

Redstone Rocket

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July 18, 1990

Medaris led missile team down road of achievement

Retired major general died last week at his home in North Carolina

BY PAM ROGERS

Retired Maj. Gen. John Bruce Medaris, a driving force behind the nation's early space program, died early last Wednesday at his home in Highlands, N.C. He was 88.

A memorial service here was scheduled for this afternoon at 1 at the Bicentennial Chapel.

As commander of the U.S. Army Ballistic Missile Agency and later the Army Ordnance Missile Command, Medaris led the Army missile team at Redstone Arsenal to some of its most memorable achievements, including orbit of the Free World's first scientific earth satellite, flight of the nation's first successful lunar probe and solar satellite, and first successful space flight and live recovery of primates.

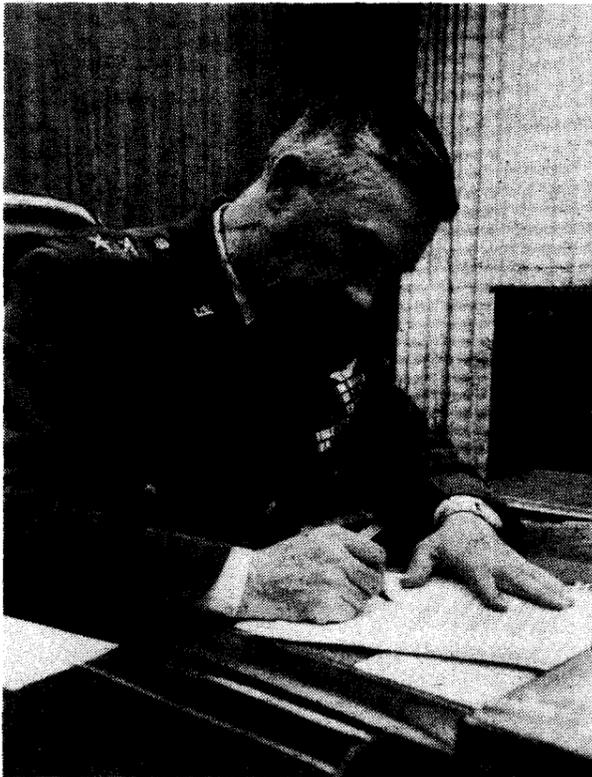
His team developed and fielded the Redstone and Jupiter ballistic missiles and initiated the efforts, which continue today, to develop a ground-based defense against intercontinental ballistic missile attack.

Medaris was born in Milford, Ohio, in 1902. His military career began when he enlisted in the U.S. Marine Corps at the age of 16. He served as a rifleman in France during World War I and was honorably discharged as a corporal in 1919.

He attended Ohio State University but left before graduating to accept a commission in the Army. Between 1921 and 1927 he served with the 29th and 33rd Infantry Regiments and with the Ordnance Corps. He resigned his commission in 1927, and was called back to active duty in 1939 as an ordnance officer. During World War II he served with the II Corps in Tunisia and Sicily, and then was assigned to the Headquarters, First Army.

As part of his duties as an ordnance officer, it fell to Medaris to identify the first German V-2 Rocket fired against the First Army in Europe.

In 1955 he arrived at Redstone Arsenal to command the newly-established Army Ballistic Missile Agency, where he directed the work of a team of rocket scientists which included many of the German rocket pioneers who developed the V-2.



COMMANDER'S LAST SIGNATURE — In his last official act before retiring from active duty in 1960, Medaris signs the document which fixes the date for the first firing of a Pershing missile from Cape Canaveral, Fla.



LATER DAYS — A later photo of Medaris following his ordination as an Episcopal priest.

This team, headed by Wernher von Braun, developed the launch vehicle which sent the Free World's first earth satellite, Explorer I, into orbit the night of Jan. 31, 1958.

In March 1958 Medaris left ABMA to command the Army Ordnance Missile Command. Subordinate to this command were ABMA, the Army Rocket and

Guided Missile Agency, White Sands Missile Range, the Jet Propulsion Laboratory and Redstone Arsenal. Medaris was responsible for all Army Ordnance programs in the rocket, guided and ballistic missile, and space fields.

He retired from the Army in 1960 and in 1970 was ordained as an Episcopal priest.

He was honored in May by the National Space Club (See Medaris, cont'd on page 3)

Open house marks silver anniversary of ACS

BY SKIP VAUGHN

Army Community Service at Redstone will celebrate the 25th anniversary of ACS with an open house from 10 a.m. to noon July 25.

The event will begin with opening remarks in the parking lot of the ACS building 3491. Remarks will be delivered by Brig. Gen. Robert Drolet, program executive officer for air defense, according to Sue Paddock of ACS.

"This is the ACS silver anniversary and it's to commemorate 25 years of organizational support to servicemembers and their families," she said.

Refreshments at the informal event will include birthday cake and punch. A videotape entitled "ACS at Redstone" will be played continuously in the conference room.

"We encourage the entire community to come out and see what services are available here for the soldier and family member," Frances Howard said.

Army Community Service is playing an increasingly vital role, according to Dr. William Resha, chief of ACS at Redstone. "As we move into the decade of the '90s, we're going to be seeing a lot of additional stress factors being placed on soldiers and civilians at Redstone, and I think our programs here are going to be needed even more than they have in the past," Resha said. "The open house serves as a reminder to the community, an invitation to learn about our programs and services."

While most resources on an installation support the (See ACS, cont'd on page 8)

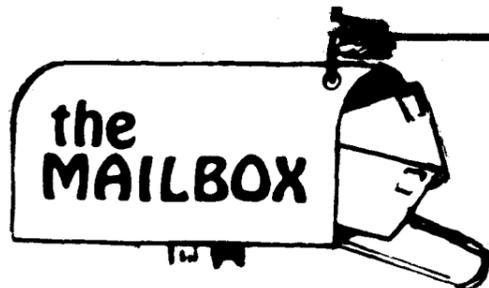


READY TO CELEBRATE — From left are Sue Paddock, Dr. William Resha and Frances Howard.

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Unwelcome view

Editor:

Many of us, both athletic and non-athletic, admire our co-workers who run, jog, or workout during their lunch period. These workers are reducing health costs for all of us and staying healthy to boot. What is truly amazing is that these individuals can change out of their coat and tie into workout outfits, run several miles, shower, and change back into their work clothes all within a 30 minute lunch period. Admirable!

Unfortunately, all of this activity has jogged a few brain cells in these same individuals. At lunch time, these individuals stretch, pull, and yank their bodies in ways I haven't seen yet. As others are coming back from a quick lunch, these yahoos are bending over allowing co-workers to perform visual hemorrhoid clinics.

Runners, if you must stretch or contort your bodies, do it in a place where we don't have to see it. Or else next time, I may just throw-up down your shorts. Thank you for consideration.

Name withheld by request

PC or not PC

Editor:

I have observed that the Sperry Terminals provided are only used about 10 percent of the time, and the Zenith personal computers have a line of people waiting to use the few available. Has anyone else made a similar observation? Are we continuing to purchase Sperry Terminals rather than personal computers?

Name withheld by request

(Editor's note: Thomas R. Moore, chief of IMA Technology Division for Information Systems Command-MICOM, provides the following response: "In reply to the question about acquiring personal computers (PCs) as opposed to terminals, neither the Sperry contract for terminals or the Zenith contract for PCs is presently available. However, contracts with AT&T and Unisys are available for terminal and PC acquisitions. Selection of PCs instead of terminals is a decision which must be made by the using organization. In many situations a terminal may well serve the needs of an individual while in other cases PCs are required. During the past 18 months a significant increase in the percent of acquisitions has been for PCs. ISC-MICOM will be happy to provide an evaluation for those organizations who desire

assistance in determining whether terminals or PCs should be acquired. You should call the User Assistance Center at 876-2291 for this assistance.")

Gas station fuel

Editor:

I would like to know for sure if the gas here on post has the detergent additives for fuel injected vehicles.

I was told that if there were no signs on the gas pumps, that the gas probably doesn't have any additives in it. I would rather not pay a higher price off post, if the post gas station offers the same quality detergent additives.

Sheryl Batchelor

(Editor's note: At present, the Post Exchange gas station does have a detergent additive in its fuel. But this may not always be the case. "We're independent so we don't have a brand on our gasoline, and we change contracts so it may not always have a detergent in it. But right now we do. At this point, we do have a detergent in our fuel," says Roger Overcast, service station manager. "And they're welcome to ask us anytime they come in. At this point, under our current contract, we do have a detergent additive in the fuel." The current one-year contract expires in September.)

Phone for patients

Editor:

Approximately two weeks ago I had a medical condition which required that I be hospitalized in the Fox Army Community Hospital. The care that the health care professionals rendered was exceptionally good to outstanding. As there was an intravenous (IV) device connected to my arm and due to my doctor's orders, I was constrained to my room during my stay. I requested that the roll-about phone be brought to my room so that I may contact relatives, friends and business, but I was told that the roll-about phone was no longer used. The next day I asked the social worker why there were no phones in the rooms and she promised me an answer. Her answer was that it would cost too much to install the phones into the rooms and that I was there to get well, not use phones. During the day I noticed that there already existed a common modular phone jack in the room that I was in. As I was being discharged I attempted to phone another person on the "free" class "C" phone next to the one and only pay phone on the floor of the Medical Surgical Ward (MSW). As I could not remember the number I wanted to reach, I dialed 876-2151 (the number to get information when off post) and got a recorded message that I could not reach the number as dialed, so I tried to call 113, and again I got the same recording. I then dialed "0" for the operator, which got me the same recording. The bottom line is that a soldier/spouse/dependent trying to reach an on post number which they do not already possess or know will find the class "C" phone useless.

I was informed that persons attempting to call into the MSW using the pay phone number may or may not get through, as the "policy" is to not answer that phone or the class "C" phone. All of these "policies" to prevent personnel from making or receiving phone calls seems strange in this day and age. If the person is too sick to receive calls, simply remove the phone. Well, what if the person makes a long distance call on the government? There already exists a monthly print-out called the EAF which shows from where a phone call originated, the time call was placed, and to what number. There are probably some folks out there who do not know that you're not supposed to make personal long distance calls and charge them against the government, but along with the briefing which patients already get, why can't the patient be briefed that they must either make a collect phone call or charge it to their phone card! There are plenty of provisions within AR 27-10 and appropriate post regulations to properly recover monies from offenders and provide proper administration of punishment for offenders at the present time. What about "late" night calls? Those numbers assigned will be controlled and routed to the nurse's station after the appointed time; this is easily capable. Why so much concern for the installation of phones? I will guess that at least 85 percent of the soldiers/spouses/dependents are not from the Huntsville area.

If your son or daughter is hospitalized at Fox Army Community Hospital, wouldn't it be nice if they could

call you and reassure you that they are alright or that you could call them to see if you were needed or that they needed something, especially if the parents or spouse is not here at Redstone Arsenal or they may need to make a simple call to the bank or change an appointment elsewhere. I feel that the patients a FACH should have some form of communication device that could be used at their disposal while they are in the Medical Surgical Ward.

MSgt. Bill Wynne

ACS anniversary

The commander of the Missile Command and Redstone Arsenal provides the following open letter to the Redstone community.

Army Community Service (ACS) at Redstone Arsenal will join other ACS organizations worldwide in celebrating its 25th anniversary on 25 July 1990. It was on this date in 1965 that the Chief of Staff of the Army authorized the creation of Army Community Service agencies at Army installations to provide assistance to soldiers and their family members experiencing hardship due to their military service.

In the ensuing quarter century, ACS had never faltered in fulfilling this primary goal. Today, as in 1965, ACS remains focused on assisting soldiers and their family members. Through the years, ACS has grown tremendously in the number of services offered soldiers and their families, and in the number of volunteers willingly offering their valuable talents and skills in support of the ACS effort.

The theme of this year's celebration is "ACS, A Commander's Solution." This is an appropriate recognition that ACS has become one of the commander's primary tools for fostering improved morale and readiness through committed concern and assistance to the soldier's family.

I salute and congratulate Redstone Arsenal's ACS on the celebration of its 25th anniversary. I urge all members of this command to attend the ACS Open House and birthday festivities on 25 July 1990 and to extend the personal thanks of this community for the tremendous support ACS has offered us over the years.

William S. Chen
Major General, USA
Commanding

Pursuing degree

Editor:

First of all, I wish to acknowledge gratitude to Skip Vaughn for mentioning my name in the (July 5) *Rocket* article, "Program helps enlisted soldiers earn nursing degree." I will be pursuing a bachelor's degree in nursing, but, at Niagara University, New York State. Under the AMEDD Enlisted Commissioning Program, soldiers are entitled to their basic pay and allowances, are able to be promoted, and those two years count as active duty.

The Army has become a new home for my family and me. As a foreigner, Dominican Republic, I always heard people say "The United States is the land of opportunity"; and by God it is, but remember, you have to earn it.

I entered the Army in October 1987 after completing a four year pre-medical school program in the Dominican Republic and working for two years, for peanuts, as a medical assistant. I decided to move on to new horizons, in pursuit of opportunity, the United States of America. I performed basic training at Fort Jackson, S.C., and followed by advanced individual training at Fort Sam Houston, Texas. I was promoted to the rank of specialist after only six months in service. I was assigned to Redstone Arsenal in May 1988. Since then I have continued to educate myself with the help of a fantastic group of people who work at the Redstone Arsenal Learning Center. There I learned about computer operation and programming in Basic, dBase III, and electronic worksheets like Lotus 1-2-3. I later employed my knowledge in computers to set up a data management operation in our laboratory for our patients data in cytology and blood bank.

I completed an external degree program with Thomas A. Edison State College in medical laboratory science (BS/MT) last June. We celebrated our nation's 214th year of independence and my first anniversary as

(See Letters, cont'd on page 10)

THE REDSTONE ROCKET

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Boyd takes reins of TMDE Support Group

Col. Mike Boyd assumed command of TMDE Support Group July 11 in a change of command ceremony held at the parade field.

Boyd succeeded Col. George Patch who commanded the Test Measurement and Diagnostic Equipment Support Group since July 1988. Patch will become the deputy for operations at the Strategic Defense Command.

