



# Redstone Rocket

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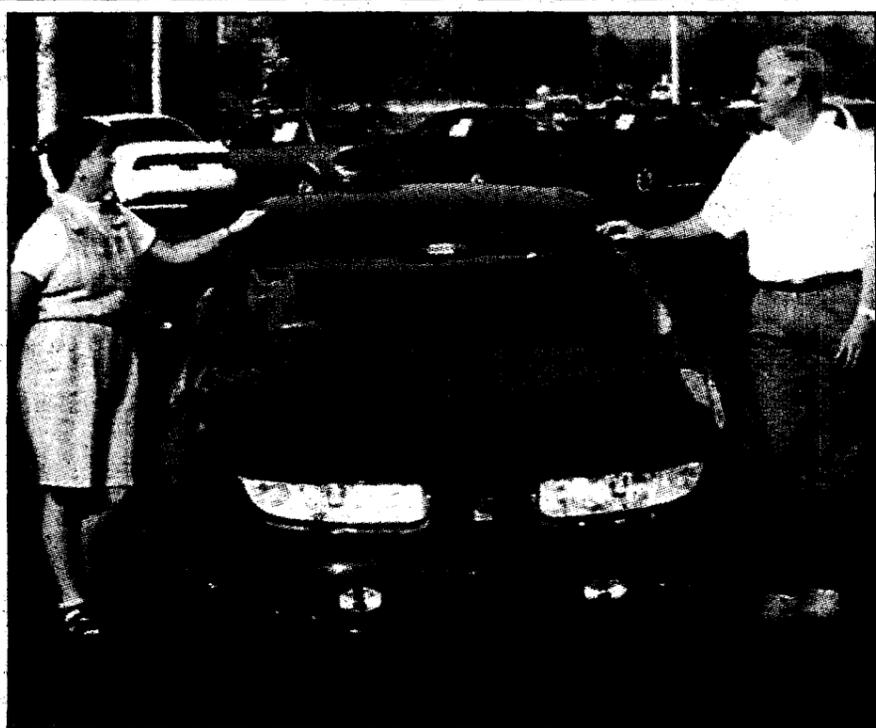


Photo by Skip Vaughn

## Golf prize...

A 1998 Saturn, donated by Saturn of Huntsville, is the hole-in-one prize at the fourth annual Pineapple Open Golf Tournament, Oct. 3 at Redstone Golf Course. Sept. 30 is the deadline to enter this four-person scramble presented by the Officer and Civilian Women's Club. Linda Leonard, OCWC

president and tournament chairman, discusses the car's features with Todd Jennings, Saturn sales representative. "The hole that it's on will be Meadowview No. 7," Leonard said. "And there are also bonus hole-in-one prizes on the other par 3s." For more information, call her at 890-0771.

## Base operation support contract faces major cut in fiscal 1999

Reduced funding will mean less maintenance on buildings, roads

By Skip Vaughn

Gallows humor abounds these days at the Directorate of Public Works, but it doesn't ease the pain.

Take the unofficial motto of DPW: Just when you thought you've reached bottom, somebody throws you a shovel so dig deeper. Or, there's no light at the end of the tunnel because it got turned off due to budget cuts.

Truth is there's no relief coming this year. Base operations funding is expected to be cut about one-third for fiscal 1999. This means effective Oct. 1

See CUT on page 22



Howard Berryhill/DPW

**ROOF REPAIR**— This ongoing roof repair job at building 3436, by Northrop Grumman workers, will become a thing of the past. There just isn't enough money in the budget for such jobs in fiscal 1999.

## Comanche attack helicopter lifts Army aviation into 21st century

Prototype performance deemed topnotch after 100 flight hours

By Sandy Riebeling

War isn't what it used to be. Thirty years ago or more, during the Vietnam era, military forces were just discovering the power of warfare in the skies. The Army began developing some of the most advanced helicopter aviation technology in the world. And by the looks of the RAH 66-Comanche, they're still king of the hill.

The Comanche is a lightweight, twin engine helicopter built to replace the aging 30 to 40-year-old fleet of tactically obsolete OH-58 Kiowas and AH-1 Cobras. Its primary mission is armed reconnaissance and attack with air combat capabilities.

It's faster, more maneuverable, less detectable, self-deployable, cheaper to maintain and easier to fly than the current fleet. And it has been a long time in coming.

"We haven't had a new helicopter in 20 years," Brig. Gen. Joseph Bergantz, pro-



Photo from Comanche PM

**INTO THE FUTURE**— New design features allow the Comanche's weapons system and landing gear to be retracted for added stealth against enemy radar detection.

gram manager for the Comanche, said. "The ideas incorporated into the Comanche started back in the early '80s. Those ideas took some time to gel into what was needed in a new aircraft."

Boeing Helicopters and Sikorsky Aircraft began development in 1991. Like most Department of Defense programs over the past several years, funds have been

tightened and delivery dates extended due to restructuring of near-term monies. It wasn't until 1996 that the first prototype took to the skies.

The Comanche has completed 94 flights for a total of 105.6 flight hours. It has flown as high as 9,500 feet, 171 knots in level flight and 204 knots in a dive. It can fly sideward at nearly 70 knots. It is survivable

under all mission scenarios and is highly maneuverable and agile.

At first glance, it's easy to see that the Comanche doesn't look like most helicopters. Special features designed into the exterior of the aircraft make it hard to detect, increasing the survivability of the machine and pilot.

Low radar signature detection features include the slim-line fuselage design with retracting weapons system and landing gear. The gun barrel, located under the nose of the aircraft, turns 180 degrees so that it rides under the body of the helicopter when it is not in use. The exhaust system pushes the air out of the bottom and uses the tail cone for mixing outside air with the exhaust, which lowers the infrared (heat) signature and makes it less detectable. The "skin" is also a new feature, made from composite radar absorbing material.

"The new design makes it much harder to find us," Bergantz said. "We can get closer to the threat without being detected."

The enclosed tail rotor increases helicopter safety for pilots and crew. It also

See AVIATION on page 20

Arrow flies...

# Joint U.S.-Israeli weapon system achieves flight test goals

A successful test of the Arrow weapon system was conducted Sept. 14 at the Palmachim Test Range, Israel.

The test was an open loop fly-out test against a simulated target and was not designed to intercept a real target. This was a full system test with all elements of the Arrow system participating actively.

The Radar Environment Simulator generated a threat target and trajectory which the Green Pine Fire Control Radar detected

and tracked. Data was then passed to the Citron Tree to process and to conduct mission planning. Subsequent to this, the Citron Tree passed the launch command through the Hazelnut Tree Launch Control Center and launcher, launching the missile. The missile received continuous uplink data from the Citron Tree through the fire control radar.

From preliminary analysis, all weapon system elements performed as planned and

all test goals were achieved. Ninety-seven seconds after liftoff the flight was completed as planned.

The Arrow Program is a joint U.S./Israeli effort to develop the Arrow weapon system. Future Arrow Program efforts will demonstrate the ability of the AWS to identify and engage potential tactical ballistic missile threats to the State of Israel. Israel Aircraft Industries is the prime contractor. U.S. participation is

directed by the Ballistic Missile Defense Organization within the Department of Defense. The Program Executive Office for Air and Missile Defense manages the U.S. effort. The Israeli Missile Defense Office of the Ministry of Defense manages the overall Arrow system development and testing.

The information gained from this program has potential application for several U.S. missile defense programs.

## Letters To The Editor

### Paybanding vote

The moment that you all have been waiting for has finally arrived. Your representatives (AFGE members) have spoken and I have heard them. The following letter was sent to all agency heads stating our position.

"The American Federation of Government Employees (AFGE) Local 1858 held its monthly membership meeting on Sept. 14 at the Sparkman Center Auditorium. One hundred and twenty-one members attended with most bargaining units represented plus two Kwajalein members in attendance via video-teleconference. One hundred and nine members voted against AFGE Local 1858 participating in the DoD Acquisition Workforce Personnel Demonstration Project. The remaining 14 members abstained with zero votes cast in favor of participation.

"Based on this vote, AFGE Local 1858 will not be participating in the development of any implementation plans relative to this project. As a result of this vote, all DoD (mostly Army employees) represented by AFGE Local 1858 will remain under the present personnel system."

**James R. Brothers**  
President,  
AFGE Local 1858

### Going badgeless

Why has a longstanding regulation been relaxed or apparently relaxed? I am speaking of the one that governs security badges. I have observed over the last several months a few federal employees on Redstone Arsenal and in particular in the Sparkman Complex who never wear their security badge any more. I have always been of the opinion that if you're a government employee, you are out of uniform if you're not wearing your badge. Just like the military personnel have a certain uniform they are expected to wear during duty hours.

I have asked some why they did not wear their badge and was given every excuse from A to Z like leaving it at home, misplacing it, leaving it in their cars or keeping it in their desk at work.

I have been employed by the government for almost 21 years and a security badge has always been a requirement. Why are certain ones allowed to disobey the law and continually get away with it? Even some supervisors are guilty. Perhaps some chastisement is in order? And no, I am not in charge of security but what is good for the goose is good for the gander.

Name withheld by request

## Laboratory mishap causes damage on post

Workers escaped serious injury Thursday in a mishap at the Propulsion Laboratory.

A test fixture was destroyed during the incident at 2:05 p.m. at building 7120, according to the AMCOM Safety Office. One operator was sent for medical evaluation because of ringing ears, a safety report said.

"While this was an energetic event, it appears to have been a pressure rupture of a vessel containing energetic materi-

al, not an explosion," the report said.

Approximately 1.5 liters of washout slurry from a Hellfire motor was brought to the facility for final neutralization. This is part of the ammonia washout process that is under development. It was placed in a 1 gallon steel reactant vessel and ammonia added. Heat was applied through a water jacket. Facility is a explosive bay (15 pound limit) with blow out wall and roof. After about an

hour and a half, the operator noticed the internal temperature began to exceed thermostat setting, indicating uncontrolled internal reaction. He departed the bay. He was outside the bay when a sudden rupture of the vessel occurred. The flanged lid was propelled through the roof and landed in an adjacent bay. The vessel was fractured, pieces leaving the bay. The blow out wall was sacrificed.

Lights out...

## Let's do lunch with quick click for energy conservation

By Morton Archibald

Get out of the office and save some energy.

On Oct. 1, do something different for lunch. Have your lunch at the picnic table outside, visit the nearest cafeteria or just go to your favorite restaurant. Whatever you decide, just be sure to do the Quick Click and turn off all unnecessary equipment and lighting as you leave.

As a part of the AMCOM Energy Awareness Campaign, the Missile Research Development and Engineering Center is coordinating a postwide "blackout" on Oct. 1 from 11 a.m. to 12:30 p.m. No, we're not

authorizing you an extra long lunch break. Just take whatever time you are entitled to during this period.

The main emphasis of this blackout is to have each organization to reduce electrical usage during a portion of the day when most offices are vacant for at least 30 minutes. While energy conservation is the main goal, we will not sacrifice the safety of employees, neither will we do anything which impairs the mission of any office. Remember to "Conserve with Comfort and Common Sense." If you really need it, use it, but when you are done, turn it off.

The idea is to determine

how much we can reduce our peak electrical demand during this period. "Demand" charges are the penalty we pay TVA when our maximum electrical use far exceeds our average use. It is designed to compensate the utility provider to ensure there is enough power when we do need it. The demand charge concept is very complex, but the bottom line is that we pay more for all electricity when we use more during the peak hours between 11 a.m. and 3 p.m.

We suggest that you turn off all hall lights where halls are also provided with natural light at a minimum lighting level of approxi-

mately 10 foot-candles. Turn off the office lights if the office will be vacated for more than five minutes—such as when your group is participating in the Blackout Luncheon.

On Oct. 1, enjoy your lunch break out of the office and motivate your team to save energy. Just "Do the Quick Click for Energy Conservation" as you leave. We will be monitoring the energy demand meter that day. We'll let you know how you did.

(Editor's note: Archibald is team leader of the AMCOM Energy Team. He is a registered professional civil engineer with the Directorate of Public Works.)

## From secretary's desk: Hispanic Heritage Month

By Secretary of the Army Louis Caldera

Hispanic Heritage Month, which runs from Sept. 15 to Oct. 15, provides us with an opportunity to recognize the many contributions of Hispanic-Americans to the U.S. Army and the Nation. I encourage military installations around the world to commemorate and celebrate these important achievements along with recognizing the important role Hispanic-American soldiers and civilians continue to play in the success of our Army.

We have a rich legacy of Hispanic-American service in the Army. His-

panic-American soldiers have fought in all of our nation's conflicts, including on both sides in the Civil War. Thirty-seven have earned the Medal of Honor, including eight during the Korean conflict and thirteen during the war in Vietnam.

The story of Hispanic-American soldiers demonstrates the tremendous opportunities the Army provides to all Americans. Their numbers in our enlisted ranks have doubled during the past 20 years, and there are more than three times as many Hispanic-American officers as there were two decades ago. Like all soldiers, they have become

stronger and better citizens who continue to serve the Nation in and out of uniform. Our strength as an Army and pre-eminence in the world reflect the quality and diversity of our people.

Traditionally, military installations throughout the Army schedule guest speakers, cultural events, and other observances in honor of Hispanic Heritage Month. Please join me this year in celebrating our rich diversity and honoring contributions Hispanic-American soldiers have made to our Army and Nation.

## Redstone Rocket

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Roving on the sands....

# Air defenders expand their battlespace with field exercise

By Charles Treece, Joe McCallion and James De Lary

Spec. Carl Welborn, 1st Squad, 3rd Platoon, Alpha Battery, 1st Battalion, 44th Air Defense Artillery, ground guides the Avenger, enhanced with slew-to-cue capabilities, into position behind a small sand dune in the desert expanses of Fort Bliss' McGregor Range.

He begins to set up his position on his assigned Primary Target Line and remote out his Remote Control Unit. Normally, he'd be doing this as part of a "best crew" competition or a crew drill evaluation in the unit's motor pool at his home station of Fort Hood, Texas. But not today.

Today, April 22, 1998, Welborn and the rest of 3/A/1-44 ADA are deploying to protect critical fuel points of the Corps Support Command against enemy aircraft and cruise missiles, which are expected to attack via the low altitude avenues of approach to the southeast.

The platoon's four Avenger fire units are deployed with a Sentinel Radar and two Sensor C2 Nodes, one of which serves as an Air Battle Management Operations Center. These elements allow the fire units to detect, cue on, engage, and report results on attacking enemy airborne platforms.

### Air avenues

The platoon's mission is doubly important because these low altitude air avenues of approach represent a "back door" approach to the friendly forces' area of operations, and access to other key assets such as Air Defense units, C2 facilities, and troop concentrations.

Welborn is aware of all this, and he knows that the enemy Dahibian Forces

have pushed well into coalition territory, and that reducing or eliminating their air and rocket capabilities will help ensure victory.

The Avenger is in position. Welborn and his gunner, Spec. Lamonte Robinson, man their RCU position, and begin to scan the skies to the southeast. They won't have to wait long.

Back in the M-1097 High Mobility Multi-wheeled Vehicle-mounted S-787/G shelter, which serves as the Sensor C2 Node/ABMOC(-), Spec. Stephen Boarts' air picture shows correlated tracks from both his own Sentinel radar and the Patriot batteries deployed to the north-west.

The Sentinel radar's 360 degree search pattern is looking out over 40 kilometers for low-flying air breathing threats, with particular concern down that approach route to the southeast.

However, the radar also does a good job of scanning against the steep cliff face formed by the 2,000-foot ridge line about 10 kilometers to the east. Aircraft or cruise missiles coming around or over this ridge could surprise and destroy friendly troops and assets.

The tracks that Boarts is seeing are also going out to the rest of the joint force air and missile defense units by way of the Joint Tactical Information Distribution System Class 2M Radio. Just prior to this mission,

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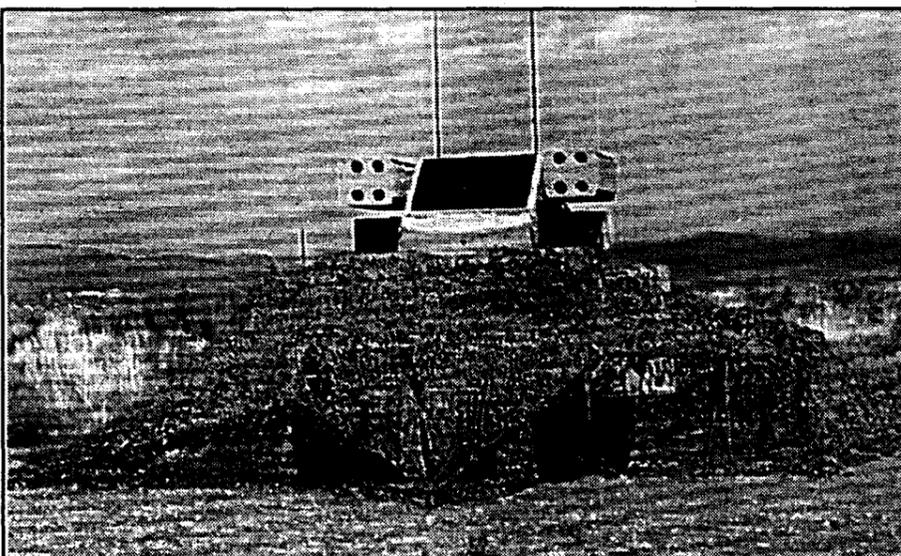


Photo by Jay Forsyth

**ON DUTY—** An Avenger of the 1-44 ADA looks for hostile cruise missiles during the live fly portion of Roving Sands 1998. Avengers acquired and engaged several cruise missile surrogates (Air Force T-38s) during the exercise.

the Sensor C2's software was upgraded to enable the ABMOC(-) to transmit Sentinel-acquired tracks out to other JTIDS-capable units.

