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VOL. 48 No. 22

June 2, 1999

Seeing tax dollars at work...

Local executives get quick course in tactical missiles

By Skip Vaughn

A dozen local executives know now what most citizens have only read or heard about: Just what is a missile and how does it work?

Col. John Holly, the program executive officer for tactical missiles, gave an overview Thursday on the missiles managed by his organization to a group of citizens. The six men and six women were from the Huntsville/Madison County Leadership Group.

"It's your tax dollars that we're spending on a day-to-day basis," Holly said. "I think it's important that you see what we're doing."

The Program Executive Office for Tactical Missiles served as host for the executives' visit to provide an insight on the function of the PEO and the Test Range Support group. Besides briefings on the various missile systems, they saw a TOW missile firing at Test Area 1.

"Our budget is \$1.9 billion in our organization this year, \$2.8 billion next year," Holly said. "So it's a fairly large investment that our country is making in our programs. And we take that responsibility very seriously."

The video on the movie screen behind him showed various battlefield operating systems including Hellfire missiles on helicopters. "That's what they're carrying in Albania and Bosnia today. Very effective system," he said.



Photo by Skip Vaughn

SHOW AND TELL— Holly explains the Javelin missile to members of the Huntsville /Madison County Leadership Group.

Holly discussed the five project offices within his organization: Close Combat Anti-Armor Weapon Systems, Army TACMS-BAT, Multiple Launch Rocket System, Javelin, and Air-to-Ground Missile Systems.

"As I said before, we've got the finest project managers anywhere in the Army," he said.

The colonel outlined his organization's ongoing initiatives. "And we're always looking at better ways to do our business," he added.

After Holly answered questions from the attendees, they heard briefings by representatives from the project offices before traveling to Test Area 1 for the missile firing.

"I think it's incredible," Alison Strickland, an assistant district attorney in the Madison County District Attorney's Office, said. "I've never seen one before. I'm from Huntsville; I've read about it. I'm just excited to be able to see it."

Cooperative support...

Logistics specialist gets medal for international efforts

By Skip Vaughn

Bill Edwards spent an average of 75-100 days away annually on business trips for five years. All that travel has paid off.

Edwards, a logistics management specialist for the Logistics Support Activity's International Programs Office, has received the "Silver Cross" from the German Ministry of Defense. The award was presented May 26 by German Air Force Col. Fritz Gotter, director of the German Patriot Office here.

"I think Mr. Edwards is an outstanding example of a person who made his dedication to bringing together two different systems and making them able to accomplish your goal," Gotter said.

Edwards was recognized for his work as the principal author and project coordinator for the U.S.-German "Fox" Nuclear, Biological, Chemical Reconnaissance System (NBCRS) cooperative logistic support international agreement. The 1995 agreement provides supply and support services for the U.S. NBCRS fleet and is the first of its kind for the U.S. Army and Department of Defense.



Photo by Skip Vaughn

AWARD CEREMONY— From left are German Air Force Col. Fritz Gotter; Edwards, the honoree; and Col. Ronald Hyatte, commander of Logistics Support Activity.

The Fox NBCRS is a German made six-wheeled armored vehicle with a three member crew. The vehicle is the first U.S. fully automated, mobile NBC detection system.

It incorporates an NBC detection suite capable of detecting nuclear radiation and chemical agents on today's battlefield.

Under the U.S.-German agreement,

the U.S. is able to: procure spare and repair parts; share joint system configuration management responsibilities; and avail itself of depot-level repair and overhaul services from the German government. The agreement provides cost savings, enhances readiness of the U.S. fleet, and supports multinational force compatibility efforts between the U.S. and Germany.

"It was a team effort between members of the LOGSA International Programs Office," Edwards said.

Edwards, 42, has 18 years of government service including eight years on active duty. The Albany, N.Y., native received a bachelor's degree in political science in 1976 from Siena College. In 1997 he received a certificate in international business from the University of Alabama.

"I've worked with Bill extensively; he's very knowledgeable," Col. Ronald Hyatte, commander of Logistics Support Activity, said. "I can always count on him to get the job done."

Edwards and his wife, Maura, have three children: Julianna, 17, Maura Kathrine, 13, and Bill Jr., 11.

Letters To The Editor

AER achieves goal

On behalf of Redstone Arsenal and the 1999 AER Campaign, CWO 3 Lee Samuelson, Sgt. Hosea Johnson and I would like to take this opportunity to thank each and everyone who participated in this year's Army Emergency Relief Campaign. Without your help, we could not have exceeded this year's goal of \$45,000. You all helped in this endeavor, with a handicap of a substantial reduction of personnel on Redstone Arsenal.

This year's campaign, as in the two years past, has been an extreme pleasure to participate in, for Sgt. Johnson; my husband, Lee; and myself. I can also say from attending many of the fund-raisers, that the creativity in organizing, planning and implementing the various fund-raisers has gone beyond all expectations. Many new fund-raisers appeared for the first time this year. A couple of examples of this were the RASA carnival and Fun Day; AER buttons were also for sale.

We have also seen firsthand the joy on the faces of those who participated in these many events. For example, the Buddy Bass Fishing Tournament, which is a tradition each year. The fishermen were out on the river by 5 a.m. When we saw them come off the river at 3 p.m., they were grinning from ear to ear as they brought their catch in to be weighed. It is hard to describe the look on the face of the big winner of the day who took home a prize of \$800. We cannot describe the joy on the faces of all the walkers who crossed the finish line at the Walk/Run-a-thons. RDEC's carnival type fund-raiser, another tradition here at Redstone, proved to be a great deal of fun once again. Also enjoying winning were the

recipients of door prizes at the walk-a-thons. There were many happy faces, as Col. Broderick called out their names and of course the big "Hooah" that went with that; this is also a tradition of Redstone Arsenal. (Maybe we can bottle that "Hooah" for future years.)

The bottom line is, and I'm sure I can speak for all when I say that it is not so much the winning, indeed that really doesn't matter at all, it's the joy of participating, participating in such a worthwhile cause as Army Emergency Relief.

Some of the other events held on behalf of the AER Campaign included: the annual Golf Tournament, the AER Jail, the AER book sales, the bake sales, the popcorn sales, the annual bowling tournaments, the annual barbecues, the car washes, and the plant sales. The Celebrity Car Wash with AER clowns was new last year. This car wash, which included two clowns, and tip jars for the celebrities, as well as the pledges, proved to be a huge success and returned this year as a tradition at Redstone. It was so successful that one of the units developed their own Celebrity Car Wash, which also did very well.

We would also like to thank the various businesses in the greater Huntsville area that donated food as well as merchandise in support of these AER fund-raisers.

Many thanks go to the civilians on Redstone Arsenal, for their support, contribution, and willingness to participate in these AER events.

Without the efforts of ALL of you, many needs could not be met. Redstone Arsenal's Army Emergency Relief Campaign is really a community effort. "It Takes a Community." Congratulations, Team Redstone, you raised \$64,066.05. Give yourself a hand.

Sharon Samuelson
AER Campaign co-coordinator

Working together...

Army, Boeing Sikorsky reach pact on Comanche copter

PHILADELPHIA— The Boeing Sikorsky RAH-66 Comanche Joint Program Office and the Army have signed a memorandum of understanding that defines the Comanche program contract's engineering and manufacturing development (EMD) phase and establishes an innovative working partnership between the Army and the contracting team.

The MOU calls for "a cultural change in the way Comanche requirements are communicated, in the way Boeing Sikorsky implements these requirements, and in the way and time frame in which the Pre-Production Prototype (PPP) proposal and resultant Engineering and Manufacturing Development (EMD) program contract are prepared, evaluated, negotiated and awarded."

Speaking for the Comanche Team, Arthur Linden, vice president and director, Boeing Sikorsky Joint Program Office, said, "This MOU is really a reflection of the close working relationship we have with our U.S. Army customer. We plan to meet or exceed all the program requirements on performance, cost and schedule, and formalizing that commitment is an expression of our confidence in our team members, suppliers, customers and evaluators that they will ensure Comanche is remembered in the future as a paradigm of successful defense procurement."

The agreement will provide maximum focus on acquisition streamlining, maintain the innovative Integrated Product Team (IPT) process used throughout the program, facilitate communication processes, and promote increased teamwork between Boeing Sikorsky and its government customers.

The Comanche team has agreed to complete the PPP program in fiscal 2006 at a total cost of \$3.598 billion, with \$59.9 million allocated for air vehicle activities.

Features of the Comanche PPP program include:

- Design and fabrication of 13 new Comanche helicopters with production Mission Equipment Package (MEP) capability in FY 2003 and FY 2004 for the Army's Force XXI Corps '04 digitization experiments and further operational test and evaluation;
- Accelerated Comanche fire control radar development from RAH-66 production Lot 6 in FY 2010 to initial operational capability (IOC) aircraft, fielded in FY 2006;
- A Defense Department Milestone II EMD decision accelerated to March 2000;
- Simulation tools suitable for analysis of the Comanche's full capabilities and development of operational tactics, techniques and procedures based on full functionality;
- And risk reduction in such developmental areas as the aircraft's helmet, software and Electro-Optical Sensor System (EOSS) to optimize program efforts within available funding levels. The RAH-66 Comanche armed reconnaissance helicopter is under development for the Army by a team headed by The Boeing Company and Sikorsky Aircraft Corp., a unit of United Technologies. (Boeing/Sikorsky release)

Tightened security at gates begins with new month

Increased security at Redstone Arsenal began Tuesday.

The steps taken include: closing Gate 2 on Buxton Road at Memorial Parkway South; assigning a security guard for each lane of traffic at gates 1, 3, 4, 7 and 9; closing to traffic all unmanned lanes; checking all entering vehicles for current decals; and strictly enforcing the 25-mph speed limit.

All gates will remain open as follows:

- Gate 1— Martin Road east (5:30 a.m. to 8 p.m. Monday through Friday and 6 a.m. to 8 p.m. Saturday, Sunday and holidays)
- Gate 3— Redstone Road (5:30 a.m. to 6 p.m. Monday through Friday)
- Gate 4— Patton Road north of Neal Road (manned 24 hours per day)
- Gate 7— Martin Road west (6 a.m. to 6 p.m. Monday through Friday)
- Gate 8— Goss Road east (open 24 hours, manned 10 p.m. to 5:30 a.m.)

• Gate 9— Rideout Road (manned 24 hours per day, access gate from I-565 and Rideout Road closes at 10 p.m.)

• Gate 10— Patton Road (5:30 a.m. to 10 p.m. seven days per week, unmanned)

Redstone Arsenal employees and contractors are encouraged to ensure that their vehicle decals are current. Vehicle decals may be renewed any time during regular business hours in the month of expiration.

Visitors needing a Redstone Arsenal pass should stay in the left lane and notify the gate guard that they need a visitor pass. Visitors must have a current driver's license, vehicle state registration and their destination on the Arsenal readily available. Visitors without this documented information will not be allowed to enter the installation.

"These changes have been contemplated for some time and will give the installation a level of security commensurate with the missions performed here," Maj. Janice Smith, provost marshal, said.

Nichols wins contract

Nichols Research Corporation in Huntsville has won an Army contract that could be worth an estimated \$166 million over the life of the contract. The base year award is not to exceed approximately \$51 million.

Nichols has been selected to provide technical and engineering support for the Systems Simulation Directorate at Missile Research, Development and Engineering Center. The estimated completion date of the work is May 27, 2002.

"This is another fine example of how high-tech companies in our District contribute to the economic growth of the entire region," Rep. Bud Cramer, D-Ala., said in a prepared release. "Once again, this shows that when it comes to supporting our nation's defense, our community has some of the best and brightest people in the business. This is a win for the Army, a win for Nichols, and a win for Northern Alabama."

Clarification

An article in the May 26 issue of the Rocket indicated that the school buses involved in an accident on Rideout Road were en route from Williams Elementary School to an after-school facility on-post. Although this is correct, an important fact was omitted from the story. A total of 206 children ride on 12 buses. About 25 percent of those children attend after-school programs; the other children are delivered to their homes.

Redstone Rocket

Editorial office 876-1500 Advertising office 539-9828

The Redstone Rocket is published weekly on Wednesday. The publisher will receive editorial content for publication in The Redstone Rocket through the Public Affairs Office, Army Aviation and Missile Command, Bldg. 5300 Room 5144, Redstone Arsenal AL 35898.

The civilian enterprise printer of the Redstone Rocket is The Advertiser Company, located at 3315 Bob Wallace Ave. Suite 106, Huntsville AL 35805.

The deadline for display and commercial classification is 4 p.m. Friday before Wednesday publication.

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Major programs under way at ES³'s Land Combat Systems-Huntsville facility, strategically located near the U.S. Army's Aviation Missile command, include the BAT/BAT P³I (a "brilliant" antitank submunition) and the Longbow Apache/Hellfire (helicopter radar/missile integration) programs.

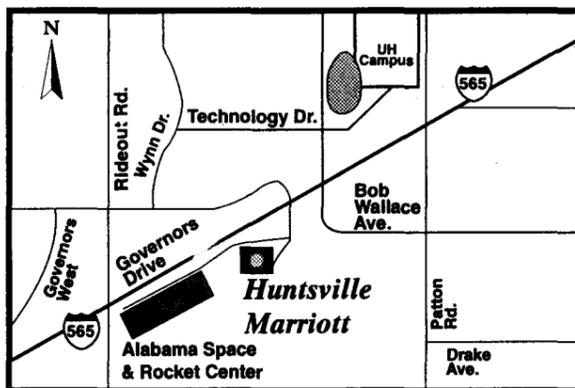
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Consider these challenges in our engineering driven environment. All positions require a BS degree in Engineering or related disciplines; MS degree preferred in many cases. From 0-15+ years relevant experience desired.