"You've lost a great commander but you're gaining an equally outstanding professional," said Maj. Gen. Thomas Arwood, deputy chief of staff for readiness at Army Materiel Command, who participated in the ceremony.

Patch told the assembled soldiers and civilians that his departure gives him mixed emotions — sadness at leaving the group, pride in what it has accomplished, and anticipation. "To Col. Boyd, Mike I pass on to you a great command; it's made up of great people who will never let you down in meeting a great challenge," he said.

Boyd, 45, previously served as director for readiness at Aviation Systems Command in St. Louis. He commanded the 74th Maintenance Battalion, which is part of TMDE Support Group, in Korea from 1984-86.

"I know most of you soldiers standing on that field, and it's great to be back with you," Boyd told the TMDE soldiers assembled before him.

"One thing you can say about TMDE soldiers: We support every soldier and every weapon system every day in every way," he said.

The Test Measurement and Diagnostic Equipment Support Group consists of a headquarters at Redstone; a continental U.S. activity which includes civilians at many of the depots throughout the states; the 95th Maintenance Company, home for all of its soldiers that support active duty divisions in the U.S., Panama and Alaska; the 74th Maintenance Battalion

which is responsible for supporting the Pacific theater; and the 517th Maintenance Battalion, responsible for supporting the European theater. The support group

includes some 984 soldiers and 1,256 civilians. Its mission is the repair and calibration of the Army's test, measurement and diagnostic equipment.



COMMAND CHANGE — Boyd, left, and Patch, far right, stand at attention after the command flag changed hands during the ceremony.

Commissary display a tribute to Redstone's past

Redstone's Commissary hopes to win a display contest which could ultimately mean \$4,000 for the morale, welfare and recreation fund.

The winner at the regional level receives \$500 for the installation MWR fund; the winner at the Army level gets an additional \$1,000; and the all-services winner receives another \$2,500.

"The contest runs through the end of August, and entries are submitted with the writeup and pictures to Coca-Cola USA; and they'll be judged by the Coca-Cola representative and the regional director," said Herm Wainwright, commissary officer. There are 23 commissaries in the Southeast Commissary Region which is directed by Cecil Saunders.

Competing in the large-store category, Redstone's commissary display covers an area of 40-by-28 feet inside the store. Its theme is "Coca-Cola Salutes Redstone Arsenal." The display includes 2,060 cases of Coke — 1,900 cases of cans and 160 cases of two-liters — historical photos, and a videotape about the Missile Command. A large sign overhead with a rocket says, "Coca-Cola salutes Redstone Arsenal; Proud past and a bright future..."

The eight 30-by-40-inch black and white photos were furnished by the MICOM Historical Division. "They were picked because they showed *firsts*. We thought that would be a good theme," said Jim Bowne, an historian in the division. He and Mike Baker, the command historian, provided the photographs at Wainwright's request. Rocket and



DISPLAY — Wainwright, left, and Bowne stand in part of the commissary display which salutes Redstone Arsenal. It includes a television playing a videotape about the Missile Command.

missile subjects in the photos include the Pershing, Explorer I, Saturn, Nike Hercules, Redstone, TOW, Jupiter, and monkeys Able and Baker (who traveled in space in 1959).

The display will be up for two weeks, through July 21. "I think we've got a shot to compete at all-services," Wainwright said. "Looking at the display, it's pretty impressive."

Entries will be judged on creativity, size relative to store, and sales increase vs. previous year.

Medaris

(Cont'd from page 1)

and the Smithsonian Institution for his vision and leadership in the early days of the space program, as well as for his work in public awareness of the promise of the Space Age.

At a ceremony at the National Air and Space Museum, the first Maj. Gen. John B. Medaris Award for Army Achievement in Space was accepted for Medaris by his son, retired Lt. Col. John B. Medaris Jr. of Huntington, N.Y.

Medaris is also survived by his wife, Frances Farmer Medaris, and two daughters, Marilyn Stillings of Baraboo, Wis. and Marta Smith of Gales Ferry, Conn.

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Use water and common sense to combat heat injuries

BY SANDA LAGER

Think of weapons and you normally think of instruments to combat an enemy.

Mention water as a weapon and you might get a few strange looks.

However, water is considered by the Department of the Army to be the single-most effective tactical weapon to combat heat injury, according to an Army heat injury prevention and first aid guide.

Heat injury is a threat when temperatures rise to the levels they have during the past several weeks, said Capt. Richard Roche, preventative medicine officer at Fox Army Community Hospital.

The amount of water needed to combat heat injury is determined not only by the outside temperature, but also by how well people are acclimated to the heat.

"People who engage in outdoor activities, whether (those activities are) military-related or not, can easily overdo it. It takes a person two weeks of gradual exposure to become acclimated (to the heat). People here generally aren't acclimated to the heat because of air conditioning," Roche said.

"It's not unusual to consume two quarts of water for each hour spent outdoors during hot weather," he said.

Cool water (50-60 F) should be consumed when possible to enhance its taste and increase voluntary water consumption, the Army guide advises.

Other measures include drinking water frequently instead of a large amount all at once. Also, larger people need to drink more water.

Other measures Roche recommends include an adequate salt intake during meals. The Army discourages salt tablets as a means of replacing salt lost through sweating, he said. Caffeine and alcoholic beverage consumption is discouraged during intense heat periods, and the wearing of loose clothing and taking frequent rest periods is encouraged, he said.

Four risks people outdoors are exposed to are heat stroke, heat exhaustion, heat cramps and sunburn. (See chart for symptoms, treatment and prevention.)

Heat injuries can sneak up on a person, Roche said. Knowing how to handle them can prevent serious and long-lasting effects.

Heatstroke/Sunstroke

The human body has a built-in thermostat to keep it from overheating, Roche said. In mild temperatures, body heat is eliminated through the skin and lungs.

As the temperature rises, sweat glands work to keep the body cool. The body perspires, the perspiration evaporates and the body stays cool.

But when the temperature and humidity get very high, the sweat glands have to work overtime because the body cannot cool itself efficiently. If a person, especially someone not used to extreme heat, is exposed to high temperatures for too long, the entire thermostat system may break down.

The breakdown of this system is known as heat stroke or sunstroke. Either can cause death and should always be treated as an emergency.

The first sign of heat stroke may be that a person stops sweating, and the skin will feel hot and dry. In some cases, an individual may suddenly collapse or become unconscious. In other cases, collapse may be preceded by headache, dizziness, fast pulse, nausea and vomiting. Some people may become mentally confused, even violent, while others go into convulsions.

Heat exhaustion

In very hot weather, the body can lose large amounts of water through perspiration, Roche said. When too much water and salt are lost without replacement, heat exhaustion may result.

Unlike the heat stroke victim, a person with heat exhaustion perspires excessively. The victim may faint and the skin may become pale, cool, moist and clammy. Dizziness, headache, muscle cramps or nausea may also occur.

Heat cramps

These are extremely painful spasms of arm, leg or abdomen muscles. They are caused by the loss of salt from the body through perspiration.

Sunburn

Sunburn is the heat injury most familiar to people. Light-skinned people are generally more susceptible to sunburn than dark-skinned people, but anyone can be affected.

Most often, sunburn is a first-degree burn marked by redness of the skin. But second-degree burns — larger, reddened areas, blisters or swelling of the eyes and face — are also fairly common.

Sunburn is possible on cloudy days because sun rays can penetrate clouds. Because water and sand reflect (See Heat, cont'd on page 17)

HEAT INJURIES, SYMPTOMS, TREATMENT AND PREVENTION

TYPE INJURY	SYMPTOMS	TREATMENT	PREVENTION
SUNBURN	1st Degree: Redness of skin 2nd Degree: Blistering and peeling of skin.	Use topical anesthetics to soothe pain. Remain under cover and out of sun.	Limit exposure of bare skin by wearing proper clothing and using sunscreen.
HEAT CRAMPS	Sudden onset of moderate to severe muscle cramps Skin hot and moist.	Give victim saline water to drink; make by dissolving 1/4 teaspoon in table salt or tablets in water.	Drink plenty of water. Ensure adequate salt intake by salting food at meals.
HEAT EXHAUSTION	Pale, moist skin. Headache and weakness. Often rapid breathing and temporary fainting.	Move victim to shady area. Loosen clothing; elevate legs. Cool victim by sprinkling with water and fanning. Give victim saline water to drink.	Drink plenty of water. Ensure adequate salt intake by salting food at meals.
HEAT STROKE	Skin hot and dry. Weakness, confusion and often unconsciousness. Sometimes muscle twitching	This is a medical emergency. Immediately move victim to shady area and immerse in cold water. Use ice, if available. Massage victim's arms and legs. Get medical assistance as soon as possible.	Drink plenty of water. Ensure adequate salt intake by salting food at meals.

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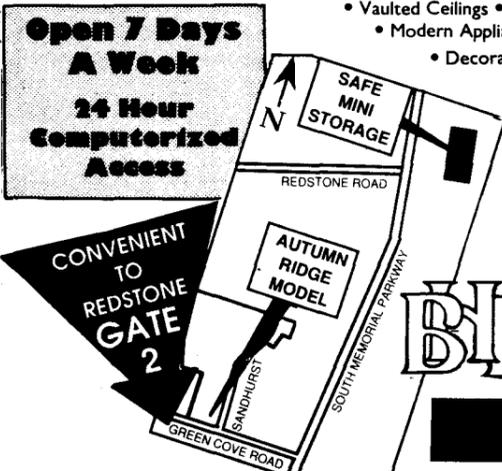
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Soldier wins scholarship from contract managers

BY MARIANNE BRACKEN

Soldiers sometimes need more than the G.I. Bill or Veterans Education Assistance Program to continue their education after being discharged from the Army. One soldier from the Ordnance Missile and Munitions Center and School realized this and did something about it.

Sgt. Marcy Hickenbotam, administrative support specialist, applied for and received the Leonard J. Crosby Scholarship for \$750 from the National Contract Management Association (NCMA).

Hickenbotam, 26, a native of Crestview, Fla., earned an associate degree in general studies from Columbia College in March 1989. She then began attending Athens State College to pursue a bachelor's degree in business administration with a concentration in procurement and acquisition management.

Hickenbotam became interested in a career dealing with procurement and acquisition after being exposed to it through her military job and after talking with various people already in the field.

Through Athens State College, Hickenbotam hopes to get involved with a co-op program which would

allow her to go to school one quarter then work one quarter in a job related to her field of study. She said she didn't expect to be awarded the scholarship.

"The money will be beneficial, but the best part of winning the award is knowing people have confidence in your abilities," Hickenbotam said.

It can be difficult at times to be a wife and mother as well as someone pursuing a career, but Hickenbotam says her husband, Clay, is very supportive. It's hard for her daughter, Ayla, 3, and son, Seth, 1, to understand why she doesn't always have time for them, but she knows eventually they'll understand and support her also.

Sandra Pruitt, a contract specialist in the Missile Command's Procurement Directorate, is the scholarship chairperson for Huntsville chapter of NCMA. "The goal of NCMA is to help those who desire to go into the procurement/contract management field meet their educational goals," Pruitt said.

Along with Hickenbotam, there were two other recipients of the scholarship: Kathleen Wilson and Mary Pentecost, both of Huntsville.



PRESENTATION — Sandra Pruitt presents the scholarship award to Sgt. Marcy Hickenbotam.

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Officials say RIF won't affect environment

Redstone Arsenal has prepared an Environmental Assessment to determine the potential environmental consequences of conducting a civilian personnel reduction in force.

As a result of this assessment, a Finding of No Significant Impact was prepared by Redstone officials. The FONSI states that the proposed RIF will have no adverse impact on human (physical or natural) environment.

As required by law, a copy of the FONSI has been published in local newspapers and furnished to relevant

federal, state and local agencies and the local federal employee labor organization.

Any person wishing to review the Environmental Assessment document should contact the Civilian Personnel Office.

If implemented, the reduction in force would affect some 465 MICOM civilian employees and 60 Missile and Munitions Center and School employees.

If plans were made to proceed with the RIF, notices of proposed reductions would be given to affected personnel in early August, with employment being terminated by Oct. 12.

Hunting volunteers can sign up soon

It's almost time for outdoor enthusiasts who want to work as hunting volunteers for the 1990-91 hunting season to apply to Outdoor Recreation.

Hunting volunteers work an average of two, two-hour shifts per week, checking in hunters, running the deer check-in station, opening and closing gates to hunting areas, and doing other things to help out around the Outdoor Recreation Center, said Bill Moreland, director.

"Volunteers will begin working when hunting season starts in mid-October, and will work until the end of gun season at the end of January," he said.

Applications must be in writing, addressed to Moreland, and must arrive at the Outdoor Recreation Center (AMSMI-RA-CF-CR-OR) during Aug. 1-15.

Each applicant should state his or her name, address, phone number and reason for volunteering, Moreland said.

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New aircraft serves as strategic defense eye in sky

BY MARSHA TAYLOR

U.S. Army Strategic Defense Command managers had the opportunity to get a hands-on look at the new High Altitude Observatory (HALO) aircraft at Huntsville International Airport last week.

The HALO project is being upgraded from a Learjet to a Gulfstream II-B jet transport in order to accommodate the Infrared Instrumentation System (IRIS) and provide additional performance characteristics.

The overall HALO system consists of the Gulfstream II-B aircraft plus a variety of sophisticated cameras and sensors designed to record video and film observations of key defense tests such as missile reentries, launches, and events associated with earth satellites.

Optical measurements taken by HALO cover the ultraviolet region of the light spectrum through long-wave infrared wave lengths. The HALO aircraft features three tracking optical platforms which produce clear, stable images, even during difficult flight maneuvers.

A special computer control system aims the HALO cameras at precise points in space where test events occur. The computer's pointing commands can be obtained from radar data uplinked to the HALO aircraft, either directly or through a satellite communications system installed in the airplane.

Alternatively, positional information pinpointing the location of the airplane and target can be derived from state-of-the-art inertial navigation systems on board the aircraft. Communication of voice and data between the HALO aircraft and the ground control center can also be direct or by satellite relay.

The HALO Gulfstream will be able to operate above about 90 percent of the earth's atmosphere and be able to deploy throughout the world.