### Enemy missile

Suddenly, the Sentinel detects a suspect air track. Boarts checks it out. It's coming from the southeast, now about 20 kilometers out, headed their way. Speed is high, altitude is low. The Sentinel's identification, friend or foe transmitter is looking for a certain response to its inquiry, but no answer from the tracks.

"No IFF, violating pop-up and ingress criteria, Sir," Boarts says to McCallion, the officer-in-charge and battle manager. "Looks like an enemy cruise missile to me!" The captain confirms his conclusion, Boarts designates the track as hostile, and things begin to happen.

On Boarts' screen, the "hostile" designation changes the color of the track symbol from yellow for unknown to red for hostile, and almost instantly, nearby Patriot units "up" on the JTIDS net share the

updated position and status of the track. This air picture is simultaneously sent out to the fire units and the Platoon Command Post via Sensor Broadcast over the unit's Enhanced Position Location Radio Set radio net.

The platoon leader, 2nd Lt. Kevin Duvall, analyzes his handheld terminal unit display and decides that Welborn's team is in the best position to engage and destroy this hostile track.

Duvall immediately notifies Welborn to "hook" Track 010 and begin track-

ing it. Welborn easily identifies Track 010 on his HTU at his remoted position. He "hooks" the track; and with the ease of pushing a button, the turret instantly slews toward the oncoming missile and begins tracking.

"I've got him now," Robinson calmly reports to his team chief. The turret continues to move slowly as it tracks the incoming threat. Through their Combat Vehicle Communications headsets, both team chief and gunner hear the steady tone letting them know their Stinger missile is ready.

The incoming cruise missile can now be visually acquired as it races toward its target. Welborn barks out the command to fire. Robinson pulls the trigger, the turret superelevates, and a simulated Stinger missile is on the way. Eight and a half seconds later a "hit/kill" is assigned, and the enemy cruise missile is counted destroyed.

Not bad, thinks Welborn, but his thoughts are interrupted by notification of a second cruise missile, about a klick behind the first. He "hooks" the second track and the turret once again slews to the next target...

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Setting a standard...

# Defensewide tuition assistance policy goes on rolls Oct. 1

By Skip Vaughn

Tuition assistance for servicemembers used to be as confusing as a final exam with trick questions.

Each branch determined its own tuition assistance policy. So the Army, Navy, Air Force and Marines had separate policies for its members. That will change on Oct. 1.

The Department of Defense has established a defensewide policy for tuition assistance for all servicemembers, regardless of branch. And this should be good news for servicemembers who sometimes had to wonder why their classmates weren't following the same rules.

"As a general rule I would say it's an increase in benefits, an increased benefit," James Campbell, the education services officer in Personnel and Training Directorate, said.

Under this policy, a servicemember will receive \$3,500 each year for voluntary education. And tuition assistance will pay 75 percent of his or her tuition costs, up to \$187.50 per semester hour.

TA will be paid upfront for distance learning or correspondence courses that last six months or less. "Right now a soldier is required to pay 100 percent for a correspondence course and get reimbursed for 75 percent," Campbell said. "Under the DoD policy, we can pay the 75 percent upfront for any course that does not exceed six months. If it goes beyond six months,

he still has to pay 100 percent and get reimbursed after completion of the course."

When a servicemember has a Pell Grant, TA will be applied to tuition costs first to allow the servicemember to make maximum use of the Pell Grant. Current procedure is to apply the Pell Grant first. This change means a servicemember gets tuition assistance whether or not he has a Pell Grant, and can then use his Pell Grant for other tuition-related expenses.

Under the DoD policy servicemembers must reimburse tuition assistance when they receive a failing grade, except in extenuating circumstances. Currently, soldiers only reimburse an "F" for non-attendance.

The DoD policy is good news to servicemembers for several reasons, according to Campbell. "No. 1, the Pell Grant portion of it gives them the benefit of using the Pell Grant for other things for tuition assistance," he said. "It allows them to take more semester hours in the fiscal year under the tuition assistance policy. It allows for them to use distance learning, and get 75 percent upfront. In the past, he had to pay 100 percent and get reimbursed; now we give him 75 percent upfront as long as the course he's taking does not exceed six months.

"Now (under current policy), we can only allow the servicemember to spend \$1,300 per fiscal year on non-credit bearing courses. With the new policy, he can spend



Education Center photo

## SCHOOL DAY— Students attend a Calhoun Community College class at Redstone.

up to \$3,500 per year," Campbell added.

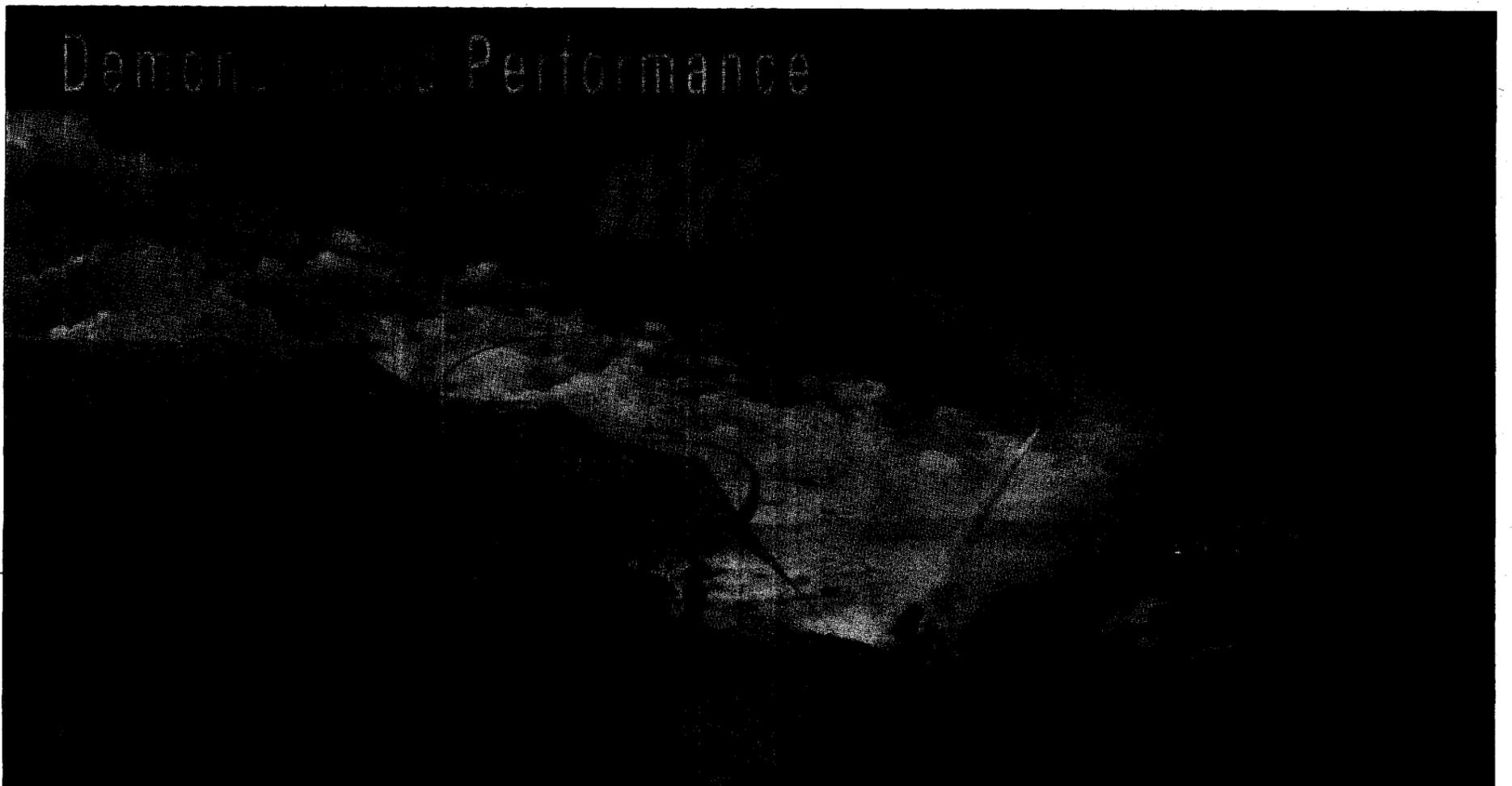
And the greatest benefit of the new policy is "it creates parity throughout the Department of Defense," he said. Regardless of branch, each servicemember will receive standard tuition assistance.

All servicemembers on active duty, including National Guard and Reserve, are authorized tuition assistance.

In other education news: The Calhoun Community College extension is offering its fall second "minimester" for those stu-

dents who prefer a condensed version of its fall semester. Under this trial program, students can reduce a 16-week semester into eight weeks by spending more hours in the classroom each week. Register early in the Redstone Arsenal Advising Center from 8 a.m. to 6 p.m. Oct. 5-15; or register on site 3-4 p.m. Oct. 19. Classes begin Oct. 20 and end Dec. 17. For more information call the Education Center receptionist 876-9761 or the counselor at 876-0080, 876-9762 or 842-9703.

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## Silent words, loud message...

# Manager honored for his support of deaf employees

By Sandy Riebeling

Frank Houck, a configuration manager with Radian Inc., a company that supports the Technical Data Division at Redstone, was chosen as Employer of the Year by the Huntsville Area Deaf Awareness Committee this month.

Houck was nominated to the committee by Carol Smith, one of three hearing impaired employees that work for him at Radian Inc.

"I was impressed by the way Frank always took extra time to explain technical stuff," Smith said. "Not every boss is like that. He really cares about his employees and always encourages us to strive for higher goals."

Houck, who has worked in support of the Technical Data Division for eight years under various contract companies, said that training hearing impaired people takes a little extra time, but it is well worth the effort.

"Terri (Boger) was here a few weeks before me," said Houck of the other deaf employee in the office. "She can hear low sounds and she does read lips, so that helped. I had to write a lot of notes but the one good thing about notes is that there's no miscommunication."

"Terri worked so hard," he said. "When I had the opportunity to hire another employee, I wanted a deaf person, someone she could communicate with."

Houck hired several hearing impaired people in the last eight years. He currently has two deaf employees and one that is hard of hearing.

"I have hearing impaired people working on three different teams, and it is working very well. The teams communicate and depend on each other. It is a great environment."

Employees working closely with Smith and Boger agree that the arrangement is a good one, saying that they are fortunate to have the opportunity to learn sign lan-

guage.

"Terri and I used to sit beside each other," Jamie Narrell said. "I didn't talk to her much because, well, you think, what's the point? But then we started to talk a little. She taught me to sign and we talk a lot now. Both Terri and Carol are my friends. I would have missed so much if I hadn't learned how to talk with them."

The good working relationship didn't surprise Houck who first had the opportunity to work with hearing impaired people in 1964.

"I worked nights at factory that paid piece work," Houck said. "Minimum wage was \$1.05 an hour and most of us guys were making about \$2 an hour with the piece work money but we had 14 deaf men working there and all of them were making like \$2.85 an hour. Of course, I wanted to make more money so I started watching them to see what they were doing."

"The first thing I noticed is that they worked as a team," he said. "They didn't talk much but they helped each other and I was really impressed with the way they worked. They helped me out, showed me a few things so I could make more money."

Houck joined the Navy not too long after that, saying that you don't live long in the Navy if you don't believe in teamwork. He retired from the Navy after serving 21 years.

So when he came to Huntsville and to this job, he welcomed the opportunity to work with the hearing impaired again. And the feeling from his employees is mutual.

"Frank's the best," said Terri, who teases Houck about his poor signing skills. "He's a good supervisor."

"These women have highly technical jobs," Houck said. "They work hard, they communicate well. I can usually understand what they say but I can't sign very well — just enough to get by."

Houck said the award came as a great shock to him.

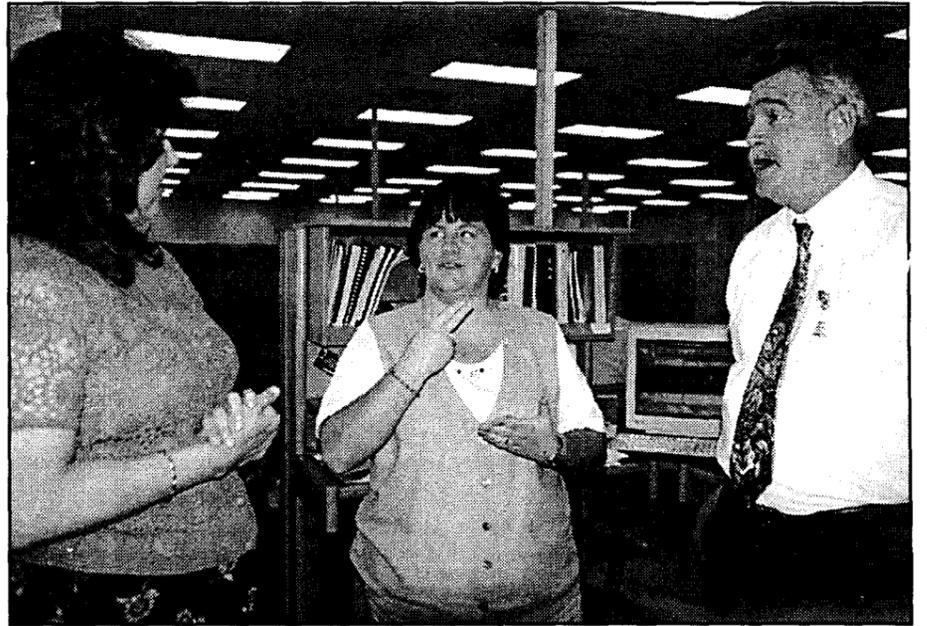


Photo by Sandy Riebeling

**EASY LISTENING—** Communication isn't a problem for deaf employees Smith, left, and Boger and their supervisor Houck. They use a combination of lip reading, sign language and written notes.

"I got a call at home from someone saying that I'd won this award," he said. "Then the woman told me a little about the award and I thought, 'Oh, that's really nice.' But the really great thing isn't so much that I won the award, but that somebody working for me thought enough about me to nominate me. That, in itself, is quite an honor."

"It is a wonderful thing," said Harold Meeker, acting chief of status accounting at the Technical Data Division. "He was in

competition with some of the heavyweights. The award is very well deserved."

Houck's wife, Diane, along with a few of the employees from Radian attended the presentation of the plaque on Sept. 12 during the Deaf Awareness Day at the Madison Square Mall. More than 100 people from the area attended the ceremony and the special programs and exhibits at the Mall. Houck will be sending the plaque to Radian's home office in Alexandria, Va.

The University of Alabama in Huntsville

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Microsoft Cert. Systems Eng. <b>ON-LINE</b>	Begins October 5 • TSP 9912-01N
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Helicopter Operations & Development Orientation For Technical & Support Personnel	Oct 5-9 • M-F • 8am-5pm • TS 6242-11N
Computational Fluid Dynamics	Oct 6-15 • T&Th • 6-9pm • TS 6293-01N
Beginning Excel 7.0	Oct 13 • T • 9am-5pm • TS 0506-03N
Beginning Access	Oct 15 • Th • 9am-5pm • TS 0509-04N
Advanced Programming with PowerBuilder 5.0	Oct 20-Nov 5 • T-Th • 5:30-9:30pm • TS 0445-01N
Software Project Management	Oct 21-23 • W-F • 9am-5pm • MC 6306-01N
Software Quality Throughout the Life Cycle	Oct 26-27 • M-T • 9am-5pm • MC 6307-01N
Basics Assembly Design Using Pro/ENGINEER	Nov 10-Dec 10 • T-Th • 6-9:20pm • TS 0404-05N
Intermediate Excel 7.0	Nov 10 • T • 9am-5pm • TS 0507-03N
Intermediate Access	Nov 12 • Th • 9am-5pm • TS 0510-04N
Army Missile Defense Orientation	Nov 16-18 • M-W • 9am-5pm • TS 6286-01N
Tactical Missile Fundamentals	Nov 30-Dec 4 • M-F • 8:30am-4:30pm • TS 6286-01N

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Legal Aspects of Employment Practices	Oct 15 • Th • 9am-4pm • MC 6311-01N
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Technical Writing	Oct 20-23 • T-F • 9am-4pm • MC 6001-18N
Benefits and Compensation Review	Oct 22 • Th • 9am-4pm • MC 6312-01N
Cost Estimating - Basic Tools and Techniques	Oct 26-28 • M-W • 9am-5pm • MC 6291-01N
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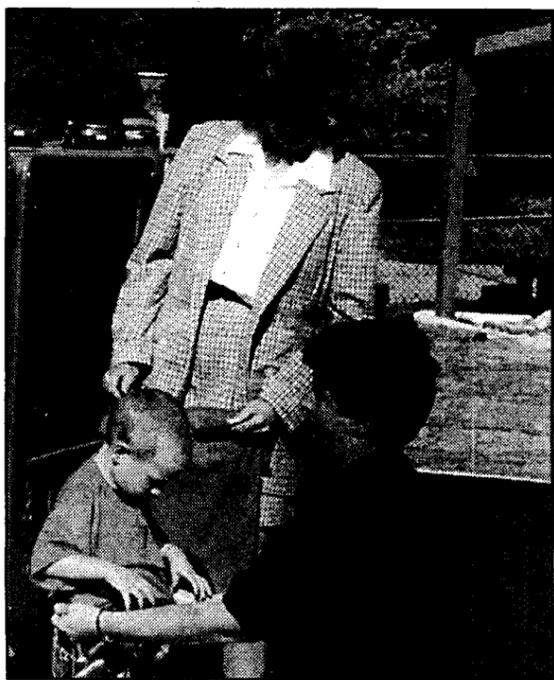
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Dorothy Moore/Photo Lab

### Perfect fit...

The Parent Advisory Council has contributed about 100 T-shirts to Child Development Services through money raised by cookbook sales. Ryan Soprano, 3, tries on one of these bright orange shirts with help from Robin Soprano of the PAC, kneeling, and Kris Wiessner, director of Child Development Center. The arrival of the shirts Aug. 26 culminated a yearlong effort, Jonnesa Countess of PAC said.



