the last major battles of the Persian Gulf war, the U.S. military commander in the region unveiled the long-awaited blueprints of Operation Desert Storm and its success.

Unfolding as a complex campaign of attrition from the air, maneuver, frontal assault and deception, Gen. H. Norman Schwarzkopf's plan for the war to free Kuwait combined the best use of allied speed and firepower to encircle and wreck an Iraqi army that, after more than a month of intensive bombing, had neither the means nor the will to resist.

Schwarzkopf took the covers off the ground war at the Feb. 27 Central Command news briefing in Riyadh, Saudi Arabia. He said that at the time of his briefing, 29 of 42 Iraqi divisions had been rendered ineffective, 3,000 of 4,200 tanks had been destroyed, only a handful of units were able to continue resisting, and Iraqi casualties were "very, very heavy." Calling Iraqi prisoner of war numbers "a wild guess," he said, "We have more than 50,000 prisoners of war at this time and that number is mounting on a continuing basis.

"We've almost destroyed the offensive capability of the Iraqi forces in the Kuwaiti theater of operations," Schwarzkopf said.

Schwarzkopf also assessed Saddam Hussein's ability as a military strategist: "He is neither a strategist, nor is he schooled in the operational arts, nor is he a tactician, nor is he a general, nor is he a soldier. Other than that, he's a great military man."

The plan called for an assault by mostly Marine Corps and coalition forces on the Iraqi defensive barrier at the Saudi-Kuwaiti border, augmented by feints at the barrier and deception along the coast of Kuwait, where a Marine amphibious assault was widely anticipated. Instead, a lightning thrust deep into Iraq from west of Kuwait by the 101st Airborne Division, the 24th Infantry Division, the entire VII Corps and French forces enabled the coalition to hit Iraqi forces in Kuwait from many directions at once while cutting off any prospective retreat.

Schwarzkopf's briefing charts showed the location and condition of both Iraqi and allied forces before

and after the beginning of the war. His first chart showed coalition forces bunched up along the Saudi-Kuwaiti border, poised to breach the Iraqi defensive barrier. However, although many units did break through the Iraqi defenses, the massing of coalition forces at the Saudi-Kuwaiti border was a partial ruse. The absence of Iraqi air cover allowed U.S., French and British units to swing to the far west and drive deep into Iraq largely unopposed.

"Our hope was that, by fixing the forces in this position (along the Saudi-Kuwaiti border), we would basically keep the (Iraqi) forces here, and they wouldn't know what was going on out in this area (to the west)," Schwarzkopf said. "I believe we succeeded in that very well."

At 4 a.m. Feb. 24, the 1st and 2nd Marine Divisions and the 2nd Armored Division's "Tiger Brigade" attacked through the Iraqi positions on the Kuwait border, while two Saudi task forces moved into Kuwait near the coastline. Meanwhile, far to the west, the French 6th Armored Division and a brigade of the U.S. 82nd Airborne Division drove into Iraq to seize the Al Faman airfield. Also to the west, the 101st Airborne Division air assaulted deep into Iraq to establish a forward operating base.

"At the same time, we launched amphibious feints and naval gunfire (along the Kuwaiti coast), so that they continued to think we were going to be attacking along this coast," Schwarzkopf said.

By the afternoon of the 24th, the campaign was in full swing. The Marine divisions had breached the Iraqi barriers in what Schwarzkopf called an "absolutely superb operation...I think it will be studied for many, many years to come as the way to do it." The Saudis had rolled up the coastline, and a second joint Arab attack had been launched along Kuwait's western border.

The Army's VII Corps entered the fray during the afternoon with the 1st Infantry Division breaching an Iraqi barrier, allowing the 1st British Armored Division to leapfrog through the lines. Simultaneously, the 1st Armored Division, 3rd Armored Division, the 2nd Armored Cavalry Division and the 24th Mechanized Infantry Division thrust into the Iraqi homeland.

Schwarzkopf made a point of mentioning the 101st Airborne Division's position during the afternoon of the 24th. The unit had launched an air assault into the Tigris and Euphrates valley, about 150 miles from the Iraqi capital of Baghdad.

"If it had been our intention to take Iraq, if it had been our intention to destroy the country, if it had been our intention to overrun the country, we could have done it unopposed...from this position at this time," he said.

The next two days, Schwarzkopf said, went according to the allied plan. Saudi and other Arab forces continued to attack and encircle Iraqi forces in Kuwait, as did British and U.S. Marine units.

To the west, the French guarded the U.S. flank as the VII Corps and XVIII Airborne Corps turned to cut off and attack Republican Guard positions.

All the while Iraqi soldiers were surrendering in droves. "I attribute a great deal of the failure of the Iraqi army to fight to their own leadership," Schwarzkopf said. "They committed them (the Iraqi soldiers) to a cause that they did not believe in.

"In the end, they kept them there only at the point of a gun," he said.

Schwarzkopf also assessed Saddam Hussein's ability as a military strategist: "He is neither a strategist, nor is he schooled in the operational arts, nor is he a tactician, nor is he a general, nor is he a soldier. Other than that, he's a great military man."

Moving up to the fighting that was still under way, Schwarzkopf described the U.S. forces attacking from the west as "a solid wall" preventing the escape of retreating Iraqi units. XVIII Airborne Corps units were attacking Republican Guard units south of Basra, while VII Corps units were hitting the Guard along the western Kuwait border. Schwarzkopf said only two of the Guard's five divisions remained.

"The gates are closed," Schwarzkopf said. "There is no way out of (Basra), there is no way out of (western Kuwait)" for Iraqi units continuing the fight.

Other coalition units were clearing pockets of resistance inside Kuwait.

The latest casualty figures for U.S. forces in the ground fighting were "almost miraculous," Schwarzkopf said — 28 killed, 89 wounded and five missing. They combined with figures from the air-only campaign and the Scud attack on Dhahran to put total U.S. casualties at 79 killed, 213 wounded and 44 missing.

"Peace is not without a cost," he said. (Arnews)

Army helping Kuwait's postwar recovery

WASHINGTON — Although the job of returning Kuwait to the Kuwaitis is largely finished, the job of returning Kuwait to its pre-war state is just beginning.

Special Army units are preparing to help the battered nation get back onto its feet. According to DoD chief spokesman Pete Williams, the 352nd Civil Affairs Command is already arriving in Kuwait to offer its assistance.

"The practical fact of the matter is that circumstances there right now simply limit the capability of the Kuwaiti government to run Kuwait City, and run Kuwait, and provide emergency services and law enforcement and that kind of thing during the aftermath (of the war)," Williams said. "That's what these civil affairs groups are there to do."

The 352nd, headquartered in Riverdale, Md., is about 1,000 mostly reserve soldiers specially trained in restoring civil administration to war-torn areas. It comprises a headquarters company, the 354th Civil

Affairs Brigade, the 304th Civil Affairs Group and several companies all based in the northeast.

Although Army spokesmen are deferring to the State Department on details of civil affairs units' role in Kuwait, the units are normally associated with "nation-building" — establishing law enforcement, medical systems, sanitation, and other war recovery efforts. They are part of the Army's special operations command structure.

Other Army elements are also preparing to help Kuwait. Under a 90-day, \$46-million contract awarded by the Kuwaiti government in October, the Army Corps of Engineers is gearing up to help assess damage to Kuwait's system of roads and bridges, and make emergency repairs. Williams said the corps will help "get the water supply going, getting the power system back on...working on the sanitation system — all the basic, essential services that a city provides to its citizens." (Arnews)

Charities can apply for CFC funding

The Local Federal Coordinating Committee will accept applications from agencies for funding by the Huntsville area Combined Federal Campaign beginning March 29. Applications must be received no later than 5 p.m. Monday, April 29.

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Commentary: Now I know why daddy built missiles

Editor's note: The author of the following column, which appeared in Jasper's Daily Mountain Eagle, is the daughter of the late Charles Vessels, who worked at the Strategic Defense Command. Her mother, Sara Vessels, is chief of the support office at the Missile Command's Research, Development and Engineering Center.

BY VICKI VESSELS

Fathers do strange things. Mine used to buy the top of the line rototillers, polish them with diapers and send me out with the hoe to turn the garden.

When I was in a car accident and had to stay in traction for five weeks, he would walk in every day (that's 35 days) after work and say, "Are you still here?"

He put peanut butter on sardines.

He ran through red lights, and he'd move to his chair at 4 a.m. to sleep there.

The last strange thing he did was continue to smoke after a history of heart trouble and he died Nov. 4, 1989, of a massive heart attack. He never even knew what hit him. He was 51.

HE WASN'T ALL strange, even though I never understood why he was always so excited about being an engineer. That is, I didn't understand until Jan. 28, when I attended the test launch of a missile that was dedicated to him.

The missile is the ERIS (Exoatmospheric Reentry-vehicle Interceptor Subsystem) that has been in the news so much lately. Daddy oversaw the design of the ground systems on it. For the last three years of his life, that's all he worked for. He brought home ERIS stickers and ERIS baseball caps and ERIS keychains.

I never acted too interested when he talked about it, because I knew the lecture would follow on how I would starve the rest of my life unless I repented and became an engineer myself.

NOW I KNOW ALL about it. This missile will intercept intercontinental missiles in space. (He's rolling over in his grave with my layman's explanation.)