HALO is operated by Aeromet Inc., Tulsa, Okla., under contract with U.S. Army Strategic Defense

Command for the Strategic Defense Initiative Organization. The IRIS is operated by Automated Sciences Group, Huntsville, also under contract to

USASDC. HALO also flies missions for the Air Force, National Aeronautics and Space Administration, and other government agencies.



JET TRANSPORT — A Gulfstream II-B jet transport (at right) replaces a smaller Learjet, similar to the one in foreground, as home for USASDC's High Altitude Observatory.

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Army Community Service eases stress of relocation

Editor's note: This is the fourth and final article in a series released by the Army Community and Family Support Center at Alexandria, Va., to highlight Army Community Service programs for ACS's 25th anniversary.

The community and family services programs offered by Army Community Service provide the support and assistance required to meet the needs of soldiers and families.

"ACS has a proud history of supporting Army families," said Lt. Col. Eugene Vivalda, chief of the ACS Division at the Community and Family Support Center in Washington, D.C. "During this year, we plan to highlight the programs, services and contributions of our dedicated staff and volunteers. We also hope to focus attention on the program evolution, the link we provide between units and families. We have chosen as our Silver Anniversary theme, the slogan 'ACS — A Commander's Solution.' We feel this slogan capsulizes our mission."

Activities focusing on the role and contributions of ACS will culminate in celebration events July 25 which is the date of inception of the soldier and family support program. This celebration will be followed by an August conference of ACS officers and volunteer supervisors. The conference, sponsored by Forces Command in Atlanta, will be geared around the theme, "Eyes on the Future: ACS Continues to Evolve."

"At this working conference, we plan to develop a clearly defined, realistic management methodology; a multi-level marketing plan; and the game plan for linking all ACS programs to unit mission accomplishment and the Chief of Staff, Army, six imperatives for the Army's future," Vivalda said. "We will also be giving ACS officers the latest research, demographic data, program guidance, resource outlook and guidance, and how-to information in all program areas."

ACS was established in 1965 to assist commanders in reducing conflicts between a soldier's family responsibilities and duty requirements. The initial support was in the areas of information and referral and relocation assistance. Over the years, the program has evolved and developed into the commanders' primary vehicle to assess, coordinate, and implement an installation and Armywide soldier and family support system.

Today, services are available at 166 ACS centers Armywide. ACS programs focus on one of the primary distractors to self-sufficiency and satisfaction with Army life, the continuous relocations which are a part of the military lifestyle.

"All ACS programs recognize the phenomenon of the mobile military lifestyle," Vivalda said. "They are all geared to assisting the family throughout the stress and turbulence of this lifestyle. Soldiers and their families relocate on an average of every two years. If they're not coming and getting settled, they are moving or preparing to leave."

The Army has placed a great deal of emphasis on quality programs and services. Command support for soldier and family programs clearly shows that the Army accepts its responsibility to take care of both soldier and family member needs.

"ACS program menu centers around intervention services during the relocation process to assist in minimizing the disruptive aspects of moves and to help soldiers and families in the adjustment process. This just makes good sense. The better the Army takes care of soldiers and families, the better they take care of the Army mission. We help commanders by providing these programs and services which in turn help produce healthier and more satisfied soldiers and families who spend more time on the job and have a more positive outlook on the Army and life in general," Vivalda said.

There is a strong core of support programs offered by ACS centers Armywide, but the extent of these programs reflect commander priorities and community needs, he said.

Programs and services provided by ACS include the following:

Relocation Assistance provides information, counseling and support services to mediate one of the most disruptive aspects of military life. Assistance focuses on preparation of soldiers and families before the move, with emphasis on providing accurate and timely destination area information, creating realistic expectations, and helping soldiers and families plan for a take charge of their move. Installation welcome packets, loan closets and overseas orientations are provided to facilitate moves and provide necessary information.

Sponsorship Training, in tandem with relocation assistance and information, helps the unit communicate an attitude of valuing the soldier, thereby increasing identification with and commitment to the unit. Effective sponsors, armed with accurate community information, add a personal touch to relocation assistance and communicate a sense of esprit de corps to newly arriving soldiers and families.

Information, Referral and Follow-up provides comprehensive information regarding military and civilian resources. It links soldiers and families with appropriate resources at the lowest cost, and without duplication of effort.

Exceptional Family Member Program is a mandatory enrollment program which is directed by public law and Department of Defense instructions. Through enrollment and pre-move screening, the program matches the exceptional family member's medical and educational needs with installation resources. Effective identification and screening reduces compassionate reassignments and off-cycle moves

for families having members needing special educational and medical services.

Family Member Employment Assistance provides services that address a major issue of spouses — the need or desire to maintain employment upon relocation. ACS maintains local private sector job information and trains family members on effective job-hunting skills.

Outreach helps commanders assess community/unit needs and link soldiers and families with needed services. Major target groups are junior enlisted, first term families, waiting wives, and bicultural families.

Consumer Affairs and Financial Assistance provides comprehensive education, training, counseling and information on budget development, use of credit, insurance, debt liquidation, money management and checkbook management. It provides support to commanders in implementing sure-pay and unit training for soldiers and their families.

Family Advocacy provides services to strengthen family coping and parenting skills and to prevent abuse. It saves manpower and dollar resources by identifying abuse early and providing services to correct the problem. It saves command time by providing resources, information, and training for commanders to deal with complex issues of family violence, and promotes the retention of otherwise high performers.

Foster Care provides 24-hour emergency care in a foster family home for children who cannot be cared for by their natural family or legal guardian. It is provided for as long a period as children need substitute care.

Volunteer Programs help spouses transition into the military lifestyle and feel a part of it. By capitalizing on the individual and collective talents of volunteers, ACS helps spouses develop job skills and make a contribution to their community. Volunteer programs increase spousal satisfaction with the military, and contribute to wholesome communities that foster self-reliant soldiers and families. Without the dedicated corps of volunteers at each installation, family support programs and services would not be available in the quantity or quality currently enjoyed.

Civilian softball

Here are the standings as of July 12:

Team	W	L	Pct.	GB
1. MLC Lasers	11	3	.786	—
1. Thiokol-1	12	4	.750	—
3. Hawaiioids	11	4	.733	½
3. Stallions	11	4	.733	½
5. Smith Adv. Tech.	11	5	.688	1
6. TSPO Threats	9	6	.600	2½
7. Aeroheads	9	7	.563	3
8. Rads	7	8	.467	4½
9. Thiokol-2	6	8	.429	5
10. PAD	5	11	.313	7
11. TMDE	2	12	.143	9

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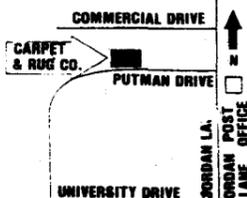
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Professional tennis player has family's full support

BY SKIP VAUGHN

The father of one of the newest sensations in men's tennis is a retired master sergeant who works here at the Ordnance Missile and Munitions Center and School.

Nathaniel Shelton, a training specialist in the Directorate of Training and Doctrine, feels good about what his son Bryan has already accomplished in professional tennis. Bryan played evenly with Ivan Lendl in this year's Wimbledon tournament before losing to the No. 1 ranked player in the world in four sets.

"I really think he's ahead of himself and I always felt that he had all the talent that was necessary to excel in many of the sports that he participated in, and I feel that way about tennis," Shelton said. "He has the other requirements that are necessary: dedication, he has his priorities in order, he's accepted the Lord as his personal savior. So I think he's fortunate to have everything together."

Family support is another essential factor, and Bryan has that too, Shelton said. "Family support is a must for youngsters starting out, not only for minorities but other Americans or people find it very expensive to do the things to make (it). Tennis is a very expensive sport and not quite the same as some of the team sports you have. It's something (where) you have to have the money or backing. You need financial backing. We really didn't have any backers to speak of so it all had to come out of hide for Bryan. The sacrifices we made so he could play tennis and progress through the levels, we would do it again if we had to. Bryan has always been very appreciative of what we did as a family to support him. I would say right now Bryan doesn't owe us anything; he's paid us back in showing his appreciation and attitude and wanting to please my wife and me.



PROUD DAD — Shelton shows a recent newspaper article about his son Bryan under the headline, "Wimbledon loss doesn't mar dream."

"He's brought a lot of honor to us and to himself. He's worked very hard in tennis through the years — I'd say over the last 15 years or so. So he's not gotten where he is overnight," Shelton said. "I think he's got a chance to possibly get into the top 10 players of the world within the next one or two years. I think he has the desire and everything to do it. He certainly has the equipment and the talent."

Shelton, a 57-year-old native of Charleston, S.C.,

retired in 1974 after 24 years of military service. He was a management assistant for the Huntsville Housing Authority before becoming a training specialist at Redstone in 1976. He was a tech manual writer/editor from 1980-83 at the Missile Command and from 1983-86 at Lexington (Ky.) Army Depot. He returned to OMMCS here in 1986. He and his wife, Regina, have four children: Nathaniel Jr., 33, Mark, 31, Yutta Henderson, 27, and Bryan, 24. Nathaniel Jr. is an Army captain stationed at Fort McClellan, Ala., where he is a veterinarian. Mark, a Tuskegee Institute ROTC graduate like his older brother, is an Army captain and pilot stationed in Germany. Yutta is pursuing her master's degree in system engineering at the University of Alabama in Tuscaloosa. A graduate of Randolph School in Huntsville, she received her bachelor's degree in computer science from University of Alabama-Huntsville in 1986. Bryan, a 1984 graduate of Randolph School, received his bachelor's degree in industrial engineering last April from Georgia Tech where he played on the tennis team until turning pro in January 1989. He was the 125th-ranked men's player in the world entering this year's Wimbledon where he won two matches before losing to Lendl in the third round.

"I want to attend the U.S. Open (in Flushing Meadows, N.Y.) which will be coming up in August, end of August, first part of September, and see Bryan play there; and hope to travel with him on a few of his tournaments," Shelton said. His wife is a native of New York and he has two sisters there.

His wife, daughter, son Mark and Bryan's girlfriend cheered Bryan on at Wimbledon.

ACS

(Cont'd from page 1)

soldier first and then the family member, ACS puts major emphasis on supporting the family. "In 1990 there's no question that mission readiness and retention of the good soldier is directly related to providing a comprehensive array of services and resources for the soldiers and their family members, and that's what ACS is here to address," Resha said.

The paid staff at Army Community Service has grown from four to 11 since 1987. Six of the 11 employees have either served in the military or are spouses of servicemembers. "I feel as chief of the program it's very important to keep such a high ratio so we can remain sensitive," Resha said. There are 25 to 30 active volunteers, and the need for volunteers has increased as the programs have grown.

"I'm proudest of three things: Every program manager is cross-trained so that programs continue if the staff person is detailed somewhere else. The second thing, we're somewhat unique with ACS programs in that we have evening hours and this is primarily to en-

courage spouses to participate, and so that we don't interfere with duty hours. The third thing I think we're somewhat unique in is that we have at least three staff people on call around the clock because emergencies don't occur by schedule," Resha said. "And emergency service we provide is in the area of AER (Army Emergency Relief), Total Tots, and food locker."

Staff members Paddock and Howard are both Army spouses who had worked together at ACS in Germany before arriving here in 1987. "I've been with ACS about eight or 10 years," said Howard, whose husband has been in the Army 20 years. "The changes I've seen include the professionalism of services that are provided, and the expansion of services that are provided." Her husband, 1st Sgt. Roger Howard, is due to arrive July 23 after a year in Korea.

"ACS has earned credibility in providing the services," said Paddock, whose husband, Joe, is a lieutenant colonel. "I really think that commanders rely on our services and expertise in helping them and helping their soldiers and family members."



SUPPORT TEAM — The Sheltons posed for this family portrait in 1986. From left are Yutta, Bryan, Regina, Nathaniel Jr. and Nathaniel Sr. Not pictured is Mark.

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Rockwell International in running for anti-satellite contract

The Department of the Army has announced the selection of Rockwell International Corp., El Segundo, Calif., for final negotiations leading to a definitive contract to design and produce a kinetic energy anti-satellite system.

The KE ASAT Joint Program Office, funded by Department of Army, is collocated with the U.S. Army Strategic Defense Command in Huntsville, receiving Strategic Defense Initiative funding, to take advantage of the established support structure and expertise in developing technology for ground-based kinetic energy interceptors.

The previously approved Defense Acquisition Board acquisition strategy authorized the award of up to two prime contractors for the demonstration/validation and tactical design phase of the program. However, the selection of a second contractor to provide competitive prototyping was subsequently determined not to be cost effective nor to be in the best interest of the government. It is anticipated that, in fiscal 1991 and fiscal '92, approximately \$110 million will be saved by this action.

This Phase I contract of approximately \$100 million is to be performed over 24 months. The effort will pro-

ceed through a critical design review and culminate in a test program to resolve engineering, integration and operational issues.

The Army was designated lead service for a joint program designed to develop a land-based kinetic energy weapon system, including the missile kill vehicle, launcher and associated weapon control and support systems. The overall objective of the program is to define, develop and field an ASAT system designed to deter ASAT attacks against friendly space systems and negate high-threat enemy satellites as directed by the National Command Authority.

Steam test ends late due to unacceptable reading

The roar of steam which assailed the ears of many Redstone workers was supposed to end Sunday, but it was louder than ever Monday morning.

By Tuesday, however, the steam and the noise had been shut off after a final test for dissolved solids proved to be within acceptable limits.

The steam "volcano," as some people referred to it, had been blasting away since early June, the end product of steam line testing for Huntsville's new garbage-fired incinerator.

Since it's summer, there was no place for the steam to go but out, according to Willie Caraway of RASA's Directorate of Engineering and Housing.

The monthlong discharge of steam was beginning to get on some peoples' nerves, prompting calls to Caraway's office. After assuring everyone the steam would be turned off Sunday, he was dismayed to hear the roar when he arrived at work Monday.

"When I heard it, I almost got back in my car and left," he said.

According to Eddie Coker, executive director of Huntsville's Solid Waste Authority, an unacceptable test reading accounted for the extended steam ventilation time.

"Our contractor, Ogden Martin Systems, guaranteed that it would meet the steam purity component outlined by the Army," Coker said.

"During 28 days of testing we ran four separate tests for purity. One turned up high in dissolved solids," he said.