Systems Engineering

- **Guidance & Control Engineer** - Design and analyze guidance, navigation and flight control of precision weapons.
- **Effectiveness Engineer** - Develop and optimize tactical system algorithms for an air-to-ground, many-on-many attack submunition. Perform system requirements flowdown/evaluations and mission effectiveness analyses. Define software requirements and integration activities.
- **Simulation Engineer** - Develop electro-optical sensor simulations, missile 6 DOF simulations, and hardware-in-the-loop simulations. Must be proficient in C++ and FORTRAN. Experience with Silicon Graphics systems preferred.

Electrical/Electronics Engineering

- **Electronics Engineer** - Assemble prototype and production PWAs. Participate in testing and troubleshooting of new and existing electrical designs. Oversee and maintain an engineering development lab, including equipment calibration, programming and maintenance. Experience with electrical and mechanical assembly, PCs, data I/O equipment and soldering required.
- **Sr. Electronics Engineer** - Design of digital and analog circuits, including high-speed processor interface circuits and development of PWBs. Generate schematics using CADENCE or MENTOR software.
- **Fellow Electronics Engineer** - Develop digital and analog circuits for use in harsh environmental conditions. Experience in developing rugged, high-density memory storage devices (such as flight data recorders) and high-speed processor design (including interfaces) required.
- **Advisory Electronics Engineer** - Develop initial conceptual electrical/electronic systems approaches/missile or submunition avionics through detail design. Experience required in creating or modifying designs, high-speed processor design, circuit analysis, and in designing CPLD programs using VHDL.

Mechanical Engineering

- **Senior/Advisory Mechanical Design Engineer** - Missile or submunition airframe design and integration of complex mechanisms using ProEngineer, CADRA and Unigraphics. Familiarity with electro-mechanical and opto-mechanical subsystems desired.

- **Senior Structural Analysis Engineer** - Perform detailed structural and stress analysis of missile submunition subsystems using PATRAN/NASTRAN software. Analyze initial conceptual layouts through detail design and documentation. Familiarity with analysis approaches for high frequency shock environments and thermal analyses using SINDA desirable.
- **Senior Electronics Packaging Engineer** - Create packaging design for high speed (>100 MHz) multi-layer circuit boards using CADENCE ALLEGRO software. Experience required with MENTOR, ProEngineer and CADRA software; high-density packaging using surface mount and Ball Grid Array components; and design of flexible/rigid printed wiring.

Software Engineering

- **Software Team Leader** - Lead a multi-disciplinary software development and integration team. Responsible for schedule, status, development of software requirements and test documentation, and liaison duties with customer teams. Experience in leading a software activity, developing software with use of MIL-STD-2167A, and developing requirements required. Knowledge of weapons systems software development and integration testing also needed.

Test Engineering

- **Manager, Test Operations** - Manage a functional team of software, test, reliability and project engineers. Build teams and assign equipment in support of multiple programs. Responsible for goal setting and attainment, resource allocation, budgets, support of new business proposal efforts, and establishment of overall test philosophy. Provide cradle-to-grave test support and technical oversight to multiple missile programs. Direct efforts of reliability engineering. Experience in functional test management and missile integration/team leadership required.
- **Integration Test Engineer** - Perform electrical and software integration activities from subsystem to system level. Assist with system integration lab development and missile hardware, software and test equipment development and integration. Develop and verify production test processes. Investigate and resolve integration problems.
- **Test Planning/Execution Engineer** - Perform test planning, documentation preparation and coordination. Develop and maintain test plans and procedures for acoustic and IR/MMW test activities. Perform engineering test in house and at field locations. Extensive travel may be required.

- **Test Analyst/Documentation Engineer** - Perform test data reduction, analysis, and documentation preparation. Verify adequacy of plans for acoustic and IR/MMW test efforts. Develop and maintain data reduction programs in FORTRAN and C. Extensive travel may be required.

Reliability Engineering

- **Reliability Engineer** - Perform reliability planning, analysis and documentation. Conduct failure analysis, FMECA and EPTCA analyses. Provide shop floor reliability support for production and engineering programs. Report status as required.

Project Engineering

- **Flight Test Project Engineer** - Lead a flight test and analysis team. Perform all flight test planning, documentation and coordination. Develop and maintain vehicle aircraft launcher. Conduct all required test reviews. Direct field test and field office activities. Take responsibility for Company personnel in the field. Assure all post-test analyses and reports are conducted properly. Report status as required. Significant missile flight test and team leadership experience required. Extensive travel may be required.
- **Integration Test Project Engineer** - Lead electrical and software integration product development team activity from subsystem to system level. Plan lab development, integration and asset utilization activities for a group of multi-disciplined engineers. Ensure that product is functionally integrated through the use of various lab and other facilities. Develop and verify production test processes. Solve integration problems and maintain program performance. Report status as required. Significant missile integration and team leadership experience required.

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NORTHROP GRUMMAN

On the fast track...

Career enhancement help available at Education Center

By June Johns

SSgt. Fernando Medina considers the sky the limit when it comes to his future career in air defense. And the operations sergeant for B Company, 832nd Ordnance Battalion, credits the taking-off of his Army career to the work being done by the folks at the Education Center.

Medina was planning to apply for the position of warrant officer, when he discovered his GT score for the Army's ASVAB qualification test needed to be higher. This section of the Army's entrance exam covers math, reading, and vocabulary skills. Medina knew it was time to hit the books, and he knew he needed help in doing so. Fortunately for Medina, he found out about Jeannette Chaney and the no-cost Functional Academic Skills Training (FAST) program at the Education Center.

Guided by Chaney, Medina embarked on a 4-5 month course of self-paced study. The results? Medina passed the 4-1/2 hour test with flying colors and is now qualified to be accepted to warrant officer candidate school.

"Without the help of Ms. Chaney and the Education Center, my success would have been impossible," Medina said. Medina's success story is not an isolated one.

The FAST program, coordinated by Chaney, focuses on improving the academic skills of military personnel and their families. The results of enhanced academic success can mean a variety of things for those attending the program.

For the soldier, it can mean eligibility for officer candidate school, or the opportunity to re-enlist or be reclassified. For military family members, it can mean make-or-break academic knowledge for college placement tests. And for relatives from another country, it can mean the possibility of improving their English skills or a chance to study for the GED. The program also provides military dependents with the opportunity to make up school credits they may have lost in the process of having to constantly relocate.

Much like the school marm in the days of the one-room schoolhouse, Chaney must serve as an academic Jill-of-all-trades, providing one-on-one coaching for an estimated 10-25 pupils studying a wide diversity of subjects, and varying in ages from 17- 57. Chaney offers customized courses of study, and promotes the fact that her lesson plans are "user

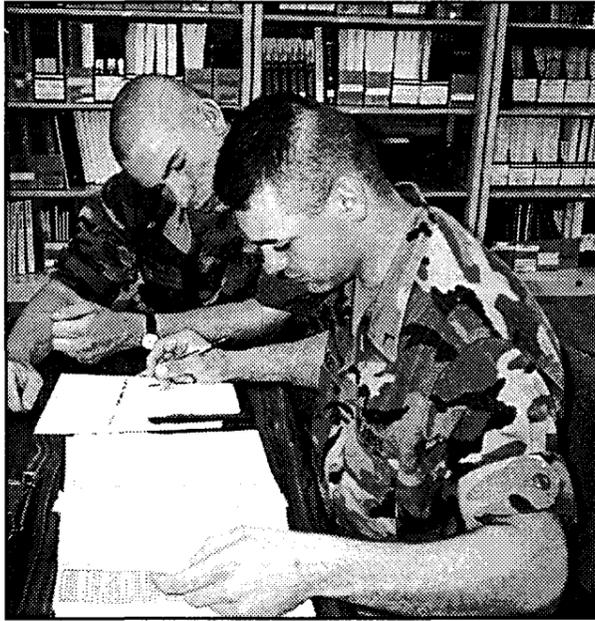


Photo by June Johns

STUDYING UP— Pvt. Patrick Cunningham, left, and Pvt. Robert Hawley review information about correspondence courses at the Education Center.

friendly and private."

Chaney has been coordinating the FAST program at Redstone Arsenal for over eight years. Prior to that, she taught private school, then went back to college, earning her BSED degree in secondary education.

If you like to learn on your own, you might want to pay a visit to Katherine Citrano, librarian at the MOS Library.

Technical manuals and information booklets on correspondence courses are just a minute sampling of the over 12,000 reference volumes available for perusal by military personnel and retirees, reservists, National Guard, and

civilian employees, according to Citrano. In addition, this is the place contractors go to do background research when developing proposals for government work, Citrano noted.

"Whether trying to repair a truck or advance their education, (the MOS Library) pertains to all facets of (patrons) lives—it's all here at their fingertips," Citrano said.

It's not unusual for researchers to come from Birmingham or Tennessee, as this MOS Library is the only one in the area. In fact, it's not unheard of for representatives from allied countries that have purchased older Army hardware, such as Hawk missiles, to be found at this library.

Citrano is well qualified in her position as librarian for the MOS facility, having over 20 years experience in library work in all areas except medical. During the course of her governmental career, Citrano has received requests for assistance from a variety of sources, including the Pentagon.

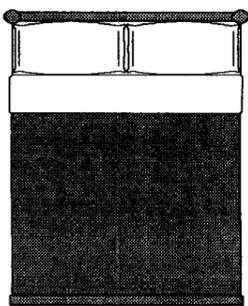
Both Citrano and Chaney are contract employees supplying support services, working for the educational and training division of Analytical Services Inc., a private company based in Huntsville.

Additional education-related services are available at the Education Center, building 3222 on Snooper Road. The hours of operation are Monday through Friday, from 7:30 a.m. to 4:30 p.m.

For those interested in taking advantage of the free services the Education Center has to offer, there isn't a better time. Citrano and Chaney reported that the center has undergone a transformation over the last two months. The center's layout is more spacious, allowing easier accessibility to research information. Gone are tables of equipment, replaced by spacious reading and working surfaces, accompanied by comfortable chairs.

For more information on the Education Center, call 876-9761.

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Desktop delivery...

RSIC's new data bases bring the library to the office

By Sandy Riebeling

The Redstone Scientific Information Center has gone virtual. No longer do you have to go to the library and look up sources to find the latest technical information for specs and standards. RSIC now offers access to 36 data bases, three of which provide full journal text right on your desktop computer.

"People who develop requirements or manufacture materials for the government need to know the latest changes on specs and standards," Martha Knott, acting director for RSIC, said. "Being able to look it up the information from your desktop guarantees the latest information."

RSIC now offers an index for the Engineering Resource Center's Specifications and Standards available through the Information Handling Service. This resource provides on-line access to bibliographic data for military specifications and related documents as well as commercial standards from the United States, international and non-U.S. national standards organizations.

The newest data base additions are Proquest Direct and Science Direct; both offer full text from the desktop.

Proquest offers access to thousands of journals in four major areas: military, management, computing and telecommunications.

"This service would benefit almost anyone in working in these fields or those who are in school," Knott said. "When someone is working late at their desk and needs information on a specific subject, all they have to do is go into the data base, put in some key words, and they can read the article right there. It's fast, convenient and gives them the latest information available on the subject."

Science Direct was added last December. It is a similar data base but offers strictly science-related journals.

"Most people don't know what they have available to them through their own computer," Knott said. "To access the data bases, you have to be an authorized user of the library, which means having an I.D. and pin number. You also have to have an Internet browser. That's it."

To become an authorized user simply means getting a library card. Military and federal civilian employees can register on-line at the RSIC home page. Contractors must get an authorization card filled out and turned into the library.



Photo by Sandy Riebeling

INFORMATION HIGHWAY— Knott, with reference librarian Mattie Jones, right, performs data base searches for customers with specific technical questions.

Users of the system can then access any of the data bases from computers located on the Arsenal. There are 33 data bases that are called indexes. If a user locates a journal listing in the index, he or she can make an on-line request to the library to copy and send the information.

"Every morning at 6 a.m. we run a copy of requests," Knott said. "We usually answer the request in less than 24 hours. We are here to provide the best possible service and this is one way we do that."

Many of the journals available electronically are also available in hard copy in the library. Yearly subscription prices for journals range from about \$50 up to their most

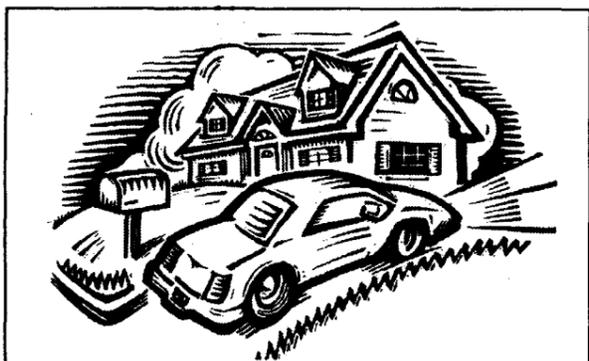
expensive at \$10,000.

"We are trying to offer as much as possible through the data bases in an effort to go paperless," Knott said. "It's also a better way to provide service to our customers. They don't spend the time it takes to come down here and search manually."

