

# Redstone Rocket

Vol. 40 No. 25

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June 26, 1991

## Project sponsors trip for war's MLRS users

Representatives from various Army units visit contractor's production facility in Arkansas

BY SKIP VAUGHN

Some soldiers from Fort Hood, Texas, are in Camden, Ark., today visiting the production facility or the Multiple Launch Rocket System which their unit used with success during the Persian Gulf War.

The MLRS Project Office is sponsoring these visits to

the LTV Aerospace and Defense production plant for soldiers from Fort Hood, Fort Bragg, N.C., and Fort Sill, Okla. The Fort Bragg soldiers visited the plant May 22; the Fort Hood soldiers visit today; and the Fort Sill soldiers will visit July 10.

Each installation is represented by an officer, two

NCOs and a private. The selected units include 3rd Battalion, 27th Field Artillery, at Fort Bragg; A Battery, 21st Field Artillery, 1st Cavalry Division at Fort Hood; and 6th Battalion, 27th Field Artillery, at Fort Sill. The Fort Bragg unit, with 18th Airborne, is credited with firing the first MLRS in the war. The Fort Hood unit provided support to the 18th Airborne. And the Fort Sill unit fired Army Tactical Missile System munitions from its deep-attack launchers.

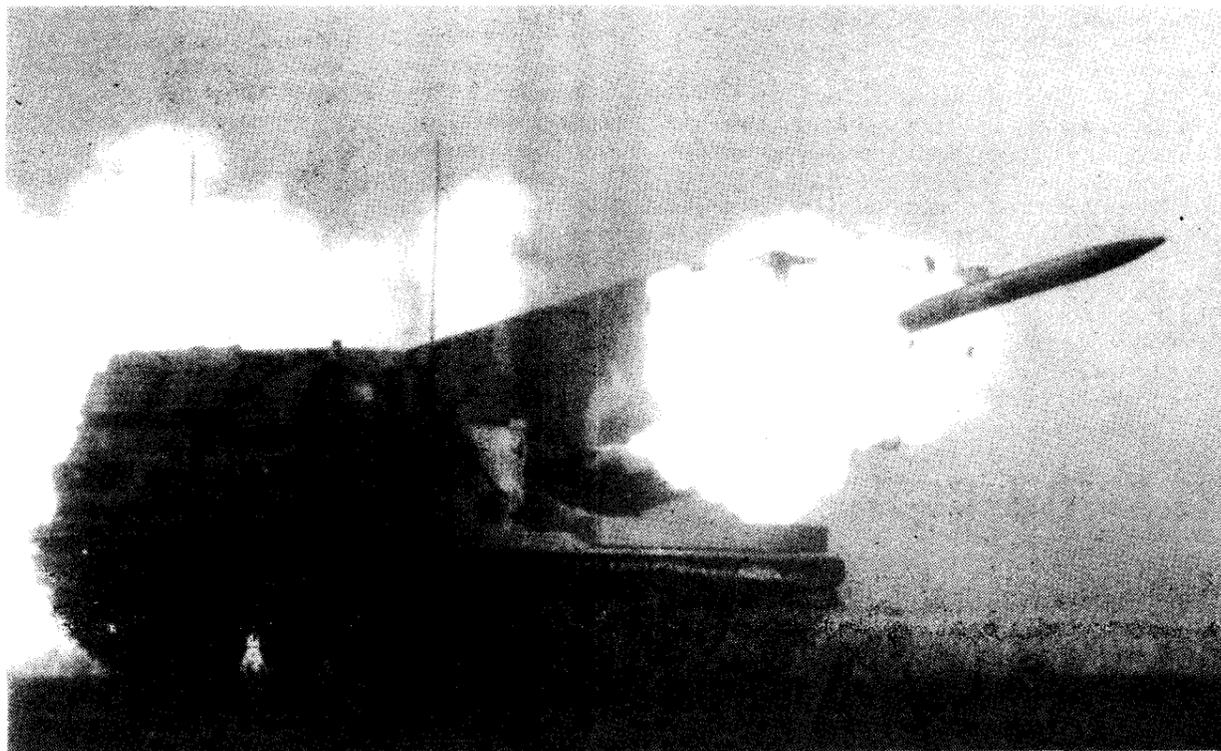
"We're paying for their travel (to the production facility) but it's worth it; it's a good investment," said Tony Adams, logistics division chief in the MLRS Project Office. "It makes the soldiers feel real good. It makes the people in production feel real good."

"LTV has a very conscientious work force and is very quality oriented. It's a way to say thank you to them and thank you to the green suiter also," he said.

The visits also provide important feedback from the soldiers who used the Multiple Launch Rocket System in the war. "We got a chance to discuss different maintenance problems that they experienced in the field," said Sam Collier, a logistics management specialist in the project office, who attended the May visit along with Adams. These included problems caused by sand getting into components. The units had to change the oil about three times a week and they had to change the air filter because of a bad sandstorm, according to Collier. "We're looking at better ways to design components to prevent more sand problems," he said.

"And also we found out the common LRUs (line replaceable units) that had failures. And that information was valuable to me because I have a questionnaire that's out in the field," Collier added. "In the future

(See MLRS, cont'd on page 20)



MLRS FIRING DURING WAR — The 1st Cavalry Division from Fort Hood fires a missile during the war in Southwest Asia.

## German Air Force ends training at Redstone Arsenal

The German Air Force detachment has officially deactivated and departed Redstone Arsenal after 35 years of providing training for German officers and airmen.

A deactivation ceremony was held Thursday for the 30-member detachment which at times numbered from 50 to 100 members. Lt. Col. Bernhard Seen arrived as its commander in June 1987.

"We have been here since 1957 and we have trained over 5,000 soldiers," Seen said. "We have made so many friends here in Huntsville." Most of the 5,000 students of the German Air Force have been accompanied by their families, bringing the total number to more than 10,000 that have lived in Huntsville for generally one year.

The detachment began training here on the Nike air defense system in 1957. The German liaison office was established in 1962. Seen first arrived in 1965 as a student at the school, as a lieutenant.

Germany's Ministry of Defense, in cooperation with the German Air Defense School at Fort Bliss, Texas, decided to end training here as a cost-cutting measure. Weapon system training will continue at Fort Bliss. Also, depots in Germany perform specific ordnance training and ordnance repair training.

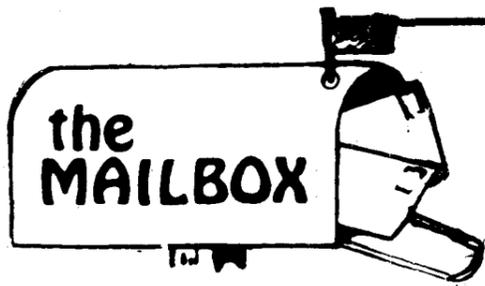
The German presence will continue at the Missile Command in the form of liaison offices to specific programs such as Patriot, Multiple Launch Rocket System, and Stinger. These include civilian and military people. Seen had served a dual role as German liaison officer to MICOM, mainly for the Hawk air defense system, and as liaison officer to the Ordnance Missile and Munitions Center and School where the detachment was located.

He will be returning to Germany July 2 with his wife, Inge, and youngest of four sons, Gunnar, 20, who just graduated from the University of Alabama in Huntsville with an associate degree in engineering. Seen will become chief of the Hawk branch at the Air Force Material Command in Cologne, Germany.

Speakers at the Thursday ceremony, held indoors at the International Student Company building because of rainy weather, included Seen; Col. Rudolf Neumann, commandant of the German Air Force Air Defense School at Fort Bliss; and Col. James Boddie, (See Ends, cont'd on page 5)



DEACTIVATION CEREMONY SPEAKERS — From left are Lt. Col. Seen, Col. Boddie and Col. Neumann.



## Surplus sales

Editor:

Out of 40 Government Surplus Sales listed in the DoD handout, Redstone Arsenal is the only one that uses the spot bid technique. All the buyers get ripped off because nobody knows what the item is really worth to the other bidders if any, so all the people interested in the item for bid make high desperation sealed bids. The high bid wins, but really loses.

Tom Stroud

## Careless driver

Editor:

This is an open letter to the lady (term used loosely) who was driving the red Chevy Z-24 on Wednesday, June 19 around 6:35 a.m. on Patton Road, heading north (just before the bridge). I hope that the few extra minutes that you got was worth the upset you may have caused the people you passed and the man driving the Ford pickup truck. If he had not been a defensive driver, he probably would have hit you or caused you to hit the tan car you pulled in front of. As it happened, he ran off the road, just barely missing the barbed wire fence and a utility pole. I seriously doubt that any supervisor would want you to put your life (or anyone else's for that matter) in jeopardy for just a few minutes. If so, then maybe you should leave for work an extra 10-15 minutes so as not to repeat this incident again. Or change your tour of duty. I hope that this never happens to you; it is not a comfortable feeling knowing that someone so careless is on the road.

Name withheld by request

## LogU view

Editor:

In response to Jimmy Harbin's letter regarding the LogU Program at Redstone Arsenal, I have the following opinion to express.

Having a personal desire to enhance my career by furthering my education, I inquired about the LogU Program. The answers I received were discouraging. I discovered that LogU is not open to clerical personnel, just those people that are already in a logistics field. Further, in response to attending LogU courses, I was advised to take courses at any of the local colleges and universities on my own (time and expense).

I feel that if the government is offering such a program, it should be opened to anyone having a desire to further their education or enhance their career. By omitting clerical and non-logistics employees from this

program shows that the government does not encourage its employees to pursue education training and/or to enhance their career.

If I choose to take the courses offered by the other local universities, and complete the program successfully, does that ensure me a career position in that field? By not allowing me to attend LogU courses, I feel that the government has prevented me from being competitive and realizing my career aspirations.

Cora E. Jackson

CORPS SAM Project Management Office

## TQM issues

Editor:

During the last six or eight months, there has been a lot of emphasis placed on Total Quality Management (TQM) in the Missile Logistics Center. We attended two-hour sessions at least once a month and sometimes twice a month. In the item management area when you have followed the following situations, it is hard to feel there has been very much change:

a. We have no clerical support and have had to type all our correspondence on the computers. We were assigned to distribute the mail because our clerks did not have time.

b. We have computers on our desks that have been there for six months and we were told the funds were not available to connect them. There seems to be plenty of time and funds for the beautification projects.

c. There are numerous unnecessary TDY trips. People cannot do their jobs for being sent on useless trips. While they are gone, their work is either stacking up or someone is having to work overtime to get the job done. You return from these trips wondering what was the purpose, because you received nothing beneficial.

The best way to implement TQM would be to look at the above situations and try to correct.

Name withheld by request

## Nursing profession

Editor:

I was truly heartsick to read the letter of June 5 concerning the grievances about National Nurses Week. I say heartsick because the letter was dripping of venom and misinformation and I hate to think that any of our fine people are hurting that much. However, I must respond because I am the only Army Nurse Corps Officer at Redstone Arsenal who is not rated by Nursing Administration and I have 19 plus years in the Army, i.e., nothing to gain or lose. Nursing is an arduous profession. According to the American Nurses Association, the average working life of an RN is three years. That means you spend four years getting an education and three years practicing it. It is stressful, strenuous, the hours stink, and you get your heart broken a lot. On the other hand, if you are born to be a Nurse you can experience a joy not found in too many places on this earth.