It was unclear at first whether the sample was bad or if there were dissolved solids in the line.

Another test was planned for Monday, the results of which were to determine whether or not the steam could be turned off.

The results were within the limits for dissolved

solids, and the steam plant is now on line, according to Coker.

The previous sample had been contaminated in some way, according to Coker.

"The best we can determine, it got a drop of sweat in it," he said, adding that dissolved solids are measured in parts per billion.



BASIC NCO COURSE — Test Measurement and Diagnostic Equipment maintenance support specialists arrive at the Ordnance Missile and Munitions Center and School for their Basic Noncommissioned Course, which was recently changed over to the Ordnance Corps from the Signal Corps. This change is part of a three-year plan to transfer proponentcy of TMDE from the Signal Corps to the Ordnance Corps.

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Letters

(Cont'd from page 2)

a United States citizen. It has, and will continue to pay off.

At age 31, you may think it's too late; but it's never too late for a career change. As long as you are advancing up, they say the sky is *not* the limit.

I am the oldest of three brothers: Jimmy Grullon, 25, is a mechanical engineer for El Morro Corrugated, San Juan, Puerto Rico; Anthony Grullon, 15, will begin his second year of high school this fall. My mother is a sales representative for Madrid Jewelry, a large jewelry firm in San Juan; and my father is a chief steward for a leading hotel in the metropolitan area of San Juan.

I married Felicia Martinez, a public accountant, on Dec. 23, 1983. We have one son, Bryan R., 4.

I am very fortunate to have a concerned NCOIC, SFC Michael Whitmarsh, who looks after his soldiers and is always there to lend a helping hand. He has always encouraged me to succeed in life as an individual and most of all as a soldier. If it wasn't for him I wouldn't have won the Soldier of the Month in May 1990, and been awarded the Army Achievement Medal.

I wish to encourage every soldier to succeed in their educational goals to meet the standards of our future Army. The Army of tomorrow requires a highly trained, educated, and high-quality soldier in order to meet the demands of tomorrow.

To conclude I would like to thank Col. Snyder, Lt. Col. LaFond, and last but not least Maj. Sue Willis, to whom I will be eternally grateful. Thanks to all for your support and faith.

Reynaldo Grullon

biases. I am referencing the letter entitled "Quality time" (July 11 *Rocket*) and the attack from within concerning an alleged "government subsidized daycare program" at the TMDE Support Group. Had there been any truth to this accusation, this employee would have surely had courage of conviction sufficient to sign the letter. Moreover, the employee would have approached this issue in a more professional manner with the appropriate audience.

This letter is written absent the intent to dignify the accusation with wordy defenses. There is nothing to defend since the accusation is a blatant lie. Instead, we challenge you — our disgruntled fellow employee at building 5435 — master your emotions, use your unlimited brain power more productively, bring enthusiasm and creativity to your work environment. With a different outlook on life, maybe you could learn to enjoy the infrequent visits of nature's greatest miracle at your workplace. After all, *you were once one of them.*

Glenda Winston,
Robert Marcus, and
Terry Bainbridge

Caring organization

Editor:

Reference letter "Quality time" in the *Redstone Rocket*, July 11.

The U.S. Army Test, Measurement, and Diagnostic Equipment Support Group (USATSG) enjoys the reputation of a compassionate organization that is interested in the welfare of its people. Consequently, there have been a few short visits to the workplace by children or grandchildren of members of the USATSG family. In most cases, there were emergencies involving single working parents which were of concern to those of us aware of the circumstances. I can recall no case where children created any sort of disruption. We don't run a day care center at USATSG, but our concern for our soldiers and civilians has paid high dividends in terms of morale which is evident in our superior mission performance.

Frank G. Westmoreland
Deputy to the Commander
Army TMDE Support Group

Ground-Based Radar receives approval

The Defense Acquisition Board has approved the Ground-Based Radar for Milestone I of the acquisition process and for inclusion in the Phase I architecture of a Strategic Defense System (SDS).

The GBR project, which is managed by the U.S. Army Strategic Defense Command for the Strategic Defense Initiative Organization, will now progress from the research phase to the demonstration/validation phase.

The baseline concept for the GBR SDS Phase I element is a single-faced, rail-mobile, x-band, phased array radar. As an element of the Phase I SDS, the GBR would provide surveillance, acquisition, tracking and discrimination in the midcourse and terminal segments of a ballistic missile trajectory.

The purpose of the GBR demonstration and validation phase is to evaluate required basic technologies and test the feasibility of GBR as an element within the

potential strategic defense system through analysis, experimentation and simulation. All test and evaluation activities planned for Phase I will comply with all U.S. treaty obligations including the 1972 Anti-Ballistic Missile Treaty.

To functionally test the radar, an experimental prototype unit will be built and tested at the U.S. Army Kwajalein Atoll in the central Pacific. The test model, GBR-X, will have a dual field of view antenna design — one will be a limited field of view for long ranges and the other one a full field of view for shorter ranges. The antenna will be capable of mechanically rotating in azimuth and elevation.

After completion of that phase, the GBR-X — which will not physically resemble the tactical version, but will functionally validate it — at Kwajalein Atoll would continue to be used as a range asset to support follow-on SDS testing.

Different outlook

Editor:

It's unfortunate when the reputation of an organization suffers from an employee who wishes to fan a flame of dissatisfaction. An employee who allows the mind and heart to stagnate, rot, and die due to the inability to master personal anxieties. An employee who allows otherwise unlimited potential to shrink from a mountain to a grain of sand because of personal

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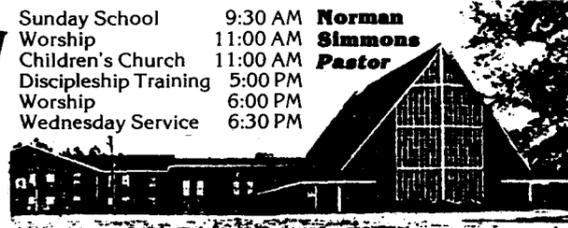
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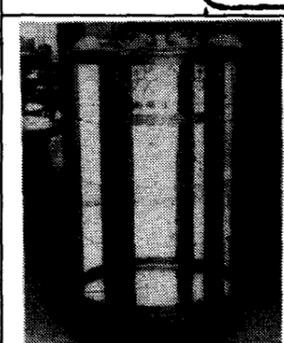
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Paper-mache animals decorate children's center

A giraffe is grazing peacefully amid the flowers in the atrium near the entrance of the Child Development Center.

No, it isn't a real giraffe. But it sure looks like one at first glance.

The paper-mache giraffe, brown and beige in color, was built by the children of the School-Age/Latch Key Program. "He ought to last a little while," said Shirley Mohler, supplemental programs and services director for Child Development Services.

It stands about as tall as Mohler is, 5-6. Nearby are smaller paper-mache animals built by younger children. "The other animals were (done) by the preschool; I think the 3-year-olds," Mohler said. "They got all interested in watching us do the giraffe and they started doing their own project."

The giraffe was built under the direction of Mary Himes, the school-age/latch key program specialist. It took about a month to construct. The youngsters worked an hour here, an hour there — adding layer after layer of paper-mache.

"You should've been here the day after it was built. The parents thought it was real. They had a ball," Mohler said.



FUN ANIMALS — School-age children with the paper-mache animals are, from left, Corey Jones, Tairon Payne, Mary Hutto and Brentt Trammell.



TEAMWORK — PFC Charles Brandon holds his son Zeke as they wash a car during a car wash conducted by soldiers of logistics maintenance branch, missile maintenance section B, Ordnance Missile and Munitions Center and School.

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Local wildlife group plans annual get-together Friday

The Redstone Arsenal community is invited to an annual event Friday sponsored by a local conservation organization.

Madison County Wildlife and Conservation Association will have its eighth annual fish fry and barbecue 7 p.m. Friday at Ditto Landing. Social hour is set for 6-7.

MCWCA is "a part of the Alabama Wildlife Federation, and we have major objectives in conservation of non-game wildlife and support of the wildlife habitat area," said Charlie Stroud, a member of the group's board of directors.

Activities of MCWCA include support of the Lake Rosemary Waterfowl Refuge in Huntsville. "We also take on projects in Huntsville; for example, last year we built a bridge down at Brahan Springs so the little kids could go fishing. And then we've contributed over the years over \$15,000 to the Alabama Wildlife Federation which is the state group," Stroud said.

The group met in October 1925 and elected as its first president E.F. Allison, an Army colonel from Bellamy, Ala. Its initial concerns included "the lack of awareness of the needs of living resources because of habitat destruction, soil erosion, and uncontrolled

hunting," said Stroud, who has been active with MCWCA since 1962. Coy Madison is president of the association which has about 200 members.

"It's to support the conservation of wildlife habitat and to support the increases in the non-game wildlife in Alabama," Stroud said.

Friday's annual get-together and fundraiser is "a chance for the area outdoorsmen to meet state officials and the area game and fish people," he said. Officials scheduled to field questions from attendees include Jim Martin, commissioner of the Alabama Department of Conservation and Natural Resources; and Doug Schofield, director of the Alabama Wildlife Federation.

Tax deductible tickets are \$12.50 each for the event at the Ditto Landing pavilion. The evening's schedule includes social from 6-7, buffet at 7, and the informal program ending just after dark which will be 8:30 or 9. Tickets are available on post at Outdoor Recreation. For more information call Bobby Deneefe 533-4994 or Stroud 883-3511.

"We think that this is one big community as far as the environment is concerned," Stroud said.



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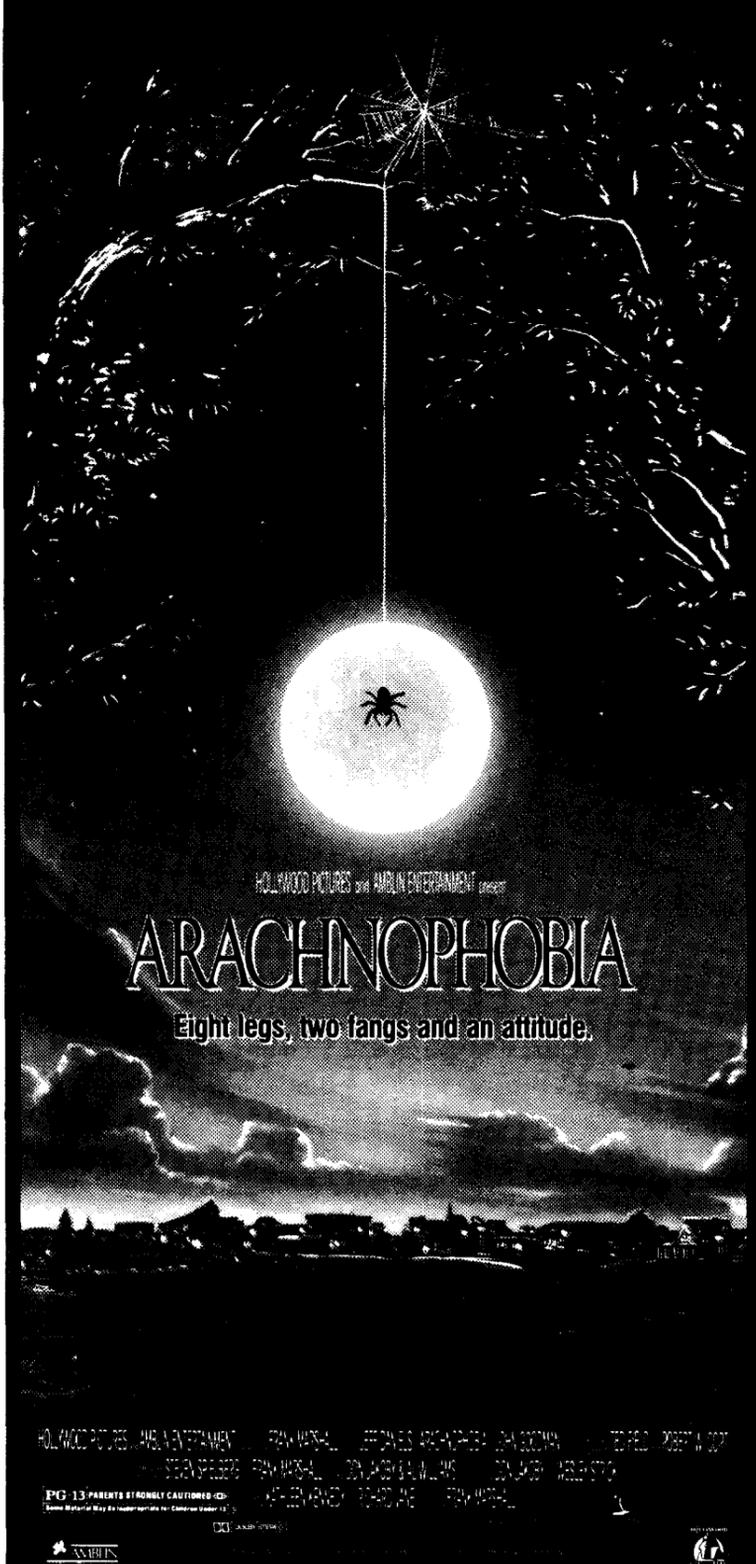
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Missile Command chemist grows heart-shaped sunflower

Redstone's longtime chemist who has been written up in Ripley's "Believe it or not" for his proficiency at growing sunflowers is at it again.

Dr. Tin Boo Yee has grown a triangular sunflower



SUNFLOWER MAN — Yee grew these sunflowers, about 8-feet tall, in front of building 7103.

in front of the materials laboratory, building 7103, where he works. The normal shape for a sunflower is round.

Last year Yee exposed a sunflower seed to an X-ray machine for one minute. The seed grew into a triangular-shaped sunflower, but Yee didn't think much about it. This year he took a seed from that sunflower, planted it, and produced another triangular sunflower.

"I'm going to submit it to Ripley's 'Believe it or not' again. I hope they will use it; I believe they will," Yee said.

A May 22, 1983 entry in Ripley's comic strip, published in newspapers worldwide, stated the following: "A sunflower developed with cobalt-60 source, crossed pollination and laser energy by Tin Boo Yee of Huntsville, Ala., in 1982, has 110 flowers on one plant."