RSIC data bases, on average, are searched or used about 600 times a month. Knott expects an increase in use as more people hear about the service.

The Internet address for RSIC's site is: <http://rsic.redstone.army.mil>.

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Realistic portrayal... 'Saving Private Ryan' reminds D-Day vet of fateful time in history

By June Johns

The frightening images portrayed in Steven Spielberg's World War II epic, "Saving Private Ryan," were all too real for John Sands.

Sands is a material handler at the Sparkman Center. Fifty-five years ago, he was an Army private, accepting his role in one of history's greatest military invasions.

The movie was startlingly authentic in its portrayal of the fear, danger, and death faced that historic day. There was, however, one glaring cinematic inaccuracy in the film, according to Sands; "Saving Private Ryan" did not take note of the role played by thousands of black soldiers who went ashore that fateful day.

Sands was one of an estimated 1,500-2,000 black infantrymen who plunged into cold, waist-deep water and trudged ashore on France's Normandy Beach that fateful June 6, 1944, known as D-Day. These black soldiers, so woefully neglected in the Academy Award-winning film, played their part in nothing less than a fight to determine who would dominate the world — Allied forces or the brutal Axis armies led by Adolph Hitler.

"Operation Overlord," D-Day's official code-name, involved the largest amphibious invasion in history. It involved 175,000 men from the United States, Great Britain, Canada and six other nations attacking France's stormy beaches in 11,000 planes and 5,300 ships. Troops came ashore at five designated locations at Normandy, code named Sword, Juno, Gold, Utah, and most famously, Omaha Beach.

By the end of "the longest day," almost 11,000 soldiers lay dead or wound-

ed, with Omaha Beach experiencing some of the toughest fighting and steepest casualties.

Sands came ashore on Omaha Beach at approximately 10 a.m., along with the other members of his segregated, all-black ammunitions support unit, the 668th Ordnance Ammunition Company.

The then 19-year-old played his part in setting up an ammunition supply point needed to distribute bullets, grenades, and explosives to the fighting soldiers. Sands' job was to get the potentially explosive ammunition off the boats using land/amphibious vehicles, and transport the cargo to the beach. It was one of the scariest times of his life, Sands noted.

"Everywhere comrades were lying dead in the water and dead on the beach. It was one of the most awesome sights I've ever seen. You knew (death) could happen to you at any second, but you had to go on," he said.

The barrage of gunfire never ceased, Sands remembered, as he witnessed fellow soldiers felled day and night by gunfire.

Now 74, Sands still keeps handy a copy of "The D-Day Prayer" radio broadcast presented by President Franklin Roosevelt the evening after the invasion had begun.

After two weeks of fierce fighting, Allied troops captured the Normandy Beach and began the long trek inland. As they marched on toward liberating Paris, Sands and his fellow soldiers viewed the bombed-out, completely decimated cities so accurately portrayed in "Saving Private Ryan."

Hedge groves became constant sources of concern for soldiers such as Sands. They didn't know what these natural "enemies" might hold. In addition, they made excellent locations for Axis soldiers to hide and fire at Allied troops.

As the troops moved toward Belgium, and fought the inevitable conflict known as the Battle of the Bulge, Sands worried that Hitler's prophecy of "eating dinner in New York on New Year's Eve," might become an ugly reality.

Sands noted that fighting during the Battle of the Bulge became so intense that at one point "even Army cooks were carrying rifles for protection."

Until fresh American troops arrived to help with the fighting, ultimately causing a large bulge or break in the enemy's line of defense (hence the name Battle of the Bulge), Allied soldiers worried they might have to retreat, Sands said. "It took a toll on everybody," he reflected.

Allied soldiers not only fought against fierce German Panzer divisions, but also struggled against Nazi propaganda promoted over the airways. "On some people, it was very effective in lowering morale," Sands remembered.

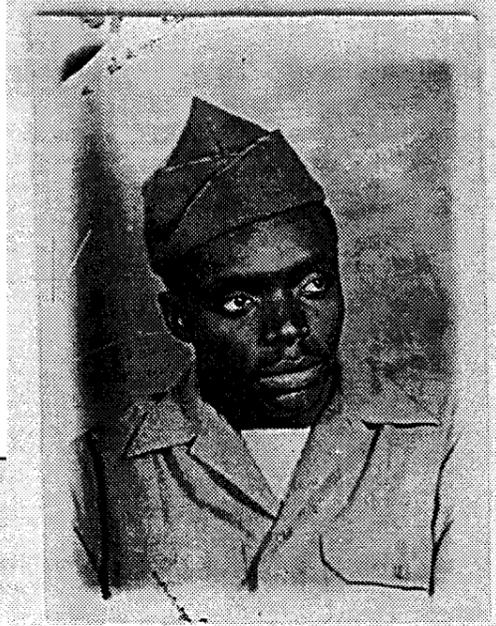
Also affecting some soldiers' morale were the segregated facilities. Sands remembers separate PX facilities for blacks and whites when he was stationed in England for several months, training for what later was revealed to be the D-Day invasion.

Once a British officer and his young son walked by where Sands was on guard duty. The boy struck Sands' hand. When Sands asked why, the boy said he'd been told the black would rub off on him.

Then there were stories that black soldiers would sprout tails and horns during a full moon, Sands noted.

Throughout, Sands maintained his positive attitude, as well as his belief that he would make it out alive, crediting his positive philosophy of life with the strong religious faith he learned from his parents and grandparents.

"My father and grandfather, in particular, had given me a beautiful sense of value in myself. Hate just wouldn't come up in me," Sands said.



Courtesy photo
D-DAY VET— Fifty-five years ago, Sands served as an Army private during World War II.

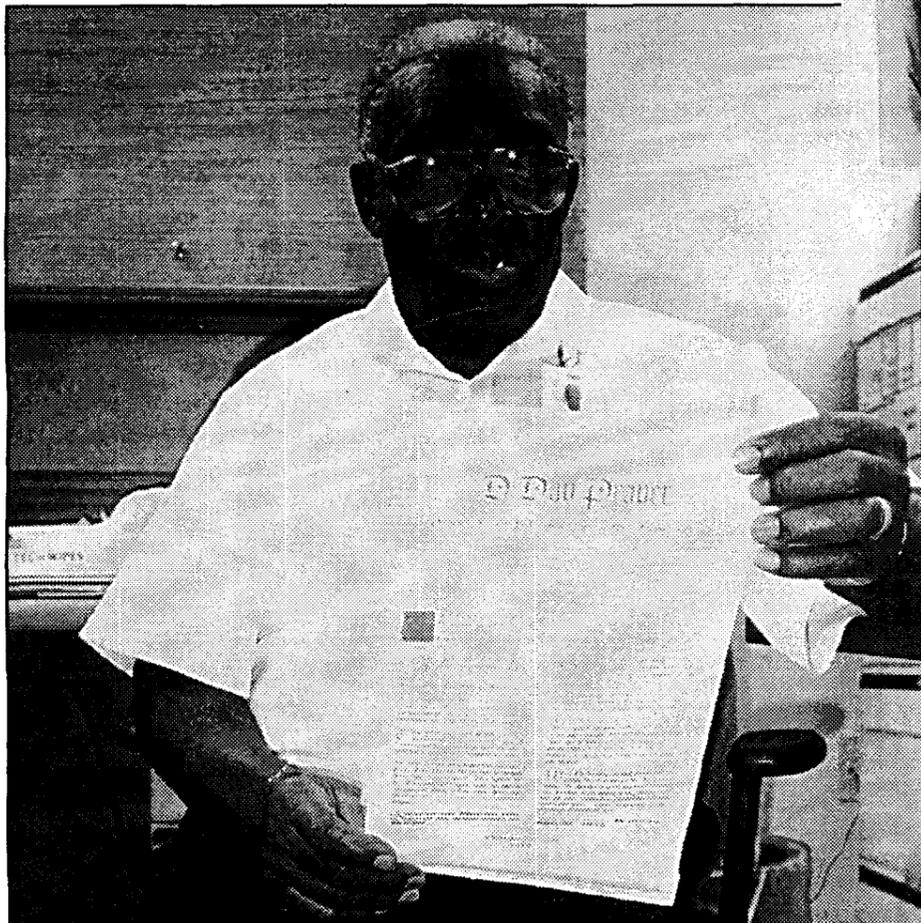


Photo by June Johns

CONSTANT REMINDER— Sands keeps a copy of President Roosevelt's "D-Day Prayer" at his Redstone work station.

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With community project...

NCO color guard team performs at veterans home

By Michael Lee

Each class that graduates from Advanced NCO Course at Redstone is required to complete a community project. The project they choose is generally left up to the class and class leader, and is approved by their small group leader.

Class 1-35-C42-007-99 chose to do the color guard team for the National Nursing Home Week ceremony held May 10 at the Floyd "Tut" Fann State Veterans Home.

SFC Michael Jarrard, the class leader, had contacted the veterans home's director of activity, Angela Shirley, and discussed

how the class could help. She suggested that the class participate in the ceremony. SFC Rick Williams volunteered to be the NCO-in-charge of the color guard team and coordinated the project.

The ceremony went well, but the most important part was the interaction between the students and the veterans. Before and after the ceremony, the students took the time to visit with the veterans. Students enjoyed the war stories; and I know this brought up morale and let the veterans know they are not forgotten.

Members of class 1-35-C42-007-99,



Photo by Antoinette Brown

FLAG RAISING— Students from the NCO Academy raise flags during the ceremony May 10 at Floyd "Tut" Fann State Veterans Home.

which will graduate June 11, include SFC Glenn Banks, SFC Kenneth Banks, SFC Antoinette Brown, SFC Thomas Dubites, SFC Julio Hernandez, SFC Michael Jarrard, SFC Jeffrey Post, SFC Stephon Primous,

SFC Kevin Sherrill, SFC Harry Stevens and SFC Rick Williams.

(Editor's note: SFC Michael Lee, the author, is small group leader for class 1-35-C42-007-99.)

New 'I' series savings bonds now available

Benefits described during 1999 savings bond kickoff rally

By June Johns

A new type of savings bond, known as the "I" series," is now available and offers "more of a hedge against inflation," according to John Helmke, area manager for the North Alabama Savings Bonds Marketing Office, Bureau of Public Debt, U.S. Treasury Department.

Helmke spoke May 20 at a kickoff rally at Sparkman Auditorium, which was designed to promote the annual Savings Bond Drive in June.

This new bond series, which is available in several increments ranging from \$50 to \$10,000, first became available Sept. 1, 1998.

The earnings rate for "I" bonds is a combination of a fixed rate, which will apply for the life of the bond, and the inflation rate. The 5.05 percent earnings rate for "I" bonds bought from May through October 1999 will apply for the first six months after their issue. The earnings rate combines the 3.30 percent fixed rate of return with the 1.72 percent annualized rate of inflation.

The bonds' semiannual earnings rates are subject to change twice a year: on May 1 and Oct. 1. These bonds, which are purchased at face value, earn interest for as long

as 30 years. Interest is compounded every six months, and is accrued monthly.

At present, Redstone Arsenal workers cannot purchase this new bond series through the payroll deduction plan. However, these bonds can be purchased in one lump sum from any local financial institution, Helmke said. He went on to speculate that RSA employees would be able to purchase the bonds under the payroll savings plan later this year.

Helmke noted that two historical persons, well-known to Alabamians, are featured on some of the "I" bond denominations.

Helen Keller, who hailed from Tuscombua, is included on the \$50 "I" bond, and Gen. George C. Marshall's likeness graces the front of the \$500 series.

The eight denominations of "I" bonds that can be purchased at face value include \$50, \$75, \$100, \$200, \$500, \$1000, \$5000 and \$10,000.

"These bonds make excellent savings tools for children's and grandchildren's college education needs,"

Helmke said.

For more information on the new "I" savings bond series, or other savings bond-related information, click on the following web site address: www.savingsbond.gov. Among other information, this Internet site offers a free savings bond software package, known as the "Savings Bond Wizard" program, which can be downloaded onto a home computer. Included among the information this program offers are details on redemption rates and earnings yield. This program also allows the user to keep a running inventory on purchased savings bonds for the following: E bonds, savings notes, EE bonds, and the "I" series. The information in this program is updated every May 1 and Nov. 1.

If you would like more information on the savings bond drive, as well as how to enroll in, change, or increase your participation in the payroll savings plan, call campaign coordinators Geanine Lehmann 842-7568 or Debbie Boyer 876-7104.

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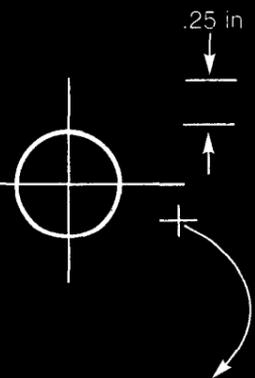
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I believe I can fly...

Space Camp scholarships launch students into summer

By Sandy Riebeling

"Why I want to go to Space Camp..." Essays on this topic earned 10 local students the opportunity to attend Space Camp, Space Academy or Aviation Challenge on a scholarship provided by several organizations at Redstone.

During his remarks to the young winners, Col. Steven Hamilton, deputy post commander, asked the students to keep in mind three things while attending their respective summer camps.

"The first thing I would ask is that you keep an open mind," he said. "The second thing is to do the best you can while you're there and third, be a team player. It's the same thing we in the Army do every day. It helps us to be the best Army in the world."