Upcoming activities for Morale, Welfare and Recreation include the following:

- Leisure travel specials— For information on your Leisure Travel Office Fall Specials, call 880-8158.
- Family child care— Family Child Care will hold a training session for anyone interested in becoming a family child care provider. Classes are ongoing. Training workshops include information on nutrition, how to administer medication, various communicable diseases, and more. After the training workshop is complete, applicants will receive FCC certification. For more information, call Evelyn Carnes 876-7801.
- Turkey shoot— The next Outdoor Recreation Turkey Shoot is scheduled for Saturday from 10 a.m. to 1 p.m. The Turkey Shoot is open to active duty, retired military, DoD civilians, DA civilians, RSA contractors, family members, and guests. Outdoor Recreation will provide weapons or you may bring your own 12-gauge shotgun. The cost is \$3 per shot. For more information, call 876-4868. Prizes to be awarded. The location is between the Trap & Skeet ranges on Sportsman Road. For your safety, the Trap & Skeet ranges will be closed.

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# EFOGM has successful test flight

The first guided test vehicle (GTV) firing of the Enhanced Fiber Optic Guided Missile (EFOGM) was successfully conducted Sept. 11 at White Sands Missile Range, N.M.

The EFOGM program is an Advanced Technology Demonstration (ATD) of a rapidly deployable, precision-strike weapon capable of defeating enemy armored vehicles and rotary wing aircraft.

The GTV-1 firing, which was the fifth of 14 EFOGM firings planned for the ATD, met the test objective to

demonstrate successfully full seeker control throughout the missile flight. The mission also demonstrated several first-time events, including nighttime launch and operation, full-up imaging infrared seeker integration in a flight missile, in-flight target tracking, seeker pointing guidance, launch at minimum launch angle, a fully electronic arming sequence, and commanded launcher motion.

"The GTV-1 mission was by far the most ambitious EFOGM test flight," Lt. Col. Tom Harvill, acting

EFOGM program manager, said. "It was a great day for the Army and for everyone associated with the EFOGM program."

The EFOGM ATD program is an integral tactical element of the Rapid Force Projection Initiative advanced concept technology demonstration concept. The EFOGM program is managed by the EFOGM Project Office; and the EFOGM is designed and built in Huntsville by its prime contractor, Raytheon Systems Company.

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Testing faith...

# Catholic chaplain jailed in El Salvador before joining Army

By Sandy Riebeling

The last 16 years Father Michael Travaglione spent in the Army is just one chapter in an amazing life story. The Boston-born priest knew from his youth that he wanted to serve God in the ministry. But there is another side to Father Mike, one that resembles Indiana Jones more than the pope.

"I've always had an adventurous spirit," Travaglione said. "I like a little danger, a little adventure."

Perhaps the last place one would think to find adventure was in a Franciscan religious order but Travaglione remembers a year of his training that made the Army's boot camp look easy.

"A religious spends 10 years studying in a monastery before he is ordained as a priest," he said. "During that time you go through sort of a religious boot camp, called a Novitiate. For one year, you can't leave the premises. You're cloistered behind the monastery walls given tasks that test you, that test your obedience. Some make it, some don't. But the discipline I learned there was very useful when I joined the Army."

He was ordained in 1966, and after studying the Spanish language and culture, he was allowed to

enter the missions field, with Honduras as his first stop in 1968.

"I went to Olancho (Honduras). There were no roads. People got around on horses and mules, and sometimes a strong jeep, if you had one," he said. "But it was a wonderful opportunity. We were everything to the people at that time — doctor, dentist, priest."

It was during that trip that Travaglione experienced the violence of the country, torn by greedy land owners and poor workers.

"I saw two Colombian priests get killed there," he said. "A few landowners controlled all the land and the workers had nothing, no control. The church told them that it was unjust, that things should be changed and then things became violent. It was the first massacre I'd ever seen." The mission in Olancho closed temporarily. Travaglione was the last priest to leave three months later.

His next stop was to the small town of Jutiapa, El Salvador. Travaglione spent a year there, but preferred "the boonies." He was sent back to Honduras, this time to LaLibertad, which translates liberty.

"LaLibertad was a coffee area in Honduras, a cold area. I loved it. The landowners were good Christians. They knew their

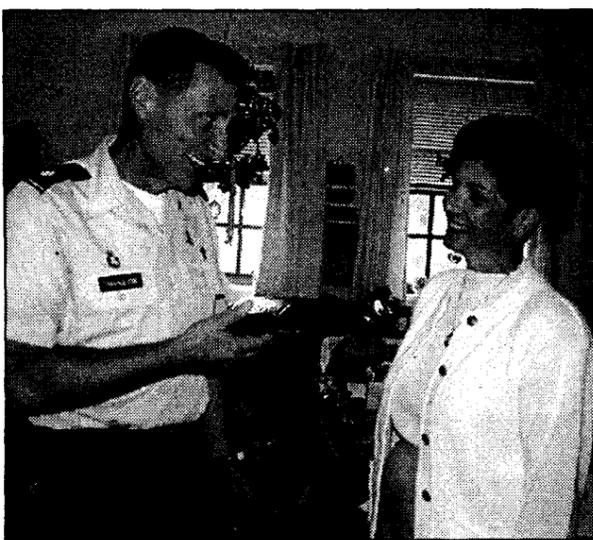


Photo by Sandy Riebeling

**TENDING HIS FLOCK—** Chaplain (Lt. Col.) Travaglione, with Phyllis Gibat, Catholic parish assistant, serve the Catholic community at Redstone.

responsibility to their poor. They gave me two mules. I called them Muchacho and Muchacha. I used them to go to the outside villages. I spent four years there. I loved it."

Travaglione then returned to El Salvador, to the seaport town of Acajutla.

"Things were really starting to get hairy between the church and the government," Travaglione said. "The Church took a firm stance. Ten families controlled the land of the entire country. The missionaries helped the work-

ers form a coffee cooperative, with a credit union so that they could borrow money and the government didn't like it.

"One day the police came to my door and took me down to the local police station. Then they said to go back and that I was under house arrest. But a week later they came and took me to Santa Ana. They marched me to the prison in Santa Ana."

Not long after he was taken to prison, the Maryknoll priests from Santa Ana began to minister to

Travaglione with daily visits bringing decent food and water.

"I didn't know what was going to happen," Travaglione said about his prison stay. "But I was protected by God. The commandant of the prison was Catholic and had a respect for priests, so he put me in a cell with the head prisoners."

Conditions for him were better there than with the regular prison populations. The commandant of the prison was married but had a concubine that was Catholic who spoke to the commandant on Travaglione's behalf.

"I was treated very well considering how the other prisoners were treated. They were beaten, put in solitary, starved. It was a filthy, dirty place."

Travaglione was only there a couple of months before his Franciscan order paid \$10,000 for his release. He didn't find out until later the conditions of his release, and the amount of money the Franciscans had paid. The government told him that he was never allowed to return to El Salvador.

He spent the next five years in Asuncion Mita,

Guatemala. A country known for governmental brutality and forced military service.

"There were a lot of fatherless families. They had a way of getting men in the military by soldiers coming to the door and grabbing the father or the son and telling them, 'You're in the military now.'

"Many times I would confront the military if they were taking a woman's sole son. He was her only support. She needed him. And I usually got him free. One time they threatened me with guns."

By the end of his stay in Guatemala, Travaglione's health was failing due to an intestinal disorder brought on by the excessive bacteria in the food and water of underdeveloped countries. He came back to the states and to his religious order, which allowed him to spend time with his elderly mother.

Travaglione recovered his health quickly and joined the Army in 1982.

"My brother was in the Army many years ago and I had always admired him

See CHAPLAIN on page 12

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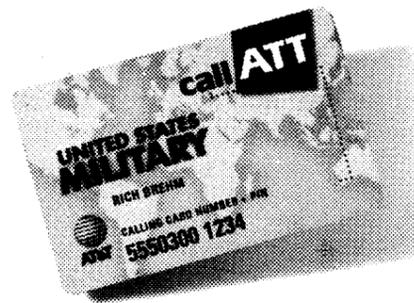
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Widening horizons...

# Staff college for civilians delivers management tools

By Maria Kuhns

Three Huntsville area Army civilians— Holly Williams, Fred Anci, and Al Fischer — recently graduated from the Army Management Staff College (AMSC) at Fort Belvoir, Va.

Williams, an audit manager with the Army Audit Agency, Huntsville Field Office, Anci, a logistics management specialist, and Fischer, a supply systems analyst, both from the Logistics Support Activity, were among 72 students in their class to receive specialized education in the sustaining base.

All three graduates were not strangers to AMSC, as several of their colleagues had attended previous programs. A common thread running through their comments was that their organizations stressed attendance at the college, and they received strong support from their supervisors.

Anci said that the lack of recent training opportunities, especially when he was assigned to Egypt, made it difficult to obtain

courses. A desire to round out his professional experience led him apply to AMSC.

"AMSC— in our organization — is almost a must if you want to progress in the agency," Williams said. "I wanted to get a better picture of the overall Army rather than the small pieces that I initially had."

Fischer stated that although he had previously discussed attending AMSC with his supervisors, it was a requirement on his evaluation form to apply, a goal which he intended to achieve.

After 12 intensive weeks, the trio said that AMSC offered more than they ever thought possible in terms of learning how the Army functions, and how the course of instruction put the pieces together.

"I learned more about the new things that were happening in the Army," Williams said.

Fischer stated that although his knowledge of how the Army works was fairly solid, he felt that AMSC brought it all together and challenged

him to think differently about many issues. "I've been working in the little Army, and now I have a better overview of the bigger Army," he said.

"Both personally and professionally, it was a good choice to come to AMSC," Fischer said. "It focused me back on some of the things I had been

doctrine, and the systems through which America's Army transforms resources into combat power. As a result of this education, AMSC graduates are better equipped to think nationally and globally and are more knowledgeable in the strategies, doctrines, and systems directly related to the Army sustaining base.

The American Council on Education College Credit Recommendation Service reviewed the AMSC curriculum and has recommended that colleges and universities award credits at the baccalaureate level and graduate level for students completing any resident classes; this also began for the Non-resident program in 1995. The specific award of credit depends on the college or university policies and the appropriateness of the specific credits to the degree in which the student is enrolled.

The graduate level course requires a small amount of pre-course work before arrival. Students fulfill reading and writing requirements, take the

diagnostic test, and complete self-assessment forms. Accomplishment of these tasks beforehand develops a common baseline of knowledge among students.

Although the student body is comprised primarily of GS 12-14 civilians, military officers assigned to sustaining base positions also attend the program. Williams, Anci and Fischer said that having military counterparts in the classroom is quite beneficial, because they receive the "green suit" mentality of what actually happens in the field.

Application deadlines are quickly approaching for future classes; contact your local civilian personnel office for application deadlines and submission procedures. Visit the AMSC Home Page at <http://www.amsc.belvoir.army.mil>, or call the Public Affairs Office at (703) 805-4766/4759 or DSN 655-4766/4759.

(Editor's note: Kuhns is a public affairs specialist for Army Management Staff College.)

*The college was established in 1986 to provide professional development opportunities for civilians commensurate with those given to military officers.*

"AMSC filled in a lot of the holes," Anci said, "especially at the higher level—the big Army."

Of primary importance to these graduates is the fact that they can apply what they learned at AMSC in their present jobs. They agreed unanimously that AMSC is a valuable school, and that it should be a requirement for all Army civilians at the GS-12/13 level. "AMSC is beneficial to the individual, the organization, and the Army as a whole," Anci said.

drifting away from when I was doing routine work at work, and I think it will help my organization as a whole and possibly further up the chain."

The college was established in 1986 to provide professional development opportunities for civilians commensurate with those given to military officers. The graduate level education focuses on leadership, management, and decision making, with emphasis on national policy and strategy, force development and



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- Requirements: Outsourcing of IT functions, Y2K review/solutions, Information Security, and Business Process Re-Engineering.
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- POC: Tom Leahy.

#### Desktop Video Teleconferencing (DVTC)

- Awarded to TRW (DAAB07-95-A-L264), Delta Corp (DAKF11-95-D-0001).
- Order point-to-point (POTS or ISDN), LAN configurations (multiple protocols) and multi-point DVTC; maintenance; order to SEP 98
- 1-year warranty
- Army lead. Service charge 1%.
- POC: Adelia Wardle.

#### Army Portable-2

- Awarded to Vanstar (DAAB07-97-D-V003), GTSI (DAAB07-97-D-V004).
- Pentium class notebooks, sub-notebooks, mini-notebooks, ruggedized notebooks, docking stations, palmtops, monitors, peripherals, and software. Ordering to May 99.
- 5-year warranty.
- Help desk: Vanstar (888)797-6739, (540)662-1736, GTSI (800)333-4874, (703)502-2000.
- Army lead. Service charge 1%.
- POC: Steve Miller.

#### Enhanced Technologies - 1(ET-1)

- BPAs awarded to Comark Federal Systems (DAAB07-98-A-V005), GTSI (DAAB07-98-A-V003), and Vanstar (DAAB07-98-A-V004).
- HP printers, various OEMs software and peripherals to upgrade, enhance and improve performance of existing computer platforms.
- Warranty: Minimum of 1-year, some OEM warranties exceed 1-year.
- Army lead. Service charge 1%.
- POC: Steve Miller.

#### Army Personal Computer - 2 (PC-2)

- Awarded to Vanstar (DAAB07-97-A-V001), BTG (DAAB07-97-D-V002).
- Order Pentium class PC's (bundled or configurable); OA software; printers; CD-ROM; modem; monitors; ordering to FEB 99.
- 5-year warranty, Vanstar (888) 797-6739, (540)662-1736.
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- Army lead. Service charge 1%.
- POC: Linda Cook.

#### Army Licenses for Software Upgrades -1 (ALSU-1)

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- Army lead. Service charge 1%.
- POC: Adelia Wardle.

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- POC: Adelia Wardle.

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- Army lead. Service charge 1%.
- POC: Mark Corzine.

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Photo by Skip Vaughn

### Top facilitators...

These three members of Weapon Systems Directorate were honored by their organization as Employees of the Quarter for their ongoing work as facilitators in the Consideration of Others program. They are, from left, R.D.

Davis, operations research analyst; Phyllis Henley, management analyst; and Al Rose, management analyst. They trained about 150 members of WSD in the Consideration of Others program from April through June.

### CHAPLAIN

Continued from page 8

...serving," Travaglione said. "So when a letter came from the Army to the Order saying that they were in need of Catholic chaplains, I asked to go. It sounded like a great adventure."

Of his many assignments, there were two that he spoke of with great fondness, one to serve his need to better humanity and one that fed his adventurous spirit.

"The funny part of all of this, is that I ended up assigned to the School of the Americas in Fort Benning (Ga.) teaching these soldiers from El Salvador and Guatemala that had treated me so badly, about humans rights and professional military ethics.

"I knew what went on in those countries firsthand. They would try to deny what was happening and the way they were treating their people but I knew. We were able to have open discussions. I think they wanted to do right but when they got back in their

military, they were forced by higher-ups to go back to the old ways."

Travaglione's best assignment was with the 82nd Airborne Division in Fort Bragg, N.C.

"I got to jump out of planes. Being a paratrooper was really the highlight of my career. I also got to go to Jungle School in Panama. That was a little adventurous, a little dangerous. I did get a jump slot at the School of the Americas, too."

Serving as a chaplain at Redstone is satisfying for Travaglione in other ways. "This is a very nice assignment. I enjoy working with the active duty and retirees. They're good people."

Travaglione expects to retire after 20 years, but hopes to be able to "jump" again before then.

The end of his military career only means starting a new chapter in life's book for the high-flying chaplain. He hopes to get permission from his Order to go back to the Mission in Olancho, Honduras to serve again as a missionary.

## Homespun humor wins over first place over body language, egg yokes

By Skip Vaughn

The jokes were clean, the speakers enthusiastic and their audience appreciative.

There were no losers in this contest. All three speakers received a medal for their efforts at the Toastmasters Area 3 humorous speech contest Thursday at the Sparkman Center.

Roger Yocom, an engineer in Javelin Project Office, took first place and the gold medal for his speech about his home-

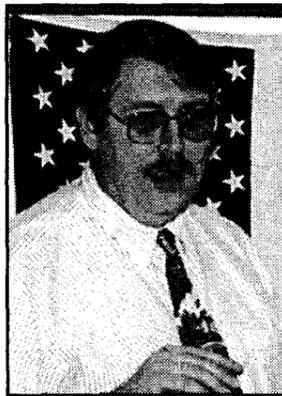


Photo by Skip Vaughn

**WINNING SPEAKER—** Yocom tells jokes about his hometown of Beaver, Pa.

town. He is president of the Communicators Club which served as host for the contest.

Tom Straminello, from Tennessee Valley Toastmasters, took second place and the silver medal for his speech about body language.

Charlie Warren, from the Intergraph club, took third place and the bronze medal for his speech about egg yokes.

Yocom will represent Area 3 in the district contest Oct. 17 in Huntsville. Straminello is the alternate.



Rick Lusk/DPW

### Bike to work...

Col. Steven Hamilton, left, deputy post commander, leads participants last Thursday in Bike to Work Day, an energy conservation event. There were 37 participants.

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Racing toward wire...