Yee, a chemist in Structures Directorate, has been working for the Army here since 1942. "Every year you see my flowers for the past 20 years. Every time somebody see sunflower, they say that's Tin Boo Yee there," Yee said.

He hopes his latest product will get the attention of the National Aeronautics and Space Administration. A seed company supplied 12 million tomato seeds to NASA for a ride aboard the Long Duration Exposure Facility, or LDEF, orbiting laboratory that was launched in 1984.

"I want to send a message to NASA. They send 12 million tomato seeds. Up to now, they see no mutation," Yee said. "We have a mutation with just one seed."



TRIANGULAR SHAPE — The seed for this heart-shaped sunflower came from a similar plant Yee grew last year. The seed for last year's plant was exposed to an X-ray machine.

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TOP VISITOR — Ambassador Robert G. Joseph (seated), U.S. commissioner to the U.S.-U.S.S.R. Standing Consultative Commission in Washington, D.C., visited the U.S. Army Strategic Defense Command on July 9. The command's arms control-treaty adviser, Dr. Thomas Patton (at left), hosted the distinguished visitor who received a command overview from Dr. William O. Davis (at right), USASDC's technical director, and various briefings on the command's ongoing ballistic missile defense projects.

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COURSE TITLE & COURSE NO.	DATES	DAYS	TIME	FEE
SCIENCE AND ENGINEERING				
Workshop on Numerical Optimization Methods and Applications PD3135-01	Oct 15 - 18	Mon - Thurs	8 a.m. - 5 p.m.	\$775
Integrated Configuration Management PD3136-01	Oct 22 - 26	Mon - Fri	8 a.m. - 5 p.m.	\$695
Lasers in Industry: A Technical Assessment of the Required Infrastructure PD3134-01	Nov 12 - 16	Mon - Fri	8:30 a.m. - 4:30 p.m.	\$950*
How to Plan, Estimate, and Schedule Maintenance PD3137-01	Dec 3 & 4	Mon & Tues	8 a.m. - 5 p.m.	\$495
NONDESTRUCTIVE TESTING SERIES				
Liquid Penetrant Level I-II PD3131-01	Oct 17 - 19	Wed - Fri	8 a.m. - 5 p.m.	\$775
Magnetic Particle Level I-II PD3132-01	Oct 22 - 24	Mon - Wed	8 a.m. - 5 p.m.	\$775
Radiography - Film Interpretation PD3133-01	Nov 5 - 9	Mon - Fri	8 a.m. - 5 p.m.	\$775
MANAGEMENT DEVELOPMENT				
CONTRACT MANAGEMENT CERTIFICATE PROGRAM				
Principles of Subcontract Management PD6100-02	Oct 16, 23, 30, & Nov 6	Tuesdays	6 - 9 p.m.	\$280*
Cost Accounting Standards and Principles PD6103-02	Nov 13 & 20	Tuesdays	6 - 9 p.m.	\$140*
Financial Management of Government Contracts PD6104-02	Dec 4 & 11	Tuesdays	6 - 9 p.m.	\$140*
SUPERVISORY DEVELOPMENT CERTIFICATE PROGRAM				
Principles of Supervision PD6040-10	Sept 24 - Nov 26	Mondays	8:30 - 11:30 a.m.	\$295*
Principles of Supervision PD6040-11	Sept 24 - Nov 26	Mondays	6 - 9 p.m.	\$295*
FOCUS ON COMMUNICATION				
Effective Briefings: The Advanced Course PD6105-02	Oct 15 - 19	Mon - Fri	8 a.m. - 2 p.m.	\$525
Writing to Government Standards: The GPO Style Manual PD6052-04	Nov 14	Wednesday	8:30 a.m. - 4 p.m.	\$145
MANAGERIAL SKILL BUILDERS				
Practical Business Law PD6130-01	Oct 3	Wednesday	8:30 a.m. - 4 p.m.	\$195
Project Planning and Control: Computer-Based PD6128-01	Oct 10 - 12	Wed - Fri	8:30 a.m. - 4 p.m.	\$595
Cost Estimating for Industry PD6127-01	Oct 23 - 25	Tues - Thurs	8:30 a.m. - 4 p.m.	\$795
Managing a Family-Owned Business PD6129-01	Nov 1	Thursday	8:30 a.m. - 4 p.m.	\$195
Managing in the 90's: Current Issues in the Workplace PD6069-02	Nov 2	Friday	8:30 a.m. - 4 p.m.	\$195
Technical People as Successful Managers PD6086-03	Nov 7 & 8	Wed & Thurs	8 a.m. - noon	\$195
COMPUTER APPLICATIONS				
MICROCOMPUTER FUNDAMENTALS				
Intro to IBM PCs and Compatibles PD0064-21	Oct 29 - Nov 8	Mon - Thurs	6 - 8 p.m.	\$275 ✓
Intro to IBM PCs and Compatibles PD0064-22	Dec 3 - 6	Mon - Thurs	8 a.m. - noon	\$275 ✓
Personal Computer Overview PD0007-39	Nov 28 - 30	Wed - Fri	1 - 3:20 p.m.	\$135 ✓
OPERATING SYSTEM				
MS-DOS PD0001-29	Oct 29 - Nov 2	Mon - Fri	8 a.m. - noon	\$325 ✓
MS-DOS PD0001-30	Nov 26 - Dec 6	Mon - Thurs	6 - 8:30 p.m.	\$325 ✓
Advanced MS-DOS PD0136-02	Nov 13 - 15	Tues - Thurs	8 a.m. - noon	\$225 ✓
UNIX PD0067-04	Oct 2 - 25	Tues & Thurs	6 - 8:30 p.m.	\$395*
WORD PROCESSING AND DESKTOP PUBLISHING				
Intro to WordPerfect PD0027-14	Oct 22 - 24	Mon - Wed	8 a.m. - 12:20 p.m.	\$295 ✓
Harvard Graphics PD0137-01	Dec 10 - 14	Mon - Fri	8 a.m. - noon	\$395 ✓
CAD/CAM				
AutoCAD PD0075-09	Nov 5 - 9	Mon - Fri	8 a.m. - noon	\$495
ELECTRONIC SPREADSHEETS				
Intro to Quattro Pro PD0138-01	Sept 17 - Oct 2	Mon, Tues & Thurs	6 - 8:30 p.m.	\$395 ✓
Intro to Excel for Windows PD0130-04	Oct 9 - 12	Tues - Fri	8:30 a.m. - 2:30 p.m.	\$395 ✓
Beginning Lotus 1-2-3 PD0005-59	Oct 15 - 25	Mon - Thurs	6 - 8:30 p.m.	\$395 ✓
Beginning Lotus 1-2-3 PD0005-58	Nov 26 - 30	Mon - Fri	8 a.m. - noon	\$395 ✓
Intermediate Lotus 1-2-3 PD0047-15	Oct 17 - 19	Wed - Fri	8 a.m. - 12:20 p.m.	\$295 ✓
Advanced Lotus 1-2-3 PD0006-14	Oct 25 & 26	Thurs & Fri	8:30 a.m. - 4 p.m.	\$295 ✓
DATABASE MANAGEMENT				
Intro to dBase III Plus PD0002-32	Oct 1 - 11	Mon - Thurs	5:45 - 8:45 p.m.	\$395 ✓
Intro to dBase III Plus PD0002-33	Nov 12 - 16	Mon - Fri	8 a.m. - noon	\$395 ✓
Intro to dBase IV PD0124-03	Dec 3 - 7	Mon - Fri	8 a.m. - noon	\$395 ✓
TECHNICAL COMPUTER COURSES				
PC Troubleshooting PD0080-16	Oct 15 & 16	Mon & Tues	8:30 a.m. - 4 p.m.	\$425
PC Troubleshooting PD0080-15	Nov 26 - 29	Mon - Thurs	5:45 - 9 p.m.	\$425*
Applied Data Communications and Networking PD0020-07	Oct 29 - Nov 2	Mon - Fri	8 a.m. - noon	\$395
COMPUTER LANGUAGES				
"C" Programming PD0010-23	Oct 22 - Nov 8	Mon - Thurs	6 - 8:30 p.m.	\$595*
Advanced "C" Programming PD0012-05	Nov 26 - Dec 13	Mon - Thurs	6 - 8:30 p.m.	\$595*
ADA Programming PD0061-09	Oct 22 - Nov 1	Mon - Thurs	8:15 a.m. - noon	\$595*
APPLE MACINTOSH COURSES				
Intro to the Apple Macintosh PD0016-45	Nov 8	Thursday	8:30 a.m. - 4 p.m.	\$195
Intro to the Apple Macintosh PD0016-46	Dec 4	Tuesday	8:30 a.m. - 4 p.m.	\$195
Microsoft Word on the Apple Macintosh PD0079-25	Nov 13 & 14	Tues & Wed	8:30 a.m. - noon	\$195
Advanced Microsoft Word on the Apple Macintosh PD0090-02	Oct 17	Wednesday	8:30 a.m. - 4 p.m.	\$195
Intro to Excel on the Apple Macintosh PD0058-17	Oct 9 - 12	Tues - Fri	8:30 a.m. - 2:30 p.m.	\$395*
DESKTOP PUBLISHING ON THE APPLE MACINTOSH				
Presentation Graphics PD0060-12	Oct 20	Saturday	9 a.m. - 4:30 p.m.	\$195
Presentation Graphics PD0060-14	Dec 7	Friday	8:30 a.m. - 4 p.m.	\$195
Desktop Publishing PD0026-29	Oct 23 & 30	Tuesdays	8:30 a.m. - 12:30 p.m.	\$295
Desktop Publishing PD0026-30	Dec 11 - 13	Tues - Thurs	8:30 a.m. - 12:30 p.m.	\$295
Drawing with the Apple Macintosh PD0115-05	Oct 2 & 3	Tues & Wed	8:30 a.m. - 12:30 p.m.	\$225
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515th marksmen win trap-skeet league at Redstone

A team from 515th Ordnance Company shot its way to the post championship in trap and skeet.

The 515th team was first of the five squads which participated the trap and skeet league held during June Outdoor Recreation. The champs scored 630 points out of a possible 800.

Second place went to C Company, 73rd Ordnance Battalion with 614. The A Company, 73rd Ordnance team placed third with 487. The other two participating teams represented the Marines.

Spec. Keith Otterstatter of 515th was the top trap shooter with 80 points out of 100. Lt. Col. Norman Lindsey of C Company, 73rd won the individual skeet award with 92 out of 100.

Members of the winning team included Otterstatter, CWO 2 Harry Kallies, CWO 3 Jim Campbell, SFC George Harris, Sgt. Mike Formentini and Spec. Charles Sale.

Bill Moreland, director of Outdoor Recreation, presented trophies Friday to the winners.



TOP GUNS — From left are Otterstatter, Harris, Kallies, Formentini and Sale.



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Association of U.S. Army lists critical issues for 1990

The annual membership campaign for the Association of the United States Army began July 5 and continues to Aug. 3.

AUSA, the "voice of the Army family," is dedicated to serving the needs of active, retired and reserve military, civilians and family members.

According to an AUSA pamphlet, the following are critical issues the association is addressing in 1990:

- Elimination of cost of living freeze for military and federal civilian retirees, and the COLA-minus-1 in the out years.
- Protection of current tax treatment of benefits and eligibility for earned income tax credit for soldier families serving overseas.
- Permit the Army to plot a sensible course toward a smaller force structure at a rate and in a fashion which will treat soldiers and civilian employees fairly, conserve resources and preserve our defenses in the best way possible.
- Support separation pay for the Army's career NCO force.
- Support immediate passage of Reserve Officers Personnel Management Act.
- Provision for full funding for active duty and

retired personnel and their families for a comprehensive worldwide health and dental care program as well as funding for a Champus \$3,000 out-of-pocket catastrophic cap for military retirees.

- Restoration of Army health care to level which meets readiness requirements and reduces Champus obligations.
- Opposition to the initiation of user fees for retirees

and family members of active duty personnel at medical facilities.

- Support for on-post child care facilities for civilians and military personnel.
- Eliminate user fees at military medical facilities for civilian employees and their families serving overseas.
- Urge Congress to approve a two-year budget cycle for the federal government.

Troop softball

Here are the troop softball standings as of July 16:

Eastern Division		Won	Loss	Western Division		Won	Loss
515th		11	1	HHC		10	4
C Company 73rd		11	2	95th		8	4
A Company 73rd		10	2	B Company 832nd		8	5
Navy		7	8	B Company 73rd		8	6
C Company 832nd		6	9	MEDDAC		7	6
291st MP		2	14	Marines		6	5
				D Company 832nd		4	10

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Heat

(Cont'd from page 4)

the sun's rays, the danger of sunburn is increased at such places as the beach or lake.

Roche said everyone who spends extended time outdoors is subject to heat injury, the healthy as well as the unhealthy. However, people who are on medication, overweight, under the influence of drugs or alcohol or people who are ill are more prone to heat injuries.

"Sometimes people are so intent on accomplishing the mission or engaging in a recreational activity that they forget to take care of themselves," he said.

Six heat exhaustion cases were admitted to Fox Hospital during June, Roche said. Armywide, many heat injury cases occur each year; there were 399 last year.

Exercise caution

Roche suggests using common sense about being outdoors during the hottest part of summer. He advises joggers to exercise either early or late in the day. The hours from 10 a.m. to 3 p.m. pose the greatest danger from sun and heat.

Wearing proper clothing and the use of sunscreens are also suggested.

Two measures Fox Hospital is using to educate soldiers to the dangers of heat are notices in the Daily Bulletin and slide presentations with lesson plans that company commanders can take to their unit for educational purposes.

"This (heat injury) is an issue that's so important that it's included in the Soldiers Manual of Common Tasks," Roche said.

Caution and common sense are needed to avoid heat injury, he said.

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DATES: MW Sessions Sept. 5-Oct. 29; TT sessions Sept. 4-Oct. 25; Sat. sessions Sept. 8-Oct. 27.

REGISTRATION: Continuous through first session. Reservations are required (telephone 837-9726 or 837-9769).

FEES: Full-term 300/600 level: \$300 tuition per course plus \$5 registration, or as noted. 700-level: \$150 per credit. Application (one-time): \$5 special (non-degree); \$25 regular. Textbooks additional.

