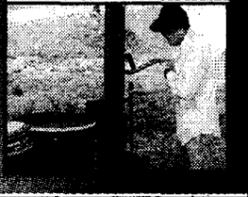
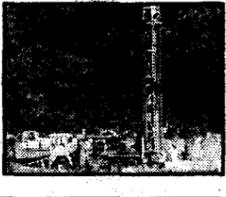


Benefits seen  
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Past mistakes  
spur cleanup,  
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All are welcome  
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# Redstone Rocket

VOL. 47 No. 19

Published in the interest of personnel at Redstone Arsenal, AL

May 13, 1998



Redstone and the environment...

# How clean are we?

Just do it...

## Recycling saves money, helps environment, officials say

By Skip Vaughn

Recycling is alive and well at Redstone Arsenal.

Everything from paper to oil—and from cardboard to precious metals—gets recycled here. And everyone can play a part: from residents who put out their blue bin recycle boxes, to workers who recycle white paper.

"There are a lot of recycling programs ongoing at Redstone. And recycling involves everyone here at Redstone," Dan Seaver, chief of the compliance division in the Directorate of Environmental Management and Planning, said.

### Blue bin

Curbside recycling, also known as the blue bin program, is probably the most noticeable effort. This year 761 military residences on post are participating in this effort, with the City of Huntsville, to promote cost effective waste reduction and recycling of reusable materials to enhance the environment. Last year the curbside recycling program at Redstone accounted for the following recycled amounts: 6,100 pounds of glass; 2,500 pounds of aluminum; 4,500 pounds of steel; 30,000 pounds of newspapers; and 2,500 pounds of magazines.

Another program enables offices to recycle white scrap paper. In a recent fiscal year, this program hauled in 226 tons of white scrap paper from 41 buildings with scheduled pickup dates. The money generated by recycling the paper is used for the Community and Family Activities program. In an effort to increase the amount of paper being recycled, offices that do not regularly have 200 pounds of scrap paper

can recycle through the On Demand Recycling program, or use the paper collection bins located on the Arsenal.

Lead acid battery recycling is another area with impressive numbers. In 1997 some 58,721 pounds of lead acid batteries were recycled from the Defense Reutilization and Marketing Office (DRMO) through manufacturers rather than having to be handled as a hazardous waste. "It resulted in a tremendous costs savings to the government," Seaver said.

### Oil recycling

Reclaimed oil recycling is where the base contractor operates a central oil-water separator to reclaim oil that would otherwise have to be disposed of as useless. At the separator are two 5,000-gallon tanks and one 2,000-gallon tank which accumulate diesel and No. 2 fuel oil that has been previously contaminated with water. About 25-50,000 gallons of fuel was donated to Auburn University last year to burn in its boilers.

Used motor oil is another area of recycling. "This is oil right from the motor pool and the auto craft shop and the airfield. This is where we change the oil on vehicles. And we donated about 10,000 gallons of this used motor oil to the Auburn program last year also," Seaver said.

### Precious metals

Gold, silver and platinum are recovered from various processes on Redstone—such as X-ray machines and photo processing—and recycled through the DRMO. All precious metals are sent to a central location within the United States for final processing.

Many metals, such as fired brass from the ranges, are collected, sorted and



Environmental Office files

**RECYCLE CENTER—** Environmental engineer John Souza consolidates paint at the recycle center.

processed for recycling through the DRMO.

### Freon

In the freon recycling program the base contractor, which is responsible for maintaining the air conditioning equipment on post, recovers all the freon from units repaired or replaced. A freon reclamation unit purifies contaminated freon to within 99.5 percent factory purity and allows the coolant to be recycled back into the units.

"And at a cost of \$14-18 per pound (of freon), we recycle thousands of pounds every year at a great savings to the government," Seaver said. "And the environment also benefits from the reduction of ozone-depleting chemicals entering the atmosphere."

Cardboard recycling is also ongoing here. Last year the Commissary and Post

Exchange together recycled 352 tons of cardboard.

Last summer the Environmental Office created a central recycling center for aerosol cans, fluorescent bulbs, and empty one-gallon paint cans to be recycled. Empty aerosol cans are punctured and drained and are recycled as metal scrap that would otherwise have to be handled as a hazardous waste having a great disposal cost. Paint from partially empty paint cans will be consolidated and the cans picked up by the city for recycle. Fluorescent bulbs can be crushed rendering them non-hazardous and acceptable for a landfill.

"The Environmental Office is actively seeking recycle programs that will be cost-effective and will benefit health and the environment," Seaver said. Suggestions can be called in to him at 876-6123.