Hamilton also pointed out that the foundation for space exploration began here at Redstone Arsenal and with Army missile research.

"The Aviation and Missile Command stands for excellence," Hamilton said. "The soldiers depend on us to be the best. When you're at camp, you represent the Army—do your very best."

"Most of all, we want you to have fun. You wrote great stuff. You've earned it. Go and have a great time."

The Space Camp Awards program is possible through the funding support of six Redstone organizations: Active and Retired NCO Spouses Club, Officer and Civilian Women's Club, Thrift Shop, Association of United States Army, United Services Planning Association and Independent Research Agency, and the Sergeants Major Association.

The Army Community Service Education Committee is responsible for organizing the event each year. As chairperson for that committee, Capt. Michael Newell thanked the sponsors who have so diligently and generously given to the program over the last 15 years.

Mary Gustine, chairperson for the Space Camp/Space Academy awards program for the last eight years, announced this was her last year to be a part of the program. She retired this year after 32 years of teaching and is moving to Texas to be with her family. She received an award for her service to the program.

"This program has been dear to my heart," she said. "We have some great kids doing great things."

Each winner read his or her essay to the audience of proud parents and honored guests. A representative from the U.S. Space and Rocket Center attended the ceremony and encouraged the students to look him up when they arrived at camp in June.

The ACS committee received 26 essays in the competition this year. A judge was provided from each of the sponsoring organizations to score the essays on originality, sincerity, grammar, spelling and content. Each student had to have at least a C average to compete.

The following is a list of the winning students with excerpts from their essays:

Space Camp winners

Caroline Stoltz, daughter of retired Maj. Gary and Kris Stoltz, just finished fourth-grade at Harvest Elementary. She writes, "I have always been fascinated by space... I would like to attend Space Camp because I believe research being done in space could help solve a lot of the world's problems such as hunger or environmental problems and I would like to be a part of learning how to fix some of these problems..."

Peter Halupka, son of retired Maj. C.W. and Barbara Halupka, just finished fourth-grade at Harvest Elementary. He writes, "If I were to go to Space Camp I would want to learn more about airplanes and space. When I pass the SR-71 by the interstate it makes me wonder what it is like to fly across the U.S. in a few hours...I'm eager to attend Space Camp so I can learn more about airplanes and space."

Seth Galinaitis, son of SFC John and Maria Galinaitis, just finished fourth-grade at Williams Elementary. He writes, "I have dreams about living on Mars and maybe someday discovering unknown galaxies... Going to Space Camp would be my first step to becoming an astronaut... When I look at the stars, I think it would be fabulous to travel to them. I want to go to Space Camp because space and astronomy are my favorite subjects. I think Space Camp would be more fun than Disney Land."

Michael Cavalier Jr., son of Maj. Michael and Carrie Cavalier, just finished fourth-grade at Williams Elementary. He writes, "In second grade, Ms. Porter, my teacher, gave me a



Photo by Sandy Riebeling

READY TO GO— Ten students will be going to either Space Camp, Space Academy or Aviation Challenge this summer, thanks to the generosity of several organizations at Redstone. After the awards ceremony, Aviation Challenge counselor Robbie Robertson, left, talks to winner Joey Defourneaux, with his mother, Lynn, and sister, Emily.

packet on space... Since that day, I have been really interested in space and space flight... My personal goals include education and training in space exploration. I would also like to train to become a pilot before I graduate high school."

Stephen Wank, son of ret. Maj. Robert and Sabina Wank, just finished sixth-grade at Grace Lutheran School. He writes, "I want to go to Space Camp mostly because I am interested in astronomy... Every time I go to the Space Museum, I always see the kids at camp having a great time... I'm looking forward to attending Space Camp. I will do my best to learn all I can and make Redstone Arsenal proud they sent me."

See SPACE CAMP on page 9



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Helping the children...

Police work overtime for school bus mishap victims

By June Johns

It started out as a quiet day for Sgt. Melynda Dugdale, a DoD police officer with the Provost Marshal Office. The call that came into the police station at approximately 2:40 p.m. May 19 changed all that.

Moments earlier, a school bus, heading north on Rideout Road, ran into the rear of another school bus transporting Redstone Arsenal children from Williams Elementary School. The accident, which took place approximately a half-mile south of Overlook Road near Gate 9, involved almost 66 school children, as well as two bus drivers. Within minutes, emergency personnel were on the scene.

"It was devastating when I arrived with the Provost Marshal, Maj. (Janice) Smith. It was a very emotional time for everyone. Most of the children on those buses knew me and I knew them," Dugdale said.

This work day didn't end until well past 10 p.m. for many at Redstone Arsenal. Overtime hours added up as RSA personnel kept busy notifying frantic parents, disseminating information and assisting the families any way possible.

"If a family did not receive a call on the night of the accident, it is simply because the enrollment cards provided to the Transportation Office by the parents had not been updated with new telephone numbers," Dugdale said. She was also among those attending a trauma debriefing sponsored by Behavioral Medicine which was held at Bicentennial Chapel two days after the accident. "Although the attendance was low, I feel the children who did attend benefited greatly," Dugdale said.

As an added touch, Dugdale is demonstrating concern from the Provost Marshal Office for the accident victims by supplying goodie bags for each of the 66 children. These gift bags will contain an assortment of items, including a junior police badge, coloring books, a pamphlet on school bus safety, balloons, and comic books. She anticipates having all the bags distributed by the middle of next week.

Dugdale was by no means the only person to go above and beyond when it came to aiding the school bus accident victims. Col. Steven Hamilton, deputy commander, and Smith, provost marshal, came to the accident site, and assisted families well into the night.

Dugdale also credits the successful work of the police and fire personnel, HEMSI, the Madison County Rescue Squad, and the Transportation Department for their cooperative efforts. In addition, she noted the work of the emergency staff at Huntsville Hospital, who successfully implemented their disaster plan.

It's all in a (long) day's work for folks such as Dugdale. But it's all a labor of love for people such as this police officer.

"Everyone knows that the children of Redstone Arsenal are also my children," Dugdale said.



Photo by June Johns

GIFT GIVING— Dugdale prepares gift bags for children who were victims of a school bus accident on the Arsenal.

Space Camp

Continued from page 8

Amberlee Jade Wyatt, daughter of Maj. Lee and Cynthia Wyatt, just finished sixth-grade at Highlands Elementary. She writes, "...my dream [is] to become a lady astronaut and what better place to begin my training than at Space Camp. I can't wait to see what it feels like to move around the moon by using the one-sixth Gravity Trainer and spin like I'm out of control in the Multi-Axis Trainer... Going to Space Camp will help me realize the first important step for my dream and to work with some great experts will be a treat."

Space Academy winner

Taylor Michelle Wright, daughter of retired SSgt. Dennis and Sharon Reagon, just finished eighth-grade at Westminster Christian Academy. She writes, "I believe that space technology is the key to the future and it is important to continue doing research in space to find cures for diseases, improve communications, advance computer technology and basically make life on Earth better... What a spectacular sight it would be to travel to the moon and view Earth from its surface. I can't imagine what the early astronauts like Alan Shepard or John Glenn felt like when they got their first glimpse of her."

Challenge winners

Joey Defourneaux, son of retired Senior Chief Petty Officer John and Lynn Defourneaux, just finished seventh-grade at Covenant Christian Academy. He writes, "For as long as I can remember, I have had one major goal in life. That goal is to become a jet fighter pilot. I may not be the strongest or smartest person for this trip to Aviation Challenge but you will not find anyone with a greater desire to go... I would love to win for the

many reasons I've stated before. But I also want to give my family a reason to be really proud of me."

Brian Gulden, son of Lt. Col. Jack and Debbie Gulden, just graduated eighth-grade at Discovery Middle School. He writes, "When my dad told me we were moving to Huntsville, Alabama, I wasn't too happy. I liked where we were living in New Jersey and I didn't want to leave... My dad tried to cheer me up by telling me all the neat things about Huntsville. 'You can go to Space Camp' 'Space Camp? What's Space Camp?'... Although I don't know a lot about flying, I would love to learn... If I were selected for this wonderful experience, I would try my hardest to succeed in every challenge I'm faced with."

Teresa Zimmerman, daughter of retired SFC Rich and Ellen Zimmerman, just finished the ninth-grade at Sparkman High School. She writes, "Imagine where we would be today if Armstrong had never set foot on the moon and spoke the words, 'One small step for man, one giant leap for mankind.' I could never imagine he really knew the truth and power in his few words... There are many more leaps ahead for mankind, and I shall hope I may be the one to jump."

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Labor of love...

Passion for Corvettes drives retiring colonel to new job

By June Johns

Col. Jim Hornaday has an expensive obsession, and there doesn't seem to be an end in sight. But then, Hornaday really isn't looking to end it. In fact, he will soon turn it from a hobby into his profession upon his upcoming retirement. Hornaday's passion is for the smooth lines and high performance of that classic American car, the Corvette.

Hornaday's love affair with this slice of Americana began in 1964 when his brother, an Air Force fighter pilot, left his two-year-old Corvette with Hornaday during the weeks he attended survival school. Hornaday's enthusiasm for the classy chassis survived long past his 16-week car-sitting stint.

The colonel began indulging in his passion in 1970, when he purchased his first Corvette, a 1966 coupe he bought while stationed in Germany.

From there, his car count has mushroomed to 13, which occupy 6300 feet in his new 10,000-square-foot combination house/workshop, located off Railroad Bed Road in Harvest. Upon retiring, Hornaday plans to devote his time to the exclusive pursuit of buying,



Photo by June Johns

FAST FORWARD — Upon retiring from the Army, Hornaday will devote his efforts to refurbishing and restoring Corvettes.

restoring, and "offering up for adoption" these renovated sports cars.

Refurbishing the ultimate in muscle cars is a time-consuming venture, Hornaday explained, requiring 8-10 months, or an estimated 5000 hours, of work for each car. Parts and labor for such work can add up to \$50,000. Unlike many other professional restoration shops, Hornaday said he plans to work "on one car at a time" in order to assure the work gets done, and gets done right.

Hornaday scouts the entire United States to find Corvettes to repair and refurbish. Cars have come from as far as New Mexico, Minneapolis, and New Jersey. Parts for rebuilding these cars also come from all over, with Hornaday purchasing them from swap meets, supply houses, newspaper ads and, increasingly, the Internet.

The lowest amount Hornaday has paid for a Corvette was \$600. Obviously in need of a lot of repair, this rusted, two-door coupe, was purchased by Hornaday just outside of Orlando, Fla.

"People assume that because Corvettes are made of fiberglass they can't rust. Oh, but they can! You see, Corvettes are not made completely of fiberglass. The 'birdcage' or understructure and frame rusts just as much as any other car's. Everything on this car was rusted except the two doors and the roof. And the roof had a shotgun hole in the middle of it," Hornaday said. "It was like saving a car from extinction."

Hornaday's new career choice is obviously a labor of love, as he displays photo albums filled with snapshots of his fiberglass beauties, showing them off much like a proud father would display pictures of his children.

The Corvette's history dates back to 1953, when only 300 cars came off the assembly line. It wasn't until a decade later that this sports car's sales took off with the same rapid speed as the automobile itself does. Hornaday credited the increase in the car's popularity with its then-revolutionary torpedo-like design.

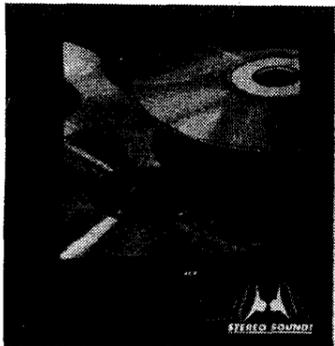
Hornaday's favorite model was the 1965 Corvette, which could be credited to his sense of nostalgia, as that coincides with the year he graduated from high school. Of course it could also be due to the 396-cubic-inch, 425-horsepower engine the car came with, supplying "more power than anyone would ever need," Hornaday said.

And what does Hornaday credit the Corvette's lasting success to? "It's been touted as America's only true sports car," he noted. "When Ford converted its Thunderbird from a two-seater to a four-seater in 1958, it left the Corvette as the only American-built two-seat sports car."

Hornaday reports that Shirley, his wife of 15 years, is very supportive of his passion for Corvettes, explaining "she knew I had this problem when we got married."