FINANCIAL ASSISTANCE: Approved for tuition assistance from most governmental and industrial organizations; limited VA assistance. Half-tuition scholarships are available from Southeastern for qualified attendees. NOTE: Most training offices require assistance requests 30 days prior to course start.

INFORMATION: Telephone (205) 837-9726/837-9769 or write P.O. Box 1485; Huntsville, AL 35807.

11-571 RADAR SYSTEMS MW 4:30-6:40 p.m.
An introduction to the theory and applications of modern radar systems. Background: basic knowledge of signals and systems. Instructor: Stephen M. Gilbert, Ph.D.; Consultant.

11-581 DIGITAL SIGNAL PROCESSING TT 4:30-6:40 p.m.
A study of signal processing, with an emphasis on discrete-time techniques. Background: basic knowledge of signals and systems. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.

14-506 AERODYNAMIC PRINCIPLES TT 6:50-9:00 p.m.
An introduction to aerodynamics, emphasizing low-speed, incompressible flow. Background: basic knowledge of fluid-thermodynamics and differential equations. Instructor: Terry F. Greenwood, Ph.D.; NASA/MSFC.

14-551 DYNAMIC SYSTEM SIMULATION TT 4:30-6:40 p.m.
A study of interactive, dynamic-system simulation using personal computers. Background: knowledge of programming and differential equations. Instructor: Maurice M. Hallum, III, D.Sc.; Consultant.

17-504 COMPUTER ORGANIZATION MW 6:50-9:00 p.m.
An introduction to the organization and assembly programming of computers. Background: basic knowledge of programming and computers. Instructor: J. B. White, Ph.D.; USBI.

17-512 SYSTEM SOFTWARE TT 6:50-9:00 p.m.
An examination of assemblers, loaders, macro processors, compilers, and operating systems. Background: knowledge of programming and computers. Instructor: Robert R. Covelli, S.M.; Consultant.

17-522 ADA SOFTWARE TT 4:30-6:40 p.m.
A study of the Ada programming language and its use in large-scale software development. Background: knowledge of structured programming; Pascal desirable. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

24-532 DECISION ACCOUNTING MW 4:30-6:40 p.m.
An examination of accounting information for managerial decision-making. Background: basic knowledge of accounting desirable. Instructor: Richard H. Shuford, Jr., D.B.A.; Consultant.

24-552 GOVERNMENT CONTRACTS MW 6:50-9:00 p.m.
An introduction to contracting by and with the Federal government. Background: basic knowledge of contracts desirable. Instructor: Eugene R. Andrzejewski, M.B.A.; Teledyne Brown Engineering.

27-501 ENGINEERING ECONOMICS TT 6:50-9:00 p.m.
An introduction to economic considerations in engineering-related decision making. Background: basic knowledge of quantitative methods. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Institute of Technology.

27-663 CRITICAL TECHNOLOGIES MW 6:50-9:00 p.m.
An examination of technologies of critical national importance. Background: basic knowledge of science and technology. Instructor: Dean F. Cornwell, Ph.D.; W. J. Schafer and Associates.

31-504 QUANTITATIVE METHODS/CALCULUS Sat 8:00-12:00 noon
A survey of mathematical methods, including elementary calculus, for applications in management. Background: knowledge of college algebra. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Institute of Technology.

34-542 LASERS AND PHOTONIC SYSTEMS MW 4:30-6:40 p.m.
An introduction to lasers and systems using electronic/photonic devices. Background: basic knowledge of optics. Instructor: Alphonsus J. Fennelly, Ph.D.; Teledyne Brown Engineering.

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The DoD Software Engineering Institute has recently announced a recommended curriculum for advanced software engineering. The M.Sw.Eng. degree program from Southeastern fully conforms to this recommendation and prepares persons to assume positions of major responsibility in this field.

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

Announcements

YMCA soccer camp

Southeast Huntsville YMCA, located at 1000 Weatherly Road, is taking registration for the first of what is to become a yearly soccer camp. The camp will be conducted by Pete Needham, a former English goalie, along with various local high school coaches. Half-day and full-day sessions will be held July 30 through Aug. 3 at the Southeast Y. Registration deadline is July 29. For more information, call 881-8710 or stop by the Southeast Y.

ACS news

Exceptional Family Member Program: Do you have a family member who has a learning disorder, physical or mental disability? You may qualify for the EFMP. For more information, call the family service program coordinator at Army Community Service 876-2859/5397.
Information/Referral Follow-Up Program: The ACS Information/Referral Service provides a vital link for the military family to military and civilian agencies; for information call ACS 876-2859.
Newcomers' Orientation: The Newcomers' Orientation is scheduled for 9-11:30 a.m. Aug. 6 at the Youth Center, building 3148. Active-duty personnel and family members are encouraged to attend. Free child care is provided on site. For more information, see your unit point-of-contact or call ACS family service coordinator 876-2859. *Are you going overseas with school-age children?* If so, you need information on Department of Defense dependent schools. Army Community Service has a school information guide for 1990-91; for information call 876-2859 and ask for the family service program coordinator or "information and referral."

Chapel events

A *Sacred Art Exhibition* will be sponsored by the Office of the Chaplain July 21-27 at Bicentennial Chapel. The works of art may be viewed in the Activity Room from 8-4:30 daily, and from 7-9 each evening. *Bible study* for women will be held 9 a.m., July 25 to Aug. 29 at Bicentennial Chapel; the topic will be "Victory Over Death"; for information call Carole 895-0729.



Comptroller careerists

A MICOM Automated Career Appraisal and Referral System (MACARS) panel for Comptroller, career program 11, will be held in September for CP-11 career field grades GS-11 and GS-12. Any initial submissions, changes or updates should be sent to AMSMI-RM-MS, building 5250, room A-304 (original and three copies) by Aug. 17. In accordance with a Civilian Personnel bulletin, careerists should not request a rating higher than a "demonstrated/potential 3." For more information, call 876-6188. *Schedule of DA accomplishment rating sessions for CP-11 careerists:* Department of Army has announced a tentative schedule for CP-11 careerists (GS-12 and above) to submit initial registration packages or to submit changes/updates from the July 1990 submission. The schedule is as follows: DA rating session December 1990, suspense to AMSMI-RM-MS Oct. 24; DA rating session March 1991, suspense to AMSMI-RM-MS Jan. 23; DA rating session June 1991, suspense to AMSMI-RM-MS April 24. Registration packages received after these suspense dates will not be rated until the next session. Careerists must be in current grade nine months as of Nov. 14 for the December session, Feb. 13 for the March session, and May 15 for the June session. For more information, call 876-6188.

NCO wives

The NCO Wives Club will hold its monthly meeting tonight at 7 in the Redstone room of the Challenger NCO Club. For more information, call Judy Fredrich 828-6885.

Performance managers

Huntsville Chapter of Performance Management Association (PMA) will have a general membership meeting Thursday, July 19 at the Officers Club. Social begins at 5 p.m. with the meeting at 5:30. For more information, call Jim White 876-9521 or Debbie Christian 895-4927.

Multicrafts

Here's the Multicrafts Center schedule for next week. July 24, *Small sliding book rack woodworking project*, 6 p.m.; *Hexagon mat cutting workshop*, 6 p.m.; July 25, *Fabric applique and painting workshop*, 6:30 p.m.; July 26, *Glass etch class*, 6:30 p.m.; July 27, *Make-it-and-take-it applique demonstration*, 11 a.m.; July 28, *Petal porcelain finale*, 9:30 a.m.; *June's open painting workshop*, 10 a.m.; *youth T-shirt decorating*, 2:30 p.m.; *Oval mat cutting workshop*, 2:30 p.m. For more information on classes or services, call 876-7951 or visit the center in building 3615 at the intersection of Vincent Drive and Gray Road. The center is open to all active duty and retired military members, all government civilian (including NASA) workers, family members and guests.



Education center

The Education Center says it is receiving numerous calls asking about VA educational benefits (Montgomery GI Bill, VEAP, and New GI Bill). "The education counselors cannot answer a question over the phone because there are various contracts and too many factors involved. All personnel need to bring in a copy of their VA contracts to determine eligibility. It is a mandatory requirement that every soldier leaving the service (ETS, chaptered out, or retiring) receive a briefing on their VA educational benefits. Bring a copy of your VA contract when outprocessing. Your cooperation in this matter will save you from making an additional trip," stated a news release from the center.

Child care services

The *Child Development Center* has openings in the full-day infant program for military family members 6 weeks to 12 months of age. For more information, call 876-2752. The *Family Child Care (FCC)* program has openings for military and federally employed civilians for children 4 weeks to 12 years of age; for information call 876-7880.

Commissary comments

The commander of Army commissaries, Brig. Gen. St. Arnaud, wants to know what you think about your Commissary. To make it easy for you to tell him, the Commissary is participating in the "At Your Service" program from July 1 through Oct. 31. At Your Service is an Army commissary consumer relations program that, through comment cards, allows customers direct access to the commander, U.S. Army Troop Support Agency. The commander personally responds to each writer who includes his or her name and address. This program enables Arnaud to know whether the commissary system is responding to your needs and to implement better ways of serving you. It also allows you to tell him what's being done right, too. Look for the At Your Service display poster located in the Commissary on your next shopping trip and let him hear from you.

Tall club

Rocket City Tall Club, a social organization to promote friendship and fellowship among tall people, meets at 5:45 p.m. Wednesday at T.P. Crockmier's, 2006 Country Club Drive. For information call 837-3994.

Movies

Here's the Post Theater schedule; starting times are 7 p.m.: Thursday, July 19 — *Lisa*, rated PG-13, 94 minutes. Friday, July 20 — *Spaced Invaders*, PG, 100 minutes. Saturday, July 21 — *Back to the Future III*, PG, 120 minutes. Sunday, July 22 — *Back to the Future III*. Tuesday, July 24 — *Back to the Future III*. Admission is \$1.50 for adults, \$1 for children.

Support groups/classes

The *Waiting Wives Support Group* will meet 6:15 p.m. July 26 for a dinner at the Officers Club; for reservations for a free dinner and free child care, call Bonnie Gamino 876-2409. *Parenting classes* are being organized at Army Community Service; the next session starts Tuesday, Aug. 21 and the eight-week classes are free to active or retired military and Redstone Arsenal civilians; for more information, call Virginia Dempsey 876-5397. *Stress management class:* A five-week stress class is being offered on Wednesdays starting at 5 p.m. July 25; the program is open to active or retired military and Redstone Arsenal civilians; call Virginia Dempsey of Army Community Service 876-5397/2859. *Foster parents:* The quarterly meeting of the Foster Parents' Support Group will be held 2 p.m. July 23 at Army Community Service; for information about the meeting or becoming a foster parent, call Sal Riccardi at ACS 876-5397/2859.



Nurses employment

The MICOM Civilian Personnel Office has direct hire authority for clinical nurses, registered nurses, for job-sharing, rotational shifts, at Fox Army Community Hospital. For more information call Dollie Waters 876-2304.

Vehicles auction

U.S. government vehicles will be auctioned 9 a.m. Tuesday, Aug. 7 at Redstone Arsenal. The General Services Administration "Auction of Vehicles" will be held at the GSA Sales Lot, building 3631. Vehicles may be inspected from 8 a.m. to 2:30 p.m. Aug. 6, and from 8-9 Aug. 7. For information call 876-4067/1021.

Singles seminar

A "Victorious Christian Living Singles Seminar" will be held Saturday, July 28 at First Baptist Church, 600 Governors Drive. To register, call Madison Baptist Association 536-0015 by July 23.



Youth center

Here's the Youth Center schedule for this week. Today, *Reading*, 10 a.m. to noon; *Checker contest*, noon; *Mystery bingo*, 1:30 and 6:30 p.m.; July 19, *Putt-Putt golf*, 10 a.m.; *Arts and crafts*, 10:30 a.m.; *Win, lose or draw*, 11 a.m. and 6 p.m.; *Gymnastics and Karate*; July 20, *Reading*, 10 a.m. to noon; *Go for the gold obstacle course*, 1:30 and 6 p.m.; July 21, *3 on 3 basketball*; *Teen dance*, 7-10 p.m.; July 23, *Reading*, 10 a.m. to noon; *Raunchy sneaker contest*, 2 p.m.; *Arts and crafts*, 12:30 p.m.; July 24, *Win, lose or draw*, 11 a.m.; *Croquet*, 12:30 and 6 p.m. The center is open to military children only. For more information call 876-KIDS.



Preseparation orientation

The next preseparation orientation — not retiree orientation — for military personnel with ETS or Release from Active Duty dates through Dec. 31 will be held 8 a.m. to noon July 26 in Toftoy Hall building 3495, auditorium room 119. Representatives from Veteran Affairs, Employment Services, Military Pay Division, and others will brief attendees and answer questions pertaining to your post-separation plans. Spouses are encouraged to attend. It is mandatory for specified personnel to attend.



Carpool Hotline

Call 876-1500 to place your free carpool ad.

Scottsboro

Carpool members wanted from Scottsboro to vicinity of Martin Road area. Christine Dulaney 842-6057.

classifieds

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

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

FOR SALE: 1987 Ford Aerostar. Air conditioning, power steering, 5-speed, V6, 7 passenger, pop-out seats; 45,000 miles, \$6,500. Call after 5 p.m. 830-4576, 8 a.m.-4 p.m. 722-1007.

FOR SALE: Construction tools; power tools, ladders, shop tools, books, supplies. Fair prices, call for specifics at 539-1391. (Leave message).

FOR SALE: 1979 Ford F-100, long bed, straight 6, good tires, dependable transportation, \$1,650. Call for details at 539-1391. (Leave message).

FOR SALE: 1982 GMC \$15 Tool Bed truck. V-6, 4-speed, covered tool bed, \$1850. Call for details at 539-1391. (Leave message).

FOR SALE: 1976 C-10, short bed, 350 automatic transmission, power steering with camper shell, \$1700. Call for details at 539-1391. (Leave message).

FOR SALE: 1979 Datsun 810 series factory service manual. Includes wiring diagram. Chilton's 1973-82 Datsun repair and tune-up guide. Both for \$12. Call 721-9436 (RSA) after 5 p.m.