# Materiel ahead by nose on energy derby

By Morton Archibald

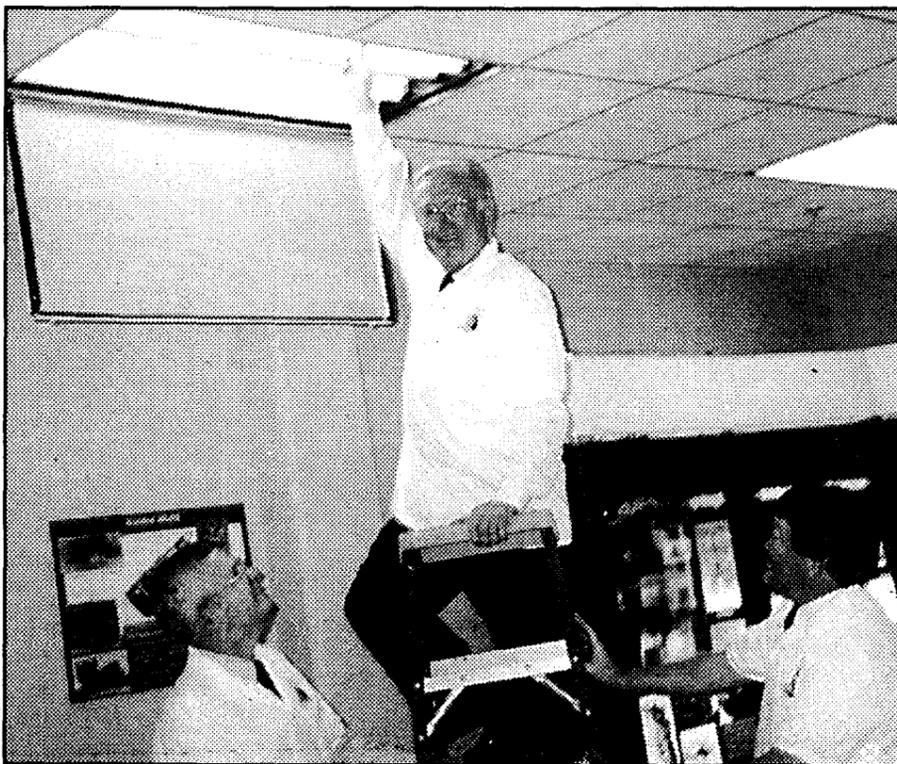
And out of the back stretch and into the turn, Materiel pulls ahead of Software with the rest of the field closing up fast. This is going to be a real race right down to the finish!

Building 5302 has taken the lead in the Redstone Energy Competition with buildings 5304 and 5308 close behind.

Two of the IMMC buildings in the Sparkman Complex are showing very well at the Aug. 31st milepost.

"We, in the IMMC, are proud to be recognized for our energy conservation efforts for August 1998," John Chapman, deputy director, said. "We will continue our support of this command initiative. All of us need to be ever mindful of our energy usage at the workplace as well as in our homes."

The Missile RDEC's Software Engineering Directorate has slipped from first to fourth place, but incredibly lag the leader by less than one-quarter of a percent. In fact, the top



**BRIGHT IDEA**— McCorkle removes a fluorescent tube from a common area in building 5400. Holding the ladder are Col. Charles Greer, left, deputy director, and Dr. Larry Daniel, acting associate director for systems.

11 places are separated by less than three-quarters of a percent. Everyone is doing well.

Thomas Wharton, Energy Team member representing the Sparkman complex, reports his recent

quarterly energy inspection found four organizations—IRAC, I&S, EEO and CAD—with no lights and no unnecessary equipment left on overnight. "This is a dramatic improvement," he said. This "snapshot"

report taken one evening must be accurate. Seven of the individual Sparkman buildings are saving more than 1.6 percent of the electricity we expected them to

See DERBY on page 14

Educating consumers...

# Foodborne illness can be prevented in processing

By Diane Butler

Foodborne illness often shows itself as flu-like symptoms such as nausea, vomiting, diarrhea, or fever, so many people may not recognize the illness is caused by bacteria or other pathogens on food.

Thousands of types of bacteria are naturally present in our environment. Not all bacteria cause disease in humans. For example, some bacteria are used beneficially in making cheese and yogurt. Bacteria that cause disease are called "pathogens."

When certain pathogens enter the food supply, they can cause foodborne illness. Only a few types cause millions of cases of foodborne illness each year. Most cases of foodborne illness can be prevented. Proper cooking or processing of food destroys bacteria.

Age and physical condition place some persons at higher risk than others, no matter what type of bacteria is implicated. Infants, pregnant women, the elderly people with compromised immune systems are at greatest risk from any pathogen. Some persons may become ill after ingesting only a few harmful bacteria; others may remain symptom free after ingesting thousands.

For more information on foodborne illness and how to prevent it, the veterinary food inspectors invite you to pick up a free brochure at the Commissary Sept. 21-25.

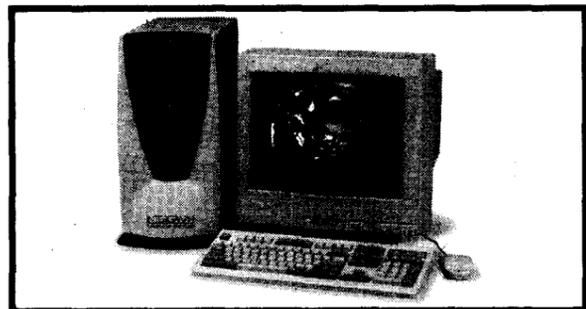
*(Editor's note: CWO 2 Butler is chief of food safety and hygiene for the Tennessee Valley District Veterinary Command. This is the third in a series of articles for National Food Safety Education Month.)*

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# DERBY

Continued from page 13

use this year.

MRDEC director Dr. William McCorkle and his staff have given full support to reduce energy consumption from the Arsenal's largest users. The newly formed MRDEC energy team is making positive strides across this huge directorate which includes not only building 5400—the Arsenal's largest single user—but other major energy users such as the Software Engineering Directorate, Weapons Sciences Directorate, Propulsion and Structures Directorate, and other remote locations. The team is delamping fluorescent fixtures in overly lit common areas with dramatic results.

Our summer energy campaign had been a great success so far. Participation in our events has been outstanding and the results far beyond our expectations. Redstone Arsenal was already among the Army's leaders in energy efficiency, but we have now shown our true mettle. Keep up the good work, and participate in the Blackout Luncheon on Oct. 1.

*(Editor's note: Archibald is team leader of the AMCOM Energy Team. He works for RASA's Directorate of Public Works.)*

# Volunteer escorts ensure exceptional day at

## Soldiers help special needs children and adults enjoy

Photos and story by Sandy Riebeling

It was a morning of fun and games, rides and food, and exceptional people lending a helping hand to excep-

tional people. Soldiers from Redstone joined civilian volunteers to provide escorts for special needs children and adults attending the Exceptional Persons Day at

the Northeast Alabama State Fair, Sept. 16.

The event, sponsored by the Huntsville Jaycees, pairs special needs people in the Huntsville area with adult

escorts for a free morning at the fair. The escorts help the children and adults to find their way around the fair, assist with riding the rides and make sure that everyone has a fun-filled day.

"I remember last year," Sgt. Yolanda Wilhelm, HHC AMCOM, said, while waiting for the buses to arrive. "I had a guy that just loved female soldiers. They enjoy this day so much. It's something they talk about for weeks afterwards. And they remember you."

Sgt. Kenneth Froehlke, also from HHC AMCOM, came prepared with a gift for his young charge.

"This is my third year doing it," he said. "I brought a unit crest pin this year. They love to get the little trinkets. It means a lot to them. Last year I brought an Army PT (physical training) shirt and the year before, a cap."

With sunny skies overhead, morning temperatures were high but it went almost unnoticed as the buses were off-loaded with hundreds of fair goers. The first stop inside the fair midway was the juice tent where everyone picked up orange drinks before heading out to the rides.

"It's hot out here and it's especially important to keep the people hydrated," Wil-

helm said. "We're constantly reminding them they need to go get a drink of water or juice."

While most of the soldiers had to hurry to keep up with their partners, some of the children were a little hesitant at first. Special education teacher, Lois Guende, I watched from afar as one of her students from Horizon Elementary seemed lost without her mother.

"I'm a little worried about Lauren," Guendel said. "This is her first year without her mother along. I was just watching to see how she was getting along."

It was a slow start for Lauren Hall but her-escort, Pvt. Santos Johnson from B Company, 832nd Ordnance Battalion, was patient and gentle, and in just a few minutes they were both smiling and waving from the merry-go-round.

"This is so exciting for them," Guendel said. "Parents don't take the time to bring them to things like this. And for some parents, it's just too much trouble. It's a great day for them to be able to ride the rides and have the help they need from the soldiers."

Virginia Dempsey, from Army Community Service, acts as a liaison between the Jaycees and the Army to



**TWO ESCORTS—** Daredevil Linley Wilbourne comes to the fair every year. She kept her escorts Erdman, left, and Ramirez, spinning, twirling and riding all morning long.



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## the fair

help coordinate the efforts of the soldiers who volunteer as escorts. This year the Army had about 350 soldiers assisting at the fairgrounds. Some soldiers escorted more than one person because of the shortage of volunteer help.

"Many of these young soldiers don't know anything about the people they will be escorting. But they come in, learn about them, become friends and make it a real worthwhile day. And sometimes it's not just fun and good times for the soldiers. But they are sensitive and do their best and it is a very meaningful experience. It may not be all 'fun' but they come away with a different appreciation," Dempsey said.

The whole event was a surprise to PFC Elier Ramirez who arrived at Redstone last week. "I just found out yesterday that we were doing this," Ramirez said. "But I'm always ready to have a good time."

Ramirez and Pvt. Ken Erdman, both from C Company 832nd, escorted Lindley Wilbourne, a 10-year-old student from Chapman Ele-



**PARTNERS**— Pairing up for a day at the fair, Pvt. Lynda Thomas, left, with her partner Laura Mattox and Pvt. Kassandra McLaughlin with Kelli Graves head to the fair midway to check out the rides.

mentary on rides and through the fun houses. "I'm not crazy about going on some of these rides but she's giving me the strength to do it," Ramirez said. "If she can do it, I can do it."

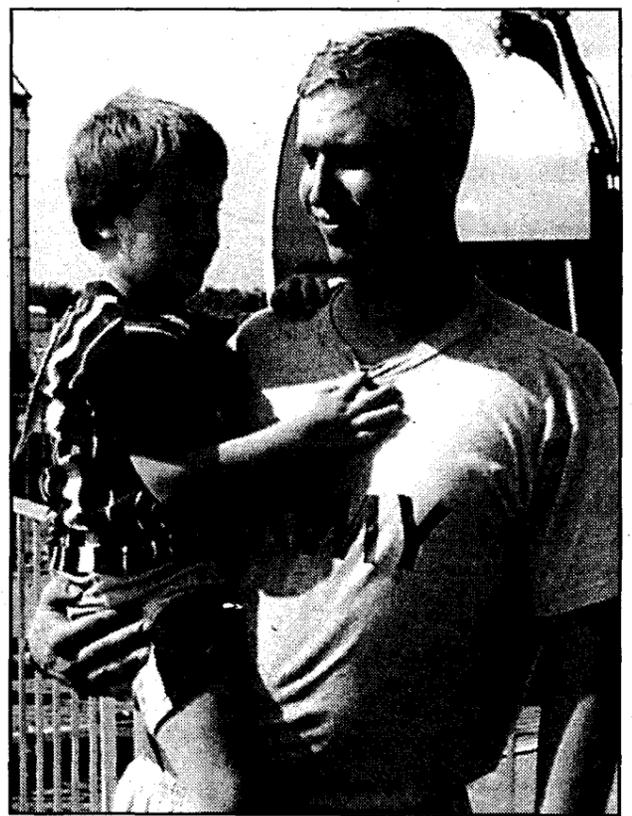
Wilbourne's mother, Debbie, was at the event this year with her daughter. "Lindley's been coming here for years and this was the only field trip that I've never been able to go on

with her. She so looks forward to coming every year. She says, 'Give me my soldier and get me to the ferris wheel.'

"During the regular fair, the rides go so fast, she couldn't ride most of them. But they slow some of them down today and that's great. I really appreciate what the Arsenal does, the special events they have with the kids every year. It's very

special for them," Debbie said.

"It was another magnificent effort by the soldiers at Redstone Arsenal," Dempsey said. "The success depended upon everyone working together. I want to thank everyone who helped at the fair and for the decision makers who said, 'yes, this is something we want to do — it is a good thing.' And a big thank you for closing



**GETTING A LIFT**— Little Bill Lacy caught a ride of a different kind as Pvt. Michael Manor carried him from ride to ride.

the school (Ordnance Missile and Munitions Center and School), which allowed the students the day off to help."

Redstone volunteers for the event came from the 832nd Ordnance Battalion, HHC 59th Ordnance Brigade, HHC AMCOM and the Space and Missile

Defense Command.

The Huntsville Jaycees provided more than 2,000 hot-dog sack lunches to fairgoers and escorts. Kissel Rides and Shows provided and operated the rides free of charge for the morning. This is the 22nd year for an Exceptional Persons Day at the Fair.

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# SANDS

Continued from page 4

## Roving Sands

It is all part of Joint Exercise Roving Sands 98, the largest joint integrated air defense exercise in the world, which was conducted at Fort Bliss, Texas, and McGregor Range, New Mexico, April 16-25.

This year's RS-98 included participants from Germany, the Netherlands, the United Kingdom, and observers from France.

Joint service players included Air Force fighter aircraft, Marine Corps Air C2 Elements, and U.S. Navy Aegis Ship systems simulators.

Army Air and Missile Defense systems were well represented: a Theater High Altitude Area Defense battery, three Patriot battalions, and the Avenger Short-Range Air Defense fire units from 3/A/1-44 ADA.

Although Welborn and Robinson "engaged" the two T-38 surrogate CMs, they continued to fly because this is an exercise event. And that fact sets the stage for the rest of the tactical story, which centers on E Battery, 5-52 ADA Battalion. The continued flight of the T-38s replicates a scenario where the CMs have been detected and tracked by Sentinel radar, but are out of range for the Avenger fire units.

Thanks to the ABMOC(-)'s participation on the JDN, E/5-52 will not be caught unaware, and the CMD mission will still be accomplished. The J 3.2 Air Track messages sent out on the JDN by the ABMOC(-) are

received by the 5-52 ADA Bn's Information Coordination Central, integrated into the Patriot air picture, and forwarded to E Battery by Patriot Digital Information Link. This provides early warning on the CMs to E Battery operators, enabling them to "see" the two CMs as soon as they enter the Patriot sector of surveillance. E Battery then "engages" the CMs with highly accurate and deadly Patriot missiles, and "hits/kills" are counted for a second time.

The cooperative CMD mission is accomplished, and the training value to soldiers is doubled. This sequence of events unfolds numerous times throughout the general RS-98 scenario, and demonstrates the implementation of the CMD aspect of SHORAD-Patriot interoperability.

In addition to participating in the RS-98 general scenario, the 1-44 ADA units played a key role in a Cruise Missile Defense activity called the Cruise Missile Defense Vignette.

The purpose of the CMDV was to exercise and observe the recently improved capability of SHORAD units to interoperate with Patriot units (and by extension, the joint force) over the Joint Data Network to better address the cruise missile threat.

The theme of the CMDV was the alerting by SHORAD units to Patriot units of cruise missiles, which are initially terrain-masked, or out of sector for Patriot. The scenario for the CMDV was accomplished by using T-38 aircraft, from the Air Force's 46th Test Group from Holloman AFB,

N.M., in low-level, cruise missile-like profiles against friendly air defense units and protected assets during the live fly portions of Roving Sands. The intended action was for the Sentinel radar to acquire the ingressing T-38s as they cleared the high ground to the east-southeast, dropped to the deck, and headed toward ADA units and targets in the southern part of the exercise box.

The Sentinel radar track sent to the ABMOC(-) in (FAAD Data Link) protocol was translated and immediately put out in TADIL J protocol by the JTIDS radio in the ABMOC(-).

Patriot units up on the JDN, like the 5-52 ADA Bn, and the 3-43 ADA Bn, were thus alerted of the cruise missiles, and could integrate the tracks into their air picture. They would then be prepared to act against the surrogate cruise missiles when they entered the Patriot's surveillance sectors and field of fire. Also, Patriot was able to transmit other air tracks to SHORAD over the JDN to supplement the ABMOC(-)'s air picture.

The Program Executive Office for Air and Missile Defense has participated in several past Roving Sands exercises, primarily to support the Air Defense Artillery School, and to gain valuable insight on the interoperability aspects of the Patriot and THAAD missile systems.

These systems cooperatively defend against Tactical Ballistic Missiles by forming an Air and Missile Defense Task Force in accordance with the USAADASCH's Concept of

Operations for Theater Missile Defense.

Although both systems are managed and developed by separate program offices, their combined performance as an AMDTF, and the AMDTF's interoperability with other joint systems is an ongoing concern of the PEO AMD.

Further, the AMDTF plays a key role in, and can be vulnerable to, the emerging cruise missile threat. For RS-98, the PEO AMD was interested in exercising and observing recent interoperability developments in air and missile defense systems, which could enhance capabilities against cruise missiles. To do this, the units already mentioned, and a host of other agencies combined to conceive, develop, set up and execute the aforementioned scenario.

### Long preparations

Preparations for the CMDV began long before the event took place. The CMDV concept was first formed in October 1997. It was based on the belief that enhanced interoperability between SHORAD and High-to-Medium Altitude air defense systems (i.e., Patriot) would add value to AMD operations in general and CMD in particular.

SHORAD already had an excellent low altitude sensor in its Sentinel radar, could automatically slew-to-cue against incoming threats, and was on the verge of implementing version 5.0 of its Forward Area Air Defense application operating software. Among other

things, version 5.0 enabled the ABMOC to transmit Sentinel-obtained track information onto the Joint Data Network via the JTIDS radio.