The ERIS missile test moves the United States closer to a non-nuclear capability to intercept and destroy enemy ballistic missiles at ranges well beyond U.S. shores.

The first test launch went without a hitch. There wasn't a single hold in the countdown. The engineers in the room with me and my family were high-fiving and weeping at the fact that they had never seen that before.

That was the part that was dedicated to my father. The test flights are all designated CV-01, CV-02, CV-03 for Charles Vessels.

Before the countdown for the target launch, the

observers in Huntsville, Washington, D.C., Vandenberg Air Force Base and Kwajalein Atoll paused to remember Charles Vessels — "one who has gone before us."

Of course, they don't remember the sardines or the days of cutting down trees or that day my mother and I found him lifeless across the seat of his pickup truck.

What they remembered was his 30 years at Strategic Defense Command contributing to masterpieces like the Nike-Zeus missile and teaching the Hawk Missile System to NATO officers.

They remember his leadership. Some college student in California even wrote a paper about his leadership skills. What the country will not remember is that he provided the boost for the ERIS missile that will provide us freedom from fear.

THE COUNTDOWN WENT without a hitch. Daddy was there tightening screws and pulling it off the launch pad. One of his former employees wrote this inscription on the side of the missile: "This one's for you, Charlie."

I never realized that other people knew how neat he was. I'll say the same thing.

This one's for you, Daddy.

High-tech weaponry 'changed face of modern warfare'

WASHINGTON — Lt. Gen. Tom Kelly's daily statistical report of the war at the Feb. 28 Pentagon press briefing took on an air of finality, as he reported all 42 of Iraq's combat divisions in Kuwait had been destroyed or made ineffective. Kelly, the Joint Staff's director of operations, said the equivalent of an Iraqi division and a half may have been able to flee the theater of operations, but added that Iraq has nothing left to challenge allied forces in the region.

"We had a cessation of hostilities last night, which means that we didn't proceed all the way across the theater of operations to stop them, so some things may have gotten out that we don't know about," Kelly said. "But I will guarantee you that the Iraqi Army at this point is a rabble, and they do not present an effective military threat."

Rear Adm. Mike McConnell, the director of intelligence for the Joint staff, estimated that 4,000 of Iraq's 4,200 tanks in the Kuwaiti theater had been destroyed.

Kelly also reported sporadic enemy violations of the cease-fire, which he attributed to the devastation of Iraq's command and control system. "My guess is these people just haven't gotten the word yet," he said.

MEANWHILE, DoD officials were already starting to assess reasons for the unpredictably swift coalition victory. Chief among those reasons, Kelly said, was a failure of Iraqi intelligence. "They didn't have eyes and ears out on the battlefield to see what was happening," he said. "Second, the air campaign was spectacularly successful."

The coalition air war virtually eliminated Iraqi

planes from the skies. When the ground war began, Iraqi combat aircraft hadn't been off the ground in about two weeks, further inhibiting their ability to sense the location of allied ground units. U.S., British and French units used the intelligence blackout to swing far west of Kuwait and knife deep into Iraq, cutting off lines of retreat.

Kelly also credited much of the victory to a 90-percent readiness rate on U.S. aircraft maintained throughout the war and the overall performance of high-technology weaponry, which he said "actually changed the face of modern warfare."

"I think that and other things went into our victory," Kelly said. "And, of course, just the plain, flat quality of the American young men and women who did the job."

U.S. troops in the region numbered about 539,000. And, at the prospect of a lasting cease-fire and the re-establishment of the Kuwaiti government, questions turned to when those half-million men and women might come home.

"We're as interested as (their) families are in getting the military out of the area and back home as quickly as possible," Kelly said. "Some will probably start coming home quite soon; others will take much longer. There are security considerations in the region."

THE EFFORT TO DEPLOY U.S. forces to the region was widely reported as the largest since Vietnam. Their return will likely be an effort just as large.

"It was a herculean logistics task to get them there, and thank God, because our casualties were so light, it's going to be just about as herculean to get them back. That's going to take some time," Kelly said.

U.S. officials were also awaiting definitive word of U.S. prisoners of war. Nine U.S. servicemen were classified as POWs, although Iraq had provided no official confirmation of their fate.

Kelly said the first thing on the agenda of a proposed meeting between allied and Iraqi commanders in the Kuwaiti theater would be the POW issue.

"Not only the military prisoners of war, but the military and civilian prisoners of war, to include the CBS news crew (reported missing)," he said. "They will receive the same consideration that a pilot of an aircraft or anyone else receives, and that's one thing we want to get settled first." (Arnews)

Girl Scouts send support

SAUDI ARABIA — The Girl Scouts of American recently sent a letter to U.S. Secretary of Defense Dick Cheney and the Joint Chiefs Chairman Gen. Colin Powell saluting the women of the Armed Forces serving in Operation Desert Storm and at other locations throughout the world.

The letter, signed by B. LaRue Orullian, national president, and Mary Rose Main, national executive director, said, "Never in the history of this country have so many women served in the Armed Forces and played such an active role in a military confrontation. As the nation's largest organization for girls, with three and one quarter million members, Girl Scouts of the U.S.A. salutes the women on active duty in the Gulf as well as those serving stateside. Their valor and competence are an inspiration." (From a CENT-NEWS release)

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You can trim the fat from dining outside your home

Editor's note: Goodman is nurse educator with the preventive medicine service at Fox Army Community Hospital.

BY SUSAN GOODMAN

Most of us try to watch the amounts of fat and cholesterol in our diets at home. In order to eat a prudent diet outside the home, you do not have to abandon fine dining nor join the brown-bagger. Nor do you have to throw caution to the wind and blindly select items from a menu. Nutritious, low fat meals are available for the savvy diner outside the home.

Start by selecting restaurants that are likely to serve at least some low fat entrees. Sit-down restaurants generally offer a wider variety of these. A number of restaurants offer selections based on the American Heart Association's guidelines. Other restaurants may list the grams of fat in each of their dishes. The following guidelines will assist you to eat a low fat diet in a variety of situations.

Selecting from menu

For appetizers, choose fresh fruits and vegetables. Avoid sour or sweet cream and seasoned butter or oils.

When ordering soups avoid cream soups, egg soups, onion soup and cheeses.

Salads are a good choice, but avoid chef's salads with high fat meat, cheese and eggs. Also avoid creamy dressings. Ask for the salad dressing or the oil and vinegar on the side, so that you can add a

reasonable amount yourself. Choose fresh fruit salads or fresh fruits.

Poultry, fish and lean meat are fine as long as they are baked or broiled. Avoid goose, duck, prime cuts of beef, fried items, gravies or tartar sauce.

If plain vegetables and fruits are selected, you may have as much as you like. Avoid butter, cream or whipped toppings.

When selecting from the bread and cereal food group, choose whole grain products. Avoid croissants, butter rolls, doughnuts, biscuits, pancakes, waffles, sugar-coated cereals, potato chips and corn chips. Be careful with butter or margarine — use it sparingly.

When choosing a dessert, select angel food cake, gelatin desserts and frozen fruit ices. Avoid cream and non-dairy substitutes.

Beverages (non-alcoholic) should be limited to coffee or tea, fruit or vegetable juices, skim milk and carbonated beverages. Again, avoid cream and non-dairy substitutes.

When ordering, ask for the food to be prepared in healthy ways. Order your fish broiled without butter. Request that skim milk and margarine be used in place of milk, cream and butter. Ask that the salad dressings or gravies be served on the side.

Set-menu situations

When attending a banquet or eating at a friend's house where the menu is set, fill up on foods that contain little or no saturated fat and eat moderate to small

portions of the higher saturated fat foods. If you know you will be going to such an event, eat less saturated fat that day — save your quota for that meal. Also eat a low fat snack before going out, so you will not be too hungry and tempted to each much of the higher fat foods.

Fast foods

Sensible selections at a fast food restaurant may pose a challenge. A great many fast foods are high in saturated fat. For the popular fast foods, such as deep-fat fried fish and chicken, hot dogs, roast beef and hamburgers, more than 50 percent of the calories are often derived from fat — the National Cholesterol Education Program's Adult Treatment Report recommends a reduction in daily fat intake to less than 30 percent. Though fast food restaurants may be very limited in their selections, many of them now have salad bars, which allow you to determine the ingredients. If you must order a hamburger, order the smallest and plainest hamburger, holding the cheese and mayonnaise, adding lettuce and tomatoes.

While eating some foods high in fat and cholesterol for one meal or even one day will not raise blood cholesterol, resuming old eating patterns will. Careful selection of meals when dining out should be done to prevent this occurrence. This may be of particular importance here in Huntsville. As a colleague of mine once said, "Huntsville is the most eating-out town I ever have seen."

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Foreman wins UAH 10K race

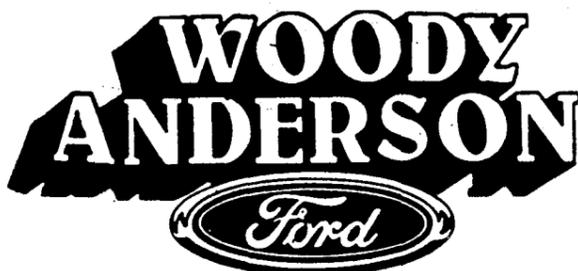
More than 100 runners made their way through the campus of the University of Alabama-Huntsville on Sunday afternoon under miserable running conditions — cold, wind and rain.