In reference to the selection of the Nurse of the Year awards, anybody can nominate anybody for those

awards. The form is several pages long, the criteria is spelled out. The people who are nominated are those people who someone, anyone, has thought well enough of their contribution toward Nursing to spend the time and effort it takes to fill in the blanks. Nursing Administration has nothing to do with it. The selection committee consists of enlisted, NCOs, civilians and officers. I feel that the person selected for the Army Nurse of the Year Award was personally attacked in print. This officer has spent 20 years Nursing, teaching others to be Nurses, and developing excellence in Nursing. I feel very proud that there are people of her caliber in Army Nursing. Now the Chief of Nursing Administration is guilty of a lot of things. She is guilty of having the temerity to tackle problems that have been swept under the carpet for years. She is guilty of driving all of us toward excellence in Nursing. She is guilty of being an excellent administrator and manager. She is guilty of personally spending her Thursday evenings babysitting the children of the MEDDAC spouses so they could have some adult fellowship and support. She is guilty of spending personal funds and buying roses and sending notes of thanks to each nurse. She is guilty of worrying that things would go OK for the Nurses Day Celebration. She is definitely guilty of devoting the greater portion of her life to ensuring that our patients get quality Nursing care. She is guilty of seeking every possible opportunity to tell people they have done a good job no matter how small the job may have been. She is not a "Buck passer," she is a developer who drives herself as well.

As far as the junior Army Nurse Corps officers being overworked, you bet they are. They will continue to work long hours, have a lot of responsibility, and if they hang in there long enough they will be the future leaders, just as it is in the Ordnance Corps or the Infantry, or any other branch of the Army Officer Corps. One of the main reasons that Fox Army Community Hospital received an excellent rating by the Joint Commission for Accreditation of Healthcare Organizations is because of all that hard work.

For those who feel so bitter, perhaps a bit of soul searching may be in order. In closing, I would like to add that during my recent hospitalization at Fox my Nursing care was superb. I don't think I would have received any better care in a large medical center. From the clinic to the O.R. Recovery Room, ICU, and the Med Surg ward you were all wonderful, caring nurses and I felt very safe. In your letter you thanked God for the gratitude and understanding of your patients which reminded you that you don't need an award to know that you are doing a good job. Nursing is a tough job, and from a recent patient, I thank you for not letting your unhappiness affect the wonderful care I received.

Maj. Sue E. Willis  
Community Health Nurse

### Sign your letter

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

## Missile Logistics Center has big plans for its 10th anniversary celebration

Editor's note: The Missile Logistics Center provided the following news about its upcoming anniversary.

The Missile Logistics Center will be celebrating its 10th anniversary July 9.

The celebration should prove to be a time of fun and relaxation for everyone. Missile weapon systems such as Patriot, Apache, Multiple Launch Rocket System, etc., will be on display. The halls of building 5681 will be decorated to reflect work activities as well as fun times.

Plans include computer demonstrations in the Executive Conference room. Arts and crafts will be available for viewing. Entertainment is planned for throughout the day. Old-timers — retirees/former employees — will be socializing with everyone. MLC plans to honor civilian and military personnel who served their country during Operation Desert Shield/Storm/Sunset.

The official ceremony begins at 10 that morning with activities available for viewing from 9 until 3 that afternoon. The low price of \$1 will net you a hot dog, sno cone, drink(s), pop corn, and chips. Tickets are available at all MLC offices or will be available from the ticket booth at building 5681 on the day of the celebration.

"Bring your family and friends and join us," the MLC release stated. "We look forward to seeing each of you at the celebration."



PERFECT FIT — Jim Flinn, director of the Missile Logistics Center, tries on an MLC 10th Anniversary T-shirt while Brenda King, T-shirt coordinator, ensures the size is correct.

# THE REDSTONE ROCKET

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# Army unveils self-guided, anti-armor submunition

WASHINGTON — The Army said June 20 that it had awarded a \$344 million contract to the Northrop Corporation, Electronic Systems Division, Hawthorne, Calif., to develop BAT, a self-guided, anti-armor submunition.

The contract funds a 42 month effort and begins the Engineering and Manufacturing Development (EMD) phase of the program. Raytheon Corporation of Manchester, N.H., is the principal subcontractor.

BAT will be used to find, attack and destroy moving armored vehicles. BATs could be carried deep into enemy territory by the Tri-Service Standoff Attack Missile (TSSAM) or the Army Tactical Missile System, then dispersed over a target to selectively attack and destroy individual armored vehicles.

*The name BAT is not an acronym. The Army said BAT uses acoustics like a Bat to find its prey.*

Like the TSSAM, a development program announced two weeks ago, BAT began as a classified program. The Army and Northrop have been working on BAT since 1984.

BAT is managed by a project office based at Redstone Arsenal reporting to the Program Executive Officer, Fire Support.

Although most details of the program are still classified, the Army said BAT uses acoustic and infrared sensors to find its target.

The name BAT is not an acronym. The Army said BAT uses acoustics like a Bat to find its prey.

The Army said about \$250 million had been spent on the six-year classified development program. Total program costs including production are estimated at \$2.2 billion.

The Army Tactical Missile System, also managed at Redstone, is a ballistic missile with a range in excess of 100 kilometers. TSSAM is being developed for both air and ground launch. The ground launched version would be fired from the MLRS M270 launcher, the same vehicle used to carry and fire the Army TACMS.

A BAT is 36 inches long, five and a half inches in diameter and weighs about 44 pounds.

## Total-quality office ready to assist command team

BY SKIP VAUGHN

A permanent, four-member office has been established to assist the MICOM community in Total Quality Management.

The Missile Command's TQM Office opened May 19 in building 3215. It is a staff office under the commanding general.

"We've got primarily three functions," said Melvin Waters, chief of the TQM Office, "as a facilitator for all of MICOM's TQM activities. We're also the TQM team members to the (Army Materiel Command) TQM initiative to MICOM. And we're interfacing with the contractors in the community to bring Huntsville into the Community of Excellence, to make Huntsville a center of excellence.

"In other words, we want to spread TQM not only here at MICOM but to AMC and the Huntsville community," he said.

The members include Waters and Marcella Mathis, the TQM officers; Edward Rymut, a general engineer; and Janice Gross, secretary. Waters was a collocated logistician from the Missile Logistics Center. Mathis was a management analyst in Resource Management Directorate. Rymut was a collocated engineer from the Research, Development and Engineering Center. And

Gross was a secretary in the Value Engineering Office. "It's been a cross-representation of the different directorate functionals," Waters said.

Total Quality Management means better understanding current processes and streamlining those processes.

Waters has a message for the entire MICOM community: "We're here to help them. We need them. We're here to provide any areas of assistance they need in TQM.

"Building a team — the MICOM team, the AMC and the community team — is what it's all about," Waters said. "We're here to help them. We're just one call away (955-6700)."

The Missile Command's cadre of TQM facilitators includes about 147 people throughout the command. "The cadre is actually our arms and legs and eyes and ears, but they are interfacing with the people everyday. We call that our 'Cadre of Champions.' They are the ones who've received specialized TQM training. They're the instrument by which we're getting into all the elements at MICOM. And without them, this office would be constrained because they are the points which get out to people and feed them information. And we help them every day," Waters said.



TQM STAFF — Waters is chief of the Missile Command's TQM Office. Standing, from left, are Gross, Mathis and Rymut.

## Deputy commander for strategic defense retiring

BY MARSHA TAYLOR

Lauded for his leadership, concern for people, and his sense of humor, Maj. Gen. John Peppers, deputy commander of the Strategic Defense Command, was honored last week at a luncheon prior to his retirement from the Army.

SDC Commander Lt. Gen. Robert Hammond conferred on Peppers one of the Army's highest ranking awards, the Distinguished Service Medal, during a ceremony at the Officers Club.

Peppers was cited for his "commitment, dedication and professionalism in directing more than 1,000 professional military and civilian personnel in the support of the Strategic Defense Initiative. His astute management of resources and operations, including the execution of an operating budget of over \$1.5 billion, resulted in spectacular achievements."

His oversight of the Airborne Surveillance Testbed, the Ground Based Interceptor, and High Endoatmospheric Interceptor project offices that "flourished

during his tenure and achieved unqualified successes" was also noted.

In presenting the award, Hammond described Peppers as "a truly outstanding deputy commander," and said, "Although Jack really had an absence of recent experience in R&D matters and acquisition in general, no one could have been a quicker study. He brought with him the credential of leadership..."

Peppers responded saying, "When you receive an award like this you know deep down that you have only played a small part in it. Most of the credit goes to all of those who work for you. It's the good job that they do on a day-to-day basis that ultimately becomes the words written on a citation."

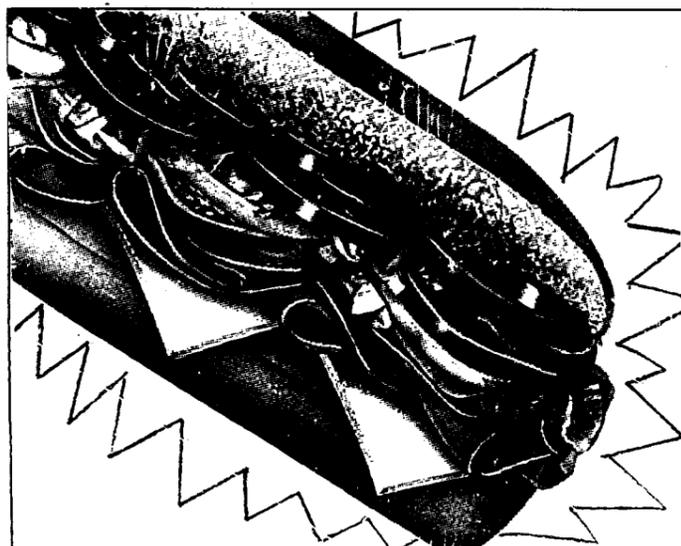
Peppers' wife, Annette, was also recognized with a Certificate of Appreciation for Patriotic Civilian Service for her support of the Redstone Arsenal Army Community Service program as well as the Redstone Arsenal Desert Storm Spouse Support program. During the past 20 months at Redstone Arsenal, Annette

has served as an honorary volunteer supervisor, working to provide Arsenal volunteers with the support and recognition they deserve. In this capacity, she served as a member of the Installation Volunteer Advisory Council.

Peppers plans to retire from active Army duty at the end of July after more than 31 years of service. He has served as deputy commander of SDC since November 1989, culminating a career marked by a wide variety of assignments. It was noted that more than a third of his career has been spent overseas in Europe, Vietnam (two tours), Panama, Korea and Hawaii. He has commanded at the company, battalion (in peace and war) and brigade level, and has served as an assistant division commander, as well as in staff assignments both at major commands and in the Pentagon.

Peppers holds bachelor's and master's degrees from the University of Iowa and is a graduate of the basic officer course at the Infantry School, the Field Ar-

(See Peppers, cont'd on page 19)



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# Airborne surveillance testbed successfully tracks targets

The Strategic Defense Initiative Organization's airborne surveillance testbed (AST) conducted the first real-time discrimination of multiple reentry objects within the atmosphere June 20 at the U.S. Army Kwajalein Atoll in the Central Pacific.

The AST successfully acquired a Minuteman I intercontinental ballistic missile target complex consisting of a simulated reentry vehicle and a variety of penetration aids. During the seven-hour treaty-compliant mission, the AST's objective was to collect heat intensities and angular measurements of the targets. This allowed for a demonstration of real-time functions of track and discrimination. AST accomplished all primary mission objectives.

The AST project is managed by the U.S. Army Strategic Defense Command for the Strategic Defense Initiative Organization. AST is a modified Boeing 767 aircraft with a cupola which houses a sophisticated, long-wave, infrared sensor. Also on board is a data processor capable of processing 15 billion operations per second which interprets the data acquired by the sensor in real-time and allows discrimination between actual reentry vehicles and decoys as they travel through the atmosphere. The sensor looks through an open window in the cupola during the aircraft's missions at altitudes of more than 40,000 feet.

The data obtained from this mission are critical to continued Strategic Defense Initiative technology development, and benefit a wide spectrum of SDI programs.



**FLIGHT TEST** — The modified Boeing 767 aircraft that will serve as a testbed platform for the Strategic Defense Command's Airborne Surveillance Testbed experiments is shown in flight over Seattle, Wash.