This JTIDS transmit capability was the key; with it, SHORAD could both fully participate in the premier joint TMD network like Patriot and THAAD, and provide valuable interoperability enhancements to air and missile defense. However, it was recognized that a lot of work would have to be done to ensure the various components would work in the field environment of RS-98.

Finding a SHORAD unit capable of participating in RS-98 was the first task. Most SHORAD units did not have the production model JTIDS radio needed, and of those, none had the version 5.0 software installed. 1-44 ADA Battalion, at Fort Hood, had recently tested a version of the 5.0, but was not scheduled to participate in RS-98, and in fact had other commitments.

After a period of negotiations, and assurances that there would be training value in the effort, 1-44 ADA commander Lt. Col. Stephan Jordan agreed to commit 3/A/1-44 to the effort. At this point, the Air and Missile Defense Command and Control Systems Program Office began a long series of support actions, which included modifying a Sensor C2 shelter, holding over the test version of the 5.0 software, and training crews (at Fort Hood) on

installation and operation of the JTIDS radio.

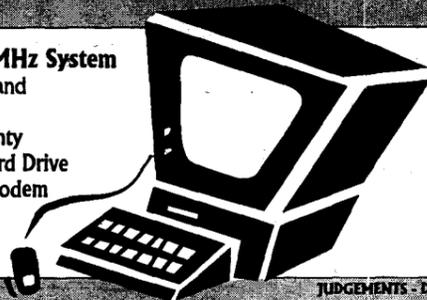
The Sentinel Radar Product Office also provided expert individuals, both in Huntsville and at Fort Bliss, to assist in the planning and implementation of the concept. Meanwhile, during RS-98 planning conferences throughout the fall and winter, PEO AMD and Project Office personnel worked with other RS-98 participants to arrange the surrogate CM flights for the CMDV. This involved determining CM "attack" scenarios which would mesh with the rigid live fly windows schedule of the RS-98 scenario, would not interfere with numerous already planned threat aircraft routes, would meet range and civil flight safety rules, and would satisfy a CM early warning tactical situation. Forces Command air operations planners were helpful in this area, as was the 46th Test Group, which agreed to fly T-38 aircraft as surrogate CMs for the missions.

Additional preparation included software integration verification and laboratory end-to-end testing. The AMDCCS Program Office set up and conducted integration tests on the critical (Common Hardware Software) suite and the version 5.0 software which would be used in the ABMOC(-) and the Sensor C2 Node. At PEO AMD's request, the Aviation and Missile Command's Life Cycle Software Engineering Center in Huntsville undertook an

See SANDS on page 23

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# SMDC's contracting directorate goes paperless route

New standard procurement system faster for getting goods and services to soldiers

By LuAnne Fantasia

When Vice President Al Gore had the vision—and Department of Defense mandated it—Mark Lumer took action, and led SMDC's contracting department to be the first in DoD to go "fully operational" into a paperless contracting system.

"The DoD mandate said we had to be paperless by January 2000," Lumer said. "Since we had to do it anyway," he shrugged, "I thought we might as well be first."

Lumer is the principal assistant responsible for contracting, or PARC, at the Space and Missile Defense Command.

Soon, the reams and reams of paper used for the printed contract will be gone, according to Lumer. "Gradually, the time spent coordinating the entire acquisition cycle, from requirements generation through final payment and closeout, will dwindle.

"I won't need the expensive, heavy-duty reproduction machines or large file areas," Lumer said. "A 2,000-page contract will be filed on a computer diskette."

He said the new Standard Procurement System, or SPS, was conceived and designed by DoD to replace all of the individual automated systems being used DoD-wide.

The system has (or will have) the capability to provide: partial contract writing, a paperless government request for proposal, electronic receipt of the proposal, electronic interface with all ancillary players (i.e., legal, administrative), electronic payment and contract closeout.

"There are many advantages to the SPS," Lumer said, "but the bottom line is that we can get goods and services into the hands of the soldiers and warfighters faster."

Lumer said others throughout DoD were using some aspects of the system, but were reluctant to go fully operational, since the SPS had not been thoroughly tested for gathering and reporting data. Since Lumer's contracting department had a limited in-house automation system for processing con-

tracts, he and his staff felt that although the learning and implementation curve would be tough, the long-term benefits would be significant.

"We persevered and made it happen," Lumer said, "and there are several advantages. We speed up the entire process. Documents are sent concurrently, and packages reviewed by several different offices simultaneously.

"That means we have a faster procurement process, and that—as I said earlier—means we get goods and services into the hands of the soldiers and warfighters faster. And that is why we're here," Lumer said.

"The vice president said to reduce the cost of government—to make it more efficient, and make it act like a regular business operation," he added. "This is a step toward that goal."

*(Editor's note: In concert with SMDC's recent implementation of the new paperless Standard Procurement System, a conference is scheduled today and Thursday at the Beville Center Hotel at 550 Sparkman Drive. The SPS conference features guest speakers from the assistant secretary of the Army's office of research, development and acquisition as well as other high-level Department of Defense logistics, contracting and acquisition agencies.)*

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## Hispanic employment panel puts work force to the test

How much do you know about Hispanic women who are leaders in their field?

The Hispanic Employment Program Committee is testing your knowledge for National Hispanic Heritage Month,

Sept. 15 through Oct. 15. The theme is, "Women in Leadership."

The committee members provided the accompanying crossword puzzle with this theme. All correct entries will be eligible for prizes to be award-

ed at a social scheduled 4-6 p.m. Oct. 9 at Just Our Club. You do not have to be present to win.

Fax your entry to the EEO office at 876-8947 with your name and phone number.

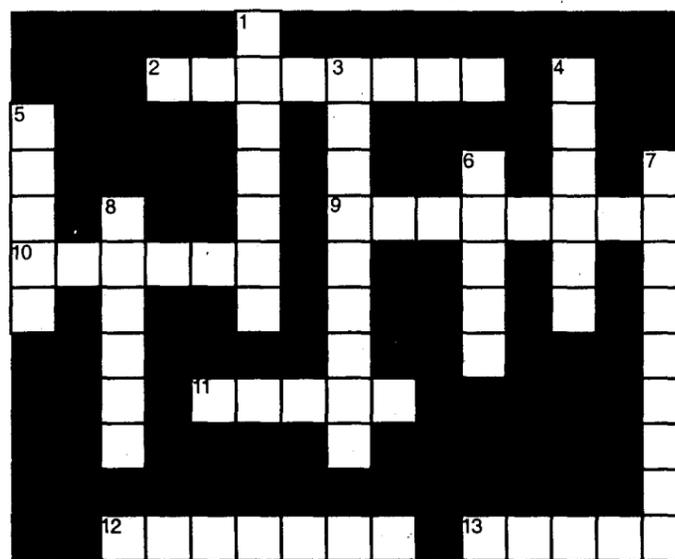
### Hispanic Heritage Month: Women in Leadership

#### Across:

- 2, 9 & 11: Yearly Hispanic Celebration Sept. 15 - Oct. 15
- 10: First Latina to hit #1 on Billboards Pop Music with "Dreaming of You"
- 12: Hispanic actress who portrayed Selena. Last name Lopez.
- 13: Virtually the only female hispanic golfer. First name Nancy.

#### Down:

- 1: Miami Sound Machine's Superstar
- 3: 1995 Speaker - Hispanic Heritage Month Luncheon. Ms. Nancy E. \_\_\_\_\_ Founder of Huntsville's own Mevatec.
- 4: Billie Jean Kings doubles partner in 1960's.
- 5: Former TV weather girl/MTV host. Last name Fuentes.
- 6: 1970's singer sensation. Last name Ronstadt.
- 7: U.S. 1992 Barcelona Olympics duo gold medalists Gigi and Mary Jo \_\_\_\_\_.
- 8: 1998 Speaker - Hispanic Heritage Month Luncheon. Huntsville's own Dr. \_\_\_\_\_ Whitt-Christian.



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## Firth wins annual ladies golf invitational on post

Jennie Firth has won the 39th annual Redstone Arsenal Ladies Invitational at Redstone Golf Course.

Firth, of Valley Hill Country Club, shot an 81 for the title Sept. 5. Here are the tournament results:

- 1st Flight— Firth, first low gross. Donna Smaltz, of Valley Hill CC, second low gross (85). Nancy Roddy, of Franklin County CC, first low net.

- 2nd Flight— Shirley Hammons, of Burning Tree CC, first low gross. Joy McGuire, of Redstone Arsenal, second low gross. Pat Thimsen, Valley Hill CC, first low net.

- 3rd Flight— Marian Deppensmith, Valley Hill CC, first low gross. Marilyn Roney, Valley Hill CC, second low gross. Virginia Payne, Redstone Arsenal, first low net.

- 4th Flight— Janis Jacobs, Redstone Arsenal, first low gross. Cathy Slagle, Cherokee Ridge CC, second low gross. Sid Ellis, Valley Hill CC, low net.

- 5th Flight— Betty Dow, Redstone Arsenal, first low gross. Lynda Mobley, Huntsville CC, second low gross. Marty Simpson, Valley Hill CC, low net.

- 6th Flight— Dorothy



Photo from Kathy Newton

**AWARDS RECEPTION—** From left are Pat Stallings, Shirley Taylor, and Firth.

Campbell, Plantation Point, first low gross. Mary Kilpatrick, Redstone Arsenal, second low gross. Shirley Taylor, Burningtree CC, low net.

- 7th Flight— Debra Plate, Redstone Arsenal, first low gross. Dee Thonus, Redstone Arsenal, second low gross. Kate Hoppenjans, Burning Tree CC, low net.

- 8th Flight— Val Shippers, Redstone Arsenal, first low gross. Kathy Morrison, Redstone Arsenal, second low gross. Sachiko Sidhu, Florence CC, low net.

- 9th Flight— Barbara Howard, Florence CC, first low gross. Wanda Thompson, Valley Hill CC, second

- low gross. Ola Leland, Huntsville CC, low net.

- 10th Flight— Margaret Keenum, Florence CC, first low gross. Nadine Perkey, Colonial CC, second low gross. Annette Ray, Fayetteville CC, low net.

- 11th Flight— Beverly Payne, Redstone Arsenal, first low gross. Farley Miller, Cherokee Ridge CC, second low gross. Pat Stallings, Maxwell AFB, low net.

- 12th Flight— Ernestine Anderson, Redstone Arsenal, first low gross. Cathy Jaskolski, Scottsboro CC, second low gross. Lucille Johnson, Redstone Arsenal, low net.

- 13th Flight— Shirley Ponder, Redstone Arsenal, first low gross. Kathy Newton, Redstone Arsenal, second low gross. Joyce Williams, Florence CC, low net.

## Alabama, Florida among picker's favorites



By Skip Vaughn

My college football predictions went 65-18 over three weeks. Here are Skip's Picks for selected games this week:

- Alabama at Arkansas— Bama
- Kentucky at Florida— Fla.
- Idaho at Louisiana State— LSU
- Ole Miss at SMU— Ole Miss
- Miss. State at South Carolina— MS
- Houston at Tennessee— Tenn.
- Ala. A&M at Morris Brown— A&M
- Jacksonville St. at Nicholls St.— Nicholls
- Central Ark. at North Ala.— UNA
- Pittsburgh at Va. Tech— Va. Tech
- UCLA at Miami— UCLA
- Wash. St. at Calif.— Wash. St.
- Northwestern at Wisconsin— Wis.
- Purdue at Notre Dame— ND
- Ga. Tech at North Carolina— UNC

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# PROS

Continued from page 18

starter, he needs to step up and show some leadership. Cincy has two solid WRs in Carl Pickens and Darnay Scott. Both will need healthy productive seasons if the Bengals plan to reach the .500 mark. Last year, RB Corey Dillon surprised everyone by rushing for over 1,100 yards. He will need to do the same and show that last season wasn't a fluke. The offensive line is OK at best. The big weakness for the Cincy has been defense. Unfortunately, this will be another long season for the Bengal fans.

## AFC EAST predictions

1) **NEW ENGLAND PATRIOTS**— Last year, the Patriots had a good balanced rushing and passing attack. This season, the rushing attack will be under the microscope. Gone are rushing leader RB Curtis Martin, FB Sam Gash, and FB Keith Byars. The Pats have gone from a solid veteran backfield to an unproven backfield. The Pats drafted RB Robert Edwards. Edwards will be expected to show he can play in the NFL without missing games due to injuries — the big knock on him in college. QB Drew Bledsoe is one of the top five quarterbacks in the NFL. He has several weapons in premier TE Ben "Winter" Coates and WR Terry Glenn. The Patriots should again win the AFC East. However, Bledsoe will have to step it up to another level if the Patriots plan to participate in the Super Bowl.

2) **MIAMI DOLPHINS**— Miami has one of the best coaches in the league in Jimmy Johnson. When Johnson first arrived, he cleaned house. His philosophy has always been win with a power running game. I agree with him. Games are won in the trenches. Championship teams have strong offensive lines, defensive lines, and a veteran quarterback. He inherited a veteran QB with Dan Marino. There has never been another QB to win more games in the last two minutes than Marino. However, Marino is at the very end of his career. The receiving corps doesn't lend much support either. Overall, if the Dolphins can consistently establish a running game, they have the tools to make it again as a wild card team. Otherwise, Dolphin fans could be watching Marino's last year.

3) **NEW YORK JETS**— Bill Parcells is determined to win and win now. In the off-

season, he traded his quality draft choices to the Patriots for his favorite running back— Curtis Martin. Parcells is a winner. He puts fear into his players and is never afraid to get into their faces. With Parcells, the Jets will always challenge for a playoff spot. But the reality of the Jets is that they are not that talented. At quarterback is the no-named Glenn Foley. The areas of this team that most concerns Parcells are the special teams and the kicking teams. Neither has stability. These could be the pieces that cause the Jets to come up short.

4) **BUFFALO BILLS**— The Bills have a new coaching staff and head coach in Wade Phillips. His emphasis will be more on defense. He inherits a team with a perfect veteran leader in DE Bruce Smith. Smith, in his 14th season, still remains one of the top defensive linemen in the league. Last season, Smith led the Bills with 14 sacks. Adding to a very strong defensive line is DT Ted Washington and pass rusher DE Phil Hansen. SS Henry Jones also provides solid play in the secondary. The negative side to the defense is the free agency losses of OLB Bryce Paup and the Bills best cover man— CB Jeff Burris. Also gone is MLB Chris Spielman who has taken the year off to be with wife while she fights breast cancer. Coach Phillips will need to bundle up for those long, cold, snowy days in Buffalo. He should also stock pile some wood for a warm fire while watching the playoffs at home.

5) **INDIANAPOLIS COLTS**— New coach, new quarterback, new cornerbacks— new winning team? I seriously doubt it. The Colts hired new head coach Jim Mora. The Colts also had the first pick in the NFL draft and selected their quarterback of the future Peyton Manning. Manning will soon learn what Jim Harbaugh had to experience in Indy for years— where is my blocking? Manning will also find out quickly that the NFL defensive linemen hit much harder than they did in college. The Colts are one of the weakest teams in the NFL on both sides of the line. Mora is a very good coach, but face it; the Colts just don't have the horses to run with the rest of the division. Expect a repeat of last season. (Next week: Predictions on the NFC teams.)

# AVIATION

Continued from page 1

supplies the aircraft with more power, speed and maneuverability in sideward and backward flight.

The fly-by-wire control means that the controls inside the aircraft are operated electronically.

"There used to be cables, bell cranks, pedals," Darrell Harrison, deputy program manager for the Comanche, said. "Now everything is controlled by wires or electronics. The pilot uses a side arm controller to fly the aircraft, which is a joystick next to the pilot."

Harrison said that the computers used to control the helicopter have triple redundancy and a back up battery in case of electronic malfunction. And the electronics systems have proven to be more reliable than the mechanical ones.

"Pilots have told us that it is much easier to fly," Bergantz said. "They said that they used to spend 70 percent of their time flying the aircraft and 30 percent of their time with things outside the aircraft, finding targets and firing. With the Comanche, those numbers have flip-flopped."

This gives the pilots more time to survey the land, find the targets and gather data.

Training in the Comanche is simplified because the front and rear cockpits are identical, unlike most helicopters. All operations may be conducted from either position.

Special equipment upgrades include second generation Forward Looking Infrared systems in the nose of the helicopter. The lower unit is used for targeting for the aircraft systems while the upper system is connected to the pilot's helmet display, allowing him excellent night vision pilotage.

"The Comanche can fire Hellfires, Stingers or 2.75 inch rockets," Harrison

said. "It has three hard points on each side. And there is a 20mm gun in the front. If the pilot wants to use his weapons, he just opens the trigger guard and that will open the weapons bays and deploy the gun."

Many of the advanced technologies, such as the display screens and instrument panels are not only cutting edge today, but are open in architecture and designed to change with the times.

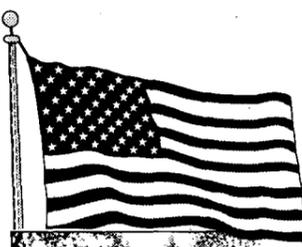
"People say that it's a great aircraft but it will be obsolete by the time we field them," Bergantz said. "We answer that by explaining the open-end architecture, which means that we can upgrade our systems with minimal cost as new technologies become available."

Low cost maintainability was also built into the design. Comanche uses significantly less manpower, spares parts, tools and equipment than current helicopters and requires only 2.6 maintenance manhours per flight hour, compared to the 4.5 hours necessary for the Kiowa. No paper manuals are required. A small portable computer is delivered with each aircraft that displays to the maintainer exactly what is wrong and how to make the repair.

"We've had minimal problems with the prototype," said Harrison, adding that some turbulence with the air flow may mean slight adjustments in the pylon design. "We've also had trouble with vibrations and had to replace a gear box but these are typical development problems, not show stoppers."