Greg Foreman, 26, won the UAH Spring Road Race 10K (6.2 mile) in 35 minutes and 30 seconds. Yong Yancura, 37, was the first female finisher in 43:14.

There were 106 finishers, including 21 women. Augustus Ford, 71, was the oldest finisher in 68:41. Betty Dooley, 63, was the oldest female finisher in 63:13.

Here are the overall winners and age group winners:
Male: Overall — Greg Foreman (35:30). 14-under — Cory Beavlier (57:17), George Keener (62:04). 15-19 — Mike LeMaster (39:52). 20-29 — Dale Meskimen (36:18), Dink Taylor (36:37), Dan Bond (37:18), Ron-

nie Nelson (37:26). 30-39 — Walter Ballard (37:04), Bobby Wilson (38:49), Jim Elibraham (39:22), David Low (39:22.4). 40-49 — Lawrence Hillis (35:35), Al Rosenberger (36:57), Steve Rice (37:25), Jerry Puckett (37:58). 50-59 — Jim Oaks (42:21), Earl Jacoby (42:39), James Foreman (44:13), Chuck Yancura (45:17). 60-69 — Mark Wheat (49:38), Paul Goode (52:57), Jay Grove (55:19), Fred Jandebur (56:43). 70-over — Augustus Ford (68:41). **Female:** Overall — Yong Yancura (43:14). 20-29 — Susan Frohboese (52:36), Beth Sornsin (54:55). 30-39 — Sarah Grace (44:32), Mary Elpert (44:51), Sharon McFall (49:15), Cydney Thomson (50:45). 40-49 — Pam Marshall (45:42), Florence Desmouliere (45:43), Faye Sanders (45:52), Pam Duke (48:35). 50-59 — Barbara Meyer (52:45), Karol Landram (58:18). 60-69 — Betty Dooley (63:13).



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Parents can learn a few lessons about punishment

Editor's note: Riccardi is the family advocacy program manager at Army Community Service.

BY SAL RICCARDI

Although April is the nation's official Child Abuse Prevention Month, the Redstone Arsenal Family Advocacy Program is gearing up for a prevention effort during March.

The "Stop the Report Card Reflex" campaign is focused on preventing possible abuse at a time when family tension characteristically runs high.

The idea for the campaign originated from the National Committee for the Prevention of Child Abuse. While many schools around the country run such campaigns in April, many Alabama schools have report cards going home in mid-March. As family advocacy program manager, I felt an early campaign was appropriate.

The focus of the campaign is on maintaining a positive, problem-solving orientation in dealing with your child's academic performance. Many parents react to a child's poor school performance as possibly signaling their own failure in maintaining adequate control or discipline over their child.

This can result in taking a strictly negative course of action to remedy the situation, such as threats or "whippings." This, for obvious reasons, not only leaves the child with negative feelings about school and education in general, but can also leave them with a negative self-image and cause long-term damage to the parent-child relationship.

Greater possibilities for a positive outcome exist in a cooperative effort between parent, child and teacher.

This requires a commitment to communicate with your child in an attempt to understand the problems they are having, and then discussing possible plans for solving them.

The child's teacher also should be consulted in developing the plan and in implementing it. The child should be allowed to participate (as much as is practical) in formulating the solution to the problem. Regardless of age, most people work harder to implement plans of action in which they have had input and, thereby, a personal investment.

One question parents often ask when this method is mentioned is, "Doesn't this take up a lot of time?" Granted, a spanking or a threat may be more expedient. But the long-term costs, both in terms of the child's behavior and the relationship, are great.

Taking the time to engage in planning/problem-solving not only models these skills to your child rather than modeling the use of anger or threats to reach goals. This also presents opportunities for conveying the love and concern that are necessary for your child to feel secure and gain self-confidence. Just as continual use of physical punishment tends toward physical abuse, constant scolding and blaming can lead to emotional abuse.

Setting realistic expectations and giving positive reinforcement for achievement will maximize your child's personal development while strengthening your relationship with them.

The choice is yours. If you were raised in an environment where punishment and threats were the norm, especially at report card time, you might remember how frightened you were. You might even feel guilty each time you resort to the same methods with your own children, but cannot think of any other way to try.

Consider taking a parenting class offered free at Army Community Service. If nothing else, try to avoid discussing your child's report card when your anger is at its peak. Words spoken in a moment's anger can hurt for a lifetime.

How helpful you are with your child's problems today will determine whether they will come to you when they are facing bigger problems tomorrow.

STOP THE REPORT CARD REFLEX



1. **SIT DOWN** with your child and look over the report card.
2. **PRAISE YOUR CHILD.** Find at least one good thing: attendance, no tardies.
3. **BE CALM!** Let your child tell you about his poor grades.
4. **ASK** how you can help your child do better.
5. **ASK** what your child can do to make better grades.
6. **MAKE A PLAN** with your child's teacher and your child to do better.



Developed by

Child Abuse Prevention Council 4151 Southwest Frwy., Suite 435, Houston, TX 77027, 713/621-6446

For Helpful Information, write: National Committee for Prevention of Child Abuse, Box 2866R, Chicago, IL 60690

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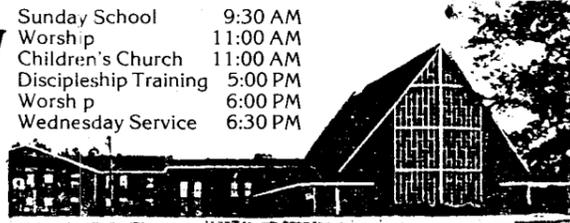
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DoD sets up \$10.7 million fund to help disabled excel

BY RUDI WILLIAMS

AMERICAN FORCES INFORMATION SERVICE

Individuals with disabilities will find Department of Defense office automation systems more accessible thanks to the Computer and Electronics Accommodations Program.

DoD is funneling \$10.7 million into the program to help pay for special adaptive equipment, with the agencies expected to pick up part of the costs. The program, under the Defense Medical Systems Support Center in Falls Church, Va., provides expertise and resources to assist managers in obtaining adaptive devices, said the program's manager, Dinah Cohen. The center is the program's executive agent for DoD.

"Our No. 1 goal is to meet Defense Secretary Dick Cheney's goal of increasing DoD's employment of people with severe disabilities from 1.2 percent to 2 percent by 1992," said Cohen. "This is the group of people the Equal Employment Opportunity Commission has targeted as having severe disabilities that impact on their ability to get jobs."

Individuals targeted by the commission include those who are blind, deaf, paralyzed, mentally retarded and mentally ill, and those with seizure disorders or deteriorated limbs. Last summer, 12,136 employees with severe disabilities were on DoD's payroll.

Cheney has exempted the severely disabled from DoD's current hiring freeze.

"We're trying to remove barriers," said Cohen. "The cost of special adaptive devices, such as screen readers, optical scanners and synthetic speech outputs, can cost about \$500 to more than \$30,000. These additional costs have been a hiring barrier for many managers. Encouraging them to take advantage of the hiring freeze exemption and providing assistance in obtaining adaptive equipment helps to eliminate some barriers to hiring employees with disabilities."

Adaptive equipment that can be purchased includes:

- Braille note takers, terminals and printers to help persons with visual impairments;
- Reader and scanner devices that scan and speak text to enable individuals with vision impairments, dyslexia and other limitations to "read" printed material;
- Telecommunication devices for the deaf and telephone communicators for persons with hearing and speech impairments; and
- Keyboard enhancers to allow those with mobility

impairments to type with one hand or with a slight head movement.

Cohen said since the program began last year, it has provided more than 1,400 adaptive devices for the hearing impaired, 50 devices for the vision impaired and five devices for the mobility impaired.

The Disabled American Veterans organization in Washington, D.C., praised Cheney's policy. "DoD is one of the better employers of disabled people. We're pleased to hear about the new policy of hiring more disabled people," said Len Gilmer, the organization's associate national employment director.

"Adaptive equipment is very expensive, so what DoD is doing is important and valuable," he emphasized.

Cohen's office will help DoD managers choose the best equipment for each individual's needs. "We have a small demonstration center in our office where people can see some of the adaptive devices in use," she added. "We're working closely with the General Ser-

vices Administration to stay current with technology, and we're developing a resource library with information on the equipment vendors."

Adaptive-device users can receive training for the equipment an agency receives through the program. Sign language and interpreter services are available for extended training programs.

Cohen's message for DoD managers is, "You can use the hiring freeze exemption to hire a person with a disability. We will assist you in obtaining the appropriate accommodation for employees with disabilities."