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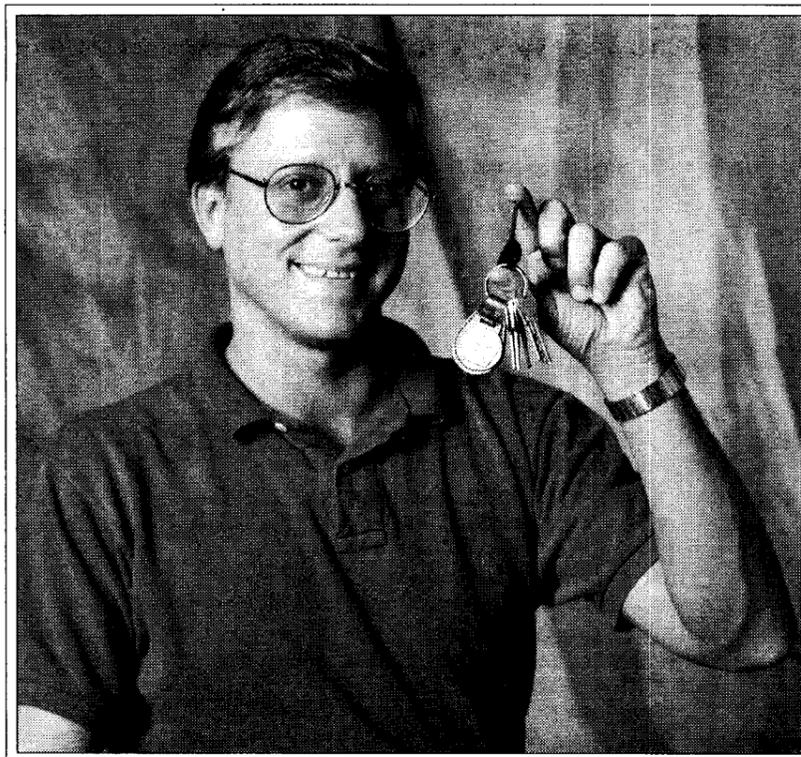
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# UAH has successful test of world's largest light-gas gun

The largest light-gas gun launch system in the world was successfully test fired June 3 at the University of Alabama in Huntsville's new Aerophysics/Propulsion Research Facility (APRF) on Redstone Arsenal.

An 11-ounce plastic slug was launched at more than 8,900 mph into the test range, where it went only 75 feet before vaporizing a hole through a one-quarter-inch-thick sheet of aluminum.

The launcher tested June 3 is the largest of four launchers at the APRF. Using a gunpowder charge of up to 100 pounds, it can fire a projectile about four inches in diameter at speeds up to 14,540 mph. It was the first time the 355-foot-long launcher has been fired since it was moved from a Delco Electronics facility in Santa Barbara, Calif., and the fourth successful "proof firing" at the range since May 29.

The test slug was 2 3/4-inches in diameter and almost three inches long. The test used a 46-pound powder charge to launch the slug.

UAH is under a contract for an aerophysics test program for the Strategic Defense Command and the Missile Command. The facility is scheduled to go into full operation this fall. It will be used to study missile re-entry "signatures," to study designs and materials for advanced vehicles, including the U.S. aerospace plane, and to study the lethality of kinetic energy military missile systems — at costs much lower than actual missile launches. It can also be used to study the impact of meteoroids or manmade "space junk" on satellites and space vehicles, and to study nose cone erosion.

The hardware was donated to UAH by GM's Delco Electronics Division, which had operated the aerophysics test range at Santa Barbara, Calif., since the early 1960s. It took 108 tractor-trailer loads to transfer the 4 million pounds of hardware from California to UAH.

In each of the facility's four launch systems, a charge of gunpowder drives a piston down a tube filled with hydrogen. The compressed hydrogen "pops" the



**BULL'S-EYE** — What happens when a 1.1-inch diameter plastic slug going more than 10,000 mph hits a 1/4-inch thick aluminum plate? It vaporizes a neat, round hole in the first plate it hits, which is the center plate held by UAH research engineer Roy Taylor, right, and John Coben, Aerophysics/Propulsion Research Facility program manager for Nashville Machine. The holes in these plates were the result of the first test firing of a 133-millimeter, light-gas gun launcher.

projectile out of the launcher into the instrumentation range.

The projectile fired June 3 entered only the first chamber in a 624-foot-long instrumentation range, which can be evacuated to simulate the atmosphere at a test altitude. When the range becomes operational this fall, each projectile's passing will be recorded by a variety of radar, infrared, optic, and other sensors. Some sensors will measure the radiation and electron flows in the ionized air that trails the projectile.

The series of test shots began May 29 when the

laboratory's 133-millimeter launcher was fired about 12:40 p.m. by lead mechanical technician Greg Goldsmith, who is on loan from Delco Electronics Division of General Motors at Golleta, Calif., to prime contractor Nashville Machine. A plastic slug 1.3 inches long and 1.1 inches in diameter was fired into a 240-foot-long, totally enclosed test range by 4 1/2 pounds of gunpowder. The slug left the barrel traveling at about 10,360 mph.

When it is in full operation, the UAH facility will have about 20 full-time employees. (UAH news release)

## Ends

(Cont'd from page 1)

commandant of the Ordnance Missile and Munitions Center and School.

"Today, after 35 years, we can confirm that Redstone Arsenal is one of the best places in the world where international cooperation is made possible," Neumann said.

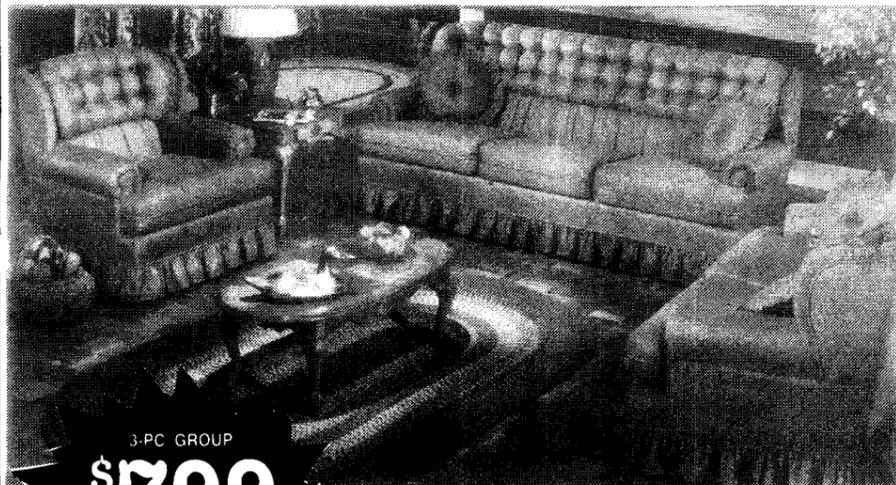
Boddie told the audience he was deeply saddened when he first heard the news that the German Air Force detachment would be closing out. He said he tried to look at the deactivation in a positive way. "I think this is a time for celebration. I think it's a happy occasion because I think we're celebrating the end of the Cold War," Boddie said. He explained that the missile school, the German Air Force detachment, and the Army missile systems have all played a role in "this victory of the Cold War" with Communist bloc nations.

"We say goodbye and we will definitely miss you," Seen told those in attendance.



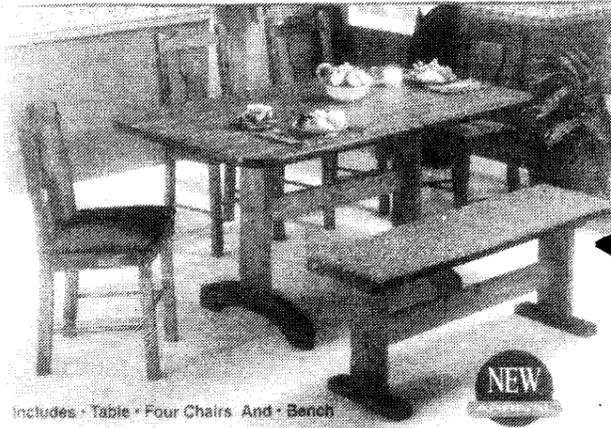
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**PRE-JULY 4th**  
**Sale**

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Saturday, June 29: 9AM To 6PM  
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Tuesday, July 2: 9AM To 6PM  
Wednesday, July 3: 9AM To 6PM



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# People

The following people have received awards or have been promoted within the past month:

**Product Assurance Directorate:**

Truman Howard III 25 Year Pin  
 David Calhoun Promotion  
 James Conn Special Act Award  
 Sharon Hamilton Special Act Award  
 Peggy Hough Special Act Award  
 Billy Medlock Performance Award  
 August Tranquill 25 Year Pin/Exceptional Rating/  
 Performance Award

James Williams Special Act Award  
 Wayne Bradley Exceptional Rating/Quality Increase  
 Henri Bui Promotion  
 John Heinbuch Promotion  
 Douglas Moore Exceptional Rating/Performance Award  
 Stuart Okraski Exceptional Rating/Performance Award  
 Clarissa Reeves Performance Award  
 John Warren Exceptional Rating/Quality Increase  
 Emmitt Ashworth Special Act Award  
 Charles Casey Letter of Commendation/Special Act Award  
 Virginia Darmer Letter of Commendation/Performance Award  
 Larry Galloway 25 Year Pin  
 Billy James Performance Award  
 Milton Jones Letter of Commendation  
 Delmer Killingsworth 15 Year Pin  
 Gary Larkin Performance Award  
 Grover Mountain Special Act Award  
 Frank Reid Performance Award  
 Terry de la Paz Special Act Award/Exceptional Rating/  
 Performance Award

Cecilia Cagle Special Act Award/On-the-Spot Award  
 Janell Chaney Promotion/Performance Award  
 James Conn Letter of Commendation  
 Barbara Greene Special Act Award  
 James Marble Performance Award  
 Tom Moore Letter of Commendation  
 Christina Ridgeway Letter of Commendation  
 Wyatt Shankle Promotion  
 Elizabeth Shepard Promotion  
 Palmer Washington On-the-Spot Award  
 Jonathan Kuxhaus Promotion/Performance Award  
 Kathy Johnson On-the-Spot Award  
 James Alexander Exceptional Performance Rating/  
 Performance Award

Carl Buchanan Promotion  
 Charles Forman On-the-Spot Award  
 Martha Schuster On-the-Spot Award  
 Sharon Ventress Promotion  
 Ten certificates were awarded for support provided to Desert Shield/Storm.

**Adjutant General's Office:**

Curtis Love 15 year Certificate and Pin  
 Catherine Roberts 25 year Certificate and Pin  
 Spec. David Ricketts Army Commendation Medal  
 Sgt. Maj. James B. Blackwood Meritorious Service Medal

**Missile Systems Readiness Directorate:**

Lt. Col. William T. Smathers Jr. Meritorious Service Medal  
 CWO 2 Franklin R. Hunt Army Commendation Medal  
 Jessie M. Wales Length of Service  
 Patricia D. James Promotion  
 Ezekiel Longoria Army Ideas for Excellence Program  
 Joan Pressnell Quality Step Increase  
 Laxmi D. Rao Promotion  
 Lois R. Terrell Promotion  
 Ronnie A. Golden Army Ideas for Excellence Program  
 Fifty-seven Certificates of Recognition were awarded for support provided to Operation Desert Shield/Storm.