FREE PUPPIES: Two female German Shepard/Border Collie puppies. Nine and a half weeks old. Please call anytime. 776-4527.

FOR SALE: 1965 Chevrolet Super Sport. 2 door, hard top, 327 cubic inch automatic, new tires, local one owner, garaged, excellent condition, \$1995. Phone 1-728-4825 (Grant).

FOR SALE: 1984 Buick Regal. Excellent condition, clean inside and out, one owner since 1985, well cared for. \$3500. Call 880-8525.

FOR SALE: Wood high chair \$30; White wicker changing table \$35; Coffee table \$20; Eureka vacuum cleaner with attachments \$35; Oak king size bedroom set \$375. Call 721-0563.

FOR SALE: 1981 Honda 650 cc, 7000 actual miles. Call 534-7135 after 5 p.m.

FOR SALE: T-D MG Convertible replica on 65 hp VW chassis for less than cost of basic assembled kit. Mahogany dash, white canvas top plus Tonneau cover and side curtains. 881-8625.

FOR SALE: 3.6 cubic foot dorm refrigerator, General Electric. Great condition. \$60. 881-3061.

FOR SALE: 2 end tables and a coffee table \$100; 2 table lamps \$30. 880-8066 after 5 p.m.

FOR SALE: 1974 Volvo, 2 door, 4 speed transmission, \$1000. 1968 Chevrolet pick-up, needs work, \$500. Call 859-0726.

FOR SALE: 1974 GMC step van. 14 foot cargo space, 350 engine, 4 speed transmission \$1,500. Tandem trailer 12x7 steel construction \$200. Call 859-0726.

FOR SALE: MG Midget accessories. Car cover and pouch, used once, \$30; Black cloth seat covers with \$30; Roll bar, \$20; Fiberglass top, good condition, \$150; Rear end housing with 1 good axle, \$10. Call 533-6739 after 5 p.m.

FOR SALE: Refrigerator. Hot Point Frost Free, harvest gold, very clean, working fine when replaced in new house. \$185. 880-9025.

FOR SALE: 1983 Ford F-150 Pickup. 300 cubic inch, 6 cylinder, automatic overdrive, short bed, power steering, power brakes, stereo, American chrome wheels, excellent condition, 106K miles. \$3450. 880-9025.

FOR SALE: 1987 VW Jetta GL 4 door, automatic, am/fm and cassette Stereo with front and rear speakers, air, cruise, power steering and brakes, sunroof, floor mats, gold exterior with brown interior, 51,000 miles. \$7495. 883-5766.

FOR SALE: 1986 Dodge Colt E. 4 door, 5-speed, am/fm stereo, air, white exterior with burgandy interior, 82,000 miles, \$2495. 883-5766.

FOR SALE: 1989 Camcorder. Panasonic PV-420, 1/1000 sec. high speed shutter, flying erase head, audio/video dubbing, zero frame editing, self timer, laps times, VHS index/address search system, many other features. Micro-lux 35 watt light with 2 battery packs, tripod (VTR-95RA professional fluid action). \$1395. 883-5766.

FOR SALE: Toro riding mower, Model 6-32 professional, Briggs and Stratton 8hp rear engine. Grass catcher. 6 bushel twin bag. \$1095. 883-5766.

FOR SALE: 1986 Gheenoce (Hi-Sider). Capacity - 3 people or 675 pounds, 3'8" beam, 15'9" length, 120 pounds, vinyl swivel seats. 1973 15' trailer (1495 pound weight limit, recently sand blasted and painted). 1976 Mercury 4.5hp outboard, 4 floating cushions, mooring line, paddle, \$995. 883-5766.

FOR SALE: 1979 35mm camera. Canon AE-1, single lens reflex with light meter and automatic shutter. Includes 50mm f/1.4 automatic lens, wide angle 24mm f3.5 automatic lens, telephoto 70-120mm f3.5 automatic lens with sun shade, 55mm skylight filter (1B), Vivitar Zoom Thyrstor 285 rechargeable strobe (range 85 ft.), mini tripod, hard shell carrying case, cleaning kit, \$595. 883-5766.

FOR SALE: 1981 26" bicycle, Sears Free Spirit, girl's 10 speed, yellow, \$45; 1968 Schwinn 26" bicycle, man's 3-speed, black, \$15; Two rollaway beds, \$25 each; Table, 6' folding office type, \$30; Green sofa, \$25; Gold arm chair, \$15; Coffee table, \$10; Book case, \$10. 883-5766.

FOR SALE: MGB. 135K miles, looks excellent, runs great. \$3600. 882-0796.

FOR SALE: 1984 Chevy Celebrity, 4-door, silver, 95,000 miles, am/fm stereo, very good condition. \$2450. Call 880-3700 after 5 p.m.

FOR SALE: 1986 Mazda 323 DLX, 4 door, beige, 5-speed, power steering, air, am/fm stereo cassette, Michelin steel-belted radials, 115,000 highway miles, oil changed every 2000 miles, garaged, one owner, never wrecked, exceptionally clean, runs great. \$3500. 883-2456 days; 1-882-1064 nights.

FOR SALE: 14 foot Glastron fiberglass boat, 40hp Evinrude, Dilly Tilt trailer, new tires (including spare), new seats and carpet ready to install. \$650 or best offer. Call 881-7483 after 5 p.m.

FOR SALE: Grammer guitar, 1966 with hardshell case, comparable to Martin D-28, \$750 firm. Classical guitar, student, with hardshell case, \$150. Conrad 5-string banjo, with instruction books and case, \$375. 539-9346.

FOR SALE: 1988 Bayliner Capri 19' Cuddy Cabin Boat. 130hp, am/fm cassette, trailer, depth finder, spare prop and battery, toilet, weather cover, half and full tops, other extras. Excellent condition \$8,500. 881-4611.

FOR SALE: Sears child bed with canopy post. Brand new \$75. 881-4611.

FOR SALE: Hedstrom baby carriage that converts to stroller, \$50. Portacrib, \$40, in like new condition. Also miscellaneous baby items, toys, curtains and boy clothes through size 4. 461-8856.

FOR SALE: Whirlpool refrigerator/freezer, no frost, 17.1 cubic feet. \$200. Call after 4:15 p.m. 837-7340.

FOR SALE: AKC Akita puppies. Champion bloodlines, sire now being shown in Florida. \$350 each. 1-723-4337 or 1-723-2230.

FOR SALE: 1984 Allegro 27' motor home. 10,000 actual miles, sleeps 6-8, queen bed, gas range, microwave, \$22,000. After 5 p.m. 883-8914 or 882-3251.

FOR SALE: 1986 Mercury Lynx L 2 door, automatic, power steering, power brakes, air, am/fm stereo cassette, 55K miles. \$4000. 725-4743 after 5 p.m.

FOR SALE: Amana Radarange. Like new with temperature probe, 700 watts, 1.1 cubic feet. \$145. Call 881-4042.

FOR SALE: Fiberglass truck camper for short wheel base. Gray in color, three sliding glass tinted windows. Asking \$350. Call 233-2043.

FINDING OF NO SIGNIFICANT IMPACT FOR HYDRA 70/2.75 INCH ROCKET SYSTEM

A Life Cycle Environmental Assessment (LCEA) has been written discussing the environmental impacts of the HYDRA 70 Rocket System.

The HYDRA 70 System involves the design, development, test, and fielding of an air launched, free flight, solid propellant rocket system which will be used by all U.S. Armed Forces. The purpose of the System is to improve rocket armament for attack helicopters/forward wing aircraft and to meet the need for extended firepower range for attack aircraft. Alternative rocket systems were considered. None of the existing systems met the needs stated above. Proposed new systems were determined to be less cost effective than upgrading the 2.75 inch Rocket System.

The HYDRA 70 Project involves the following phases: conceptual phase; demonstration and validation phase; full scale engineering development; production and deployment; and disposal. All testing is and will be done at established test ranges located at Redstone Arsenal, AL; Yuma Proving Ground, AZ; and Naval Ordnance Station, Indian Head, MD.

Anticipated environmental effects are discussed in detail for all project phases listed above in the Life Cycle Environmental Assessment for HYDRA 70/2.75 inch Rocket System (April 1990). Propellant combustion products discharged into the air are not expected to occur or accumulate at hazardous levels. Noise levels will only impact the immediate area of designated test areas, and personnel at test locations will wear necessary protection (e.g. earplugs or muffs). Solid materials not recovered after testing will not be of a hazardous nature and will be within the confines of the test areas. Disposal of obsolete rockets, launchers, and their waste products and emissions will be disposed of in compliance with all federal and state laws so that no environmental impacts are expected.

The Life Cycle Environmental Assessment concludes that no harmful impacts to the environment will occur and that an Environmental Impact Statement is not required. Comments or questions about the LCEA may be directed to the Commander, AMSMI-IN, Redstone Arsenal, AL 35898 within 30 days after initial publication of this notice.

Points of contact for this Life Cycle Environmental Assessment are Air Delivered Systems, Mr. Michael Harwood, telephone (205) 876-4026 (AMSMI-HWS-A), Redstone Arsenal, AL 35898-5798 and the MICOM Environmental Office, Mr. David Brantman, telephone (205) 876-3516 (AMSMI-EO), Redstone Arsenal, AL 35898.

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HOW TO PLACE A REDSTONE ROCKET CLASSIFIED AD

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

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

To place a ROCKET CLASSIFIED ad:

Type or legibly print a brief description of what you want to sell on an 8 1/2 x 11 inch piece of paper (no 3 x 5 cards or torn paper will be accepted).

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

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

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

FOR COMMERCIAL CLASSIFIED RATES CALL 539-3980.

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

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

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

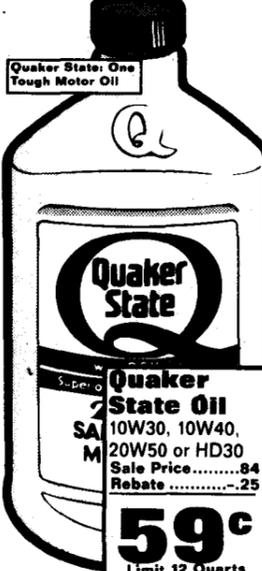
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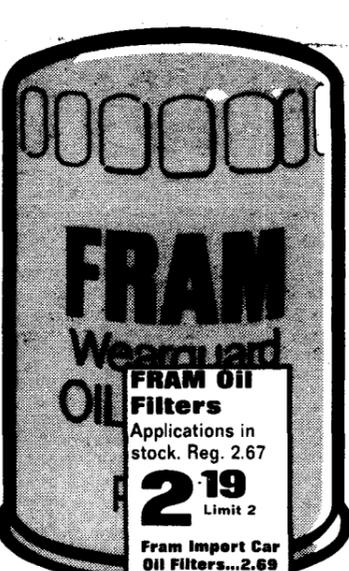
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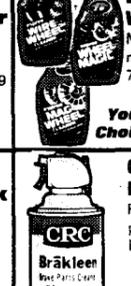
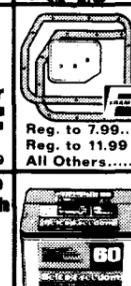
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<p>30,000 MILE Deluxe All-Season 4 TIRES FOR \$69</p> <table border="1"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>P155/80R13</td><td>17.25</td><td>\$ 69</td></tr> <tr><td>P165/80R13</td><td>21.25</td><td>85</td></tr> <tr><td>P175/80R13</td><td>22.00</td><td>88</td></tr> <tr><td>P185/80R13</td><td>23.25</td><td>93</td></tr> <tr><td>P185/75R14</td><td>24.25</td><td>97</td></tr> <tr><td>P195/75R14</td><td>25.50</td><td>102</td></tr> <tr><td>P205/75R14</td><td>28.75</td><td>107</td></tr> <tr><td>P205/75R15</td><td>28.25</td><td>113</td></tr> <tr><td>P215/75R15</td><td>29.50</td><td>118</td></tr> <tr><td>P225/75R15</td><td>31.25</td><td>125</td></tr> <tr><td>P235/75R15</td><td>32.75</td><td>131</td></tr> </tbody> </table> <p>16-8000 series 16-8800 series</p>	SIZE	EACH	SET OF 4	P155/80R13	17.25	\$ 69	P165/80R13	21.25	85	P175/80R13	22.00	88	P185/80R13	23.25	93	P185/75R14	24.25	97	P195/75R14	25.50	102	P205/75R14	28.75	107	P205/75R15	28.25	113	P215/75R15	29.50	118	P225/75R15	31.25	125	P235/75R15	32.75	131	<p>40,000 MILE All-Season Radial 4 TIRES FOR \$99</p> <table border="1"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>155/80R13</td><td>24.97</td><td>\$ 99</td></tr> <tr><td>165/80R13</td><td>29.97</td><td>119</td></tr> <tr><td>175/80R13</td><td>31.97</td><td>127</td></tr> <tr><td>185/80R13</td><td>32.97</td><td>131</td></tr> <tr><td>185/75R14</td><td>33.97</td><td>135</td></tr> <tr><td>195/75R14</td><td>34.97</td><td>139</td></tr> <tr><td>205/75R14</td><td>35.97</td><td>143</td></tr> <tr><td>215/75R14</td><td>36.97</td><td>147</td></tr> <tr><td>205/75R15</td><td>37.97</td><td>151</td></tr> <tr><td>215/75R15</td><td>38.97</td><td>155</td></tr> <tr><td>225/75R15</td><td>40.97</td><td>163</td></tr> <tr><td>235/75R15</td><td>42.97</td><td>167</td></tr> </tbody> </table> <p>16-8800 series</p>	SIZE	EACH	SET OF 4	155/80R13	24.97	\$ 99	165/80R13	29.97	119	175/80R13	31.97	127	185/80R13	32.97	131	185/75R14	33.97	135	195/75R14	34.97	139	205/75R14	35.97	143	215/75R14	36.97	147	205/75R15	37.97	151	215/75R15	38.97	155	225/75R15	40.97	163	235/75R15	42.97	167	<p>50,000 MILE Classic All-Season 4 TIRES FOR \$119</p> <table border="1"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>P155/80R13</td><td>29.97</td><td>\$119</td></tr> <tr><td>P165/80R13</td><td>33.97</td><td>135</td></tr> <tr><td>P175/80R13</td><td>35.97</td><td>143</td></tr> <tr><td>P185/80R13</td><td>36.97</td><td>147</td></tr> <tr><td>P185/75R14</td><td>37.97</td><td>151</td></tr> <tr><td>P195/75R14</td><td>38.97</td><td>155</td></tr> <tr><td>P205/75R14</td><td>40.97</td><td>163</td></tr> <tr><td>P215/75R14</td><td>41.97</td><td>167</td></tr> <tr><td>P205/75R15</td><td>42.97</td><td>171</td></tr> <tr><td>P215/75R15</td><td>43.97</td><td>175</td></tr> <tr><td>P225/75R15</td><td>45.97</td><td>183</td></tr> <tr><td>P235/75R15</td><td>47.97</td><td>191</td></tr> </tbody> </table> <p>16-8050 series</p>	SIZE	EACH	SET OF 4	P155/80R13	29.97	\$119	P165/80R13	33.97	135	P175/80R13	35.97	143	P185/80R13	36.97	147	P185/75R14	37.97	151	P195/75R14	38.97	155	P205/75R14	40.97	163	P215/75R14	41.97	167	P205/75R15	42.97	171	P215/75R15	43.97	175	P225/75R15	45.97	183	P235/75R15	47.97	191	<p>60,000 MILE Ultra 775 All-Season 4 TIRES FOR \$135</p> <table border="1"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>P155/80R13</td><td>33.97</td><td>\$135</td></tr> <tr><td>P165/80R13</td><td>37.97</td><td>151</td></tr> <tr><td>P175/80R13</td><td>38.97</td><td>155</td></tr> <tr><td>P185/80R13</td><td>40.97</td><td>163</td></tr> <tr><td>P185/75R14</td><td>41.97</td><td>167</td></tr> <tr><td>P195/75R14</td><td>42.97</td><td>171</td></tr> <tr><td>P205/75R14</td><td>45.97</td><td>183</td></tr> <tr><td>P215/75R14</td><td>46.97</td><td>187</td></tr> <tr><td>P205/75R15</td><td>47.97</td><td>191</td></tr> <tr><td>P215/75R15</td><td>48.97</td><td>195</td></tr> <tr><td>P225/75R15</td><td>50.97</td><td>203</td></tr> <tr><td>P235/75R15</td><td>51.97</td><td>207</td></tr> </tbody> </table> <p>16-9100 series</p>	SIZE	EACH	SET OF 4	P155/80R13	33.97	\$135	P165/80R13	37.97	151	P175/80R13	38.97	155	P185/80R13	40.97	163	P185/75R14	41.97	167	P195/75R14	42.97	171	P205/75R14	45.97	183	P215/75R14	46.97	187	P205/75R15	47.97	191	P215/75R15	48.97	195	P225/75R15	50.97	203	P235/75R15	51.97	207
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235/75R15	42.97	167																																																																																																																																																										
SIZE	EACH	SET OF 4																																																																																																																																																										
P155/80R13	29.97	\$119																																																																																																																																																										
P165/80R13	33.97	135																																																																																																																																																										
P175/80R13	35.97	143																																																																																																																																																										
P185/80R13	36.97	147																																																																																																																																																										
P185/75R14	37.97	151																																																																																																																																																										
P195/75R14	38.97	155																																																																																																																																																										
P205/75R14	40.97	163																																																																																																																																																										
P215/75R14	41.97	167																																																																																																																																																										
P205/75R15	42.97	171																																																																																																																																																										
P215/75R15	43.97	175																																																																																																																																																										
P225/75R15	45.97	183																																																																																																																																																										
P235/75R15	47.97	191																																																																																																																																																										
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P155/80R13	33.97	\$135																																																																																																																																																										
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P185/80R13	40.97	163																																																																																																																																																										
P185/75R14	41.97	167																																																																																																																																																										
P195/75R14	42.97	171																																																																																																																																																										
P205/75R14	45.97	183																																																																																																																																																										
P215/75R14	46.97	187																																																																																																																																																										
P205/75R15	47.97	191																																																																																																																																																										
P215/75R15	48.97	195																																																																																																																																																										
P225/75R15	50.97	203																																																																																																																																																										
P235/75R15	51.97	207																																																																																																																																																										