For more information, write to:

Computer and Electronic Accommodations Program
Defense Medical Systems Center
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USA

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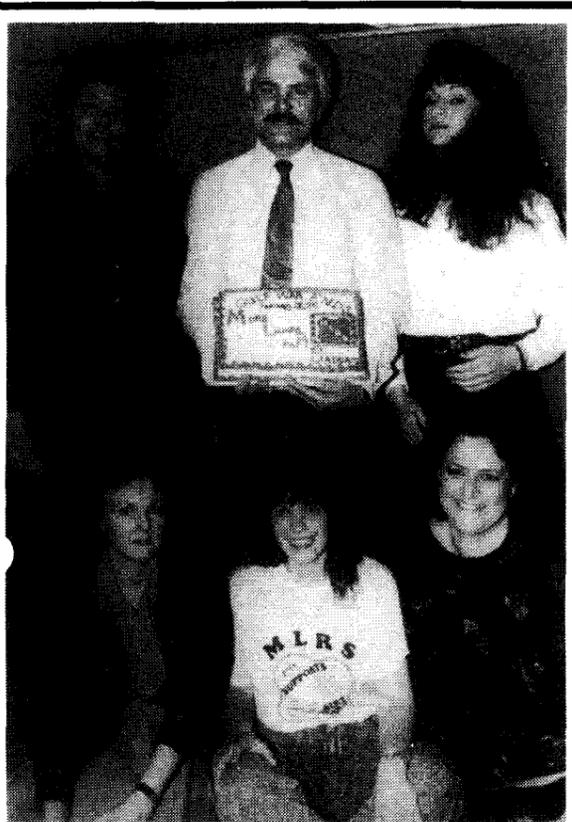
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WAR'S END CELEBRATION — Workers in Procurement Directorate's Multiple Launch Rocket System contracting office were among the first to mark the end of hostilities in the Gulf War. They celebrated Friday with a cake and other refreshments. Standing from left are Crystal Blackburn, office chief Jim Ganoë and Andrea Baugh; kneeling are Colleen Rodriguez, Pat McKay and Jeannie Sharpe. "We're proud of the way our system performed and that the soldiers used it so effectively," Ganoë said. Most of the nine people in the office have been putting in extra work hours in support of Operation Desert Storm.



Military youngsters here can win trip to Space Camp

An annual awards program sponsored by Redstone community organizations will pay the way for eight military youngsters to attend Space Camp or Space Academy.

Applications for the awards program, coordinated by the Army Community Service (ACS) Education Committee, will be available from March 15 through April 15. Eligible are children of active duty or retired military in the Redstone area.

Space Camp at the Space and Rocket Center is for youngsters in the fourth through sixth grades. Space Academy is for seventh through ninth graders. The awards program will enable five youngsters to attend Space Camp and three to attend Space Academy from June 23-28.

"I think it will spark an interest in children for the future. Perhaps they will have an interest in space, perhaps they will have an interest in the military or in science," said Maj. Al Phillips, chairman of the Space Camp/Academy award subcommittee for the ACS Education Committee.

"That's the advantage of living in Huntsville, Ala. People come to Space Camp from all over," said Phillips, whose hometown is Little Rock, Ark. "We should start young with our young people and spark an interest in science, engineering and in math."

Sponsoring organizations for the awards program include the NCO Wives Club, Officers Wives Club, Association of the U.S. Army, and the Thrift Shop. These organizations provide the funds for the youngsters to go to Space Camp, which costs \$550 each, or Space Academy which costs \$600 to attend.

Applications will be available at ACS, the Post Exchange, Commissary and the Youth Activities Center. The deadline to apply is 4 p.m. April 15. Military youngsters with at least a "C" average will have to write a one to two page essay on "Why I want to go to Space Camp/Academy."

Plans are to have judges from the sponsoring organizations plus two at-large judges, according to



AWARD COMMITTEE — Members of the Space Camp/Academy award subcommittee include seated, from left, Charles Salvo of AUSA, Mary Huffman of the Thrift Shop, Blanche Moore of NCO Wives Club, Maj. Al Phillips, chairman; Vivian Moore, an ACS volunteer; Pam Mattson of Officers Wives Club; and Rod Summers of AUSA.

Phillips. The winning youngsters will be recognized at a ceremony in May.

To ensure impartiality, the judges will see only the numbered applications and not the applicants' names. "In addition, one of the stipulations (for the judges) is they have no school-age children that are eligible to enter," said Frances Howard of ACS.

This is the eighth year for the program. Four awards were presented in 1984, six in 1985, eight in 1986, 10 in 1987, eight in 1988, six in 1989 and eight last year. "And we plan to have eight in '91," Phillips added.

For more information about the Space Camp/Academy awards program, call ACS 876-2859/5397.

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Corps of Engineers assists strategic defense projects

BY KEN CRAWFORD

Recent Strategic Defense Initiative successes have enjoyed a good deal of media attention. What's not widely known is that Huntsville Division, Army Corps of Engineers, played an important part in making them successful.

On Jan. 28 a Strategic Defense Command interceptor struck and destroyed a target Minuteman intercontinental ballistic missile warhead over Kwajalein Atoll. The ERIS — Exoatmospheric Re-Entry Interceptor — was launched from a facility designed by Huntsville Division.

"We designed the ERIS launch facility on Meck Island," Joe Lofton, project manager, said. "We actually modified an existing facility. Pacific Ocean Division performed the actual construction." Construction was completed on Dec. 1, 1989.

ERIS is designed to be a kinetic energy non-nuclear interceptor, Lofton said. That means that it destroys by impact rather than explosive charge. Lofton explained that "exoatmospheric" refers to outside the atmosphere, while "endoatmospheric" refers to inside the atmosphere.

ERIS is one of three SDC programs that Huntsville Division supports. Since its beginning in 1967, the division has supported SDC and the ballistic missile defense programs of its predecessor.

The High Endoatmospheric Defense Interceptor (HEDI) is another program the division supports. "We designed the launch facility in (White Sands Missile Range) New Mexico," Lofton said, "and Fort Worth (District) constructed it."

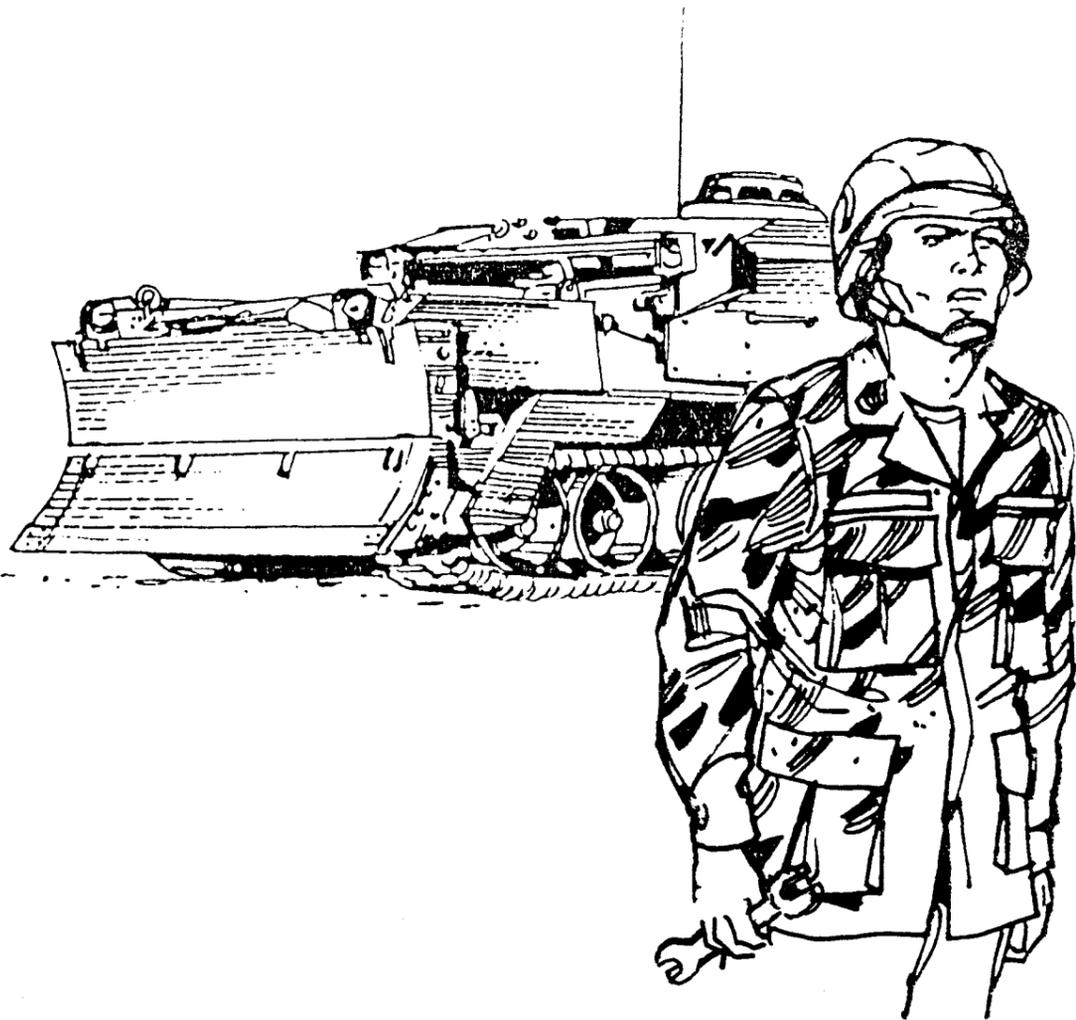
HEDI's concept is for the interceptor to destroy ballistic missile warheads within the atmosphere or just beyond it. It is also a kinetic energy, non-nuclear weapon.

Huntsville division also designed launch complexes for the Starbird program. The design was completed in-house, with the construction transferred to Mobile District. Construction of launch equipment buildings for use at Wake Island is complete.

A key ingredient of all of the work the division performs is close coordination with the district during the transition phase, Lofton said. That phase occurs between Huntsville division's design and actual construction. "We work closely with the local geographic district during transition," he said.