**Missile Logistics Center:**

Irene Garappo Promotion  
 Sandra Vaughn Promotion  
 Carolyn Franklin Promotion  
 Phyllis Williams Temporary Promotion  
 Barbara Steel Temporary Promotion



**AMC RECOGNITION — Gen. William Tuttle, commander of Army Materiel Command, presents a 1990 AMC Army Communities of Excellence Special Recognition Award to Lois T. Maples, a contract specialist in Procurement Directorate. He presented the award June 13 to Maples for her volunteer efforts in assisting and supporting local residents in need. Tuttle made a similar presentation to Blanche Moore who began her volunteer work at Redstone in 1962.**

Sallie Johnson Performance Award  
 Harold Edwards 20 Years Service Award  
 James Wasson Jr. Total Quality Management award  
 Kenneth Smitherman TQM award  
 Lisa Thomas TQM award  
 Louie Harbison 15 Years Service Award  
 James Parks 40 Years Service Award  
 Jack Forbes 45 Years Service Award  
 Don Slagle 30 Years Service Award  
 Larry Bradley 10 Years Service Award  
 Hattie Lesley 20 Years Service Award  
 Yvonne Hicks 10 Years Service Award  
 Chris Plitt 10 Years Service Award  
 John Frazier Exceptional Performance  
 Joe Brown Special Act or Service Award  
 Mike Boecking Special Act or Service Award  
 June Baughn Promotion  
 Brenda Strickland Promotion  
 J.R. Contreras Special Act or Service Award  
 Teresa Harrison Performance Award  
 Michelle Bozee On-the-Spot Cash Award  
 Eulylia Balentine On-the-Spot Cash Award  
 Danny Johnson On-the-Spot Cash Award  
 Patricia Collier On-the-Spot Cash Award  
 Reba Moore On-the-Spot Cash Award  
 Wanda Windsor On-the-Spot Cash Award  
 Ronald Walton On-the-Spot Cash Award  
 Mark Ballew On-the-Spot Cash Award  
 Don Taylor On-the-Spot Cash Award  
 Sonny Hyde On-the-Spot Cash Award  
 Chuck Gordon On-the-Spot Cash Award  
 James Battle On-the-Spot Cash Award  
 Doug Smith On-the-Spot Cash Award  
 Belinda Leak On-the-Spot Cash Award  
 Bruce Bialoskurski On-the-Spot Cash Award  
 Thomas Wharton On-the-Spot Cash Award  
 Theo Moon On-the-Spot Cash Award  
 Nadine Manderson On-the-Spot Cash Award  
 Melinda Mahan On-the-Spot Cash Award  
 Frank Martin On-the-Spot Cash Award  
 Jeri Crabtree On-the-Spot Cash Award  
 Sharon Board Employee of the Month MM-D, MLC  
 Jane Morrign Sick Leave Conservation Award  
 Jerry Wiemers Sick Leave Conservation Award  
 Rebecca Heslip Sick Leave Conservation Award  
 Willena Richardson Sick Leave Conservation Award  
 Chip Welborn Sick Leave Conservation Award

William Penn Sick Leave Conservation Award  
 Laura Jane Wyatt Sick Leave Conservation Award  
 Cecile McGee Sick Leave Conservation Award  
 Sharon Menefee Sick Leave Conservation Award  
 Ten certificates were awarded for support provided to Desert Shield/Storm.

**Redstone Arsenal Support Activity:**

June Hughes Outstanding Performance Rating & Monetary Award  
 Ted Compc Exceptional Performance Rating & Monetary Award  
 L. C. Massey OPR & Monetary Award  
 Blanche Williams OPR & Monetary Award  
 Charles Shalansky EPR & Quality Step Increase  
 Joseph J. Rutherford EPR & Monetary Award  
 Ricky Sauls OPR & Monetary Award  
 Nerissa Thomas OPR & Monetary Award  
 Diane Allison OPR & Monetary Award  
 Setsuko Sketers OPR & Monetary Award  
 Kenneth Barton OPR & Monetary Award  
 James Spears OPR & Monetary Award  
 Brenda Oberholtzer OPR & Monetary Award  
 Leroy Unterburger OPR & Monetary Award  
 Barbara Patton OPR & Monetary Award  
 Jacquie Key OPR & Performance Award  
 Robert Heard OPR & Performance Award  
 Lucinda Finley OPR & Performance Award  
 Sieglinde Perry OPR & Performance Award  
 Carol Burchett OPR & Performance Award  
 Kenneth W. Whitten EPR & Certificate

**RD&E Center:**

Dorothea M. Dunham Promotion  
 John D. Emerson Promotion  
 Lisa A. Ingram Promotion  
 Felicia M. Johnson Promotion  
 Beverly H. Meeler Promotion  
 Doris H. Chandler Exceptional Performance Rating/  
 Performance Award

**Legal Office:**

Carolyn T. Faraci Performance Award  
 Annette G. Garrett Performance Award  
 Thelma W. Tidmore On-the-Spot  
 Amy Wilkinson Exceptional Performance  
 Fifteen certificates were awarded for support provided to Desert Shield/Storm.

**Patriot Project Office:**

Anthony D. Greene Promoted to GS-14  
 Patricia A. Long Promoted to GS-14  
 Vernon O. Chance 30 Years Service  
 Thomas M. Lynch 30 Years Service  
 Deborah R. Walker 15 Years Service  
 Jackson J. Waters Jr. 10 Years Service  
 Dean R. Mullis Performance Award  
 Robert Jones Performance Award  
 Doris M. Cox Performance Award  
 Belinda M. Green Performance Award  
 James C. Prestridge Special Act  
 Dennis L. Wilkerson Special Act  
 Ernest C. Roberson Special Act  
 Ronald E. Strickland Special Act  
 David B. Dalton Special Act  
 Jackson J. Waters Jr. Special Act  
 Thomas H. Shellogg Special Act  
 Jacqueline M. Freeman Special Act  
 Gayle V. Frank Special Act  
 Ronald E. Hall Special Act  
 Nada L. Yacura Special Act  
 Bessie K. Byrd Special Act  
 Felix M. Bivens Jr. Special Act  
 Donald E. Grundt Special Act  
 Michael A. Matusa Special Act  
 Gene A. Preston Special Act  
 Allen B. Belew Special Act  
 Gerald D. Skidmore Jr. Special Act  
 Capt. Barry B. Hardy Army Commendation Medal  
 Maj. Joseph Hickman Army Achievement Medal  
 1st Lt. Kervo F. Locklear Army Achievement Medal  
 CWO 2 John T. King AAM (2nd oak leaf cluster)  
 Myrna B. Blanks On-the-Spot  
**Procurement Directorate:**  
 Castene H. Basham Promotion  
 Janet D. Bauer Cash Award

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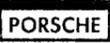
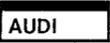
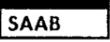
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# Huntsville among stops for annual Soldier Show

The eighth annual U.S. Army Soldier Show, a musical extravaganza performed for the soldier by the soldier, will be coming to Huntsville this weekend.

Von Braun Civic Center's concert hall is the site for the 7 p.m. Sunday, June 30 event. Admission is free. Tickets may be picked up as follows: Soldiers and family members should see their unit first sergeants; civilian employees and their family members should see Diane Gilliam at the Recreation Center. For more information, call Lt. Col. Bill Frayne 876-6475.

Huntsville is part of the Soldier Show's "Celebration '91" worldwide tour. Talented soldier performers have gathered from the four corners of the Army, from Europe to Korea, from Alaska to Panama and throughout the country. By military occupational specialty, they are cooks, truck drivers, parachute riggers and mechanics.

But those soldiers aren't visiting for just another training exercise. Instead, they have been selected from applicants worldwide to be part of an elite soldier entertainment troupe. For the next eight months they'll represent the total Army as cast and crew members of the eighth annual Army Soldier Show.

They perform popular American song and dance hits from yesterday through today's hottest dance club and video favorites.

This musical extravaganza didn't happen overnight. Months of planning and preparation went into producing the 80-minute traveling showcase of Army talent. Working intense hours during March and April, the entire production was arranged around the talents and personalities of the soldier entertainers in only six weeks.

The 1991 show brings together multitalented active duty soldiers and its first reserve soldier in an entertaining production. Celebration '91 has something for everyone, whether young or old, a fan of country, rock and roll, patriotic or rap music.

Continuing the tradition of entertainment "For the Soldier, By the Soldier," started by Irving Berlin in World War I, the soldier entertainers will travel more than 15,000 miles and visit over 40 Army installations across the U.S. and Panama.



MUSICAL CELEBRATION — The U.S. Army Soldier Show will present "Celebration '91" Sunday evening at the VBCC concert hall.

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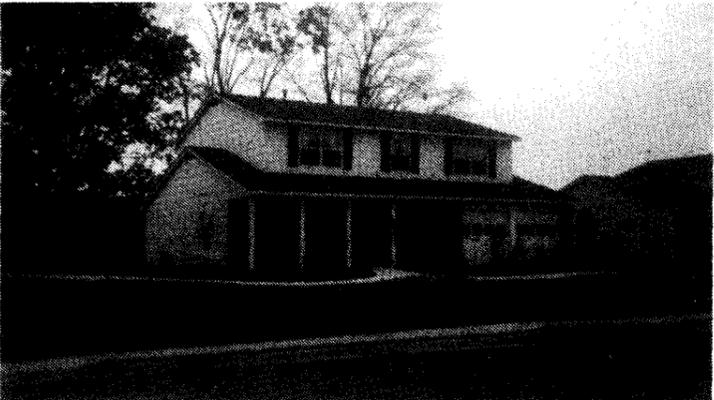
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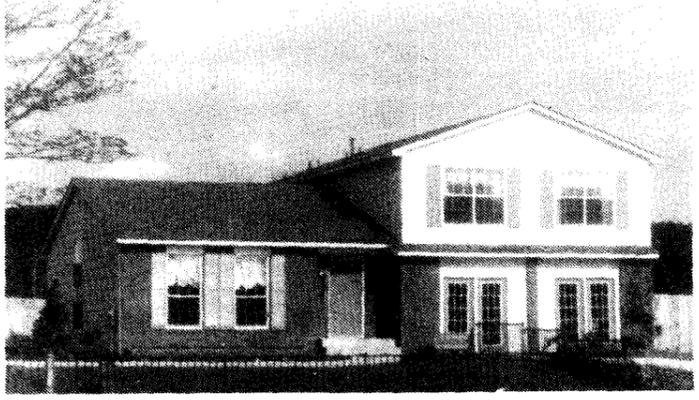
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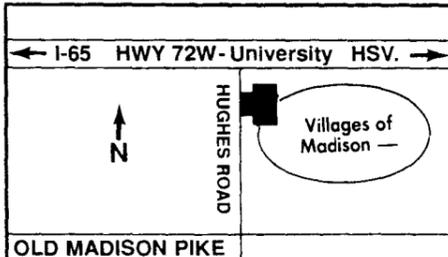
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# Fox Hospital staffers thank sponsors for AER success

The soldiers and civilians of Fox Army Community Hospital made their largest-ever contribution to the Army Emergency Relief fund by raising \$4,200 through AER luncheons in the hospital.

Sponsors who provided food and soft drinks for the nine luncheons, held the first and middle Wednesday from January through May, were thanked with plaques June 19. NCOs of the hospital used some proceeds from a Desert Storm coffee cup sale to conduct this appreciation luncheon held on the hospital grounds.

The sponsors recognized include Pizza Hut, Pepsi Cola, Sundrop, Coca Cola, Krispy Kreme Doughnuts, and Lee's Fried Chicken. "They helped with the AER luncheons," said SFC George Berger, assistant operations NCO at the hospital. He served as its AER co-chairman along with SFC Daphne Grimsley who is now stationed at Fort Jackson, S.C.

"There were a total of nine luncheons altogether, held here at the hospital. They consisted of selling hot dogs, hamburgers, pizzas, sandwiches, and spaghetti dinner," Berger said.

The \$4,200 in proceeds represents over \$1,200 more than the hospital had ever previously raised for Army Emergency Relief, according to 2nd Lt. Ashley Stewart, commander of Medical Company. "It was military and civilians," he said. "Our civilians also chipped in and cooked, bought and donated. So it was the whole hospital — military and civilian." This represents some 450 people including 225 civilians, 150 active-duty military and 75 reservists.

Harold Rosignoli, vice president of operations for

Pizza Hut, expressed his appreciation to Fox Hospital upon accepting the plaque on behalf of Pizza Hut. "I

just want to say thanks. It's been a pleasure serving the food, making the food," Rosignoli said.