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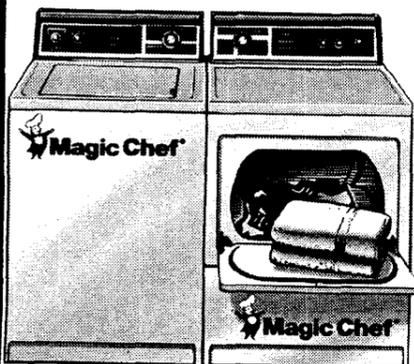
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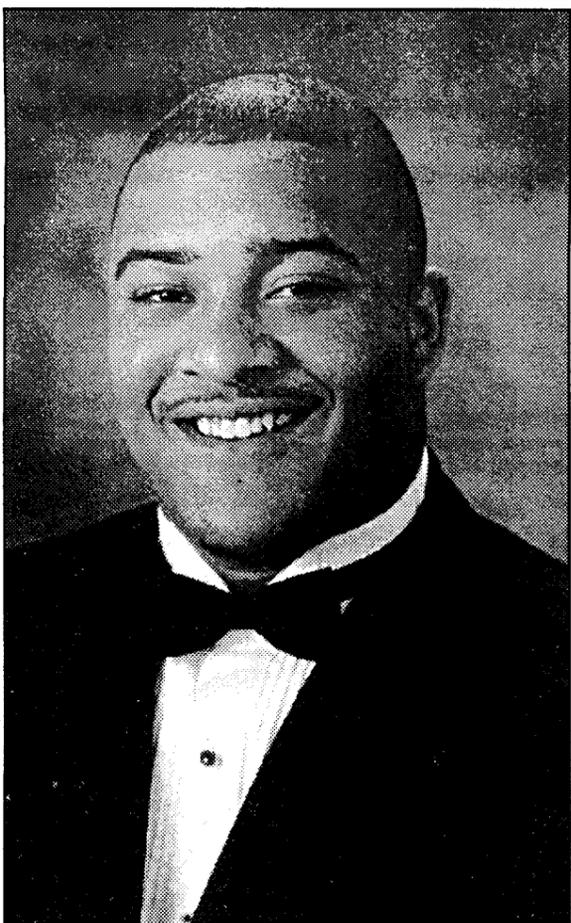
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Senior class photo

Honor graduate...

Michael Mathis, 17, son of Marcella Mathis of the Civilian Personnel Advisory Center, has received the Scott Lawrence Award as a 1999 graduate of Westminster Christian Academy. This was in recognition of his leadership, determination and courage. He also was chosen as the "Best All Around Student" by his peers and received various other citations. Michael plans to attend the University of Alabama-Birmingham.

Among MWR activities...

Enjoy a laugh at first 'comedy jam' Saturday night

The MWR Sales & Marketing office, phone 955-7399, listed the following events for Morale, Welfare and Recreation:

- **Comedy show**— The BOSS Committee and the Recreation Center present the first Comedy Jam. The Comedy Jam— which is to become an annual event — features Steve Brown, Bugz Bunny, Dekeys, and Redstone's very own Denise Tyler. These comedians have appeared on BET's Comic view, and all around the Tennessee Valley. (Adult humor and audience.) The Comedy Jam will be held at the Post Theater, building 3712 at 9:30 p.m. Saturday. Tickets are \$8 in advance or \$10 at the door. They can be purchased at the Recreation Center, building 3711, phone 876-4531; Perfect Cuts Barber Shop, 533-7525; the 832nd Ordnance Battalion personnel administration center, 842-2249; or from any BOSS member. For more information, call Spec. Hague 876-4345.

- **Flying activity**— Redstone Arsenal Flying Activity will have its annual Open House from 10 a.m. to 4

p.m. Saturday. There will be food, fun and flying for the entire family. Always wanted to fly? RAFA instructors will be on hand to take you for a ride: \$20 fee for a half-hour of flight time as a passenger. Get to the RAFA Open House early to sign up for a flight time, enjoy the food, and inquire about membership! The first month's dues of \$23 will be waived for new members signing up June 5. For more information, call the Redstone Arsenal Flying Activity 880-9495.

- **Swimming pools**— The Redstone swimming pools are now open. Season swim passes are on sale at Outdoor Recreation, building 5129 and at the Recreation Center, building 3711. Family season passes are \$40, individual season passes are \$30. Daily passes and guest passes can be purchased at each pool site for \$2 per person. There are three pools available for the Redstone community: Pool 1 on Vincent Drive, Pool 2 at the Challenger Club, and Pool 3 on Goss Road. Pool 3 will be temporarily closed June 12-13 for water line work.

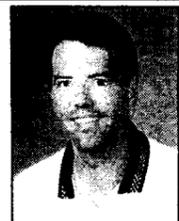
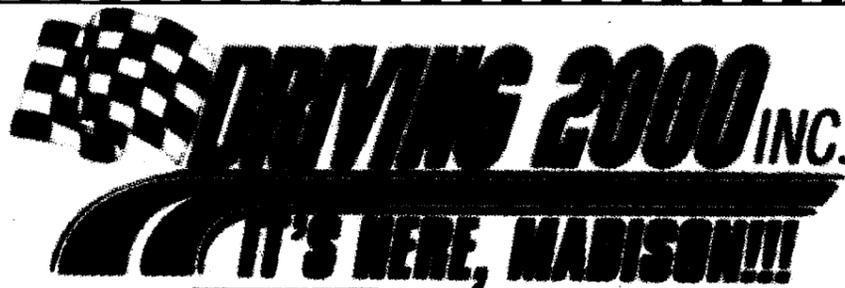
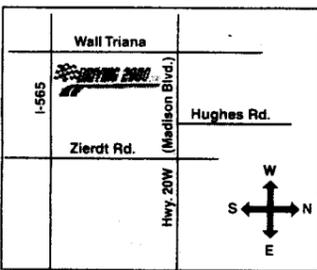
Swim lessons are available this summer. For more information, call Outdoor Recreation 876-4868/6854.

- **Youth golf**— Register your children for the Youth Golf program! Youth Golf is for ages 10-18 and you can register now at the Youth Center, building 3148. The cost is \$20; and clinics will begin June 8. Clinics will be held each Tuesday and Thursday for four weeks. Play days will be every Thursday throughout the summer. Instructors include the RSA golf pro and staff. Registration for youth golf will end June 7. For more information, stop by the Youth Center or call 876-2255.

- **Turkey Shoot**— A turkey shoot will be held 10 a.m. to 1 p.m. June 12 between the trap and skeet ranges at Outdoor Recreation. Cost is \$4 per shot; and prizes are awarded. Outdoor Recreation will provide weapons or you can bring your own 12-gauge shotgun. Active duty, retired military, DoD civilians, Redstone contractors, family members and guests are invited. For more information, call 876-4868.

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Moving on...

Adventurer calling it quits after nearly four decades in lab

By Margaret Banish-Donaldson

Dr. Kelly Grider, one of the most familiar faces in the Systems Simulation and Development Directorate of the Missile Research, Development and Engineering Center, plans to retire June 1.

"My position as director of SSDD has now come of age, and it is time for me to move on," he says. "I want to spend more time with my wife Murlene and our six grandchildren. I might look for part-time work after October."

After serving in the Air Force and receiving his bachelor's degree in electrical engineering from the University of Alabama, Grider went to work for General Dynamics in Fort Worth, Texas. A year later he left to join Martin Marietta in Orlando, Fla. In 1961 Grider came to Huntsville to attend graduate school at the University of Alabama.

In October 1962, Grider began his career at Redstone Arsenal. As the division chief in the former Guidance and Control Directorate, he was a major influence in the development and operation of the Advanced Simulation Center. Following reorganization in 1977, Grider was assigned to the SSDD, where he continued to expand his horizons by serving as deputy director until 1986 when he became the director. During his tenure at RSA, he was appointed to the senior executive service in January 1982.

"Under my leadership and direction, the ASC has come to be universally recognized as an unparalleled world-class missile hardware-in-the-loop simulation center," Grider said.

Simulation is used to assess system modifications and to perform cost trade-off and tolerance studies. Simulation allows hardware and software design issues to be addressed and resolved before introduction into aviation or missile hardware. Not only does this save time, but also allows more cost-effective design improvements to be developed and tested.

"The application of HWIL in the ASC to many of the Army's missile development projects over the past 25 years has led to demonstrated cost savings, which have repaid the investment in the ASC many times over," Grider said.

In his position as director of the ASC, Grider played a major role in establishing the Missile Research, Development and Engineering Center as the Army's preeminent location for all aspects of missile system modeling and simulation. The ASC was expanded from its original four facilities to 12; with additional facilities for HWIL simulation of missiles guided by millimeter wave radar, imaging infrared sensors and combinations of these guidance modes.

"We have some very good people in this Center who I have associated with on a day-to-day basis," Grider said. "This has contributed to millions of dollars being saved in limiting flight testing by simulation before and after flight tests and improved products for the Army."



Harold Garner/Photo Lab

COMPLETING CAREER— Grider, who arrived at Redstone in 1962, plans to retire June 1.

Grider's dedication to his work has brought him numerous honors and awards, some of which include the Meritorious Presidential Rank, and the Distinguished Engineering Fellow by the College of Engineering, University of Alabama.

He finds time to chair source selection advisory councils, numerous source selection evaluation boards, and senior review teams. Grider also has produced several in-depth technical reports relating to missile systems analysis and evaluation.

"During his career with us, Kelly always has been very competent and dependable," Dr. William McCorkle, director of Missile Research, Development, and Engineering Center, said. "He is, above all things, an adventurer, and I know this next chapter in his life will be an enormous triumph. I will miss him."

The Stevenson native received a bachelor's degree in 1958, a master's degree in 1965 and his doctorate in 1972 from the University of Alabama.

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Showing heart...

AMCOM volleyball team struggles to second straight title

By Skip Vaughn

Last year the HHC AMCOM volleyball team breezed through the regular season and tournament unbeaten. But this year was a different story.

AMCOM struggled to a 7-5 record in the season, good enough for third place in the four-team Eastern Conference. Then came the postseason tournament.

Showing even more heart than last year's more talented team, AMCOM beat Bravo Company 16-14, 13-15 and 15-8 for the tournament championship May 25 at Pagano Gym

"It was a struggle and they played us tough but we were able to pull out the win," Frederick DuBose of AMCOM said. "They were a good team."

DuBose, a spiker, got AMCOM off to a good start with five kills in the opener. Bravo led 10-1 in that game before AMCOM mounted a winning comeback.

Alan Cranford led Bravo to a 15-13 win in the second game with three kills, a block for a point, and a service ace. Jason Wood and Michael Bronson added two kills apiece as Bravo forced a decisive third game. A win by Bravo Company, which advanced from the losers' bracket, would force another match. A win by AMCOM would settle the issue.

The score was tied 3-all when AMCOM took the lead for good. DuBose had three kills while Christopher Chancellor and Tony Madero added two apiece for the winners. AMCOM outscored Bravo 12-5 down the stretch.

Madero, the coach and setter, assisted on many of his team's points throughout the night. He was a force in the second game with two kills, two blocks for points and a service ace.

Edward Mendez added two kills in the first game for AMCOM which went 4-0 in the tournament.

"He's our MVP," Madero said of Mendez. "When we're playing bad, he still helps us win it. He was the cool head of the group. And I also want to thank our bench people because they came out every game. They might not have played but they showed a lot of heart and esprit de corps for the team."

Tim Goodwin had four kills for Bravo in the first game. Bravo, which finished the regular season with a 7-5 record and first in the three-team Western Conference, went 3-2 in the tournament. A postseason highlight was Bravo's win over Headquarters and Alpha Company to advance to the tournament final. Headquarters and Alpha Company, which finished 12-0 in the regular season, had earlier lost to AMCOM.

"I want to thank my team for coming out here and playing very hard," Daniel Suggs, the Bravo coach, said.

"Our team showed a lot of heart coming out here. It was a good competitive game," he said. "Too bad we didn't win the championship. We deserved to win the championship. But it was a good team we played, an excellent team. And hats off to them."



Photo by Skip Vaughn

WE ARE THE CHAMPIONS— Madero lifts the championship trophy while celebrating with his HHC AMCOM teammates.

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Ladies, gentlemen and honored guests...

Redstone Communicators Club tames public speaking terror

By Sandy Riebeling

If the thought of getting up in front of a room full of people and "saying a few words" makes you break out in a cold sweat, the Communicators Club may be just what you need.

"The club offers people a chance to practice their public speaking skills in a non-threatening environment," Roger Yocom, Communicators Club vice president of education, said. "It's self-paced so when you're ready to give a speech, you just have to let us know to put it on the agenda."

The club is a member of Toastmasters International, a well-respected and recognized organization that teaches communication and leadership skills to its members. Specific skills development include public speaking, impromptu speech, leadership, evaluation, teamwork, management and presentation of ideas.

"I joined because I was extremely nervous speaking in front of a group. I hated speech in college," Robbie Holcombe, club member and today's acting Toastmaster, said. "I've been with the club almost a year and I've finished my first 10 basic speeches and did my first advanced speech."

To help members become comfortable speaking in public and teach them the necessary skills, the program offers manuals covering basic principles needed for public speaking. Each new speech assignment includes the criteria to build additional speaking skills.

"The first of the 10 basic speeches is called the 'Icebreaker,'" Frances Maze, vice president of membership, said. "It's a speech about yourself, to introduce you to the other members. It's a way to get you started."

Each of the 10 speeches concentrates on specific areas. The first speech gets a member up and talking to build confidence. Subsequent speeches teach principles such as speaking with sincerity and conviction, organization of ideas into a clear outline, body language, vocal variety, proper word usage, persuasion, presentation and inspiration.

Members work at their own pace, only speaking when they feel they are ready. For each speech there is another member of the group doing an evaluation, so that the member can learn from each experience.

"My evaluations have been very helpful," Maze said. "When I first started, I smacked my lips when I talked and I was the world's worst about saying 'ah.'"

The club actually has a designated "ah" counter listening for speakers who use the phrase while giving a speech. Another member keeps time on the speakers to let them know if they've stayed within the allotted time. All the members rotate responsibilities from Toastmaster, timer, counter, evaluators and grammarian.

"We learn to speak by speaking and we learn to lead by leading," Yocom said. "As members gain experience in the club, they can take on more leadership responsibilities."

The meeting also offers Table Topics which is simply a question opened to the group for impromptu responses, which helps members to "think on their feet," Yocom said.