After transition the division can still provide "Title II services," additional support, if requested by the geographic district. "Generally it's their call," Lofton said.

Huntsville division supports a number of other SDC projects, including: nuclear vulnerability and hardening; space-based kinetic kill vehicle launch complex; ground based radar — experimental; exoatmospheric discrimination experiment launch complex; test and evaluation projects; ground-based interceptor launch complex; ground-based surveillance and tracking system launch complex; and hypervelocity launch complex.



Nominate 'unsung' heroes in the Persian Gulf

SAUDI ARABIA — U.S. troops in the Persian Gulf have been issued a special invitation to nominate someone they admire for a 1991 America's Award.

Described as the "Nobel Prize" for goodness, America's Awards were established in 1990 to honor unsung heroes who personify the American character and spirit. The special invitation to troops here was made by the Rev. Dr. Norman Vincent Peale, the program's honorary chairman, and television and recording performer Barbara Mandrell, who is a member of

the program's 12-member Blue Ribbon Selection Committee.

According to Ric Cox, America's Awards executive director, a nomination can range from an informal letter in which the writer details one of the nominated person's values, to a published story about the person that's simply cut out and mailed. Entries should be sent to: America's Awards, 66 E. Main St., Pwaling, N.Y. 12564. Deadline for submissions is April 30. (From a CENTNEWS release)

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Telegraphic messages may be sent to Saudi Arabia

BY SANDA LAGER

Messages may be sent free of charge to servicemembers deployed in Operation Desert Storm, thanks to a Redstone soldier and his friend, a Military Affiliate Radio Station (MARS) operator who lives in Falkville.

SSgt. David Waller, a radar team instructor at the Ordnance Missile and Munitions Center and School, will accept messages destined not only for Saudi Arabia, but for Germany, Korea and other places in the world with MARS capability.

Waller delivers the handwritten messages to Roger Pate, one of a number of MARS operators who volunteer worldwide to transmit messages.

So far, he has transmitted fewer than 20 letters to servicemembers in Saudi Arabia from their families here, but that may be because availability of the service is not widely known.

Waller saw the need to help family members get mail to Saudi Arabia shortly after the war started. He contacted Army Community Service and arranged that the service would be publicized at the Family Support Group meetings held there on Monday evenings.

"I thought it would be something good for Redstone families of soldiers deployed to Saudi Arabia," Waller said.

He picks up messages from ACS about three times each day and delivers them to Pate, who transmits the

messages by teletype from his home. Pate puts the messages into the Alabama network, if available. If not, he will try another state, or pass them to Fort McPherson, Ga.

Although the messages destined for Saudi Arabia



MARS MESSAGE — Frances Howard, family service program coordinator at ACS, and SSgt. David Waller, discuss the MARS message form which may be picked up at building 3491.

arrive in a matter of hours, their delivery is slowed in-country because of the remote locations of some units, Waller said.

Pate is a retired Army warrant officer who now works for Phase IV Systems Inc., a radar research and development company in Huntsville.

"When Saudi kicked off, I tried to get the word out to friends and relatives that I'd try and get messages through for them," Pate said. "I'm also glad to do what I can to help people at Redstone get a message through."

Dan Kelly, consumer affairs and family assistance adviser at ACS, is very appreciative of the service Waller and Pate are providing for family members here.

"This was a capability we didn't have here (at Redstone) so it's a real service they're providing," Kelly said. He hopes more family members will take advantage of the free service.

Traffic on MARS is not limited to usage by military people only. Civilians may also transmit and receive messages, Waller said.

Anyone interested in sending a message should go by Army Community Service at building 3491 and pick up the message form, which must be completed according to the instructions. Each message is limited to 30 words; and up to two messages can be sent at a time, but each form should be a complete message, Waller said.

Blood contributions more than meet need

The American Red Cross was literally overwhelmed by the wartime response of local blood contributors.

"Since the beginning of Operation Desert Storm, an overwhelming number of caring individuals have donated blood and sponsored blood collection operations," the local Red Cross said in a news release. "At this time, blood supplies in the Alabama Region are at good levels. In fact, so many people have donated blood that we are now faced with the challenge of asking some of our donors to donate at a later date."

"The Red Cross Blood Center at 1101 Washington Street is now accepting donors by appointment only and will be closed on weekends. When sufficient donors have registered to meet the daily need, the registration desk will close. While we regret the inconvenience that this may cause for blood donors and sponsors, we sincerely feel that it is the best way to manage collections and minimize possible waste," the Red Cross said.

For more information, donors may call the Red Cross at 536-0084 (extension 330).



NETWORK NEWS — A television crew from Cable News Network (CNN) films soldiers training on Electronic Quality Assurance and Test Equipment at the Ordnance Missile and Munitions Center and School. The television crew visited OM-MCS Feb. 20 to film a wartime segment.

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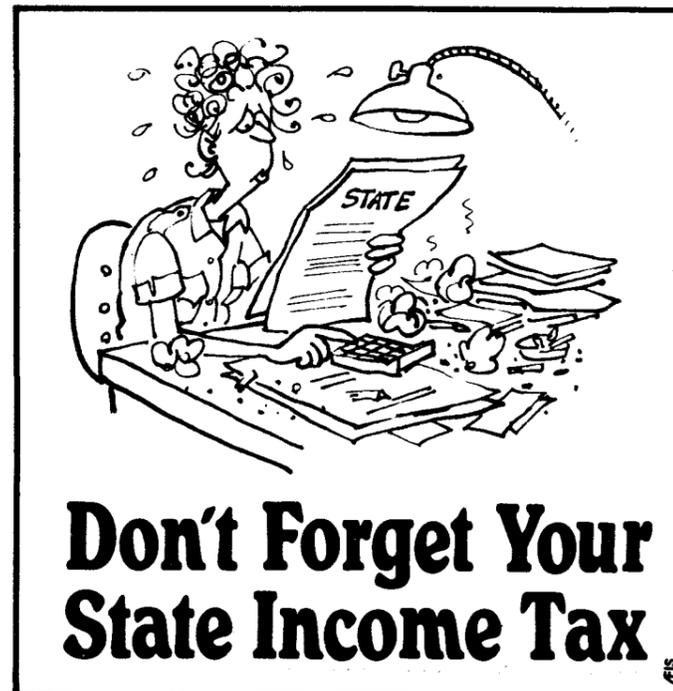
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Don't Forget Your State Income Tax

Archery, bowling tournaments benefit AER campaign

A three-dimensional archery tournament to benefit Army Emergency Relief will be held at noon March 16 at Shields Range.

Active-duty military people are invited to the tournament in which 15 three-D targets will be set up in the woods at the range on post. Depending on the number of archers, an equal number will start at each target, shoot at their target and then move on to the next one.

A no-tap bowling tournament to benefit AER will be held March 29-30 at Redstone Arsenal Bowling Lanes. The two top male and female bowlers will receive trophies. Cost is \$6 per entry. "The proceeds will be donated to the Army Emergency Relief Fund," said SFC Avery Hollifield, the tournament director. For more information about the bowling tournament, call Hollifield 876-8538 or stop by the bowling center at building 3707.

The March 16 archery tournament is being conducted by E Company, 832nd Ordnance Battalion. The tournament sponsor is Madison County Bowhunters Association. The BHA is providing the targets and will have a member present with each group. Also, some of the BHA members have volunteered use of their equipment with the stipulation that prospective users get with them in advance for instruction on proper use.

The archery tournament is also sponsored by X-Ring Precision Archery which will be providing some bows and also a range where the BHA members can instruct novice archers prior to the tournament.

"There's a \$5 entry fee," said SFC Bill Parks, operations sergeant for E Company. "All the money goes to AER."

Tim Jernigan of the International Bowhunters Education Program is to be available at the tournament to provide information about bowhunting.

Military people who would like to participate in the tournament but don't have their own archery equipment should call Parks or 1st Sgt. Steve Edmiston at E Company 876-7353/6717.

Troop bowling

Here are the Redstone Arsenal troop intramural bowling standings as of Feb. 28:

Tuesday's Conference	Won	Lost
HHC 832nd-1	384.5	190.5
F Company 832nd-4	367	208
F Company 832nd-3	316	259
HHC Command & Staff	311.5	263.5
USATSG	307	268
HHC 832nd-3	289.5	285.5
HHC MICOM	267.5	307.5
MEDDAC	246.5	328.5
Marines	205	370
C Company 832nd	178.5	396.5

Thursday's Conference	Won	Lost
E Company 832nd-1	379	196
F Company 832nd-1	360.5	214.5
Readiness Group	347	228
HHC 832nd-2	325.5	249.5
F Company 832nd-2	321.5	253.5
* 515th Ordnance Co.	276.5	273.5
E Company 832nd-2	284.5	290.5
HHC 832nd-4	242.5	332.5
*# E Company 832nd-3	159	391
D Co. 832nd	146	429

200 games/600 series bowled Feb. 26:

Shannon Tennant (HHC 832nd-1)	234, 208 & 614 series
Bill Young (F Co. 832nd-4)	209
John Burley (F Co. 832nd-3)	205
Charles Womack (F Co. 832nd-3)	204
Bill Hollifield (F Co. 832nd-4)	203
Terri Russell (HHC Cmd & Staff)	203

200 games bowled Feb. 28:

Rich Collins (F Co. 832nd-2)	258
Melissa Fikki (D Co. 832nd)	216 & 206
Steve Cook (F Co. 832nd-1)	208
Don Hewitt (E Co. 832nd-1)	203

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Patriot project manager proud of system's performance

BY SKIP VAUGHN

Huntsville should be proud of its role in developing the Patriot air defense missile which performed so well in the Persian Gulf War, the Patriot project manager says.