**APPRECIATION LUNCHEON** — Members of the Fox Hospital staff held a brief ceremony and luncheon just outside the hospital to thank sponsors for supporting their AER fund campaign. Among the attendees are, from left, PFC Shelia Mullinax and SSgt. Thomasina Watford, who both worked with the campaign; Rosignoli of Pizza Hut; and SFC Berger.

# Adequate potable water proves essential in Persian Gulf

*Editor's note: Finegan, an Army Materiel Command spokeswoman who spent time in Saudi Arabia, Kuwait and Iraq, sent this final story before returning to the U.S. June 18.*

**BY JAN FINEGAN**

War in the gulf forced early equipment fieldings in several areas. Reverse osmosis water purification unit equipment was one of those areas.

Adequate potable water is necessary for survival in any environment, but it became critical in the harsh desert climate of Southwest Asia. According to Sgt. Maj. Thomas Rosenthal, U.S. Army Troop Support Command, the Army had adequate reverse osmosis water purification support in a 150,000 gallon per day skid unit and 300,000 gallon per day barge for general support and a 600 gallon per hour unit for division support. We needed a 3,000 gallon per hour machine for corps support to fill in the gap.

TROSCOM arranged to have three 3,000 GPH prototype machines airlifted into theater in October because of the need for a mobile intermediate range

machine and to see if the test cycle time could be cut by field trials.

**RESULTS FOR PURIFYING** fresh well water were positive. Rosenthal said the units are easy to operate and make good water.

The 82nd Quartermaster Detachment out of Fort Irwin, Calif., trained on the units and ran them during the war at King Khalid Military City and Log Base Charlie in Saudi Arabia. The units purified two and a half million gallons of water at KKMC from October to January and eight million gallons at Log Base Charlie from mid-January to mid-April.

After the fighting stopped and the units were no longer needed in the northern part of the country, TROSCOM's Project Manager for Petroleum, Water and Lubricants arranged for the 3,000 GPH units to be tested on sea water.

SFC Ronald Allen of the 82nd says the units work well on sea water but the high salt content does cause problems.

"When you operate on sea water, maintenance time more than doubles," Allen said. "The salt content in the Arabian Gulf is two and a half times that of normal sea water so we figured this would be the best place to test the unit."

The 82nd ran the sea water test 24 hours a day, seven days a week for two weeks. Test data will be forwarded to the project manager to complement first article test data already collected.

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# Patriot worker recognized for promoting competition

BY SKIP VAUGHN

A member of Patriot Project Office has received a 1990 Secretary of the Army Competition in Contracting Award.

Glenn Davenport, a configuration management specialist at Patriot Project, was presented the award June 18 by Joann Langston, the competition advocate general for the Army. Davenport had also won a competition in contracting award for 1988.

Langston made the presentation in an afternoon award ceremony held in the Patriot project office at the Strategic Defense Command Annex. She presented a similar award in a separate ceremony to Claudette Owens, an electronics engineer in the Advanced Technology Directorate at SDC. Owens joined the Strategic Defense Command in May 1987.

"I want to add my own gratitude to everything that you've done," Langston told the Patriot Project Office. "It must be fun to work in a project office that has had as much adulation as the Patriot Project Office has had."

Langston presented the award to Davenport and showed a brief videotape entitled "Competition in the '90s" which featured scenes of Army missile systems in action in the Persian Gulf War. Among those in attendance was Ronald Kuhn, the competition advocate for Army Materiel Command.

"I really couldn't have done this without everybody in the project supporting me," Davenport said upon receiving the award. "I think everybody in the project has helped me at one time with a competition problem. So it's really a Patriot award."

Davenport has worked in the project office for 15 years. He was recognized for "outstanding achievements in promoting competition in the acquisition of Patriot System support," according to the award certificate signed by Secretary of the Army Michael Stone. "These efforts will result in an estimated 20-year life cycle savings of \$135 million. His efforts reflect great credit on himself, the Missile Command and the United States Army."

A. Q. Oldacre, the deputy project manager for Patriot, said the award is well-deserved. "Glenn just does an outstanding job with everything he does, especially with his management of our competition. And he took on the challenge of bringing Patriot from one of the worst in terms of record with competition at MICOM, to one of the best. And I really appreciate his tenacity in making that happen," Oldacre said.



FOR COMPETITION IN CONTRACTING — From left are Lt. Col. Alfred Howard Jr., the Missile Command's competition advocate; Davenport of Patriot Project Office; and Langston, the competition advocate general for the Army.

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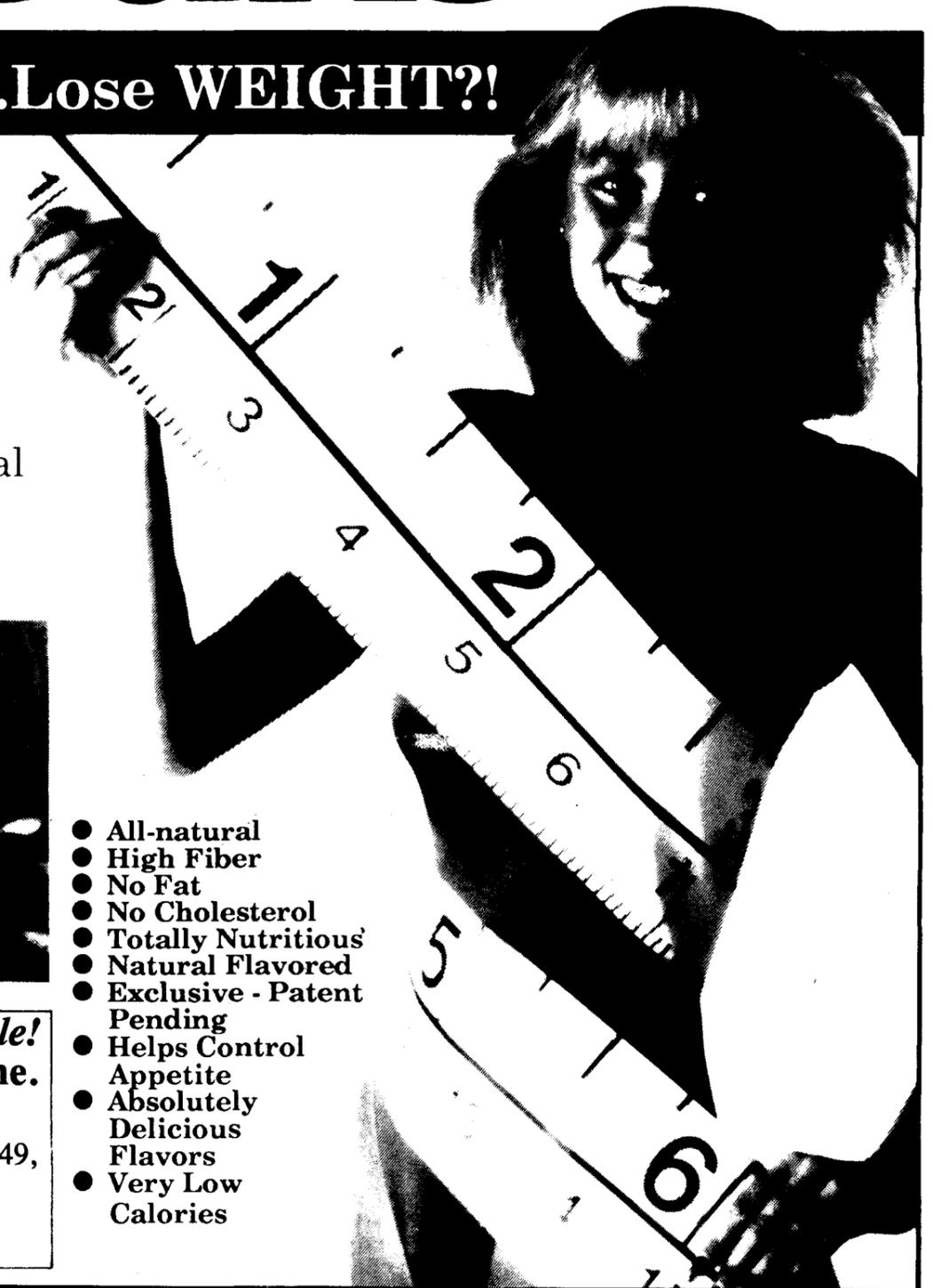


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All servicemembers who have returned from duty in Operation Desert Storm and who have been given free tickets to sports events or other free gifts should remember that these gratuities are not transferrable.

A message from the U.S. Army Community and Family Support Command stated that the Department of

Defense has learned that some military personnel have attempted to sell donated baseball tickets to other individuals.

"The few that have attempted to misuse their privileges may jeopardize access for the many who are using the offers as intended," the message stated.

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New Orleans; Lonnie Brister, Hammond; Debra Cooper, Alexandria; Shane Darbonne, Baton Rouge; David Dodge, Pineville; Jody Moreau, Sunset; Joel Swanson, Ruston; Diana Thrower, Lafayette. **From Mississippi:** John Lott Jr., Enterprise. **From North Carolina:** Jimmie Jones and Rickey Livingston, Charlotte; Ralph Byrd, Thomasville; Monique Edwards and Devoil Hooks, Greensboro; Robert Murphy, Fayetteville; Charles Stover, Pittsboro. **From South Carolina:** Lolita Lyles, Columbia. **From Texas:** William Francis and Floyd Stice, Weatherford; Barbara Czepyha, Euless; Thomas Davis, Waco.

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# Strategic defense engineer honored for contracts work

**BY MARSHA TAYLOR**

A Strategic Defense Command electronics engineer has received Department of the Army recognition for enhancing contracting competition during 1990.

Claudette C. Owens, an engineer in the SDC Advanced Technology Directorate, received the award last week from Joann H. Langston, competition advocate general of the Army. Langston traveled to Huntsville to present this award to Owens and similar recognition to Glenn Davenport of Patriot Project Office.

"I really want to applaud people like Claudette who have the courage to take on the system," Langston said. "It's always a pleasure to meet people who are willing to do the job the right way instead of the easy way."

Owens was honored for planning and implementing Historically Black Colleges and Universities and Minority Institutions program to encourage minority participation in Strategic Defense Command research efforts. She not only developed contracts requirements packages, source selection plans, and broad agency announcements for advanced technology efforts of potential interest to these minority colleges and universities, but she coordinated and conducted on-site visits to encourage participation.

She is credited with directly contributing to the award of eight contracts totaling more than \$900,000 to minority institutions, a majority of the command's \$1 million HBCU and MI awards.

Owens also served as a key member of the evaluation team for a number of Small Business Innovative Research contracts resulting in 10 awards totaling \$500,000.

Owens, who has earned bachelor's degrees in both

electrical engineering technology and electrical/computer engineering, has been employed at the Strategic Defense Command since May 1987, where she con-

ducts and analyzes in-house experiments in signal processing technology and signal networks. She is pursuing a master's degree in optics.



**SDC HONOREE** — Langston, left, presents a Secretary of the Army Contract Competition Award to Owens.

**Bill Penney**  
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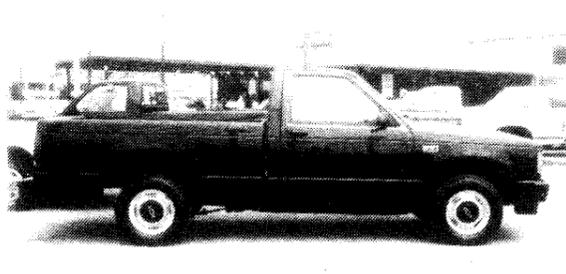
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# Reserve officers train on simulators at OMMCS

BY DANA KLINE

New and innovative ways to reach goals have long been desired by the leaders of industry, and now the Army will give some of them a try. The Training and Doctrine Command has put into effect a new training initiative which seems to be working well within the Ordnance Missile and Munitions Center and School.

OMMCS has worked with the Logistics Management Division to make the training as effective as possible and also to develop some of the training items.

In Logistics Management, the use of training boards has proven to be successful in accomplishing this initiative.