Because of the benefits of the program, the club is approved as government sponsored

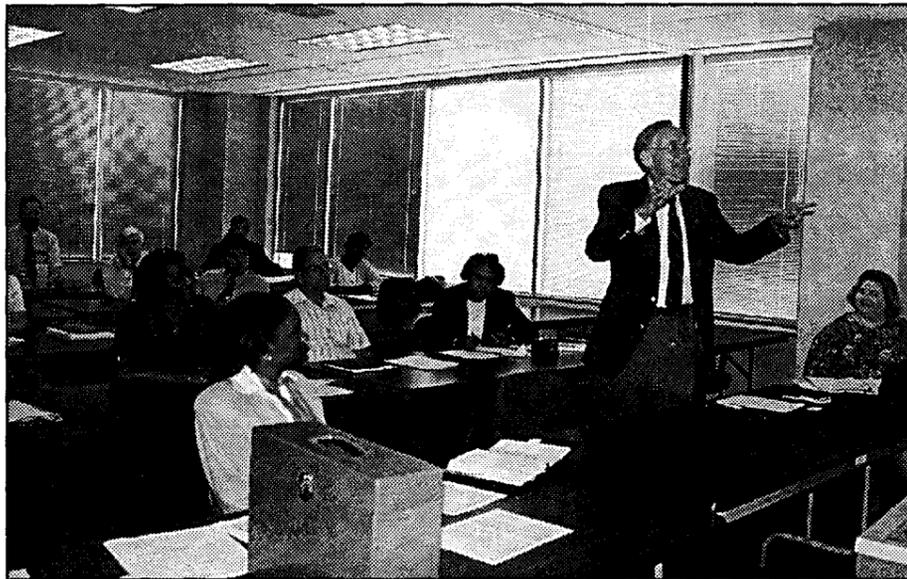


Photo by Sandy Riebeling

Response— Jim Hardy offers an answer to a table topic discussion question.

training which means federal employees can have their dues paid by their employer and receive credit for the training.

While it is educational and beneficial in the job market, members say that is a lot of fun—a great break in the middle of the day.

"We support and encourage each other," Yocom said. "It's a change of pace from the work day and it provides stress relief for me. People bring in their lunch, we talk, laugh, listen. I feel better when I leave."

Members who complete the 10 basic speeches are considered certified Toastmasters and receive a certificate for their achievements. Many members choose to continue in the club on the advanced levels, where they can specialize their speaking skills.

"Now that I'm over my fears, I love it," Holcombe said. "My advanced manual is in storytelling. I'm hoping to go all the way up the ranks to Distinguished Toastmaster within five years."

The Communicators Club at Redstone has 33 members. It is the No. 1 rated club in Alabama, out of 49 clubs, and ranked 49 in the world in its member size division.

For more information on the Communicators Club, call Roger Yocom at 876-4269 or Bradley Huhlein at 313-4908 or visit the web site at: www.geocities.com/athens6341/communicators.htm.

Risk grows with age...

Osteoporosis: Don't let 'silent disease' sneak up on you

By Eileen Bailey

Osteoporosis is often called the "Silent Disease." Osteoporosis is a disease characterized by low bone mass and structural deterioration of the bone tissue. This deterioration can lead to bone fragility and increased danger of fracture. Bone loss can occur with no signs or symptoms noticeable until it is too late. The first noticeable sign may be that when you fall, bump into something or experience a strain, you end up with a broken hip or collapsed vertebra.

Osteoporosis is a major health concern for 28 million Americans. The vast majority, approximately 80 percent, are women. Although rarer in men, one out of eight men over age 50 will have an osteoporosis-related fracture in their lifetime compared with one out of two women. Estimates are that osteoporosis leads to 1.5 million fractures per year, 300,000 of these are hip fractures.

There are certain risk factors associated with the development of osteoporosis. These include the following: gender—women are four times more likely than men; age—the older you are, the greater your risk; body size—small, thin-boned women are at an increased risk; ethnic origin—Caucasian and Asian women are most likely to develop the disease, Black and Hispanic women have a lower but significant risk; hormones—post menopausal women and men with low testosterone levels have increased risk; diet—low in calcium and vitamin D; medications and disease—certain medications and disease processes (hypothyroidism, rheumatoid arthritis and immobilization); family history and lifestyle— inactivity, extended bed rest, tobacco use, excessive alcohol, and excessive caffeine-containing foods.

There are many ways we can prevent the development of osteoporosis. One of the best and easiest ways is to exercise. Some of the best exercises a person can do to prevent osteoporosis are weight bearing exercises. These include walking, jogging, stair climbing, weight training, tennis and dancing. While improving your bone health, these exercises also increase muscle strength, coordination and balance and can lead to a healthier lifestyle in general.

One other easy way to avoid development of osteoporosis is to get enough calcium on a daily basis. The National Osteoporosis Foundation recommends 1,200-1,500 mg of calcium for non-pregnant women age 11-24, 1,000 mg for non-pregnant women 25-49 and

See GSTEOPOROSIS on page 16

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Dorothy Moore/Photo Lab

MAKE A DIFFERENCE— Baird talks to the Civilian Welfare Fund Council members about Junior Achievement programs created to develop work force skills. Students work in collaboration with peers to solve problems, develop team and leadership abilities and practice interpersonal and communication skills.

Redstone volunteers sought to help junior achievers

Program enables young students to learn business from professionals

By Margaret Banish-Donaldson

Junior Achievement can always use more volunteers, says Brett Baird, who heads the program in this area. The regional program, Junior Achievement of Northern Alabama Inc., reaches about 3,000 students a year in Madison and Marshall counties.

"If we added volunteers, we could reach 4,000 to 5,000," Baird said. "And now thanks to Team Redstone's participation, we are bound to exceed that goal."

Team Redstone volunteers are scheduled to step into J.A. programs this August to give practical lessons in business and economics. They will teach just one hour per week for six to eight weeks. The Civilian Welfare Fund Council has volunteered to be the focal point for scheduling and sponsoring this program.

There are morning classes, classes at noon and early afternoon. Volunteers are placed as close to work or home as possible and can teach any day of the week. Volunteers who have a busy or unpredictable travel schedule can team-teach. Team-teaching consists of a co-employee or friend substituting for the primary consultant.

"The program offers children a perspective they can't get from a class-

room teacher because many of them have not been out working in the business or government fields," Baird said. "In this time of need in our nation for government and education to work together more closely than ever before, J.A. provides an excellent linkage."

J.A. designs each program to meet the elementary and middle grades needs.

• For grades kindergarten through sixth, the main stress is on the importance of education in the workplace, the need for staying in school, and the need for life-long learning. Children learn how cooperation and teamwork make things easier. With the help of doughnuts, stickers, and miniature cities sprawled across the classroom floor, J.A. volunteers turn business concepts into fun.

• In the middle school grades, J.A. volunteers go into greater details on how the economy functions. The program promotes three central themes: the economics of households, businesses, and the world marketplace. There is a particular emphasis on staying in school. Students develop decision-making skills and explore future career options.

The newest middle school program is Project Math. It's a supplemental program designed to provide middle school students the chance to relate

with people who routinely use math in their jobs.

"I believe if young people have a chance to understand that their education prepares them for their role in the economy, and how the free enterprise system works, they will be more willing to take advantage of their education," Hal Dilworth, CWFC president, said. "It also gives them a reason to stay in school."

J.A. provides the materials, training and support. Depending on which grade the volunteers teach, they will get one hour to a full day of formal training by J.A.

"Junior Achievement plays a critical role in preparing students to make informed decisions as consumers in the marketplace, employees in the competitive workplace and as citizens in the voting booth," Dilworth said. "With the decline of U.S. manufacturing jobs and the increase in lower-paying service industry jobs, it's more important than ever to help young people understand how to compete for good career opportunities."

People who want to leave their work-day desks to spend a few hours at a chalkboard can call CWFC representative Jack Padley 842-8196 or e-mail him at this address: padleyjw@redstone.army.mil.

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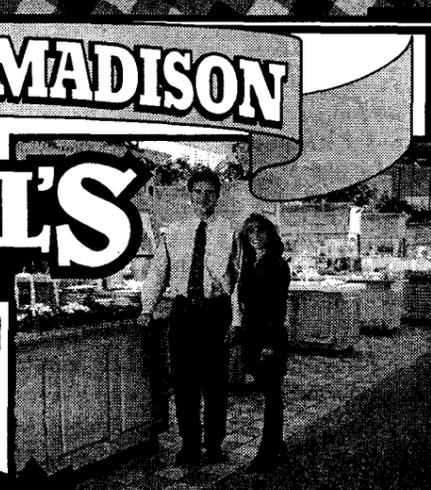
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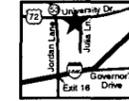
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Real-life angel gives the gift of life to her spouse

Donor, recipient return to work after successful kidney transplant

By June Johns

Perhaps there's something to angels after all. Pat Weaver wears a gold metal one on her jacket lapel. Weaver, a personnel management specialist with the Civilian Personnel Advisory Center, has been collecting them in all shapes and sizes for the last several years.

Perhaps these celestial guardians were watching over her during the last 18 months as she went to bat to save her husband's life. Weaver is lucky in many respects — in the process of keeping her husband alive, she did something wonderful for herself as well.

It all started about six years ago when Weaver's husband, Rich, went for a routine physical checkup. During the course of the physical, her husband found out something he hadn't bargained for— he was diagnosed with an incurable kidney disease known as membranous nephrosis.

This disease causes the kidney to leak excess protein back into the body, which in turn causes a person's auto-immune system to break down, making the victim more susceptible to infections.

Although a rigorous diet forestalled her husband's need for dialysis, it didn't eliminate his ultimate need for a kidney transplant. And when you need a kidney transplant, you need a kidney donor. The Weavers didn't want to consider their 27-year-old son, Brian, in case the disease turned out to be hereditary. Unfortunately, Rich was among the 20 percent of patients where the cause of the disease could not be determined. Common causes such as cancer and hepatitis had been ruled out.

Pat Weaver was considered as a donor, but the blood pressure medicine she was taking made her an unlikely candidate. The family could always wait, and search for another donor, and wait.... Or, Pat Weaver could stop taking the medicine, which she did, but not with the serious consequences the reader might suspect. Instead, Pat Weaver was able to stop taking her blood pressure medicine, because she did something that eliminated her need to take it, while assuring that she could provide the gift of life to her husband. Over the course of the last 1-1/2 years, Weaver lost more than 75 pounds in order to be in the physical shape necessary to become a donor. She did it the smart way too — using the old fashioned method of combining lower calorie intake with a regimen of getting out and exercising more frequently.

As it turns out, that gold metal angel was more than just a good luck charm. Pat Weaver and her husband have both returned to work, just six weeks after a successful transplant operation at the University of Alabama at Birmingham Medical Center. As fortune would have it, this medical facility is considered the top hospital in the country for kidney transplants, Weaver said, and noted that over 300 such operations are performed there each year.

Weaver returned to her job a little over two weeks ago. Her husband, who works on the Arsenal as an engineer for Boeing, went back to work May 24.

Although Weaver reports that "the first three months after a transplant is the most critical part," she clearly looks and sounds optimistic.

Weaver's husband sports an 8-inch scar from the operation; Pat's scar is about 3-4 inches larger, as doctors need more working room when harvesting a kidney from the donor. And while Pat now has only one kidney, her husband technically has three. Pat Weaver explained they don't take the recipient's kidneys out unless they are infected or diseased. "They just hooked my kidney in on top of my husband's other two," she said.

And how will Weaver herself function with just one kidney? Doctors counseled that she shouldn't expect any problems unless she becomes a diabetic, develops high blood pressure, or receives a kidney injury.

As a result of her family's experience, Weaver has become an advocate of sorts for healthier living, with an emphasis on having regular annual physical checkups. Furthermore, Weaver hopes to set a living example of her own advice.

"I expect to live a really long time," Weaver said, noting she had a great aunt who lived to age 102, and that longevity runs in her family.

Let's hope Weaver's predictions turn out correct — and that those guardian angels continue to watch over her throughout many years.

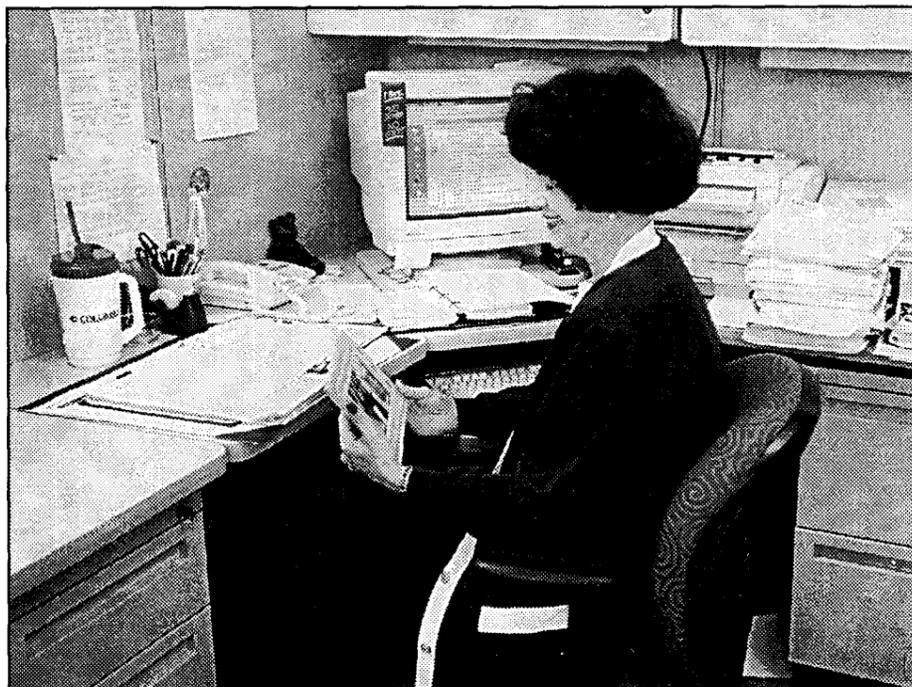


Photo by June Johns

REFLECTIONS— Weaver spends a moment in reflection as she views a photograph of her family.