At the 100 flight hour mark, the prototype was disassembled and is now undergoing a thorough inspection. As it checks out, it will be up and flying again in October.

A second prototype will be ready for test flights next year. Initial Operational Capability with eight aircraft is scheduled for December 2006. Each helicopter costs \$14.85 million, with a total planned buy of 1,292 by 2025.



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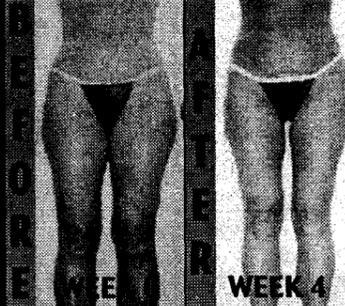
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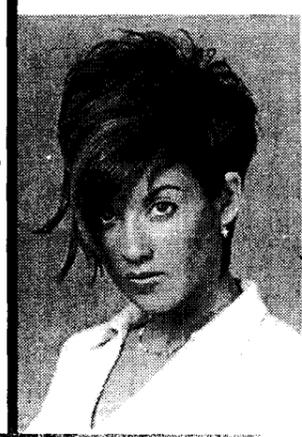


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# Health insurance open season marked by higher premiums

By Douglas J. Gillert

WASHINGTON— Premiums for federal health benefits will increase by an average 10.2 percent in 1999, but with the higher costs will come improvements dictated by President Clinton's Patients' Bill of Rights.

Federal civilian employees enrolling in the government's health plan during the upcoming open season, Nov. 9-Dec. 14, will feel the effects of rising costs nationwide of prescription drugs and other health services. They'll pay about \$3.39 more every two weeks than in 1998. Average biweekly premiums that cost \$27.27 for individuals this year will cost \$30.43 in 1999.

The 1999 increases are actually smaller than this year's, according to Janice Lachance, director of the Office of Personnel Management, which administers the Federal Employee Health Benefits Program. That's because agencies will pay a higher percentage of the total cost, she said. Government (agency) costs for individual plans will average \$70.01 in 1999, an average of \$12.07 more than in 1998.

Employees kept increases down last year and could do the same this year, Lachance said. If they select less costly plans, she said, the average increase could drop to under 7.4 percent.

During 1998, prescription drug costs rose 22 percent nationwide. About one in five dollars expended in the federal health plan goes to pay for prescription medicine.

An aging population nationally and within the federal work force requires more medical services, thereby raising health costs. Other contributing factors include lower fiscal reserves; new, more expensive medical technologies; and managed care savings reaching a saturation point in many areas.

Consolidations and other changes in managed care and point-of-service health

plans have reduced the number of health plans open to federal employees from 350 this year to 285 in 1999.

Despite higher costs and fewer options in 1999, next year's health benefits contain several improvements, Lachance said. Most notably, she said, the program will incorporate the Patients' Bill of Rights, which provides:

- Direct access to women's health care providers for routine and preventive services;
- Use of the "prudent lay person" (a person who possesses an average knowledge of health and medicine) standard when reviewing emergency care visits for coverage;
- Direct access to a qualified specialist for persons with complex or serious medical conditions requiring frequent special care;
- Detailed information about the plan's performance, provider network characteristics and management; and
- A prohibition against gag clauses in provider contracts that could limit communication about medically necessary treatment.

Without reducing existing mental health services, plans now will also cover the management of mental therapy medications in the same way they cover the medical and pharmaceutical management of any other disease.

"The hallmark of the [Federal Health Benefits Program] is quality and choice," Lachance said. "Those who take the time to review their options will find the program offers something for everyone. Federal employees will continue to enjoy lower health care premiums than most covered employees in the United States."

Details of the 1999 Federal Health Benefits Program are available at civilian personnel offices and on the Internet at <http://www.opm.gov/insure/98/html/index.htm>. (American Forces Press Service)

## PHYSICS IN OUR LIVES

FACTS FROM THE AMERICAN INSTITUTE OF PHYSICS

### Physics Of Popcorn

(NAPS)—The cheerful sound of popping corn is a national tradition at parties, movie theaters and snack time. Corn used for popping comes from a special strain called the pericarp. The corn is stronger and has a more airtight outer covering. All corn contains moisture and as popcorn is heated, the moisture becomes superheated steam. Pressure builds up inside the pericarp and at an unpredictable time this hard outer coating suddenly ruptures.

"It takes a very short time, from the time the pericarp ruptures, until the complete expansion occurs. It's in the same range that one would find for explosions, very rapid," explains Carol Hosenev of Kansas State University.

Unpopped kernels are due to damaged pericarps. Just a slight scratch or other imperfection allows the heated moisture to gradually escape, rather than build up. Another reason for unpopped corn is too little moisture in the kernels. Excessive moisture results in tough, rather than crunchy, popcorn. The white ball of well-popped corn is made up of mostly protein and starch granules.

"Starch itself is rather dense and after the popping, we get maybe a



thirty times expansion," states Hosenev. "So, you've got a lot of space involved in the popped corn."

The moisture level of popcorn is a critical factor. If the old-fashioned skillet method produces a lot of unpopped kernels, Hosenev suggests putting the batch inside a refrigerator for a few days so moisture levels can rise. Microwave popcorn is in sealed bags which usually avert moisture loss.

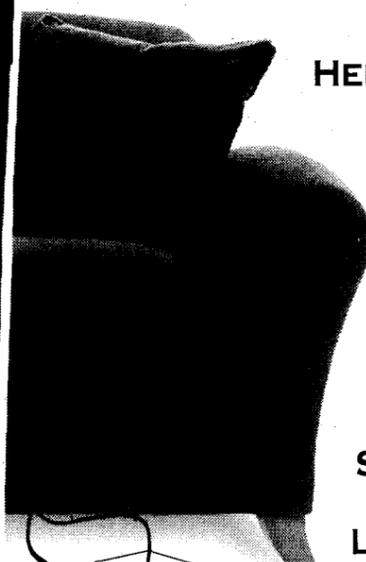
Here's a tip for skillet poppers: superheated steam inside a kernel can gradually escape from microscopic holes. So when popping corn on the stove top, do it as quickly as possible to maintain that explosive pressure which results in fluffy white popcorn.

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Photo Lab picture

### Proclamation signing...

Huntsville Mayor Loretta Spencer signs a proclamation for National Hispanic Heritage Month, Sept. 15 through Oct. 15. Members of the Hispanic Employment Program Committee looking on from left are Olivia Martin, J.R. Contreras, Maria Taylor, SFC Anthony Pugh; Alicia Beam of Marshall Space Flight Center; SFC Milan Skala of the Ordnance Missile and Munitions Center and School; Chris Silva, Marc Subido, Signey Hernandez; Robert Ramos of Logistics Support Activity; and Wally Gonzalez.



Photo by Sandy Riebeling

### Pharaoh's Fury...

Riding the rides was just part of the fun of the Oktoberfest, held at the Parade Field last Thursday through Sunday.



Photo by Sandy Riebeling

### Friends, family, fun...

The Oktoberfest provided something for everyone — rides, games, entertainment and food. Kim Arnold, left, came along to the fest with Mary Stump and her two children, Cole and Will.

## CUT

Continued from page 1

maintenance of buildings and roads will be sharply reduced.

"This is the worst we've ever seen," Keith Kirksey, deputy director of DPW, said of the fiscal 1999 cuts with no relief forthcoming. "This year appears to be the first year that I know of where the cuts are going to stick."

As a result of projected funding cuts for fiscal 1999 in Operations and Maintenance-Army (OMA), Redstone officials have been forced to reduce Northrop Grumman's contract by about \$5 million in the portion that covers DPW.

Things that have been eliminated include preventive maintenance of buildings. Workers formerly went through the buildings twice yearly and fixed everything they could find— lights not working, holes in walls, and so on. That won't happen any more.

Workers also won't do minor service orders of a routine or non-urgent nature. This includes such things as fixing doors that stick when they close, stopped up toilets, or broken soap dispensers. Work will continue for emergency or urgent calls.

As far as alteration work, they will only do those that are customer-funded. They won't do OMA-funded alteration work. Alterations include rearranging what's there— moving office walls, for example — or adding to a structure as opposed to just fixing it. About \$750,000 in alteration work alone was done in the past year.

"We've cut back some major maintenance work by about 30 percent which would be structural repairs to buildings, heating and air conditioning repairs, electrical system repairs, major roof repairs," Kirksey said. "Bottom line impact is approximately one-third of the work Northrop did last year is not funded for FY '99. Major systems have to keep operating. What little money's left over will be applied to most-urgent work requirements, and the less urgent ones just won't get done."

Individual job orders in the aforementioned areas— structural repairs, equipment

replacement, and alterations — took the largest cuts. "We did away with right at 50 percent of that work in the contract," Dwain Elder, chief of operations division at DPW, said. "That's all done by individual job orders."

Northrop Grumman, based in Herndon, Va., is losing about \$5 million of its \$10 million contract. It employs about 400 people at Redstone. The contract, signed in 1994, runs for five years; and Redstone officials are modifying the last option year. "We're exercising the option and we're modifying the contract to reduce the scope," Elder said.

Northrop isn't the only casualty. Criterion Corp., the grounds maintenance contractor based in Columbus, Miss., will feel the impact of a \$1 million cut in that area. Ironically, this cut means much of the grass won't get cut.

"That's going to mean that a lot of grass areas that have been cut in the past will not be cut next year," Kirksey said, "and we'll basically revert back to nature."

This also means reductions in erosion control, trimming of bushes and trees, and less mowings for VIP visits or ceremonies.

"We will not do any road repairs," Elder said. "That's another area that was cut: routine maintenance on the roads."

Areas keeping their level of support include the utility systems, and emergency and urgent service orders. Heating and air conditioning systems will get minor repairs but there won't be any major work nor replacement.

"The DPW regrets the impact this will have on both our base operations contractor and on the customers that rely upon us to provide a quality work environment," Kirksey said. "We will do our best to keep the Arsenal operational with the limited funding that we have."

The outlook looks even dimmer for future years, the hole ever deeper, the light still out at the end of the tunnel.

"The funding projection we've been told for 2000 is to expect a 10 percent reduction below FY '99 levels," Kirksey said. "It doesn't get any better this century."

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# SANDS

Continued from page 16

extensive effort to check out the version 5.0's compatibility with the JTIDS radio. The LCSEC conducted a laboratory-based check of the full interoperability path, from Sentinel Radar track input to display output in the Patriot fire unit.

At this same time, engineers from AMCOM's Research, Development and Engineering Center were upgrading the Sentinel Radar Simulator software. The simulator would be used in the LCSEC tests, and later as part of the extensive RS-98 simulation environment.

### Confidence high

Despite encountering several "glitches," the lab testing was completed in late March, just a few days before the equipment was to be shipped to Fort Bliss. However, the lab tests had served their purpose: confidence was high that the systems and software involved would perform as planned.

Equipment, software and personnel began converging at Fort Bliss on April 12. The Sentinel Simulator, the JTIDS equipped Sensor C2 Node and the 1-44 ADA advance party arrived over the 13th, 14th and 15th in order to conduct connectivity checks and commence RS-98 simulation operations with the JSTE (Joint Services Training Exercise) on the 16th.

Because Sentinel, Patriot and THAAD all could integrate in the extensive RS-98 simulation environment,

the CMDV was also conducted in the simulation mode. Initial observations assessed this effort as successful; however, exact details are awaiting data reduction and analysis efforts by other agencies.

Four Avenger fire units, and the rest of the 1-44 ADA contingent arrived and set up on April 21 to coincide with the start of the Field Training Exercise (FTX) portion of RS-98. Under the direction of Capt. Joe McCallion, assistant S-3, 1-44 ADA, and platoon leader Duvall, unit personnel prepared their equipment, received the operations order, convoyed to McGregor Range, and deployed the Avengers for action. Not long after that, two T-38s scream across the desert from the southeast, and the aforementioned scenario unfolds.

Observers and data collectors at the ABMOC, the Sentinel radar, the Patriot units, and other key locations watch as the CMs are tracked by the Sentinel, sent to the ABMOC, translated to TADIL J, sent out as JTIDS air track messages, received at Patriot, and integrated into its air picture. The T-38s fly two passes of two aircraft each day, varying their ingress route each time, thereby providing excellent training for the platoon, and data collection opportunities for the PEO AMD.

In all, the CMDV was executed in the simulation mode daily throughout the entire exercise, and in the live fly mode throughout the April 21-25 FTX portion, to include all night flights on April 21-24.

When not involved in the

CMDV, the Platoon trained in defense design/fire unit emplacement, convoy procedures, route defense, and static asset defense by taking advantage of the McGregor Range training area, and the numerous threat aircraft which flew during the live fly periods.

### Key participants

The CMDV was only a small part of a large exercise, but it owed its success to a long list of agencies and participants including the Sentinel Product Office, AMCOM LCSEC and RDEC, the Patriot and THAAD Project Offices, the AMDCCS Program Office, McGregor Range Command, the 46th Test Group, the Army Air and Missile Defense Command, the 11th, 31st, and 35th ADA Brigades, and the soldiers of 3-43 ADA Bn, 5-52 ADA Bn and its Echo Battery, and 3rd Plt, A Battery, 1-44 ADA.

The dedicated, professional efforts of the individuals in these organizations combined to make the CMDV possible. Thanks to the RS-98 training and simulation environment, and the aforementioned agencies, the CMDV was a resounding success and profitable endeavor for all who participated.

*(Editor's note: Lt. Col. Treece serves as test director at the Program Executive Office for Air and Missile Defense. Capt. McCallion is assistant S-3 of 1-44 ADA, 4th Infantry Division. De Lary is employed by CAS Inc. where he provides technical support to Army TMD programs and activities such as Roving Sands.)*

# Announcements

## Sports & Recreation

### Hunter orientation

A mandatory Hunter Safety Orientation will be held 4:30-6 p.m. at the Recreation Center, building 3711 on the following dates: Sept. 24; Oct. 8 and 22; and Nov. 5 and 19. All individuals are required to attend this class or take the class by computer at any of the Learning Resource Centers before they will be allowed to purchase a permit to hunt on Redstone Arsenal. All first-time hunters to Redstone and those individuals who have had the computer class for the past two or more years are asked to attend the in-person orientation at the Rec Center. For more information, call Potter or Gail at Outdoor Recreation 876-4868.

### Golf tournament

The Officer and Civilian Women's Club will present the fourth annual Pineapple Open Golf Tournament on Oct. 3 at Redstone Golf Course. Deadline to enter the four-person scramble is Sept. 30. Cost per person is \$37 for Redstone Golf Course members, \$50 for non-course members. Entry fee includes golf, cart, door prizes, and food. A portion of the entry fee is also

a tax-deductible charitable contribution. Prizes will be awarded for closest to the pin and longest drive. A new 1998 Saturn, donated by Saturn of Huntsville, will be the hole-in-one prize. Team prizes are determined by the number of entries. Proceeds for this tournament help support the needs of the greater Huntsville and Redstone Arsenal area through OCWC. Entry forms are available at Redstone Golf Course. There will be a new car awarded as a hole-in-one prize, plus much more. For more information, call Linda Leonard 890-0771.

### Bass tournament

The fall bass tournament, sponsored by the Army Aviation Association of America's Tennessee Valley Chapter, launches at 6:30 a.m. Oct. 3 at Redstone Arsenal Recreation Area. Call Bob Vlasics 881-7123 or Tom Geoffroy 313-1614 by Sept. 28. The tournament fee is \$25 per boat, with cash prizes for first, second and third place.

## Health Matters

### Crisis line volunteers

HELPLINE, a United Way agency, will train  
See ANNOUNCEMENTS on page 24



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# Announcements

Continued from page 23

crisis line volunteers and rape response advocates from Oct 5-28 on Mondays and Wednesdays from 6-9 p.m. For more information, call HELPLine 539-1000.

### Alcoholics anonymous

A new group for Alcoholics Anonymous meets Thursdays at 11 a.m. in Sparkman Center building 5304, room 4309. For more information, call the AA central office 885-0323.... The Redstone Arsenal Group of Alcoholics Anonymous meets each Wednesday at noon and Friday at 5:15 p.m. in room 11 of the Bicentennial Chapel.

### Nutrition talk

Dr. Ladd McNamara is to speak on "The Power of Nutrition in Medicine" from 10 a.m. to noon Sept. 26 at UAH, Administrative Science Building Auditorium, room 125. To reserve seating, call 851-8623.

### Down syndrome

A Targeted Nutritional Intervention Conference for Individuals with Down Syndrome will be held 8:30 a.m. to 4 p.m. Saturday at the Tom Beville Conference Center on North Loop Road on the UAH campus. For more information, call Kim Cuneo 880-2398.

### Shaken baby syndrome

The Exchange Club of Greater Huntsville has teamed up with organizations in the community to promote September as "Baby Safety Month" and to educate the public about the dangers of Shaken Baby Syndrome. Because a child's head and neck muscles are weak and still developing, shaking a baby if only for a few seconds can injure the baby for life.

## Miscellaneous

### Retirement ceremony

The quarterly retirement ceremony is scheduled for 4 p.m. Oct. 8 at the quadrangle behind HHC AMCOM (building 3437). Rehearsal will be held at 7 a.m. Oct. 7 at the same location. If you wish to participate in the retirement ceremony call Support Operations, SSgt. Trescott 842-2385 or 876-2819 by Sept. 18.

### Florida Tech

Florida Institute of Technology is conducting registration for the Networking Basics course which will meet from 5-9 p.m. weekly for four weeks from Sept. 29 to Oct. 20. Government employees have priority on classroom seats. Enrollment is open to all area residents. For more information call the administrative office— in building 5304, room 4326 — at 881-7878.