Reserve officers from throughout the nation come here to receive training to be ammunition officers. They get the same training that active-duty officers receive under the total Army concept. In a cost-savings measure, some special training simulation boards were

put together. Money is saved by allowing the officers to train just as they would on a field training exercise, but without having to go to the field.

The boards simulate actual training sites. There are three sets of boards: One simulates desert training while the other two simulate a northern European site.

The actual paperwork and communications skills used in the field are also used in the simulated training. Ammunition Supply Points are set up on the boards just as they are in real life. And the students have to deal with trees, lakes and mountains — much of the same things they encounter in the field.

Training is divided into three phases with phases 1 and 3 occurring here, and phase 2 taking place at the unit. Each phase lasts two weeks and is filled with activity.

This concept enables the student to interact more and have fun while learning. There is a lot of decision-

making involved in the training; and so far, it works in keeping the students interested in the subject matter.

The officers must interact to bring about the desired results because of the ever-evolving scenarios they face. With the flexibility in the scenarios, they seem to enjoy being thrown a curve now and then.



50TH BIRTHDAY — "I ain't believing this," John West said when he saw the black balloons in the hallway and his workers wearing black armbands for his 50th birthday. Members of the special applications section, Information Management Directorate, surprised their chief Friday two days before his birthday June 23. The theme for the armbands, balloons, cake and a ribbon which they put on his shirt was: "Over the Hill."

## Amtec cited for Desert Storm support

Amtec Corporation has been selected by the Missile Command to receive a Certificate of Recognition for its work in support of Operation Desert Shield/Storm. Nationwide, only 19 companies were selected for this recognition.

Based in Huntsville, Amtec provides a variety of test support services to the U.S. Army Test and Evaluation Command's Redstone Technical Test Center at Redstone Arsenal.

During Operation Desert Shield/Storm, the Army had an urgent requirement to deploy equipment which would provide improved eye safety for U.S. soldiers. That involved modification of eyepieces on the Army's Ground/Vehicular Laser Locator Designator (G/VLLD) system, controlled by the Missile Command, Weapon Systems Management Directorate, Close Combat Systems Office. The Designator systems are used to pinpoint target locations and aimpoints for a variety of laser-guided weapons.

All Designator systems had to be tested to ensure that they were battle-ready. Amtec Corporation supports the Redstone Technical Test Center for such testing activities. Amtec employees were cited for dramatically compressing schedules for test equipment modifications and testing activities in the U.S. and Europe.

Amtec employees cited for their accomplishments included Milton Bullard, Son Van Ngo, Debbie Walker, Bill Herfurth, Louis Cashion, Eddie McCord, Glenn Neal and Donny Benson.

In a ceremony held Friday Maj. Gen. William Chen, commander of the Missile Command and Redstone Arsenal, presented the Army Materiel Command Certificate of Recognition to Amtec. The cited Amtec Corporation employees were on hand for the ceremony and the certificate was accepted by Amtec President Dr. William P. Albritton Jr. (Amtec news release)

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Must bring copy of current advertised price within 100 miles radius. Must be identical unit in our inventory. Free gas based on '91 Camry. Avg. annual fuel cost of \$694.

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**VETERANS' CONTRIBUTION** — Staff Chaplain (Col.) Norbert Bykowski accepts a \$400 check for the Chaplains' Family Support Group from the Veterans of Foreign Wars (VFW) Post 5162, South Huntsville. Making the presentation are the commander, retired Col. Tim Bisch, at center, and Quartermaster Lester Barnard. The contribution represents proceeds from the Poppy Sale held on Saturday before Memorial Day, at the Post Exchange and Commissary.

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# Strategic defense picnic draws crowd for hot fun

BY GERDA SHERRILL

Close to 1,000 employees and their family members and friends got out their bermuda shorts, straw hats, coolers, deck chairs, and sun umbrellas and invaded the civilian recreation area for the Strategic Defense Command's annual picnic June 15.

The weather cooperated and held steady at a sunny 89 degrees. The chow was tasty, the surroundings serene, the music versatile, and everybody's spirits remained high. The only thing missing was enough shade, since so many of the beautiful trees along the Tennessee River had been cut down in connection with some necessary bank fortification project.

There were plenty of games, entertainment and activities for every age group. The children enjoyed a moon walk, water balloon tosses, candy hunts, three-legged races, a tug-o-war, tumble races into hay stacks, standing long jumps, kickball — all those things that turn into utmost fun when shared with large groups.

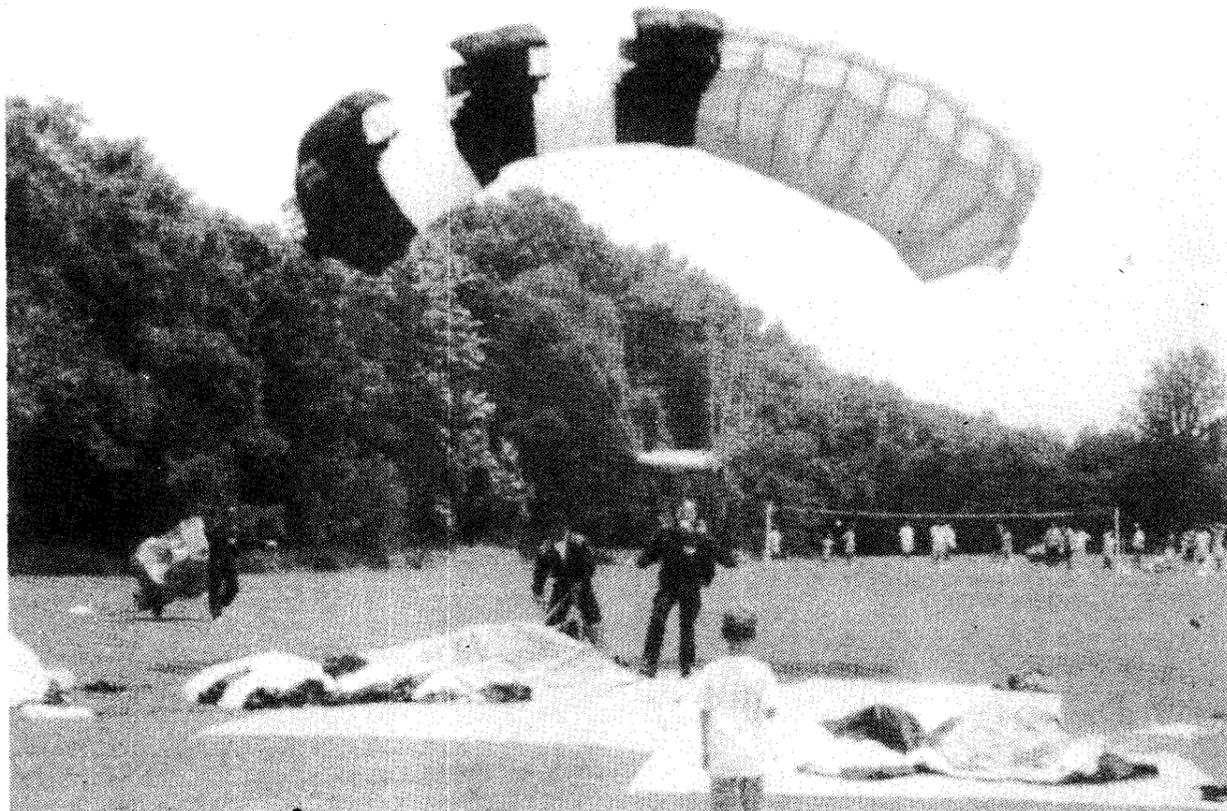
Some of the adults competed in softball and volleyball games, and the winners walked away with impressive trophies. Then there was the traditional dunk tank where a few bosses got drenched. Maj. Gen. John Peppers, SDC deputy commander, proved to be the most enthusiastic and sought-after dunker. Unfortunately this was his last active-duty picnic: He will retire July 31, and he and his wonderful sense of humor will be missed.

Everybody was delighted with the acrobatics of the red-white-and-blue parachute team that literally drop-

ped in from the 20th Special Forces Group of the Alabama National Guard in Huntsville.

Grilled hamburgers and hot dogs never tasted bet-

ter; sunburns and sore muscles will be forgotten soon; sweet memories will linger on; and everybody is looking forward to another great one next year.



PARACHUTISTS — Coming in for a picnic landing are members of the parachute team from 20th Special Forces Group, Alabama National Guard in Huntsville.



SWISH — Youngsters try their skill at basketball shooting during the annual SDC picnic.



HERE IT COMES — Volleyball proves popular at the SDC event, just as it is at most picnics.

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# Procedure given for requesting minor service work

*Editor's note: The Directorate of Engineering and Housing provided the following information on reporting minor service orders.*

With summer right around the corner and the temperature rising daily, keeping cool and comfortable is a concern we all have. Many of the employees and family housing occupants are unaware of how to place a call to the Minor Service Order (MSO) desk to request service for your air conditioning along with other minor maintenance requests. The procedure to follow when requesting service is listed below:

- MSOs may be initiated by building custodians, Family Housing Management personnel and occupants, Post Duty Officer, contractor, or Directorate of Engineering and Housing.

- The contractor maintains a Service Order reception desk, 24 hours per day, seven days a week, including federal holidays, to receive SOs. During normal duty hours the telephone number to request services is 876-2801; after normal duty hours the number to call is 876-9881.

- The contractor maintains a log showing the date, time and nature of the request. All SOs are prioritized as emergency, urgent, or routine in accordance with Department of the Army Pamphlet 420-6.

Here is an explanation of each Service Order category:

**Emergency** — Work which requires immediate action. Usually the work is necessary for the protection of health, safety, or to prevent damage to property. Response time for emergency service calls during off-duty will not exceed two hours, regardless of the time during the day or night, weekends, or federal holiday. Emergency service call response time during normal duty hours will not exceed one hour.

**Urgent** — Work which requires attention to correct a condition which could become an emergency, could

seriously affect morale, or has command emphasis. The response time to urgent service calls will be within 16 hours, during normal duty hours.

**Routine** — These jobs are accomplished in the most economical manner, on a first-come, first-served basis. These jobs cover required work which, if not accomplished, would only continue an inconvenience or an unsightly condition. Work will be accomplished within 21 days with the exception that calls from military housing occupants will be accomplished within three working days.

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# MERRY GO ROUND

FASHION BOUTIQUES FOR MEN AND WOMEN

# Electron technology may revolutionize strategic defense

BY GERDA SHERRILL

Researchers at the University of Cambridge in the United Kingdom have successfully fabricated high temperature superconductor (HTS) Josephson junctions. They used a modified electron microscope in a method which is simple, reliable, controllable, and well-suited to commercial production of devices. Prior to this breakthrough, there was no other practical production method.

The effort is supported by the Strategic Defense Initiative (SDI) Organization and the European Institute of Technology and is managed by the Advanced Technology and the Survivability, Lethality, and Key Technologies Directorates of the U.S. Army Strategic Defense Command (USASDC) in Huntsville.

A Josephson junction is an electronic fast-switching device consisting of layers of superconducting metal separated by a thin layer of insulator through which low current flows but increased current causes the insulator to block the flow, thus making it the basis for the application of superconductors to electronics.

Using electrons is fast and controllable and therefore has the potential to revolutionize SDI in technology areas such as digital electronics, sensors, and superconducting computers. Circuits made from low temperature superconductors perform at very high speed with extremely low power dissipation, but they operate at liquid helium temperature (-269 degrees Celsius) which is costly and very difficult to achieve and maintain. The recently discovered HTS, operating

at liquid nitrogen temperature (-196 degrees Celsius), opened the possibility of superconductive electronics that operate at a practical temperature.

USASDC is hosting a delegation from the British SDI Participation Office, led by Professor Ronald Oxburgh, chief scientific adviser of the Ministry of Defence in the United Kingdom. Prior to his present position, Oxburgh was professor of mineralogy and petrology at Cambridge University and head of the department of earth sciences. He was educated at the Liverpool Institute, Oxford and Princeton Universities and spent several years in the U.S. as visiting professor at the California Institute of Technology and at Stanford and Cornell Universities.