"It has been developed here and managed here in Huntsville by people here in Huntsville, both in government and industry," said Col. Bruce Garnett at the Feb. 27 luncheon of the Huntsville Press Club. Virtually none of the Patriot system is produced locally, but Huntsvillians have provided the leadership role through the years, according to Garnett.

"Any success that has been achieved I attribute directly to the people here, making the system all that it can be," he said.

He explained how he accelerated production of the latest version of the system, the Patriot Antimissile Capability second phase (PAC-2), so that it could be deployed to Saudi Arabia and subsequently to Israel. Since September, C-141 aircraft have been departing from Cape Canaveral to deliver the missiles from the production facility in Orlando, Fla. The systems were successfully deployed, initially from Fort Bliss, Texas, and subsequently from Germany.

"For the first couple of months there, it was pretty lonely out on that limb," Garnett said, referring to his accelerated-production decision which initially came

without official authority. "It proved out to be a wise decision."

What would have otherwise been a small number of deployed missiles has reached the "many hundreds," he said. "All the missiles that have been fired have been replaced, and the stockpiles will continue to grow until leadership tells me to stop."

The Patriot project manager expressed regret about the isolated incident in which an Iraqi Scud missile managed to crash into a U.S. Army barracks in Saudi, killing 28 soldiers. "I can tell you the morale of the folks in the Patriot Project Office was very low, mine was also," he said. He related how he got the members of the project office together early the next morning and told them, similar incidents would have been occurring throughout the past six weeks if not for their efforts.

"The contribution of these folks, what they've done, is really something they can be proud of for the rest of their lives," Garnett said. "Personally, I'm very proud of it."

He recently completed four years as the Patriot project manager. He had applied last November to retire in January, but those plans were placed on hold due to the war. Garnett, 49, is unsure about when that will happen; but if and when he retires, he does plan to stay in Huntsville. He and his wife, Suzanne, who works at Humana Hospital, have six daughters and a son.



LUNCHEON SPEAKER — Garnett addresses the Feb. 27 luncheon meeting of the Huntsville Press Club.

Logistics center recognizes outstanding black Americans



MODERATOR — Hubbard discusses outstanding black American servicemembers during MLC's tribute for Black History Month.

One of the final events here for Black History Month was a first — the Missile Logistics Center's inaugural commemoration for the observance.

MLC's tribute to notable black Americans was held Feb. 26 in the Post Chapel. "We have gathered to pay a special tribute to black Americans, past and present," said Carolyn Hubbard, a systems analyst who served as moderator for the program.

As part of the hourlong program, she discussed outstanding black Americans in various fields: notable servicemembers; educators, poets and writers; politicians and civil rights leaders.

Participants on the program were MLC workers. John Holden gave the invocation. Chris Galloway served as musician; and solo singers during the program included Ruby Lynch, Ellis Hambrick and Mary Witherspoon. Mildred Blackshear and Levi Freeman acted out the Langston Hughes' poem, "Mother to Son." John Jude delivered an oratory from the Rev. Martin Luther King Jr.'s "Peace on Earth" sermon

which King gave Christmas Eve 1967 at Ebenezer Baptist Church.

"Certainly this was the first, but it's sure not the last," said Jim Flinn, the director of the Missile Logistics Center, during his closing remarks for the program.

Approximately 200 people attended the afternoon event, according to Millie Smith, an inventory management specialist who served as coordinator.



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Clute knows what it takes to be a good drill sergeant



JP-TWO-THREE-FOUR — Clute marches students from D Company, 832nd Ordnance Battalion to the dining facility.

BY MARIANNE BRACKEN

Being a drill sergeant is always difficult, but to be considered the best, you have to be an outstanding role model in all areas to soldiers that are new to the Army.

SSgt. Daryl Clute of D Company, 832nd Ordnance Battalion has been selected as Drill Sergeant of the Year for Redstone Arsenal. Clute, 38, from Lewistown, Pa., competed against drill sergeants from the other three advanced individual training companies in the 832nd.

"I always set out to do my best. I'm glad I won, but I wouldn't have been upset losing to the people I competed against. It's hard to compete against good friends, we all work so well together," he said.

During the competition, the drill sergeants were evaluated in areas such as instructing physical training, their own physical training, drill and ceremony movements. They were given a written and oral test on common tasks and subjects.

"The toughest part of the competition for me was drill and ceremony movements with the M16 rifle, because the only training of that type we do with the students is done with rubber weapons," Clute said.

He prepared for the competition by brushing up on the skills he was going to be tested on, and by going over lesson plans from drill sergeant school. The evaluators included former drill sergeants who are now sergeants first class or above, and a sergeant major.

Competing for drill sergeant of the year is challenging but the real challenge for Clute is, "Trying to keep yourself distant from the soldiers' personal problems, helping them without being a father to them."

The most rewarding experience for Clute as a drill sergeant is taking a marginal soldier and turning them into an all-around soldier by the time they leave. Clute will be coming off the trail in August.

Women's History Month profile: Worker believes in pursuing opportunities

BY EVELYN D. HARRIS

AMERICAN FORCES INFORMATION SERVICE
Stand Up, Stand Out!

Lynn Lucchetti wrote that slogan for an armed forces recruiting campaign, and it also happens to sum up her approach to her career. She doesn't believe in sitting around waiting for good things to happen.

"That's how I made colonel in the Air Force Reserve within 18 years," she said. "I signed up for senior service school as soon as the Air Force would allow. I didn't wait to be asked to go. I try to get out ahead on other opportunities to improve my skills as well."

Lucchetti has moved from recruiting to DoD's new Transition Support and Services Directorate where she helps service members leaving the military. An Air Force Reserve public affairs officer, she has been in *Who's Who Among American Women* since 1988, but she has followed an unusual route to get where she is today.

She joined the Army to be an officer when she was 30 because the advertising firm she worked for wouldn't make her a vice president. "I brought in more money for the firm than anyone else, so I felt I deserved it. My boss came right out and told me that I didn't need the money because I was female and single. They gave the promotion to a married man who was about my age, but who hadn't brought in as much business as I had. So I quit," she said.

Lucchetti said women have to be ready to step backward or sideways to come out ahead. "I took a big pay cut to join the Army. But in the end, it was worth it. Taking basic training when I was 30 was easier in some ways than doing it as a younger woman. I was able to keep my eye on the ultimate goal of being a commissioned officer. I saw 21-year-olds go belly up when they lost their weekend privileges. Being older, I was content to stay in the barracks and read a book," she said.

She's seen a lot of change in her 20 years of military service.

In 1973, she was assigned to the Army's 3rd Ar-

mored Div. in Germany. "The interpretation of the Army's combat exclusion rule was more rigid then. It made it impossible for women to compete fairly for promotions," she said. "For example, I was supposed to follow behind the soldiers in a jeep and cover maneuvers. My boss told me my orders had been pulled. I questioned my commander's decision to no avail. Today, no man in the military would look at you and say you can't do it because you're a woman."

She said some restrictions meant to protect women had the opposite effect. "I was responsible for being an officer sentry patrolling the perimeter where tanks were parked," she recalled. "There had been numerous incidents of theft. However, women were not allowed to carry sidearms. I asked if I could carry one and was told 'no.' I asked if I could have an armed male escort. I was asked, 'Are you saying you can't do your job, captain?'"

"So, I found the biggest umbrella I could and did my sentry duty with that as my 'weapon.' That meant I was out of uniform — but I didn't care," she said.

Shortly after that, Lucchetti left the active Army. "I was quitting a full-time job at the height of the mid-1970s recession, but I had veterans preference and could get into the federal government."

She started her civilian career in the Navy Recruiting Command as a GS-12 in 1975. She joined the DoD recruiting program office in 1988, several promotions later, and is now on detail to the transition support office.

She also signed up with the Army National Guard. "I stayed two years, then joined the Air Force Reserve because I saw more opportunity for promotion in my field," she said.

Although she doesn't recommend switching services for everyone, she said women have to look around to see where the opportunities are. "Whether in industry, civilian government or the military, a woman still has to overperform by 100 percent to get as far as a man. You can't sit back and wait for them to recognize you," she emphasized.

"When I joined the service in 1971, women who

became pregnant had to leave if they wanted the baby. Single mothers were automatically out. Pants were not part of the uniform, and women couldn't carry firearms. Now, we have women in Desert Storm, serving side by side with the men.

"Things have even changed in the last 10 years. In 1980, I was sitting in a room full of O-6 officers planning a DoD-wide recruiting campaign," Lucchetti said. She suggested that women's issues be addressed, that women be shown in the ads. She was told that the military already had enough women, didn't want any more, and was reminded that she was not a voting member of the committee, so she should sit down and be quiet.

"In 1988, I was at the same kind of committee meeting. I recommended that we have an ad with all women military members. This time, what I had to say did count and we made the ad."

Lucchetti says she sees very little discrimination based on sex in the military today, but sexual harassment does exist. "Most of them — men and women — don't realize that what they are doing is sexual harassment. That's why I'm glad to see both civilian workers and military members are provided more training in this area."