COMPACT/IMPORT CAR RADIALS

Western Auto Deluxe Sport Radial 30,000 MILE	Western Auto Custom Metric Sport Radial 40,000 MILE	Western Auto Ultra Sport Metric All-Season Radial 50,000 MILE
155SR12 24.97 155SR13 26.97 165SR13 27.97 175/70SR13 28.97 185/70SR13 30.97 185/70SR14 32.97	155/SR13 30.97 165/SR13 32.97 165/SR15 38.97 175/70SR13 34.97 185/70SR13 36.97 185/70SR14 38.97 195/70SR14 40.97	155/SR13 35.97 165/SR13 36.97 175/SR14 38.97 185/TR14 40.97 175/70TR13 37.97 185/70TR13 39.97 185/70SR14 41.97 195/70TR14 42.97 205/70TR14 44.97

16-5700 series
16-8700 series
16-9700 ser.

OUR BEST RADIAL TIRE!

Ultra 770 All-Season Radial

- 65,000 MILE Warranty
- Smooth Ride
- Responsive Handling
- Speed Rated

45.97
P175/70SR13* BW 16-9200 series

MICHELIN®
BECAUSE SO MUCH IS RIDING ON YOUR TIRES.®

MICHELIN XA4
For domestic and imported cars
Long-mileage, all-weather radial
Priced As Low **57.99**
As ... P165/60R13

MICHELIN MXL
Low-profile for imported cars
Excellent handling and mileage
Priced As Low **52.99**
As ... 165/70SR13

MICHELIN EPX
For sporty domestics, imports
All-weather radial performance
Priced As Low **84.99**
As ... P215/60SR14

PERFORMANCE CAR AND LIGHT TRUCK/VAN RADIALS

Western Auto Performance Radial GT All-Season 40,000 MILE, RW	Western Auto Performance GTH H-Speed Rated 35,000 MILE	Goodrich RADIAL T/A Speed Rated All Season Radial	Western Auto Sentry Radial All-Terrain 40,000 MILE	Western Auto Sport King Steel All-Season Radial 40,000 MILE
P175/70SR13 30.97 P185/70SR13 32.97 P195/70SR13 34.97 P205/70SR13 36.97 P215/70SR13 38.97 P225/70SR13 40.97 P235/70SR13 42.97 P245/70SR13 44.97 P255/70SR13 46.97 P265/70SR13 48.97 P275/70SR13 50.97 P285/70SR13 52.97 P295/70SR13 54.97 P305/70SR13 56.97 P315/70SR13 58.97 P325/70SR13 60.97 P335/70SR13 62.97 P345/70SR13 64.97 P355/70SR13 66.97 P365/70SR13 68.97 P375/70SR13 70.97 P385/70SR13 72.97 P395/70SR13 74.97 P405/70SR13 76.97 P415/70SR13 78.97 P425/70SR13 80.97 P435/70SR13 82.97 P445/70SR13 84.97 P455/70SR13 86.97 P465/70SR13 88.97 P475/70SR13 90.97 P485/70SR13 92.97 P495/70SR13 94.97 P505/70SR13 96.97 P515/70SR13 98.97 P525/70SR13 100.97 P535/70SR13 102.97 P545/70SR13 104.97 P555/70SR13 106.97 P565/70SR13 108.97 P575/70SR13 110.97 P585/70SR13 112.97 P595/70SR13 114.97 P605/70SR13 116.97 P615/70SR13 118.97 P625/70SR13 120.97 P635/70SR13 122.97 P645/70SR13 124.97 P655/70SR13 126.97 P665/70SR13 128.97 P675/70SR13 130.97 P685/70SR13 132.97 P695/70SR13 134.97 P705/70SR13 136.97 P715/70SR13 138.97 P725/70SR13 140.97 P735/70SR13 142.97 P745/70SR13 144.97 P755/70SR13 146.97 P765/70SR13 148.97 P775/70SR13 150.97 P785/70SR13 152.97 P795/70SR13 154.97 P805/70SR13 156.97 P815/70SR13 158.97 P825/70SR13 160.97 P835/70SR13 162.97 P845/70SR13 164.97 P855/70SR13 166.97 P865/70SR13 168.97 P875/70SR13 170.97 P885/70SR13 172.97 P895/70SR13 174.97 P905/70SR13 176.97 P915/70SR13 178.97 P925/70SR13 180.97 P935/70SR13 182.97 P945/70SR13 184.97 P955/70SR13 186.97 P965/70SR13 188.97 P975/70SR13 190.97 P985/70SR13 192.97 P995/70SR13 194.97 P1005/70SR13 196.97 P1015/70SR13 198.97 P1025/70SR13 200.97 P1035/70SR13 202.97 P1045/70SR13 204.97 P1055/70SR13 206.97 P1065/70SR13 208.97 P1075/70SR13 210.97 P1085/70SR13 212.97 P1095/70SR13 214.97 P1105/70SR13 216.97 P1115/70SR13 218.97 P1125/70SR13 220.97 P1135/70SR13 222.97 P1145/70SR13 224.97 P1155/70SR13 226.97 P1165/70SR13 228.97 P1175/70SR13 230.97 P1185/70SR13 232.97 P1195/70SR13 234.97 P1205/70SR13 236.97 P1215/70SR13 238.97 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P1725/70SR13 340.97 P1735/70SR13 342.97 P1745/70SR13 344.97 P1755/70SR13 346.97 P1765/70SR13 348.97 P1775/70SR13 350.97 P1785/70SR13 352.97 P1795/70SR13 354.97 P1805/70SR13 356.97 P1815/70SR13 358.97 P1825/70SR13 360.97 P1835/70SR13 362.97 P1845/70SR13 364.97 P1855/70SR13 366.97 P1865/70SR13 368.97 P1875/70SR13 370.97 P1885/70SR13 372.97 P1895/70SR13 374.97 P1905/70SR13 376.97 P1915/70SR13 378.97 P1925/70SR13 380.97 P1935/70SR13 382.97 P1945/70SR13 384.97 P1955/70SR13 386.97 P1965/70SR13 388.97 P1975/70SR13 390.97 P1985/70SR13 392.97 P1995/70SR13 394.97 P2005/70SR13 396.97 P2015/70SR13 398.97 P2025/70SR13 400.97 P2035/70SR13 402.97 P2045/70SR13 404.97 P2055/70SR13 406.97 P2065/70SR13 408.97 P2075/70SR13 410.97 P2085/70SR13 412.97 P2095/70SR13 414.97 P2105/70SR13 416.97 P2115/70SR13 418.97 P2125/70SR13 420.97 P2135/70SR13 422.97 P2145/70SR13 424.97 P2155/70SR13 426.97 P2165/70SR13 428.97 P2175/70SR13 430.97 P2185/70SR13 432.97 P2195/70SR13 434.97 P2205/70SR13 436.97 P2215/70SR13 438.97 P2225/70SR13 440.97 P2235/70SR13 442.97 P2245/70SR13 444.97 P2255/70SR13 446.97 P2265/70SR13 448.97 P2275/70SR13 450.97 P2285/70SR13 452.97 P2295/70SR13 454.97 P2305/70SR13 456.97 P2315/70SR13 458.97 P2325/70SR13 460.97 P2335/70SR13 462.97 P2345/70SR13 464.97 P2355/70SR13 466.97 P2365/70SR13 468.97 P2375/70SR13 470.97 P2385/70SR13 472.97 P2395/70SR13 474.97 P2405/70SR13 476.97 P2415/70SR13 478.97 P2425/70SR13 480.97 P2435/70SR13 482.97 P2445/70SR13 484.97 P2455/70SR13 486.97 P2465/70SR13 488.97 P2475/70SR13 490.97 P2485/70SR13 492.97 P2495/70SR13 494.97 P2505/70SR13 496.97 P2515/70SR13 498.97 P2525/70SR13 500.97 P2535/70SR13 502.97 P2545/70SR13 504.97 P2555/70SR13 506.97 P2565/70SR13 508.97 P2575/70SR13 510.97 P2585/70SR13 512.97 P2595/70SR13 514.97 P2605/70SR13 516.97 P2615/70SR13 518.97 P2625/70SR13 520.97 P2635/70SR13 522.97 P2645/70SR13 524.97 P2655/70SR13 526.97 P2665/70SR13 528.97 P2675/70SR13 530.97 P2685/70SR13 532.97 P2695/70SR13 534.97 P2705/70SR13 536.97 P2715/70SR13 538.97 P2725/70SR13 540.97 P2735/70SR13 542.97 P2745/70SR13 544.97 P2755/70SR13 546.97 P2765/70SR13 548.97 P2775/70SR13 550.97 P2785/70SR13 552.97 P2795/70SR13 554.97 P2805/70SR13 556.97 P2815/70SR13 558.97 P2825/70SR13 560.97 P2835/70SR13 562.97 P2845/70SR13 564.97 P2855/70SR13 566.97 P2865/70SR13 568.97 P2875/70SR13 570.97 P2885/70SR13 572.97 P2895/70SR13 574.97 P2905/70SR13 576.97 P2915/70SR13 578.97 P2925/70SR13 580.97 P2935/70SR13 582.97 P2945/70SR13 584.97 P2955/70SR13 586.97 P2965/70SR13 588.97 P2975/70SR13 590.97 P2985/70SR13 592.97 P2995/70SR13 594.97 P3005/70SR13 596.97 P3015/70SR13 598.97 P3025/70SR13 600.97 P3035/70SR13 602.97 P3045/70SR13 604.97 P3055/70SR13 606.97 P3065/70SR13 608.97 P3075/70SR13 610.97 P3085/70SR13 612.97 P3095/70SR13 614.97 P3105/70SR13 616.97 P3115/70SR13 618.97 P3125/70SR13 620.97 P3135/70SR13 622.97 P3145/70SR13 624.97 P3155/70SR13 626.97 P3165/70SR13 628.97 P3175/70SR13 630.97 P3185/70SR13 632.97 P3195/70SR13 634.97 P3205/70SR13 636.97 P3215/70SR13 638.97 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