## Peppers

(Cont'd from page 3)

tillery School Advanced Course, U.S. Army Command and General Staff College and the U.S. Army War College.

In addition to the Distinguished Service Medal, his awards and decorations include the Legion of Merit, Bronze Star Medal with "V" Device and four oak leaf clusters, the Meritorious Service Medal and two oak leaf clusters, Air Medals, Joint Service Commendation Medal and the Army Commendation Medal with oak leaf clusters.

He is authorized to wear the Combat Infantryman Badge, the Parachutist Badge, and the Army General Staff Identification Badge.

The Peppers have three children: John, Daniel and Sara. John and Daniel are captains on active duty in the Army.

"I want you to know that Annette and I have appreciated our time here in Huntsville," Peppers said, concluding his remarks. "We've made many new friends, and we'll miss you."



FOR DISTINGUISHED SERVICE — Lt. Gen. Hammond presents the Army's Distinguished Service Medal to his deputy, Maj. Gen. Peppers, prior to Peppers' retirement after more than 31 years of Army service. Looking on is Peppers' wife, Annette.

### OUR KEEP IT SIMPLE SALE!

#### SAMPLE LIST OF OUR INVENTORY

#### COROLLA'S \$600 UNDER INVOICE

1991 Corolla STK #5549	std,4dr	PS,AC	\$11,078	<b>\$9,349</b>
1991 Corolla STK #5327	std,4dr	PS,AC	\$12,202	<b>\$10,050</b>
1991 Corolla STK #5388	std,4dr	PS,AC	\$12,202	<b>\$10,050</b>
1991 Corolla STK #5469	4dr Deluxe	AC,VP,MG,EAP	\$12,281	<b>\$10,097</b>
1991 Corolla STK #5275	Deluxe	AC,VP,EAP	\$12,202	<b>\$10,050</b>
1991 Corolla STK #5461	Deluxe 4dr	AC,VP	\$12,352	<b>\$10,179</b>
1991 Corolla STK #5467	Deluxe 4dr	AC,VP	\$12,352	<b>\$10,179</b>
1991 Corolla STK #5471	4dr Deluxe	AC,VP,MG,CF	\$12,267	<b>\$10,111</b>
1991 Corolla STK #5473	4dr Deluxe	AC,VP	\$12,352	<b>\$10,179</b>

#### CAMRY'S \$700 UNDER INVOICE

1991 Camry STK #5508	std,5 sp		\$12,528	<b>\$10,991</b>
1991 Camry STK #5514	4dr,5 sp	AM/FM,AC	\$13,683	<b>\$11,168</b>
1991 Camry STK #5315	Deluxe	VP,EAP,AC	\$15,242	<b>\$12,685</b>
1991 Camry STK #5433	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5444	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5445	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5446	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5447	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5483	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5484	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5490	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5491	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5506	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5511	4dr,Deluxe	MG,VP,EAP,AC	\$15,442	<b>\$12,685</b>
1991 Camry STK #5552	4dr,Deluxe	MG,VP,EAP,CA,AC	\$15,467	<b>\$12,697</b>
1991 Camry STK #5548	4dr,LE	AW,PS,PSEAT,VP,AC	\$17,782	<b>\$14,436</b>
1991 Camry STK #5520	4dr,LE,V6	AW,PSEATS,ACA	\$19,253	<b>\$15,614</b>

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1991 2x2 STK #5545	std bed	MP,AC	\$9,598	<b>\$7,691</b>
1991 2x2 STK #5500	std bed,5sp		\$8,778	<b>\$6,991</b>
1991 2x2 STK #5546	std bed,5sp		\$8,778	<b>\$6,991</b>
1991 2x2 STK #5547	std bed,5sp		\$8,778	<b>\$6,991</b>
1991 4x4 STK #5524	Deluxe,std	TP,VP,AC	\$13,756	<b>\$12,396</b>
1991 4x4 STK #5525	Deluxe,std	VP,VP,AC	\$13,756	<b>\$12,396</b>
1991 4x4 STK #5526	X-Cab,Deluxe	TP,TW,VP,AC	\$15,306	<b>\$13,661</b>
1990 4-Runner STK #1843	SR5	LOADED	\$23,481	<b>\$18,500</b>

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# MLRS

(Cont'd from page 1)

we're going to design and develop an improved fire control system. And this is an opportunity for the soldier in the field to influence the design of the improved fire control system.

"That was a firsthand experience to hear from the troops that were in Southwest Asia and the types of problems they experienced. And the overall reports were they had few failures," Collier said.

There were more than 200 MLRS's in Southwest Asia and more than 30,000 rocket pods. With six rockets in each pod and some 644 grenades in each rocket, the U.S. forces were capable of launching more than 115 million grenades in the desert. MLRS is a highly mobile, artillery rocket system with a range of more than 18 miles.

"It performed really above all our expectations," Adams said. "Performance as far as we can tell was unmatched from a fire support viewpoint."

The missile system experienced a number of firsts during the Persian Gulf crisis, according to Adams. When a platoon of three launchers for the 18th Airborne was airlifted Aug. 10 from Fort Bragg to Saudi Arabia, this represented the first large artillery piece in the U.S. arsenal over there. When the 7th Corps fired Army Tactical Missile System missiles from its deep-attack MLRS launchers, this represented the first time 7th Corps had fired its weaponry in combat since World War II. When 16 launchers were deployed by the United Kingdom to the 1st Marine Division, these represented the first launchers deployed from the MLRS European production line.

The project office dispatched several people to the Persian Gulf, including Maj. George Nobles and Capt. Marcos Talavera. The troops were pleased with the missile system's performance, said Talavera who was in Saudi Arabia from Feb. 3 to May 14. "They thought it responded well and did the job well," he said.

A 28-member modification team — including representatives from Mainz Army Depot in Germany, Red River Depot in Texas, the LTV company, and four people from Redstone's Prototype Engineering Division — was dispatched to put metal panels on the launchers for blast protection during firing. By Feb. 14, they had applied a metal panel to some 70 launchers.

The four people from Prototype Engineering, better known as "Skunkworks," included Robert McNeill, Bob Hurst, and brothers Jack and Gary Shockley. Prototype Engineering is part of the System Engineering and Production Directorate under Research, Development and Engineering Center.

"I want to thank all the people who supported MLRS," said Adams, who plans to attend all three visits by the military units to the production facility in Arkansas. "People in Missile Logistics Center, the Readiness Directorate, the Emergency Operations Center and the project office, worked dutifully."

## Troop softball

Here are the troop softball standings as of June 21:

Eastern Conference	
F Company 832nd	2
NCOA	2
C Company 832nd	1
HHC C&S	1
MEDDAC	0
HHC MICOM	0
Navy	0

Western Conference	
Marines	3
HHC 832nd	3
515th	3
HHC MICOM (Airfield)	2
95th	2
D Company 832nd	1
E Company 832nd	0

W	L
0	0
1	1
2	2
2	2
1	2
2	3

## Telos tames the Threats with 10-run outburst

BY MARK SIMS

Here are some scores and highlights for the week that was from the Civilian Welfare Softball League.

Tom Brandon's three-run double in the second inning capped a 10 run outburst as Telos hung on to defeat the Threats 17-13.

John Smith's three-run, inside-the-park homer in the third and Derek Roby's shoestring snag to kill a potential rally in the sixth, enabled PAD to top the Aeroheads 10-1.

Travis Jackson's round-tripper provided the go-ahead runs as Scud Patrol rallied in the top of the seventh with five runs to down RADS 7-5.

In the Battle of the Thiokols, Thiokol-2 erupted for 11 runs in the bottom of the fifth and cruised to a 15 to 10 win. Thiokol-2's third baseman, Bruce Jentle, provided the defense by turning a double play in the top of the fifth.

Here are the standings as of June 21:

Team	W	L	Pct.	GB
Hawaiianoids	9	3	.750	—
Scud Patrol	9	3	.750	—
MLC Lasers	8	3	.727	½
Smith Adv. Tech.	8	3	.727	½
PAD	8	4	.667	1
TSPO Threats	8	4	.667	1
RADS	7	5	.583	2
Major League	6	5	.545	2½
Thiokol-2	6	6	.500	3
Telos	3	9	.250	6
Thiokol-1	3	9	.250	6
TMDE	3	9	.250	6
USAISC Storms	2	9	.182	6½
Aeroheads	2	10	.167	7

Quit smoking.



## CRUISE

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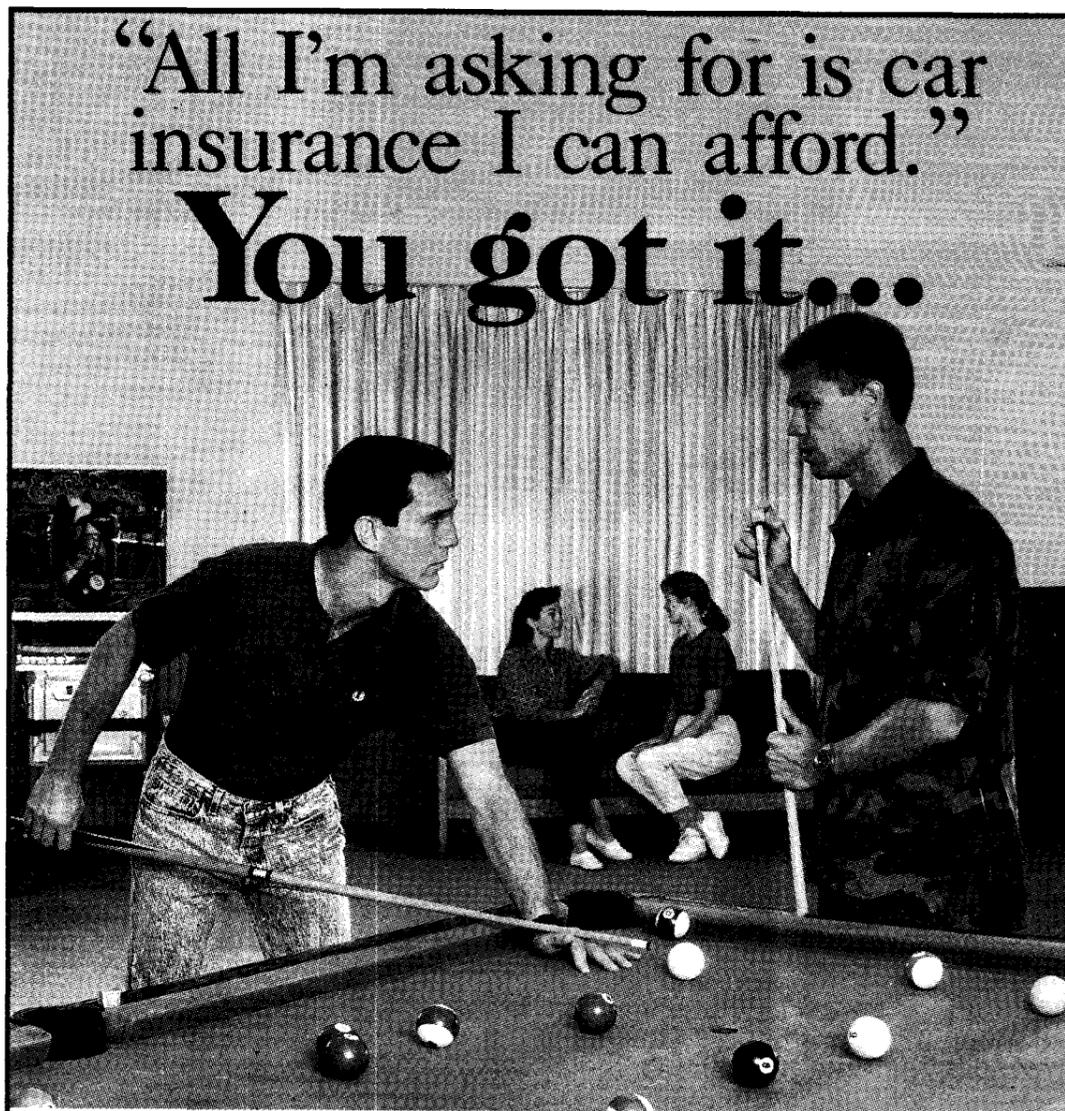
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Huntsville  
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# As you march in happier times, Sears would like to say thanks with something special.