### Milstake competition

The 832nd Ordnance Battalion will host its annual Milstake competition Oct. 9 from 8 a.m. to 4 p.m. The soldiers at Redstone will compete in four areas: Common Task Training beginning at 8:30 a.m. at building 3440, followed by the Road March (location and time to be announced), Marksmanship at Skunk Hollow Rifle Range and the Drill and Ceremony competition which will conclude the competition at 2:30 p.m. The awards ceremony will be at Headquarters, 832nd Ordnance Battalion, building 3440 at 4 p.m. The community is invited to attend.

### Memorial service

A memorial service for retired CWO 3 Girts Upeslakis will be held at 2 p.m. Saturday at American Legion Post 237, 2900 Drake Ave. Upeslakis was a Pershing missile system technician who served nearly 11 years.

### Retirement reception

The Redstone community is invited to a retirement reception honoring Warner Pruitt of the Directorate of Logistics, RASA from 1-3 p.m. Thursday in the conference room,



Basketball great Walt Frazier's nickname Clyde was inspired by the modish wide-brimmed hats he started sporting after seeing Warren Beatty wear one in the film *Bonnie and Clyde*.

north end, building 3777. Pruitt is saying farewell after 46 years federal service.

### Home buying/selling

Individuals planning to buy or sell a home should attend Army Community Service's "Home Buying/Selling Workshops" scheduled for September and October. Attendees will be able to ask questions and learn from real estate professionals in an informal setting. The free sessions are open to the Redstone community and will be held at ACS, building 3491 on Honest John Road. Scheduled workshops include Sept. 23 at 1 p.m. and 2:30 p.m.; Sept. 24 at 1 p.m. and 2:30 p.m.; Sept. 29 at 9 a.m., 10 a.m. and 11 a.m.; Sept. 30 at 9 a.m. and 10:30 a.m.; and Oct. 1 at 1 p.m. and 2:30 p.m. For more information call Mary Breeden, ACS relocation program manager, 876-5397.

### New parent support

The New Parent Support Program is once again offering client services to military families at Redstone Arsenal. The NPSP is a professional team of social workers and nurses who provide supportive and caring services to military families with children from birth to age 6. These services include prenatal education, infant care classes, parenting classes, referrals, home visits and play mornings. The play mornings will be held on Tuesday and Thursday mornings from 9:30-11:30 beginning Oct. 1 at 1220-B LaCrosse on the Arsenal. For more information, call 842-8375 or 876-2798 from 8 a.m. to 4:30 p.m. Monday through Friday.

### Retired officers

The Retired Officers Association will meet at 11 today at the Redstone Arsenal Club. Burr Ingram, marketing director for Huntsville Hospital, is to give a "Huntsville Hospital Update." For more information, call retired Capt. Albert Castelli 859-1340.

### Prayer breakfast

The September Non-Denominational Prayer Breakfast hosted by the IMMC will be held at 7 a.m. Sept. 30 in building 5309, room 9128 (conference room at east end of

Sparkman Center Food Court). The program this month will include Tommie Lockhart who will speak and sing accompanied by Leon Chavers at the keyboard. No food or drinks will be served, but you may bring your own if you wish. Everyone is invited to attend.

### Education committee

The Army Community Service (ACS) Education Committee will meet at noon today at ACS, building 3491. Any parent interested in the educational needs of their child is invited. This meeting is open to everyone. It is helpful to call in advance concerning problem areas that need to be put on the agenda. For more information, call Virginia Dempsey 876-5397.

### Resource managers

The American Society of Military Comptrollers will hold a luncheon at 11:30 a.m. Oct. 8 at Trinity Personal Growth Center on Airport Road. Cost is \$9 for members, \$10 for non-members. For reservations call Janet Sierna 955-3890.

### Hispanic month

AMCOM and Marshall Space Flight Center will celebrate Hispanic Heritage Month with a luncheon at 11 a.m. Sept. 30 in the Redstone Arsenal Club, Grand Ballroom. The theme for this year's event is "Women in Leadership"; and the scheduled speaker is Dr. Blanca Whitt-Christian. The luncheon will also feature Spanish dancers and Latin music by Soft Note. Tickets cost \$7.50. For more information, call Marc Subido 876-9259. Other scheduled events include a film presentation of "Hero Street, USA" at 9 a.m. Oct. 8 in the Sparkman Auditorium. A Latin Festival will be held 4-6 p.m. Oct. 9 at Just Our Club with snacks and beer provided, music by Soft Note, and a Latin Dance Group performance. Through Oct. 15, a static display on "Flags of the Hispanic Nations" is located in the display area each of Sparkman Cafeteria.

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**We have immediate openings for consultants with the following skill sets:**

**Oracle PL/SQL Developers, Developer 2000**  
 Experience in development of client-server software a plus.

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 System Installation, performance analysis, tuning and troubleshooting.

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We are looking for consultants that are interested in gaining experience using the state of the art Datawarehousing tools.

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*NextGen was founded by a group of software professionals who have created a professional and challenging environment where technical excellence is rewarded. Excellent pay and benefits package. To be considered as a part of our team, send resume to: P.O. Box 2474, Decatur, AL 35602 or e-mail to [jobs@nextgen-inc.com](mailto:jobs@nextgen-inc.com), fax: (256) 306-0053*

# Classifieds

## Payband vote

The AFGE Local 1858 membership voted 109-0 against paybanding at its meeting Sept. 14, according to a message from the union to the command group.

## Waterfowl banquet

Everyone is invited to attend the annual Alabama Waterfowl Association (AWA) Awards Banquet and Auction. It will be held Oct. 10 at Willie J's at Mac's Landing in Guntersville; social at 6 p.m. with a live auction at 8. Cost is \$45 for a single and \$60 for couples; this includes membership and dinner of prime rib. There will be a silent auction, live auction, door prizes, and many items in a raffle. For advance tickets, send check(s) payable to: AWA, P.O. Box 67, Guntersville 35976. For more information call Scott Sanders (256) 586-2568, Scott Harned (256) 379-4255 or Mitch Adams (256) 228-6438.

## Parent council

The Parent Advisory Council will hold its monthly meeting at 11 a.m. Sept. 29 at Bicentennial Chapel. Parents and staff from all Child Development Services programs are welcome to attend. "Please bring your lunch and join us!" a prepared release said.

## HHC AMCOM day

HHC AMCOM soldiers will have their annual organizational day from 9 a.m. to 3 p.m. Friday at Vincent Park. In case of rain the event would be held at the Recreation Center, building 3711. For more informa-

tion, call SFC Lewis 876-5100.

## Acquisition conference

The fall 1998 Army Acquisition Community Information Management User Group Conference will be held Nov. 3-5 at the Huntsville Hilton. Scheduled keynote speaker is Paul Hoepfer, assistant secretary of the Army for research, development and acquisition. For more information, call Carol Winn DSN 664-7465 or Judy Ruben DSN 931-9560.

## Astronomical group

The Von Braun Astronomical Society will hold a program at 7:30 p.m. Saturday at the planetarium in Monte Sano State Park. Mitzi Adams is to speak on "the life and death of stars." For more information, call 539-0316 or Adams 464-0945.

## Best yards

Yard of the Month winners for September include Lt. Col. and Mrs. James Matthewson, 490 Cooke Drive, officer; SFC and Mrs. Ralph Connor, 368 Roberts Drive, senior NCO; Spec. and Mrs. Keith Thompson, 1358-A Tow Circle, junior enlisted single/duplex; SSgt. and Mrs. Larry Freetage, 525-C Magnolia Circle, junior enlisted/multiplex. The unit winner was C Company, 832nd Ordnance Battalion, building 3480. "Thanks to everyone for their dedication and hard work; and lucky planting to everyone," a prepared release said.

## NCO graduation

The NCO Academy will hold a graduation ceremony for the Basic NCO Course at 9 a.m. Sept. 30 in the graduation hall of building 3329. The public is invited. For more information, call 955-7954.

## OMMCS retirees

The Ordnance Missile and Munitions Center and School will have 10 workers retire Sept. 30 under the Voluntary Separation Incentive Pay program. Altogether they have 385 years of federal service which equates to 38 1/2 years for each individual. "The corporate knowledge that will be lost, coupled with their complete devotion to duty, will be a great loss to this organization," OMMCS said in a prepared release. They include George W. Allen Jr., Lowell Barnes, Cecil Doub, Freeman Hollifield, Jimmy Liner, Billy R. Martin, Violet Perry, Jerry R. Payne, Daniel Robbins and Robert Tolgo.

## Admin professionals

The Professional Secretaries International has changed its name to the International Association of Administrative Professionals to reflect the broader range of job titles and expanded responsibilities held by today's administrative support staff. Based in Kansas City, Mo., the IAAP provides education and training, leadership development, publications, and networking oppor-

tunities for its members worldwide. The organization has certified over 53,000 administrative professionals with the Certified Professional Secretary (CPS) rating.

## Catholic women

The Military Council of Catholic Women invites all Catholic women of the Redstone community (valid ID cardholders) to its meeting at 10:30 a.m. Oct. 2 at Bicentennial Chapel. "We will meet in the Activity Room followed by Rosary at 11:30 and First Friday Mass at noon," a prepared release said. "Please join us for this spiritual morning complete with refreshments." Child care will be available. For more information, call Renee Gardiner 837-1289.

## NCO spouses

The Active and Retired NCO Spouses Club will have an international tasting festival and fashion show at 6 p.m. Thursday in the Challenger Bingo Club. "Bring a friend and become involved in your community," a prepared release said.

## Yard/carport sale

Attention Redstone residents: It's time to clean out those closets and all those hiding spots because the Fall Yard/Carport Sale is

See ANNOUNCEMENTS on page 26



## LBJ TIRE

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"Come in and Let Our Friendly Technicians Handle Your Auto Repair Needs!"

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<p><b>Hand Held Scanner Code Check</b> \$22.50</p> <p><b>ENGINE ANALYSIS</b></p> <p>Try Our State-of-the-Art Computer Analysis and We'll Sort Out Your Problem!</p> <p><b>\$44.95</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">COMANCHE ALL TERRAIN 31x10.5x15 Lt. .... \$79.95</th> <th style="text-align: left;">SERENGETI MUDDER 31x10.5x15 Lt. .... \$119.95</th> </tr> <tr> <td>155/80/12 ..... \$24.95</td> <td>195/75/14 ..... \$29.95</td> </tr> <tr> <td>145/80/13 ..... \$25.95</td> <td>205/75/14 ..... \$32.95</td> </tr> <tr> <td>155/80/13 ..... \$26.95</td> <td>215/75/14 ..... \$34.95</td> </tr> <tr> <td>165/80/13 ..... \$27.95</td> <td>225/75/14 ..... \$39.95</td> </tr> <tr> <td>175/80/13 ..... \$27.95</td> <td>195/75/15 ..... \$39.95</td> </tr> <tr> <td>185/80/13 ..... \$28.95</td> <td>205/75/15 ..... \$39.95</td> </tr> <tr> <td>185/75/14 ..... \$28.95</td> <td>215/75/15 ..... \$39.95</td> </tr> <tr> <td></td> <td>225/75/15 ..... \$39.95</td> </tr> <tr> <td></td> <td>235/75/15 ..... \$39.95</td> </tr> </table>	COMANCHE ALL TERRAIN 31x10.5x15 Lt. .... \$79.95	SERENGETI MUDDER 31x10.5x15 Lt. .... \$119.95	155/80/12 ..... \$24.95	195/75/14 ..... \$29.95	145/80/13 ..... \$25.95	205/75/14 ..... \$32.95	155/80/13 ..... \$26.95	215/75/14 ..... \$34.95	165/80/13 ..... \$27.95	225/75/14 ..... \$39.95	175/80/13 ..... \$27.95	195/75/15 ..... \$39.95	185/80/13 ..... \$28.95	205/75/15 ..... \$39.95	185/75/14 ..... \$28.95	215/75/15 ..... \$39.95		225/75/15 ..... \$39.95		235/75/15 ..... \$39.95
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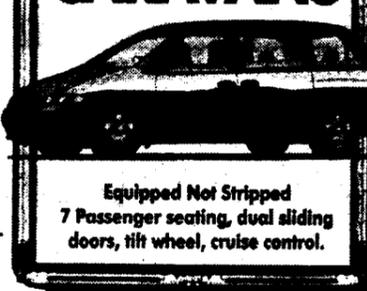
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<p><b>'96 GRAND CHEROKEE LIMITED</b></p> <p>Black With Gold Package. Leather Interior. All the power options. 1 Word - Sharp!</p> <p><b>\$20,995</b></p>	<p><b>'95 EAGLE TALON</b></p> <p>Auto. Power Package. Alloy Wheels. AM/FM Cassette. Super Clean. Super Sporty and Only</p> <p><b>\$10,995</b></p>	<p><b>'93 HONDA ACCORD</b></p> <p>Anniversary Edition, 43K Mi., Auto., Alloy Wheels, Power Package, Teal Green, Tan Interior, Clean.</p> <p><b>\$10,995</b></p>	<p><b>'96 TOYOTA CAMRY LE</b></p> <p>Auto., Leather Interior, Am/Fm Cassette, CD, Alloy Wheels, Hunter Green, Tan Interior. A Very Nice Car</p> <p><b>\$13,995</b></p>
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<p><b>'95 HONDA ACCORD EX</b></p> <p>4 dr., Auto., Leather Int., 46K Mi., The Car Has Been Well Maintained And Shows It</p> <p><b>\$14,995</b></p>	<p><b>'93 JEEP GRAND CHEROKEE LIMITED</b></p> <p>Red With Leather Interior. Gold Package. All The Power Features. Runs. Looks and Drives Like New.</p> <p><b>\$14,995</b></p>	<p><b>'93 FORD EXPLORER SPORT</b></p> <p>2 dr., 5 sp., Air, Am/Fm Cassette. All The Power Equipment. Local Trade Here's A Bargain</p> <p><b>\$5,995</b></p>	<p><b>'92 JEEP CHEROKEE</b></p> <p>4 Dr., Auto., Air, Am/Fm Cassette. Local Trade-In. Power Windows and Door Locks. Runs Great</p> <p><b>\$7,350</b></p>
<p><b>'94 CHEVROLET SUBURBAN LT</b></p> <p>4x4, Leather Int., Front And Rear air, 2 Tone Brown and Beige. Too Many Options To List</p> <p><b>\$17,995</b></p>	<p><b>'92 PONTIAC BONNEVILLE SE</b></p> <p>46K Mi., Power windows, Door Locks, Tilt, Cruise, Tape. This Car Is Like New In Every Way- Except Price!</p> <p><b>\$8,995</b></p>	<p><b>'96 DODGE INTREPID</b></p> <p>V6, Auto., 4 Dr., Power Windows and Door Locks, Am/Fm Cassette. A Nice Family Sedan. Priced To Sell.</p> <p><b>\$9,995</b></p>	<p><b>'94 CHEVROLET Z71 4X4</b></p> <p>Auto., Am/Fm Cassette, Cold Air, Power Windows and Door Locks, 350 V8, Local Trade. Runs and Drives Great.</p> <p><b>\$11,995</b></p>

# ANNOUNCEMENTS

Continued from page 25

scheduled for 8 a.m. to 5 p.m. Oct. 3-4. "The sale will receive wide publication on the installation, however, you may consider advertising your own sale through local newspapers, bulletin boards, Bargain Hunter, Commissary, etc.," a prepared release said. "The use of stake-mounted signs directing traffic to your sale location are authorized for dates of sale only. All advertisements must be removed immediately after the sale period. A well-organized and attractive display of merchandise is the key to a successful sale. You are encouraged to set up your displays in a location that will divert customers away from grassed areas. Policing of lawns, carparks, and surrounding areas must be done immediately after the sale period. This is great opportunity for some of us to dispose of those things we no longer need and for others to pick up a bargain. Most importantly, it's a great time to socialize with our friends, neighbors, and make a few new friends in our community. Lively selling and shopping to all!"

## RASA retiree

A retirement reception for Steve Carter, executive assistant at Redstone Arsenal Support Activity, will be held 1-3 p.m. Sept. 30 at building 112, room 301.

## Church breakfast

Lewis Chapel Church will have its second annual Women's Unity Breakfast at 7:30 a.m. Saturday at the church, 5001 Pulaski Pike. Activities continue until 2 p.m. For more information, call Sharon Booker 842-9813.

## Gospel drama

"Fake Friends," a gospel stage play, will be presented Oct. 4 at 3 p.m. and 7:30 p.m. at the Von Braun Center Concert Hall. For more information, call Steven Moore 852-0065 or 859-4731.

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 phone numbers only.

## Autos/Trucks



- '97 Dodge Caravan SE. Security and pwr. pkgs., sliding and passenger doors, under warranty. \$16,000. Lost job, gotta sell. 461-8267.
- '97 Ford Ranger XL. 5 sp., manual, 13K mi., under warranty. \$9,500 obo. 721-8041 evenings or lv. msg.
- '96 Buick Riviera. Exc. cond., gray / gray leather, 18.6K mi., luxury loaded. \$21,500 firm. 895-9307 after 6 pm.

- '95 Dodge Ram. Loaded. \$16,895. 18 ft. Glasstron runabout w/ 115 hp Evinrude OB. 464-5878.
- '95 Eagle Talon. Fully loaded AWD turbo. \$9,500. 722-9136.
- '95 Ford Aspire. 4 dr., 5 sp., stereo, well maintained. \$400 down and \$130 per mo. with good credit. 859-4291.
- '95 Ford Mustang convertible. Red, V6, 5 sp., 47K mi., fully loaded, leather int., extended warranty. \$13,500 neg. 772-4437.
- '95 Ford Mustang. V6, black, 49K mi., loaded, new tires, exc. cond. \$9,500. 880-8307 after 6pm.
- '95 Ford Taurus GL. Green, auto., all pwr. loaded, 81K mi., exc. cond. \$5,800 obo. 864-0664, 720-4667 pager.
- '95-'85 Cars for \$100! Trucks, vans, 4x4's, motorcycles, jeeps, RV's and more! Must sell! 1-800-522-2730 x 4411.
- '94 Ford Explorer 4x4. V6, 2 dr., 5 sp., sports package, loaded, exc. cond., sharp, elect. red, 47K mi. \$13,900. 512-0018.
- '94 Ford Mustang GT 5.0. Teal, lots of extras, immaculate cond., 5 sp., gray cloth int., 6CD, 3:73. \$11,987. 880-9589.