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Special Olympics

The Huntsville/Madison County Special Olympics Program has been established to give the mentally and physically handicapped a chance to develop their skills, experience success, and grow both physically and mentally through an organized program of physical fitness. Army Community Service Exceptional Family Member Program (EFMP) is coordinating support efforts at Redstone Arsenal. Volunteers are needed. A bowling event will be held March 1. A track and field event has been scheduled for April 18. If interested in volunteering or for more information, call Frances Howard at Army Community Service 876-2859/5397.

Self-Help news

In accordance with the Letter of Instruction, Directorate of Engineering and Housing, Expanded Self-Help Center, March 1, 1990, all work accomplished under the Expanded Self-Help Program must be inspected upon completion. After the completion of a project, the family housing sponsors, building custodians or company commanders should call Tim Sumners, chief of work management branch, at 876-3835 for inspection. *Attention family housing occupants:* Prior to Feb. 12, lawn mowers were issued from and turned in at building 3653. Effective immediately, all lawn mowers will be issued or turned in at building 3500, the Self-Help Store.

OWC donations

Officers Wives Club is accepting requests from charitable organizations for financial assistance. Written requests outlining ongoing programs and reasons for financial assistance should be mailed to Patricia Girlando, 32 Ripley Drive, Redstone Arsenal 35808. Requests should be received by March 15.

Gospel program

Workers for Christ Ministries is sponsoring a musical program 7 p.m. March 9 at the New Life SDA Church, 4906 Blue Spring Road.

Garden plots

Attention family housing occupants: Anyone residing in government quarters who wishes to have a garden plot must contact the Family Housing Office by March 15. The plots are issued on a first-come, first-serve basis. After March 29, no new plots will be issued. For more information, call Ann Neal 876-1445.

All Army sports

Upcoming trial camps for male and female soldiers include the following: *bowling*, Fort Hood, Texas, April 14-19, application due March 14 at Department of Army Sports; *volleyball*, Fort Indiantown Gap, Pa., April 17 to May 10, application due March 18 at DA sports; *track and field*, Presidio of San Francisco, April 22 to June 1, application due March 22 at DA sports; *taekwondo*, Fort Indiantown Gap, April 30 to May 16, application due March 29 at DA sports; *racquetball*, Fort Hood, May 1-10, application due April 1 at DA sports. For more information, call Ted Compoc 876-7969.

Health classes

Fox Army Community Hospital on March 12 will begin a series of classes on the following weight-loss subjects: how to manage weight with less guilt; how to enjoy the process more; how to decrease frustration; how to integrate low fat foods for a tasty, healthy diet; how to deal with stress, boredom, loneliness that get in the way of weight loss efforts; and how to deal with tough issues — when weight loss isn't enough. This series of classes is part of the Army Health Promotion Program and is open to active duty, family members and Defense Department civilians. Class size is limited. For an application or more information call Maj. Sue Willis, community health nurse, 876-8837.

Federal women

Federally Employed Women will have a special program for Women's History Month 11 a.m. March 14 in the Regimental Room of the Officers Club. Dr. Ann Stanley is to speak on the changes she has observed in the progress of women scientists and engineers during her career. Stanley is chief of the chemical and materials science branch at weapons science directorate, Research Development and Engineering Center. In 1989 she won the Supervisor of the Year Award from the Federal Women's Program. Everyone is invited to attend. For more information, call Olivia Martin 842-6790.

Officers wives

The Officers Wives Club will hold its March 12 luncheon at the Officers Club. "Enjoy the delightfully entertaining skit 'The Basic Black Dress' as it depicts phases of an Army wife's experience from marriage through her husband's retirement." A taco salad buffet will be served for \$6.25. Social hour begins at 11 a.m., with the luncheon at 11:30, and the program to follow. RSVP by noon March 8; call after 2 p.m.: Elizabeth Bradshaw 837-3442 (A-H), Lawanda Blue 837-1957 (I-P), Judy Westrum 830-5287 (Q-Z and newcomers). Cancellations should be made by noon March 11; for cancellations, call 830-5287.

Post Theater movies

Thursday — *Not Without My Daughter*, rated PG-13, 114 minutes. Friday — *Mermaids*, PG-13, 110 minutes. Saturday — *Home Alone*, PG, 103 minutes. Sunday — *Home Alone*. Tuesday — *Tune in Tomorrow*, PG-13, 107 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

Contracts seminar

"Managing Contracts for Peak Performance" is the subject of a seminar March 15 at the Ramada Inn, Madison. The course is offered by the National Contract Management Association. "This year's seminar provides a comprehensive look at the progressive stages of a contract, and presents building blocks for successful performance," states an NCMA news release. "The Huntsville Chapter seminar will be taught by a distinguished panel of instructors. To complement the speakers' presentations, attendees will receive a copy of the 1991 NES (National Education Seminar) manual." Registration fee for the seminar — which includes the manual, lunch and refreshments — is now \$145 for NCMA members and \$195 for non-members. To register, call Joni Coan 726-2397.

Aeronautics/astronautics group

Alabama-Mississippi Section for the American Institute of Aeronautics and Astronautics will meet March 21 at the Radisson Suite Hotel, 6000 South Memorial Parkway. Social begins at 6 p.m., dinner at 7 and the program at 8. James Katechis, project manager for the Ground Based Interceptor Project, is to speak on "the Strategic Defense Initiative: the technology of advanced ballistic missile defense interceptors." For reservations mail your check payable to AIAA for \$13 to Steve Hollich, 2409 Yorkshire Drive, Huntsville 35803, by March 19. Phone reservations (544-2475) and walk-ins are welcome, but the price at the door is \$15.

Job information day

The Army Community Service Family Member Employment Assistance Program will hold its monthly Job Information Day on Thursday, March 14 at building 3491. Representatives from Civilian Personnel and Non-Appropriated Activity offices will be available from 8-11 a.m. to answer questions and discuss how to apply for employment within the system. At 1 p.m., a free class will be offered on how to complete the federal form SF-171. For more information or to register for the class, call 876-5397.

Tall club

Rocket City Tall Club, a social organization for tall people, will meet this afternoon at 5:45 at the Classic Cafe, 5901 University Drive northwest.

Toastmasters

Tennessee Valley Toastmaster Club, Toastmasters International, will meet 6:30 p.m. Thursday at Shoney's Restaurant, 3301 Memorial Parkway southwest. "Come early and join us for dinner and conversation before the meeting." Meetings are held the first and third Thursday of each month. For more information, call Anne Hughes 881-8707.

Learning center

The Army Learning Center (ALC) System offers the following laser disc courses: Using Personal Computers; Wordperfect 5.1; Lotus 1-2-3; dBase III Plus; and PC DOS for Hard Disk. These courses provide hands-on training. For more information on these and other courses, call 876-9416/1416.

AUSA luncheon

Association of the U.S. Army will have a membership luncheon April 11 at the Officers Club. Social begins at 11:30 a.m., with lunch at noon. Scheduled speaker is Constance B. Newman, director of the Office of Personnel Management. Cost is \$7.50 (tables of eight available). For reservations, call Martha Townsend or Darla McClure 650-1000 by April 8.

Financial seminar

A "Financial Management in a Changing Environment" seminar will be conducted April 22-23 in the Von Braun Civic Center north hall. Sponsors include local accounting professional societies and Alabama A&M and UAH. The seminar has three tracks and 10 speakers and is approved for eight hours of Continuing Professional Education credit. MICOM training requests should be turned in by March 22, using course code JSO228. For information call Lena Williams 842-7177.

Preventing strokes

A free public seminar on "Prevention of Strokes" will be given by Dr. William Hubbard, associate professor of family medicine at the UAH School of Primary Medical Care, on March 19 at 7:30 p.m. in the UAH Clinical Science Center lecture hall. He will talk on the types of strokes, associated risk factors and prevention, considered the only true effective treatment for strokes, which are caused mainly by hypertension. For information call 251-4424.

Coed softball

The Civilian Welfare Fund (CWF) Coed Softball League is being organized for the 1991 season. If you have a team you wish to enter, if you want to play on a team, or if you have any questions, call Shirley Anderson 842-0524 or Jim Chiarizio 876-1230. This information is required by March 15.

Business women

Ala-Hunt Chapter of the American Business Women's Association will have its monthly meeting March 12 at the Huntsville Hilton and Towers. Social time is from 5:30-6:30 p.m., with dinner beginning at 6:30. For reservations or cancellations, call Joann Lynch 837-3798 (home) or 880-9964 (work) by Friday.



Road race

The 18th annual *Rocket Run* road races 10-mile and 5K (3.1 mile) 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.

Travel vouchers

Effective March 1 a policy change to Army Regulation 37-106 requires a traveler to submit a travel settlement voucher to the Finance and Accounting Office no later than five working days after completion of travel. This new requirement changed the number of days from 15 days to five working days. If the settlement voucher is not received in F&A within 30 days after completion of travel, the travel advance will be considered delinquent and collection of the amount advanced will be deducted from the travelers' next regular payday.

Youth coaches

Redstone Youth Services Sports will conduct a National Youth Sports Coaches Association Clinic (NYSCA) for Baseball and Softball from 6 to 9 p.m. March 26-28 at the Youth Center, building 3148. For more information, call 876-BALL.



Carpool Hotline

Call 876-1500 to place your free carpool ad.