Osteoporosis

continued from page 14

1,200 mg calcium for women over 50. This averages approximately 3-5 servings of calcium-rich foods per day. A serving of cheese is about the size of a thumb, a serving of cottage cheese, ice cream or frozen yogurt is about the size of a tennis ball, and a serving of tofu is about the size of a deck of cards. Just eating calcium-rich foods is not always the only dietary requirement; our bodies also require vitamin D to help the body utilize the calcium we ingest. Fortunately, many of the foods we eat are fortified with vitamin D. But just getting out in the sunshine can also provide a source of vitamin D. (Remember to wear sunscreen whenever you are in the sun.) Getting enough calcium, whether through diet or supplements, is essential to maintaining bone strength. There are also some foods that can rob our bodies of calcium; these include high protein foods such as meat and eggs, salty foods, and coffee, sodas and other carbonated drinks. Prevention involves maximizing maturational gains in bone density, and minimizing postmaturity losses.

(Editor's note: Bailey is a community health nurse at Public Health and Education Center, Fox Army Health Center. May is National Osteoporosis Month.)

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Announcements



Sports & Recreation

Kids' fishing

The "Take a Kid Fishing" program, co-sponsored by Outdoor Recreation and the Post Exchange, will be held 7 a.m. June 19 at the Col. Carroll D. Hudson recreation area. This is a fishing contest for youth through age 18 who are authorized patrons of the PX. Preregistration may be completed at the Post Exchange ID check stand or at Outdoor Recreation, building 5129, from Saturday through June 17 before 5:30 p.m. There is no charge to register, and there are plenty of prizes and gifts to be won. For more information, call 876-4868/6854.

SMA golf

The Sergeants Major Association invites all command sergeants major and sergeants major, active and retired, to a breakfast meeting and golf outing June 18 at Guntersville State Park. The meeting starts at 7 a.m., and golf at 9. RSVP at 876-1874/5331.



Sports & Recreation

Alcoholics anonymous

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

Research symposium

The Army Materiel Systems Analysis Activity (AMSAA) is sponsoring the 38th Army Operations Research Symposium, "Reshaping Army OR for the 21st Century Operational Challenge," at Fort Lee, Va., Oct. 19-20. There will be tutorials and registration Oct. 18. Abstracts of unclassified papers must arrive at AMSAA by June 4 to be considered for presentation. Submit requests for registration by July 23. Information and forms are available at the AORS website, <http://amsaa-web.arl.mil/aors> <<http://amsaa>

web.arl.mil/aors>, from selected organizational point-of-contacts, and from Jean Smith, Command Analysis, 313-0379.

Mr. Man quest

Samuel Brown Production is looking for men interested in participating in the ninth annual Mr. Man Premiere, held at the Redstone Arsenal Club Sept. 3. "We are looking for qualified candidates that will be guided and thoroughly trained for this event. Contestants will be competing and judged by a selected panel in the areas of style, finesse, personality, performance and sincerity. So if you possess these qualities and have the courage to show what a true gentleman should project, call 233-4702 or 650-7736," a prepared release said.

Special forces

Special Forces is looking for professional enlisted and officer volunteers. If you are an enlisted soldier in pay grade E-4 through E-7 with a GT score of 100 or higher, or you are a commissioned officer in year group 1993 through 1997, you can apply for Special Forces training. For more information on Special Forces, access the web page at: www-benning.army.mil/fbhome/SForce/index.html or call the Special Forces Recruiting Team at Fort Benning, Ga., (706) 545-3079 or DSN 835-3079. Capt. Thomas Jarzen, SFC David Boyer and SFC Andy Wilson can answer your questions.

832nd's commander

The 832nd Ordnance Battalion will have a change of command ceremony at 8:30 a.m. June 16 behind building 3440, located at the corner of Snooper Road and Aerobee Road, in the quad area. Lt. Col. George Mixon will transfer command of the 832nd to Lt. Col. John T. Wright. A reception following the ceremony will be held in the battalion conference room. RSVP to Lillie Langford, battalion secretary, 876-3315.

Test/evaluation days

The Test and Evaluation Management Agency is sponsor-

ing the Army T&E Days II with a STEP Expo on June 16-18 at the Von Braun Center. The theme of the conference is "Integrating Simulation with Test and Evaluation." T&E Days II will include keynote speakers, presentations, panel sessions, and the Simulation Test and Evaluation Process (STEP) Expo. More information on programs, exhibitions, or registration requirements can be accessed at webpage www.testevaldays.com. The STEP exhibitor coordinator is Rick Llewellyn 876-3662; and the T&E conference chairman is Mike McFalls 876-3462.

Redstone 2000

The Redstone 2000 Institute is taking reservations for its July and September classes. The course, which will be held in building 5304, is designed to provide attendees with tools to build skills to function in the 21st century. Topics include change, stress, time, and conflict management, Myers-Briggs Type Indicator, communication skills, empowerment, coaching and supporting others, Army Learning Center tour, individual assessments, information transfer process, working in teams, and a four-step problem solving process. The course, though part of the total Redstone 2000 Program, is a stand-alone component. Those that complete the High-Performance Skills course will be eligible for 3-semester hours credit at Athens State University. The course is 64 hours long and is no cost to your organization. July course dates are July 12-15 and 26-29 from 8 a.m. to 4:30 p.m. September course dates are Sept. 13-16 and 20-23. To register for the course, submit your application through TIP request. The vendor is Redstone 2000, and the catalog number is HPS. For more information, call Nancy Hodges 842-9040.

Florida Tech

Florida Institute of Technology will hold an information session for students interested in a master's of science in computer information systems degree 11:30 a.m. to 1 p.m. June 23 in building 5304, room 4323. Seating is limited; call 881-7878 to confirm a seat.

See ANNOUNCEMENTS on page 18

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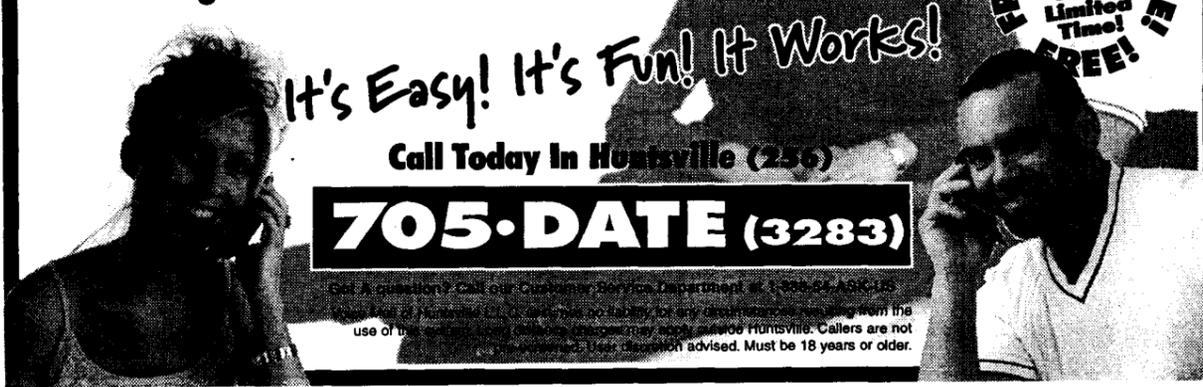
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Announcements

ANNOUNCEMENTS continued from page 17

GSA customers

The General Services Administration's Customer Supply Center can be reached at 1-800-525-8027. Its other phone numbers include: fax 1-800-856-7057, customer service 1-800-488-3111 or DSN 465-1416.

Missile conference

The second annual Army Space and Missile Defense Conference on programs, technologies and joint initiatives will be held Aug. 23-26 at the Von Braun Center. The theme is, "Preparing Missile Defense Capabilities for the New Millennium." In cooperation with the Space and Missile Defense Command the conference is sponsored by the Army Space and Missile Defense Association, the Tennessee Valley Chapter of the National Defense Industrial Association, and the Huntsville Chapter of the Air Defense Artillery Association. Program coordinator Bob Darnall, of Raytheon, can be reached at 922-8100. Exhibits coordinator Bob Wilkie, from the Schafer Corp., can be reached at 721-9572 (ext. 210). Jodi Weiner 837-5933 is handling administrative details. Terrell Downs 828-0091 is organizing the Aug. 23 golf tournament.

NCO graduation

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

Thrift Shop job

The Thrift Shop has a job opening for an assistant manager. Applicants must possess the following: knowledge of and experience in retail sales, computer skills, organizational abilities, and experience interacting with volunteers and paid staff. Applications are available at the Thrift Shop during operating hours: Wednesday and Thursday, 9 a.m. to 5 p.m.; and Friday, 9 a.m. to 2 p.m. The deadline for accepting applications is June 18 by the close of business. For more information call Sheila Torongeau, Thrift Shop manager, 881-6992.

New communicators

Universal Communicators, a new International Training in Communication club, will have a chartering party July 8 at the Redstone Arsenal Club. Membership cost is \$50. If you would like to join as a charter member send your check—made out to "Universal Communicators, ITC Club"—to Ira Smith, 222 Kyser Blvd., Madison, 35758. For more information, call Smith 461-7101 or Janice Isbell 859-9758.

Astronomy group

The Von Braun Astronomical Society will have a program on "June skies" at 7:30 p.m. Saturday at the planetarium in Monte Sano State Park. For more information, call Mitzi Adams 464-0945.

Self-help center

The Self-Help Center, building 3500, will be closed on July 3.

Blood program

Here's the Red Cross blood schedule for this month: June 4—PX, building 3220, from 8 a.m. to 1:30 p.m., call Linda Parks 650-5928; building 5400, from 7 a.m. to 12:30 p.m., Pepper Takayama 313-2381. June 10—building 5309, first floor, room 9128, from 7 a.m. to 12:30 p.m., Helena Moore 876-7117 or Betty Mountain 313-1779. June 11—building 4488, from 7 a.m. to 12:30 p.m., Fran King Wilburn 842-

7533. June 18—building 4752, NASA, from 8 a.m. to 1:30 p.m., Edwina Bressette 544-8115. June 25—Corps of Engineers, 7-noon, Donna Smiley 895-1760; SMDC, Wynn Drive, room 1C400, from 8 a.m. to 1 p.m., Al Longhi 955-5901.

Plastic modelers

Huntsville Plastic Modeler's Society will meet at 7 tonight at the Recreation Center. For more information, call 851-6842.

Stamp show

The Huntsville Philatelic Club will sponsor its 32nd annual stamp show June 12-13 at the Tom Beville Center at University of Alabama-Huntsville. Show hours are 10 a.m. to 5 p.m. that Saturday, and 10-4 Sunday. Admission is free. The show, "Huntsplex '99," will honor the 30th anniversary of Apollo 11, the first manned expedition to the moon's surface.

Reserve unit

A local Army Reserve detachment on Redstone Arsenal is looking for prior active duty people or possibly transfers from other units with MOS 74B (Info Systems Operators) and MOS 75B/H (Unit Administration). For 74B, the unit will consider reclassification action to MOS 74B if you can document with resume Civilian Acquired Skills—education/experience in the following computer skills: Data Base Man., Programming, Networking, and Telecommunications. The detachment works rotating shifts on drill weekend. Secret clearance required. For MOS 75B/H must be MOS-Q, prior service or transfer from another unit. For an interview, call Charles Vartan 313-0884 (work) or 883-8891 (home) for interview.

Best yards

Yard of the Month winners for May include Col. and Mrs. Charles Curcio, 14 Ripley Drive, officer; SFC and Mrs. Eugene Young, 373 Roberts Drive, senior NCO; Sgt. and Mrs. Kevin Lade, 1307-B Jupiter St., junior enlisted single/duplex; SSgt. and Mrs. James Ross, 525-A Magnolia Circle, junior enlisted/multiplex. The unit winner was C Company, 832nd Ordnance Battalion, building 3410.

Master's degree

Nova Southeastern University will hold a registration meeting for its master's of business administration program at 6 p.m. Friday at Calhoun Community College, classroom 51, 102 Wynn Drive. To RSVP or for information, call (800) 672-7223, ext. 5039.