- '94 Mazda B2300 P/U with matching camper shell. 5 sp., air, 59K mi., immaculate. \$7,500 obo. 883-6894.
- '93 Buick Roadmaster Limited. Loaded, like new, lady driven, new tires, battery, alternator, belt, front disc pads, transmission fluid and filter, 77K mi. NADA book value \$11,875. Bargain at \$9,875 for quick sale. 852-2924.
- '93 Ford Taurus GL. Blue, AM/Fm cassette, pwr. windows / locks. \$5,500. 864-0645.
- '93 Honda Prelude Si. 69K mi., 5 sp., PW., PDL, PS, sunroof, asking \$10,500. 722-5231.
- '90 Mazda 929. All power, loaded. \$2,000 obo. '88 Ford Mustang LX. Clean, CD player. \$3,500. 828-3203.
- '90 Olds Silhouette MPV. Blue, seats 7, 113K mi., selling due to move. \$3,900. 837-8592.
- '90 Toyota Supra Turbo. Ruby pearl, 5 sp., loaded, all pwr., 1 owner, well maintained, pampered, very pretty. Only \$6,450. 539-6190.
- '89 Toyota Camry. Good cond., asking \$3,700 obo. 722-8108.
- '88 Audi 90. Black, loaded, pwr. sunroof, ABS, leather, 111K mi., exc. cond. \$3,500 obo. 883-5360.

- '88 Beretta. V6, PW, PL AM/FM, tilt, 145K mi., grea body but transmission is shot \$400 obo. 582-5254.
  - '79 Vette. Black, L-82, auto. very nice. \$7,900. 882-1930.
- Buy cars for \$100. Seized and sold locally. Trucks, 4x4's, RV's and more! Call 1-800-522-2730 x 4281.

## Boats & RVs



- Bayliner 2450 Ciera Sunbridge Cruiser, 1987, 25 ft., trailer, V8, depthfinder, trim tabs, shore power, radio, all options. \$14,000. 852-5099.
- Bayliner. '86 21 ft. Ciera Cruiser, exc. cond., low hrs., trailer. \$9,500 obo. Howard. 837-1785.
- '84 187 Chaparral Bow-rider. 140 hp., I/O, trailer, cover, exc. cond. \$4,200 obo. 651-8483, 518-4700 pager.
- '89 Catalina 25 sailboat. 150 genoa w/roller furl, bimini, OB, head, microwave, exc. cond., freshwater only. \$11,000. 883-4118.
- '92 Starcraft popup camper. Sleeps 6+, awning, bike rack, exc. cond. \$2,800. 247-7321.

**Will Finance \$100 Off** With this ad

**S&S Auto Sales**

256/859-2309	256/539-3911
5933 Hwy. 53 Harvest, AL	Huntsville, AL

'91 Jimmy 4x4	'850 Down	'94 Tempo	'550 Down
'93 Sundance	'750 Down	'85 Towncar	'550 Down
'95 Escort	'650 Down	'90 Daytona	'450 Down

**AND OTHERS. 60 DAY WARRANTY**  
Call 859-2309 or 539-3911

**Final Fall Clearance**

**AVIS**

**1997 Chevy Cavalier**  
4 DR., 4 CYL., TAPE  
**\$9,300**

**1997 Pontiac Bonneville**  
4 DR., 6 CYL., PL, PW, Cruise, Tilt, Tape Player  
**\$14,500**

All cars include original 3 years / 36,000 mile warranty. All cars are subject to 4% tax.

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Call Kathy Marti, Fleet Mgr. at 539-1516

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**Free classifieds** (limited to 20 words) are provided to all Redstone Arsenal personnel. **PERSONAL ITEMS ONLY REAL ESTATE, BUSINESS AND "FOR PROFIT" DO NOT QUALIFY FOR THIS FREE OFFER.**

Only one ad per week from an individual Ads must be mailed, delivered, or faxed to **The Advertiser Company, 3315 Bob Wallace Ave., Suite 106 Huntsville AL 35805**

FAX (256) 539-9866 by 5 p.m. Friday prior to Wednesday's paper. **FOR COMMERCIAL AD RATES CALL (205) 539-9828**

Please run the following non-commercial classified ad in the next edition of the Redstone Rocket:

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Any '98 Subaru ONLY \$98 OVER FACTORY INVOICE

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Don't Miss These Closeout Savings At TONY MOORE MITSUBISHI

1998 '2100<sup>00</sup> Under Eclipse GS Factory Invoice\*

1998 '3500<sup>00</sup> Under Factory Invoice\*

\* Add tax, title, doc. fee, rebate applied.

**Tony Moore**  
MITSUBISHI  
725 Beltline Rd. S.W.  
Decatur 353-3121 Huntsville 533-1189

# Classifieds

## Miscellaneous

**AMD-K5 75 Mhz chip**, \$15. Airmaster exercise bike by Roadmaster, \$60. 650-1592 after 4 pm.

**Antique cash register**. Brass, NCR #336, really nice, \$750. 852-2324.

**Antique library table**. Large carved legs, \$475. 40's mahogany buffet, very unusual. \$995. 536-4718.

**Antique table and 6 chairs**, needs refinishing, \$150 obo. 837-9677.

**Bedroom suite**, Broyhill, French provincial, dresser, bed, night stand, \$225 for all. 890-0319 or 882-1399.

**Browning Vortex bow (RH)** with Kwikkee Kudver and camouflage carrying case, \$125 obo. 723-2320.

**Buy cars for \$125!** Being liquidated in your area now! Seized and sold locally. Trucks, RV's, vans and more! Call toll free 800-522-2730 x 4410.

**Colonial fireplace mantel** with twin pedestals. Fits 36Hx42W firebox, \$295. 837-1609.

**Dinette table**. Smoked glass round table top (45 in.) for mounting on tubular metal base. 4 metal, upholstered, swivel, tilt-back, rolling, matching chairs, \$175. 971-9767.

**Eight AKC Doberman puppies**. Champion bloodline. Dew claws removed, tails docked, dewormed and 1st shots, \$250 ea. 721-0574 or 730-6845.

**8am-4pm Garage sale**. Household goods, wood-working tools, garden equipment, cookbooks, kitchen supplies and more. **249 Pineridge Rd., Madison.**

**Entertainment center, solid oak**. Holds 27" TV, VCR, stereo and storage. Over \$1,400 new, asking \$500. 883-6898.

**Estate sale**. 9/18 and 9/20, 7:30am to 4pm. Furnishings, household goods, tools, wood-working bench, electronics, garden equipment, etc. **249 Pineridge, Madison.**

**First Class. Party in class** with First-Class. September 26. Door prizes, entertainment, roses. Fashion show, 8pm Saturday at the Madison Ramada Inn, 1 mi. from I-565 at Exit 8. \$10 advance, \$12 door. Ticket info call (256) 852-4970.

**4 drawer all metal desk**. Size 5'x2.5', \$75. L-Shaped computer desk. 880-7167.

**Golf clubs**. Pro Tour, True Temper Dynamic Gold shafts, new grips, \$95. Cleveland Lab wedge, \$40. 880-0412.

**Golf clubs**, \$3 ea. or 4 for \$10. Both irons and woods, also golf bag, \$5. 881-2838.

**Hardy Cushion Mums**. Thousands to choose from. 10 for \$20. Jimmy's Greenhouse. 233-0247. 1-800-25-shrub.

**Magnavox VHS camcorder** and batteries. Model CVL 300, needs a minor adjustment (unstable image), \$100. 464-9690.

**Men's Raleigh Techrium**, 12 sp., 21" frame, perfect cond., \$250. 722-9250.

**Need dependable ride to and from work**. Residence, Briar-green Apts., employed building 4488 Martin Rd. Interested 461-3377 / 828-6246 lv. msg.

**Neighborhood yard sale**. Saturday 26 September, time 8am-2pm. Furniture, household and misc. items. 554 Wess Taylor Rd., cash only.

**Nordic Trac Challenger**. Like new cond., with monitor to measure speed, distance, time. \$100. 721-4573.

**Old brass bed**. Cannon ball tops, full, \$200. Sony tape deck. Reel-to-reel, \$75. Mantle for fireplace, \$25. daytime. Pair Flokati green rugs, \$50. 881-1030.

**Ping-Pong table**. Good cond., \$100. 882-1980.

**Silver Arms II 20 gauge** over / under shotgun, 28" barrel, extra chokes, perfect bird gun, exc. cond., \$400. 313-2450.

**Sleeper sofa with matching loveseat** and lamps, \$250. 753-6242.

**Stearns and Foster Q-size** mattress, boxsprings and frame, \$200. Nordic Track, \$350. Health Rider, \$200. Vinyl sleeper / sofa, \$100. Antique BR set, price TBD. 883-1510.

**Treadmill**, barely used Courier DP, 2 hp, 10 mph with incline. Paid \$450, will sell for \$200. 721-7799.

**25 Hp Evinrude**. Runs great, EIE start, tiller handle, \$400. 722-9784 after 5 pm.

**24" split oak gas log set**. Natural gas, 60,000 BTU, vented, new, \$50. 726-0427.

**2 kittens, 1 male and 1 female** to a good home. 881-6387.

**2 tickets to the Winn Dixie** 300 at Talledega's new Tri-Oval Tower on Oct. 10th. \$50 ea. 883-5396.

**Walnut Tudor dining table**, 5 chairs, \$300. Sideboard, \$175. Mirrored solid oak hutch, curved glass door, \$595. Pat, 837-3999, 852-8516.

**Want to buy HP-67 or HP-97** calculator, good cond. 772-8209 after 6pm.

**Washer and dryer**. Almond, Sears heavy duty. Exc. cond., \$300 for the pair obo. Will deliver within area. 772-2422.

## Real Estate

**Autumn equals no crowds** at Gulf Shores! Rent a Gulf-side, fully furnished 2 BR/1BA condo \$63 a day, \$378 a week, \$756 a month. Leave a message or fax (256) 883-5983.

**Condo for sale by owner**. 1BR. All appliances included, near Redstone Arsenal Gate 8. \$32,800. (256) 551-0223. Call after 5 pm.

**For rent: 1 BR apartments** near Brahan Springs and Parkway City Mall. Private patio / balcony, free cable-TV, laundry room. Starting at \$285/mo. Ask about our lease discounts. 859-1122.

**FSBO: Country living**, 3BR, 2BA on 1 acre. Garage, back deck, storage shed, paved driveway. Minutes to Huntsville. Great place for kids! 1-931-937-8020.

**4-plex for sale in Madison**. Positive cash flow. Exc. tax advantage. \$12,000 equity. 837-8331.

**FSBO. Walking distance** to whitesburg schools. Hsv. High district. 3BR rancher, 1768 sq.ft. \$95,000. Go south on Whitesburg Dr., turn R on Drummond Rd., Go 1 block turn left on Chadwell. 6217 Chadwell Rd. By Appt. only. 881-7447.

**Hazel Green, 3BR, 2BA** brick ranch. cul-de-sac. Cathedral ceilings, fireplace. Great schools / neighborhood. New roof. Seller pays closing. \$73,000. 881-7356, 828-3415.

**Home for sale**. 4BR, 2BA, .5 acre lot, 2400 sq.ft., 36 ft. x 11.6 ft. den with storm cellar. 1/2 mile from RSA. New roof, heat and air system, dishwasher and duct work. (256) 539-8557.

**New Construction Monrovia**: Kelly Springs sub., 3BR, 2BA brick ranch with greatroom and rec room on cul-de-sac lot with trees, 2010 sq.ft., cathedral ceilings. \$126,000, add 3% with realtor. 461-7642 or 721-7799. Dir: N on Jeff Rd., right on Springview to 140.

**Super location, super price!** Only minutes from Huntsville. Brick rancher with 3BR, 2BA, fireplace and extra large fenced yard only \$78,900. Call Debra 337-8626. OMNI REALTY.

**Take over payments!** \$214.36 /mo. '96 Clayton mobile home. 1216 sq.ft. Like new! 3BR, 2BA, dishwasher, range, refrigerator, assume for \$500 and good credit. 830-0805.

**2-1 acre residential building** lots. Utilities, cable, perked, dead end street. Nice area in Toney. 852-1180.

**Year old brick rancher**. 4BR, formals and family room. French doors, treyed ceilings, cherry cabinetry. Assumable VA. For free audio tour call 1-800-900-1483 extension 2951.

## Services

**Avoid bankruptcy**. Free debt consolidation application with service. Cut payments to 65%, 24 hr. approval. 1-800-873-8207.

**Ride Dee's Winning Fun Bus** to Tunica every Sat. and Wed. Bus fare, \$20. 2 free meals, \$15 in coins. It's the best! 536-0205.

**Ms. Bertha's Babies** licensed home daycare has openings for children ages 6 wks-2 yrs. Loving, caring environment. Hunter's Chase Apartments located off Wall Triana Hwy., Madison. 895-9032.

**S&S Electric**. Free estimates. Licensed and insured. No jobs too small. Please call 464-3653 or digital beeper 535-9971.

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FAX #: (256) 564-9905



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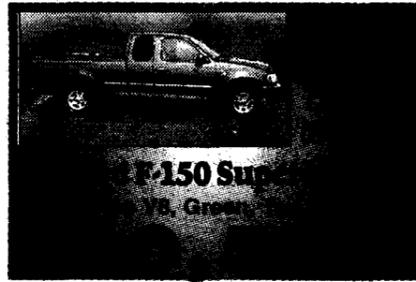
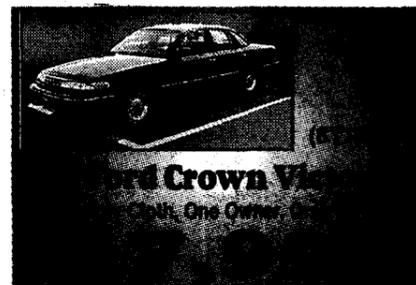
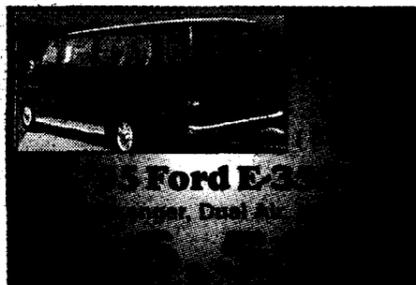
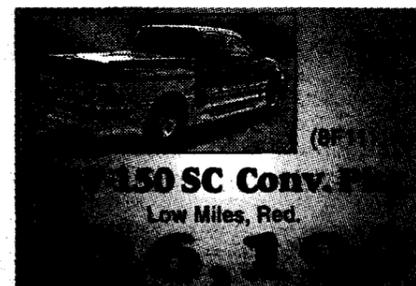
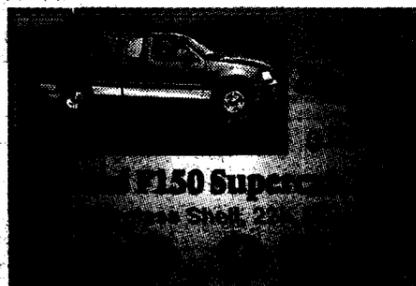
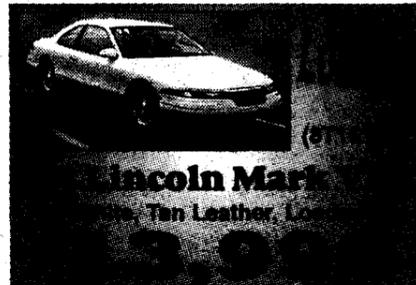
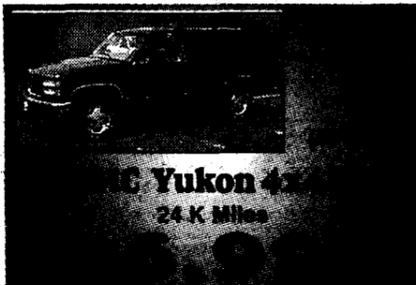
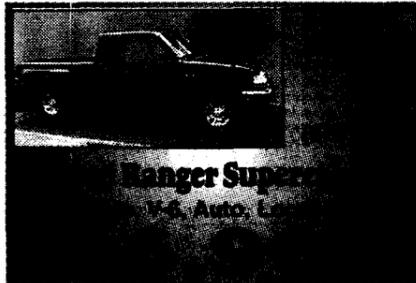
 <b>'93 PONTIAC GRAND AM</b> 2 Dr. Coupe, 5 Spd., AC, Cass. <b>\$3,995</b>	 <b>'95 Dodge Intrepid ES</b> 4 Dr., Auto, Tilt, Cruise, AC, Cass. LOADED! <b>\$6,695</b>
 <b>'90 Honda Accord DX</b> 5 Spd., AC, AM/FM Cass. <b>\$4,495</b>	 <b>'94 Chevy Cavalier</b> 2 Dr., 5 Spd., AC <b>\$2,450</b>
 <b>'84 Toyota Corolla</b> 4 Dr. Auto, AC, Sharp Little Car! <b>\$1,795</b>	 <b>'93 Chevy Astro Ext. Van</b> Auto, AC, PW, PL, Tilt, Cruise <b>\$4,995</b>
 <b>'94 Nissan Pickup</b> 5 Spd., AC, AM/FM Cass., Wheels <b>\$4,995</b>	 <b>'85 Ford F-150 4x4</b> V-8, Auto., AC <b>\$4,495</b>

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