Athens

Carpool member wanted from Athens to 5400, 5435, 5250 or vicinity, hours 6:30-3. Larry Nichols 876-6121, June Mann 955-6174 or Ruby Moore 876-0432.

Highway 72 West

Ride wanted from Highway 72 West/Wall Triana to 5435/5400 area, hours flexible. Will help pay for gas. Mike Zander 876-8355.

Winchester, Tenn.

Carpool member wanted from Winchester, Tenn., to vicinity of 4200 (MSFC headquarters) or SDC at Research Park, hours 7-3:30. Wayne Simpson 895-3112 or Fred Schramm 544-0823.

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.

FOR SALE: 1988 Dodge Ram Customized Van 250. Air conditioning, full power accessories, leather interior, front and rear am/fm cassette, front CD player, VCR, color television, cruise III wheel, light blue color, 28,000 miles, excellent condition. RFCU loan value \$17,000, asking \$10,000 and assume payments or best offer. Call (205) 895-0460 after 5 p.m.

FOR SALE: Gemeinhardt open-hole flute. Very good condition. \$150. Call 536-3578 and leave message.

FOR SALE: 1981 Honda Civic Station wagon. 5 speed, transmission recently replaced, new tires. Good condition. One owner. Well cared for. No known mechanical problems. Asking \$1200 or best offer. Extra vehicle reason for selling. Call 536-3578, leave message if no response.

FOR SALE: Sofa, love seat, matching high wing-backed chair, medium blue with small floral print. Nearly new, very clean, \$900. 837-4249 and leave message.

FOR SALE: 1976 Camaro. V8, automatic, power steering, air conditioning, stereo tape deck, new battery, good condition. \$1900 negotiable. 883-2247.

FOR SALE: Boat and motor. Baker RST 20'. Tunnel hull. California-style runabout, hydraulic jack plate, hot foot, all gauges, seats 7, black with 7 shades blue striping. 1990 limited edition 200 hp Evinrude, nose cone, low water pickup, 3 year factory warranty. Tannum axle trailer, excellent condition. 85 mph, must sell. \$13,000 or best offer. 882-9171.

FOR SALE: 1991 Chevrolet S-10 pickup. 5 speed. Payoff or take up payments of \$196.85 a month. Call 587-9320.

FOR SALE: Two tickets to the New Kids On The Block concert for March 24, 1991. Great seats to a sold out concert. Call 880-1412.

FOR SALE: Twin size box springs and mattress with frame, \$175; 1 leather top light mahogany end table, \$45; 1 solid maple end table, \$24.50; Walnut coffee table with matching end table, \$175; Antique birds-eye maple dresser with large attached swivel mirror, \$675. Call anytime, 536-4718.

FOR SALE: Computer games for IBM compatibles. Includes Knights of Legend, Star Fleet II, Under Fire, Platoon, Tank Platoon, Star Flight II, Battlehawks 1942, F-19, D&D Secret of Silver Blades, Champions of Kryne, Curse of the Azure Bonds and more. Priced \$10-\$30. Call 461-8267.

FOR SALE: Antique solid mahogany upright piano, \$500. 880-2804 or 842-8727 after 5 p.m.

FOR SALE: Upright Kelvinator freezer, 21.1 cu. ft., good condition, \$65. 842-8727 or 880-2804 after 5 p.m.

WOMEN'S UNIFORMS FOR SALE: Class B dress shirts, pants and a skirt, sizes 12-14, \$10 each; New pair of cotecram low quarters, size 9-10, \$10. All in excellent condition, worn for a very short time. Call 461-8181.

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

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, call length, 42L, S, \$20, includes lining. 461-8181.

FOR SALE: 1984 Chevy Camaro. Black with gold trim and Riken wheels. Air, power brakes and steering, automatic transmission. All manuals/maintenance record book. Extremely clean, no rust. Everything works. \$2850. Call 880-0519 anytime.

FOR SALE: Burgundy leather sport jacket, new, size 46 long, \$50. 539-2559.

FOR SALE: Wedding dress, size 6. Short puffed sleeves, fitted bodice, cathedral train, heavy white satin covered with seed pearls and sequins. Paid \$700, asking \$300. (205) 971-5084.

FOR SALE: White desk with hutch, Sears French Provincial style. \$45. Call 859-6079 after 5 p.m.

FOR SALE: 1988 Honda Accord LXI. Air conditioning, power steering, power brakes, tilt steering, automatic, sunroof, top of the line cassette player, full power, cruise, 47,000 miles, excellent condition. \$9700 or best offer. Call 837-9306.

FOR SALE: 1976 Chevy C-10 pickup, 250 6 cylinder, runs great. Asking \$1250. Call 830-1705 after 4:30 p.m.

FOR SALE: 1980 80 Yamaha motorcycle. \$200 or best offer. 828-5166 after 5 p.m.

FOR SALE: Ludwig snare drum (silver) with case, stand and practice pad, \$120; Casio PT-100 electronic keyboard, new condition (in box), \$20; Hanksraft room humidifier, \$7. Call 883-1339.

FOR SALE: 1970 VW "Bug", \$500; Hitachi VCR, \$90; GE 19" color television, \$250. Call 842-9463.

FOR SALE: 1990 red Nissan SE-V6 Kingcab with fold-up jump seats, sunroof, am/fm cassette stereo, air conditioning, loaded with extras \$11,500. (205) 586-5422 (Arab).

FOR SALE: 1968 Ford Mustang. Red, in good condition. (205) 586-5422 (Arab).

FOR SALE: Size 8.25-14 tire and wheel, good condition, \$35. 536-9327.

FOR SALE: 1950's Jacobson reel power lawnmower, for parts, \$20. 536-9327.

FOR SALE: Men's golf clubs (mixed), 3 woods, 8 irons plus golf bag. All in good condition, \$75. Golf balls, recycled, \$3 per dozen. 536-9327.

FOR SALE: 1962 Chrysler Newport. 2 door, runs very good, \$1900. 536-9327.

FOR SALE: 1974 Volkswagen Dasher. Front wheel drive, 2 door, 4 speed, light blue in color. Second owner since April 1976. Car has been well maintained, maintenance records available. Price \$550. 539-6722.

FOR SALE: 1982 Chevy Cavalier. One owner, low mileage, 4 cylinder, 2 door, air, automatic transmission, good condition, \$1500. Call 852-5397.

FOR SALE: 1986 Buick Century. Four door sedan (limited), one owner with approximately 75,000 miles. Power steering and brakes, four speed automatic with overdrive. Cream with dark blue vinyl top. Wire wheels, power door locks, V6, \$4750. 881-3061. Excellent condition.

FOR SALE: 1989 Nissan pickup, 5 speed stick, am/fm cassette, sliding rear window, no air, excellent condition, 12,000 miles, \$6000. Call 536-2249.

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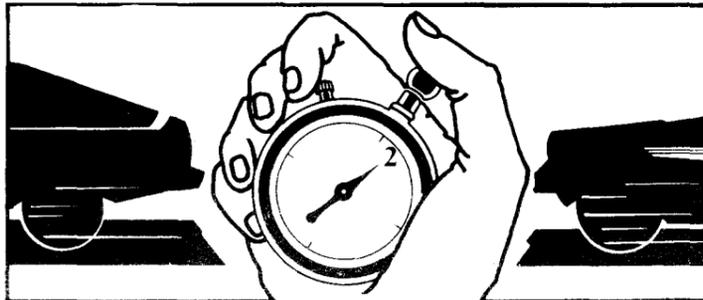
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The "2-second rule"

Watch the vehicle ahead of you pass a fixed point such as a sign, fence post, etc. Then, begin counting off the seconds it takes you to reach the same point — "one thousand and one, one thousand and two." If you reach that point before two seconds have passed, you should slow down and increase your following distance.

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1. Eat high-fat, high-cholesterol foods.
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Follow these steps and you could retire from work, and from life, sooner than you planned.

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WE'RE FIGHTING FOR YOUR LIFE

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 8 1/2 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.

you submit more than one classified at a time, place each 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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\$12.00 VALUE NOW JUST \$6.00*

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AC Air Filters 2.99 Round-type Filters. Panel-Type Filters... 3.99. Limit 2 at Sale Price.

DELCO Freedom 60 44.88 Delco's Best Selling Battery. 60 month limited warranty.

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<p>PEAK Anti-Freeze In-Store..... 4.27 Mail-in Rebate... 1.50 Limit 2 Gal. 2.77 Gallon After Rebate Gallon 78-8140-2</p>	<p>PHILIPS Lighting Center HALOGENS 4 Lamp..... 4.88 2 Lamp..... 9.88 Capsules..... 9.88 NON-HALOGENS Round..... 1.88 Rect. 4-Lamp..... 3.88 Rect. 2-Lamp..... 5.88</p>	<p>LIFETIME WARRANTY Our TOUGH ONE Water Pump Domestic units in stock now. 22.88 Exch. 1 Yr. Warranty.... 14.88 Ex</p>	<p>Blue Coral Clear Magic Now... Multi-purpose. Cleans and degreases. 2.97 22 ounce. 73-1364-5</p>	<p>ARMOR ALL Protectant 32 oz. size. Protects and beautifies. 5.99 73-4834-5</p>	<p>PIRELLI V-Belts Now... O.E. Quality. Available for most cars, trks. 4.79 20% Off Multi-Rib & Serpentine.</p>

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