Lithium batteries

The Army providing the following safety message for users of lithium batteries: "Despite multiple deadlining messages, two specific models of Army, non-rechargeable, lithium batteries continue to be causing safety incidents throughout the Army. These batteries can vent violently and cause injury or fire. The battery manager (CECOM) has issued the following special alert to ensure the word gets out to all users of these batteries. Note that these batteries are typically used only in fielded or developmental tactical Army equipment. They are not available commercially... All BA-5590/U batteries manufactured by SAFT AMERICA under contracts DAAB07-88-C-C045 and DAAB07-90-C-C020, both normal issue and preconditioned, were deadlined Dec. 23, 1997 with CECOM SOUM 97-017. This message was again reiterated in CECOM GPM 99-002 on Dec. 29, 1998. All BA-5800/U batteries manufactured by BALLARD BATTERY SYSTEMS under contract DAAB07-90-C-C024 were deadlined April 16, 1998 with CECOM SOUM 98-001. Included in this message was the

fact that the Complete Discharge Device (CDD) is not to be activated. These batteries are to be disposed of as Regulated Waste. This message was again reiterated in CECOM GPM 99-002 on Dec. 29, 1998. Further, the deadlining of all BA-5800/U batteries manufactured by CROMPTON ETERNACELL under contract DAAB-91-C-R014 was again reiterated."

Infantry units

The Army has announced that the colors of the 7th ID and 24th ID will be unfurled for active service as the headquarters for two active component/ANG integrated divisions. The divisions will be commanded by an active component major general and will be activated in October. The 7th ID will be located at Fort Carson, Colo., and the 24th ID will be located at Fort Riley, Kan., with a forward element at Fort Jackson, S.C. The 7th ID will be composed of the 41st Infantry Brigade from Oregon, 45th Infantry Brigade from Oklahoma and 39th Infantry Brigade from Arkansas. The 24th ID will include the 30th Infantry (Mechanized) Brigade from North Carolina, 218th Infantry (Mechanized) Brigade from South Carolina and the 48th Infantry (Mechanized) from Georgia.

Catholic community

Our Lady of the Valley, Catholic Community at Bicentennial Chapel announces the following: Rosary is recited daily at 11:30 a.m., followed by either a communion service or Mass at noon.

Greek festival

The Greek Orthodox Community of Holy Cross/Sts. Constantine and Helen Church in Huntsville will hold its seventh annual Greek Festival from 10:30 a.m. to 9 p.m. Friday and Saturday at the Jaycees Building, Old Airport area. Admission is free. For more information, call 534-4221.

Marine Corps league

The Marine Corps League, Brandon-Wilbourne Detachment, will hold its monthly meeting June 8 at Post 237 American Legion on Drake Avenue. Refreshments at 6:30 p.m., meeting at 7. For more information, call 881-2619.

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

Autos/Trucks

'98 Acura 2.5 TL. Leather seats, CD player, great car, have to sell, got a company car. 519-6867.

'97 Chevy S-10 LS Step Side. Air, AM/FM/Cass., 5 spd, 4 cyl., 34K mi., bought new, 28 mpg. \$9,995. 534-6071, 337-8918.

'97 Ford Taurus GL. Exc. cond., 4 dr., auto., power, new tires, non-smoker. Firestone inspected. See at S. Parkway lot. \$9,250. 883-1510.

'97 Mustang. White/black, 26K miles, auto., power everything. Car looks brand new. Assume payments. 859-3712.

'96 Buick Regal Custom. 4 dr., 6 cyl., maroon, terrific cond. 39K miles, great driving. NADA \$13,825 ours \$11,500. 880-8681.

'95 Cadillac DeVille. V8, 4 dr. sedan, 107K mi. \$11,975. 828-8831.

'94 Camaro Z28. Black, auto., power windows, locks, tilt, cruise, CD player, 89k miles. \$7,750. 230-0971 or 337-5932.

'94 Explorer Sport. Exc. cond. 2 Dr., 93K mi., 2WD, PW, PL, sunroof, auto., CD. \$9,450. 895-9645.

'93 Nissan Sentra XE. Very clean dependable 1 owner car. 4 sp. auto trans., cold air, AM/FM cassette, 55,500 miles. \$5,000 obo. 534-8607.

'93 Pontiac Grand Prix. Red, 2 dr. SE coupe, 116K miles, great cond., well maintained. \$5,500. (256) 351-0737.

'93 S-10. 1/2 ton V6 pick-up. Air, AM/FM bedliner, gray, exc. cond. \$5,549. 828-8831 or 722-2884.

'92 Honda Civic DX. White / gray 4 dr., auto., air, all service records, 116K miles, exc. cond. \$4,350. (256) 778-9325.

'92 Lumina Euro. Loaded, PW, PL, cruise, 54K miles. \$5,500. 796-7722.

'92 Mercedes 190E. White ext./light gray int., gorgeous car, 99K mi. Avg retail \$12,000. Asking \$9,900. 883-6894.

'91 Nissan pick-up. 4 cyl., 5 sp., 85K miles, cold air, nice truck. \$4,500 obo. 776-4481.

'90 Nissan Sentra. 4 sp., clean and well maintained. Air, AM/FM cassette, 1 owner. \$4,000 obo. 721-1973 after 5 pm.

'88 Mazda Se-5. Auto., red, standard cab, 125K miles, exc. cond., loaded, new tires, brakes and belts. \$2,900. 895-0679 after 5 pm.

'87 Pontiac Fiero. Runs good, good body and tires. Dark blue, auto. \$1,100. Arab, 586-4091.

'86 Ford Escort / Lynx 4 dr., 5 sp., AM/FM cassette, air, PS, PB, tilt. Looks and runs great. Asking \$1,200. 883-6115 after 5 pm.

'86 Pontiac Parisienne. Blue, 89K miles. \$1,995. 830-5980 lv. msg.

'80 Corvette. Red, exc. cond., air, 84K miles. \$9,500 obo. 864-2563.

'79 Ford Fairmont. 4 cyl, PS, PB, 70K orig. mi. \$800 OBO. 461-7622.

'68 Volkswagon beetle. Good cond. \$1,795. 650-5375.

'68 Mustang. Red, rebuilt trans., high performance 302, 4 BBL, duals, new tires and rims, new paint/interior. \$8,500 firm (205) 773-3697.

Boats & RVs

'96 Chris Craft Ski Boat. 17', 190 HP V6. \$10,995. More details at http://people.goplay.com/r_mason, email: jrmason@airnet.net or phone: (256) 878-9463.

'94 Harley Davidson Springer. 9K miles. Sharpest in town. Solid chrome rims, chrome everywhere. Over 25K invested. Asking \$17,900. 464-6814 or 536-9655.

'89 Catalina 25 Sailboat. 150 genoa w/roller furl, bimini, OB, head, microwave, exc. cond., freshwater only. \$10,500 OBO. 883-4118 eves.

'84 Kawasaki 1100 LTD. Great bike! Very quick, not for a beginner. \$1,250. (931) 425-6695 or (256) 797-9909.

'78 Harley FXE Super Glide. 54K miles, exc. cond. 1 owner, bought new. \$8,200. 379-3363 after 6 pm.

Bayliner 2450 Cigra Sun-bridge cruiser. 25 ft., fully loaded. Well maintained, low hours. \$13,000. 852-5099.

Cajun fiberglass bass boat. Mercury 140 hp., late 80's vintage. Runs good, needs a little upholstery work on front access bin. \$4,000 obo. 880-2647.

Miscellaneous

Aluminum backpack frame, \$90. Boy Scout short sleeve shirt, large, \$15. Boy Scout long pants, W-29, \$20. 882-0173.

Budweiser stein collection. Some rare, some still in original box. \$2,500. 650-0766.

Carpet. 19'x11'. Bound white Berber. Fits living room of officers quarters on Ripley Dr. \$100. 830-1246.

Dinette set. White 48" round table by chrome craft with 4 matching swivel chairs on rollers, good cond. \$150. 883-9568.

Dining table with 6 chairs. 42 x 60 plus 2 12" leaves, dark finish, Va house, good cond., \$400. 776-6903.

Dove tail trailer. 84"x18"3". 14,000 lb cap on both axles, 1.5 yr. old, \$2900. 10 ply tires. 461-7442.

Factory wheels off of '91 Chevrolet 4x4, \$200. (931) 937-7261.

Fisher-Price adjustable play-house gym. Exc. cond. Only 3 yrs. old, \$125. 551-2934 evenings.

Free to good home. A beautiful black Border Collie mix. She is very good with children. 721-0152.

Genuine Acura leather full style nose mask. Custom heat shield. 1992 service manual, extras, \$211.85 value. make offer. 533-9361.

Hi-comp HCB 8120 auto stereo amplifier with instruction manual. 60 watts RMS channel. Exc. cond., \$60. 880-3607.

Hoozier cabinet (good cond.) \$500. Old radios /telephones, make offer. 971-1576.

Lawn mower, self propelled. Rear bag, used very little, \$105. Electric stove, \$85. Girls bike, \$25. All in good cond. 883-9774.

Macintosh Quadra 660AV multimedia computer. Monitor, keyboard, mouse, CD, HD, 56MB RAM. Complete system, good cond. \$325. 650-0076.

Men's golf clubs. Irons with graphite shafts, \$125. Metal woods and putters, half price. 837-8331.

Motorcycle helmet XL, \$35. 721-6740.

Sale. Bedding plants, \$7. Hanging baskets, \$6. 4" Purple Wave Petunias, \$1. Jimmy's Greenhouse, 233-0247.

Precious Memories Consignment 2nd Thrift Shoppe (next to Geico) storewide sale. \$5 off your \$20 or more purchase. Open Tuesday-Saturday.

2 used Centennial radial tires P195 60R14 w/55% tread for \$25. 883-7751 after 7 pm.

U.S. Divers Cousteau BC. Size small, \$185. U.S. Divers womens wet suit, size large, \$60. U.S. divers regulator cons-helf 21, \$70. 518-9843.

Wheat pennies. Over 5,000, great investment. \$125 takes all. 726-0418 after 5 pm.

White queen wicker headboard, like new. \$75 firm. (256) 423-2605.

Wildcat mud tires. 31 x 10.5 x 15. Fair cond., \$120. 726-8581.

Real Estate

A home for you. 3 BR, 2 full BA. Beautiful brick fireplace, a large covered patio, workshop. \$68,500. Call Judy Gallup. Cell Ph# 651-4281 or office 882-2114, ext 117.

Apartment for rent. 2 BR, 1.5 BA, carpet, washer, dryer, central heat and air, basic cable, garbage, sewage. Candlewood area. 539-7537.

Ashton Place Apts. Fully furnished corporate apartments, flexible lease terms, 1 & 2 BR apts. 881-5403, Gate #1.

English Village. 11016 Willingham Dr. Light and open French Country style, 2133 sq.ft. rancher. 3 BR, 2BA (incl. luxury master BR/BA, GR, DR, breakfast room, laundry room, study, laundry room and 2 car garage at rear. FSBO. \$163,500. 430-4060.

Enjoy Luxury Living! 2 BR, 2 BA Condo., all appliances and much more. Prime location. Only \$52,900 or \$550/month (rent). 830-1927.

For Rent: Clean 2 BR, 1 1/2 BA, fully remodeled, central A/C, gas heat, all appliances, one car garage, privacy fence, std. cable included, and more. \$525 per month, \$525 deposit. 539-2951.

For rent. 4 BR, 2 BA. Walk to Chaffee. Whitesburg and Grissom schools. Non-smokers, no pets. Available 7/15. \$750+ deposit. 881-3532.

For rent. Sherwood Park. 3 BR, 2 BA, DR, LR, den, fenced yard, deck, garage. Call 883-7396.

For sale by owner. 1000 Park Lane Ave. 2 BR, 1 BA, new paint interior and exterior. New carpet and vinyl. Call 858-9991.

4-Plex for sale in Madison. Positive cash flow, exc. tax shelter. \$12,000 equity, assume mortgage. 837-8331.

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Just listed. FSBO 3 BR, 1 BA. Lovely sunroom, large treed backyard on cul-de-sac. Newly remodeled inside and out. Includes new roof/decking, siding and carpet. 2437 Bluestone Cir. \$45,000. Must see. Call 534-8779.

12 unit apartment complex. Southwest Huntsville location. 8 one bedroom units and 4 2 bedroom units. Whitesburg and Grissom schools. \$265,000. Call Pat Cassity 1st Realty. 882-2114x145.

2 BR, 2 BA condo. All appliances (some new), new paint and carpet at Willow Pointe. Only \$52,900. Call 830-1927.

Union Grove area. 3 acres and 3 BR, 2.5 BA, full basement. Fireplace, pinewood floors, lots of kitchen cabinets. Open living room, dining room. Large master BR. Over 3300 sq.ft. Fenced yard. Stephanie Howard, Coldwell Banker Graben Real Estate. \$97,900. Looking for offer. Call 1-800-643-3243

Union Grove area. 3 BR, 2.5 BA, 1680 sq.ft. manufactured home on permanent foundation. Fireplace, large master BR/BA with garden tub. Spacious floorplan, detached garage, great lot, small neighborhood. Stephanie Howard, Coldwell Banker Graben Real Estate. \$97,900. Looking for offer. Call 1-800-643-3243.

Walk into a beautiful great room with a fireplace and 10' ceilings. 3 BR, 2 full BA, walk-in closets and lots more. Farley, Challenger, Grissom school system. \$89,900. Call Judy Gallup, 651-4281 1st Realty.

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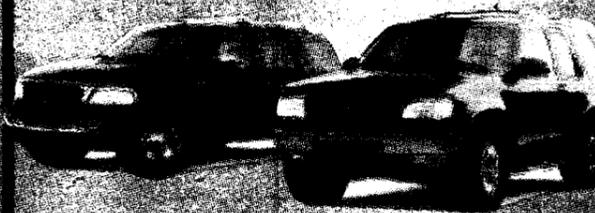
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