What better time than the Fourth of July to honor those of you in our military. The men and women who bravely serve our country. At Sears, we're now offering this Family Appreciation Card to all of you, including Reservists and National Guard called up for the Gulf War, and your families. This one time offer entitles you to a 10% discount on anything you buy in our store for a period of 30 days. It also entitles you to a free oil change and safety inspection at any Sears Automotive Center, plus a free family portrait with one 5x7 and five wallet-size prints.

If you haven't taken advantage of our Family Appreciation Card yet, now's the time.

Just show a military or military dependent I.D. to get your Sears Family Appreciation Card. We hope this small token of our gratitude makes this Fourth of July even better.



## Sears, Roebuck and Company

# Announcements

## Job information day

A "Job Information Day" will be held at Army Community Service on Tuesday, July 9 from 8-11 a.m. Representatives from Civilian Personnel and Nonappropriated Fund Offices will be present to provide information to military spouses and other interested parties on job opportunities, job qualifications, how to apply for jobs, and to answer any other relevant questions. At 1 p.m., the Standard Form 171 completion class will be held to teach how to effectively complete this federal job application form. For more information and to register for the class call Sue Paddock, ACS family member employment assistance program coordinator, 876-5397.

## Preseparation orientation

The next preseparation orientation — not retiree orientation — for military personnel with ETS or Release from Active Duty dates through Nov. 11, will be held from 8-noon July 11 in Toftoy Hall, building 3495, auditorium room 119. Representatives from Veterans Affairs, Employment Services, Military Pay Division, and others will brief attendees and answer questions pertaining to post-separation plans. Spouses are encouraged to attend. It is mandatory for specified personnel to attend.

## Retired officers

Huntsville Chapter of The Retired Officers Association (TROA) will hold its midyear banquet meeting this evening at the Officers Club. The meeting begins with a social hour at 6:30, dinner at 7:30 and the program to follow. Col. Tom Brown, director of Weapons Systems Management Directorate, is to speak on "National Preparedness." Reservations are required. For more information call Brandon Parker 881-5487, Emmett Boylan 881-4209 or Art Ousley 539-3222.

## Benefit shoot

Arab Practical Shooting Club will conduct a "Bowling Pin and Steel Plate Match" 10 a.m. July 4 to benefit the Alabama Sheriffs' Ranches for Boys and Girls. Course of fire will be revolver neutral with a .380 minimum caliber restriction. Awards will be given through sixth place. The fee is \$10 per entry, and \$5 to re-enter. For more information and directions to the club range, call Al Dolney 859-5964 or Tom Badham (205) 586-1155.



## Summer basketball

The Northwest YMCA is accepting registration for its Summer Basketball League. The YMCA, a United Way sponsored organization, is celebrating 100 years of basketball. For more information, call Jeff Harris 852-8540.

## Found property

The following items have been found on different dates and locations: a Moped with no motor; a lady's bicycle; a Muscle Shoals High School class ring; and a man's high school class ring for 1989. The owners should contact the Provost Marshal Office, Investigations Branch, building 3649, phone 876-2090/3449, to identify and claim their property.

## Salute to Patriots

The Boaz Outlet Center will celebrate Independence Day with a "Salute to Patriots," July 1-7. Veterans and active military personnel will receive an additional 10 percent discount upon presenting valid military identification at any participating store. For more information, call Sherry Smith (205) 593-9306.

## MICOM hail/farewell

The MICOM Hail and Farewell is scheduled for 4-6 p.m. July 23 at the Officers Club. Hors d'oeuvres will be served, and cash bars will be available. All military and civilian employees are encouraged to attend. Honorees will include military officers and civilian employees GS/GM-13 and above. An advance fee of \$4 per person is required. See your administrative officer for response forms. For more information, call Pat Davis 876-2635.



## Learning center

The Army Learning Center (ALC) System offers the following personal development multimedia courses: Managing Projects; Working Together Works; and Working With Assertiveness. For more information, call 876-9416/1416.

## Red Cross orientation

A Red Cross volunteers' orientation for all new adult and youth volunteers will be held 10 a.m. July 3 at Fox Army Community Hospital. Help is needed in the Bloodmobile area. For more information call Leah Amato, for youth volunteers, 837-1972 or Marge Kunhart, for adult volunteers, 830-6621.

## Space center tickets

Complimentary admission tickets to the Space and Rocket Center for July 3-7 are available on a first come/first served basis to all military and civilians who deployed to Southwest Asia and their immediate family members. Tickets must be picked up in person at Army Community Service, building 3491; limit four tickets per family. For more information, call Virginia Dempsey 876-5397.

## UAH gallery

University of Alabama in Huntsville will exhibit "Works on Paper by Christopher Johns" from July 1-26 at the UAH University Center Gallery. Johns is an associate professor of painting and drawing at Louisiana State University. "In his art, Johns works with abstracted images that allude to natural forms." Hours of operation are as follows: 8 a.m. to 9 p.m. Monday through Thursday; 8 a.m. to noon Friday; closed Saturday, Sunday and July 4-5.



## Singles group

The Original B&B is a social organization which provides the opportunity to meet other singles through dances and dance lessons or dinners each Wednesday evening at the American Legion on Long Avenue. For more information, call 881-8518/6559.



## Prayer breakfast

The monthly Ecumenical Prayer Breakfast normally held the first Wednesday of each month is rescheduled for Wednesday, July 17. There will not be a prayer breakfast July 3.

## Family support group

The Redstone Arsenal Family Support Group will meet 6:30-8 p.m. July 1 at the Post Chapel. Child care is provided. For more information, call the Post Chapel 876-2409 or Virginia Dempsey of Army Community Service 876-5397.



## Storytime for kids

The main branch of the Huntsville/Madison County Public Library will host Storytime with Mrs. Aaron Ball, media specialist for Williams Elementary, beginning July 9. Storytime will begin each Tuesday at 6:30 p.m. for the remainder of July. It will last about 30 to 45 minutes.

## Post Theater movies

Thursday — *A Kiss Before Dying*, rated R, 93 minutes. Friday — *A Kiss Before Dying*. Saturday — *Silence of the Lambs*, R, 118 minutes. Sunday — *Silence of the Lambs*. Tuesday — *Oscar*, PG, 110 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

## Fall soccer

Registration continues until July 10 for fall soccer season for youth. Coaches are needed. For more information, call Gordon Keene 876-BALL.



## Master's program

Nova University weekend MBA program: You are invited to an open house information meeting 7 p.m. Tuesday, July 16 at the Marriott, Space and Rocket Center in Huntsville. For more information, call 1-800-541-6682 (ext. 1948) and ask for Claudia Santin.

## AER grants

All Army Emergency Relief loans made to active duty military from Aug. 1, 1990 through Feb. 28 were converted to grants. As a gift, AER Board of Managers approved the outstanding balance of these loans. "This gift was made possible through the generosity of extraordinary contributors out of affection, respect and admiration of the U.S. Army soldiers and their families." Army Emergency Relief has been advised by the Internal Revenue Service that this action precludes any federal income tax liability to anyone who benefited from this program. For more information, call the local AER officer 876-5468.

## Contract managers

Huntsville Chapter, National Contract Management Association (NCMA) will hold its annual awards banquet Thursday at the Officers Club. The event begins at 5:30 p.m. with a social; a roast beef dinner will be served at 6. The presentation of chapter awards and the installation of the chapter officers for 1991-92 follows dinner. Additionally, Leonard J. Crosby memorial scholarships will be presented to three area college students. Cost of the banquet is \$12. For reservations, call 536-1527.



# Carpool Hotline

Call 876-1500 to place your free carpool ad.

Pulaski/Ardmore

Carpool wanted from Pulaski or Ardmore to 4488, hours 6:30-3. Peggy Salters 876-7288.

# classifieds

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

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

**MOVING SALE:** Bedroom suite includes dresser with mirror, chest on chest, 2 night tables, queen headboard and footboard, box spring and mattress. \$350; Hide-a-bed sofa, full size. \$150; Beige recliner, \$50; Beige plush wall-to-wall carpeting, fits 3 bedroom, single family quarters on RSA, \$200; Oak entertainment center, \$125; Beige, plush Stainmaster wall-to-wall carpeting, fits 4 bedroom quarters on Ripley Drive, excellent condition, 1 year old, bought for \$1350, will sell for \$800. 830-8326.

**FOR SALE:** Two (2) AKC registered Shelties. Great with children. One sable and white, 3 years old; one sable, merle and white, 2 1/2 years old. Must sell due to move. Dog house and bedding included. All shots current. Would prefer to sell as pair, but will consider selling separately. \$50 each. 830-8326.

**FOR SALE:** Metal desk with woodgrain top, \$50; Entertainment center, \$50; Console stereo with 8 track tape, \$85. 536-5703.

**FOR SALE:** 1984 Ford Escort, new tires, excellent condition, \$1500. 1968 Chevrolet pickup truck, LWB, \$550. Refrigerator, air conditioner, freezer, \$100 each. 533-3697.

**FOR SALE:** 1987 Monte Carlo SS. Loaded, sharp, excellent condition. 851-6111.

**FOR SALE:** 1985 blue Mazda GLC Deluxe. 4 door, has air conditioning, 75,000 miles. Asking \$26,000, will negotiate. 851-8609, 461-2372, or 461-3130.

**14 FREE PUPPIES:** 7 adorable half husky pups. Thick fur, curled tails. Black/dark brown with black tipped. 7 ugly-as-sin half boxer puppies. Black and white/brindle/white. Ready July 11. 498-5238 or 842-7292.

**FOR SALE:** Small room-sized air conditioner, 110V, needs charge, \$30. 1 ton plus air conditioner, 220V, cools well, \$125. House recently converted to central heat/air. 534-9902.

**FOR SALE:** 1984 Audi 4000S, 5 speed, air conditioning, sunroof, etc. Excellent condition, 101K dealer-or-engineer-husband-maintained miles. \$3100. 534-9902.

**FOR SALE:** Sunflower sailboat, new sail and paint, additional rigging, good for learning to sail, \$495. Catamaran, 14', fully restored, colored sails, new rigging, trailer, \$895. Call 882-2487 after 5 p.m. or weekends.

**FREE:** 4 German Shepherd/Chow mixed puppies. Born April 21, 1991, will be medium size (approximately 20-25 pounds), parent dogs are excellent with children. Puppies are ready for good homes now. Please contact Mrs. Windler, 859-3016.

**FOR SALE:** 1983 Nissan 280ZX, fully loaded, red, top, excellent condition. Only 55,000 miles, 5 speed. \$5500. Call William at 233-4649 in Athens.

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P185/80R13	25.75	103
P185/75R14	27.75	111
P195/75R14	28.75	115
P205/75R14	30.75	123
P205/75R15	32.75	131
P215/75R15	33.75	135
P225/75R15	34.75	139
P235/75R15	35.75	143

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P175/80R13	27.75	111
P185/80R13	29.75	119
P185/75R14	31.75	127
P195/75R14	32.75	131
P205/75R14	34.75	139
P215/75R14	35.75	143
P205/75R15	36.75	147
P215/75R15	37.75	151
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P175/80R13	32.75	131
P185/80R13	34.75	139
P185/75R14	36.75	147
P195/75R14	37.75	151
P205/75R14	39.75	159
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P165/80R13	36.75	147
P175/80R13	38.75	155
P185/80R13	40.75	163
P185/75R14	41.75	167
P195/75R14	43.75	175
P205/75R14	45.75	183
P215/75R14	46.75	187
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