## Letters to The Editor

### Roof repair

A work order was opened on the first of March 1995 and was worded to read: 1. Repair the roof leaks, 2. Replace the ceiling tiles, 3. Clean and repaint the listed rooms, 4. Repair the heating and AC system. This work order was opened only after a loss of thousands of dollars of Hawk missile test equipment, technical manuals, office furniture, student desks and chairs. This does not include the lost time of personnel due to mold and mildew allergies. Thank goodness for a reduction in force that allowed us to move our work offices and classroom operations from building 3308 to 3307 while waiting for the repairs to be made. June 1997 a work crew replaces the seal between the upper and lower portion of building 3308. Without waiting to see if this cures the problem, another crew begins to complete

the rest of the repairs. September 1997 most of the new ceiling tiles, insulation and freshly painted rooms are once again destroyed by water. Numerous people in the position to stop such a thing were contacted, but as it was explained to me this is the way contracts work. To the tune of \$60,000 a ceiling, insulation, and paint was replaced before the roof was repaired. Most people would not let this happen to their home or in private industry. Why are we different?

**Cleveland R. Patrick**

Appointed building custodian,  
Hawk team chief,  
Air Defense Division

(Editor's note: The Directorate of Public Works provided the following response. "The roof seam leak in the immediate area where the interior damages occurred was repaired before the repairs were done to the interior

areas. Unfortunately, the roof repairs which were done did not repair all the roof problems, and other areas of the roof eventually developed leaks. The project cost of \$60,000 included the subcontract for repair of the roof seam, installation of heaters to reduce mold problems, and the other repairs mentioned. A project has been under way for over five months to reseal and recoat the entire roof but has been delayed due to weather and more urgent work requirements. Budget cuts over the past five years have greatly limited what we can do to provide maintenance and repair to facilities at Redstone Arsenal. As our budget continues to be reduced these problems will increase, and the buildings and their occupants on Redstone Arsenal will, undoubtedly, experience more problems similar to those expressed by the writer of this letter.")

## Redstone Rocket

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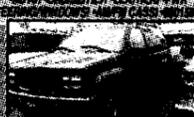
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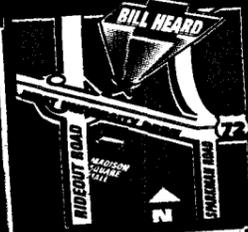
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## Ensuring a healthy environment...

# Environmental management keeps Redstone healthy

By Sandy Riebeling

Many of the buildings in use today at Redstone Arsenal were built back in the 1940s when World War II was headlining the newspapers and environmental issues were still a thing of the future.

Today, front page issues deal with cleaning up environmental hazards of the past, including asbestos and lead-based paint. The Directorate of Environmental Management and Planning has incorporated programs to deal with possible exposures, maintenance, testing and removal of hazardous materials in buildings on the Arsenal.

"The Army goes to great lengths to ensure a safe and healthy environment for the workers and families on the Arsenal," said Whitt Walker, chief, installation and restoration division, DEMP.

Asbestos building materials, outlawed in the early 1980s, are still present in many of the Arsenal's 2,150 buildings, including 1,100 housing units.

Common materials that may contain asbestos include ceiling tile, acoustical tile, floor tile and the mastic used to adhere them to the floor; roofing materials, insulation, pipe glue and joint compound.

"We are finding less and less asbestos each year, through our inspections," Walker said.

Routine inspections are done by the DEMP every three years to monitor the condition of the materials, and assure that they are in good condition or removed.

"What many people aren't aware of is that asbestos is not harmful if it is well maintained and remains in a non-friable state," Walker said.

The shape or state of asbestos material falls into two categories — friable or non-friable. Friable means that a substance in a dry state is easily crumbled, or easily crushed into tiny particles by hand pressure. Non-friable materials are those materials that are in good shape and intact, which means no fraying, chipping or crumbling.

In a friable state, dust particles of asbestos can be inhaled which causes irritation to the lining of the lungs. Prolonged inhalation is linked with two types of lung problems, asbestosis, a decreased lung capacity and mesothelioma, cancer of the lining of the lungs.

If a question arises from a resident or employee about a specific area, or there is noted deterioration found during inspection, samples are taken and tested to determine if the material in question contains asbestos and if it does, decide the best course of action.

"We keep a close eye on asbestos," Walker said. "We answer to the state regulatory agency under the EPA."

Asbestos is dealt with in one of two ways — encapsulation or elimination. Many times, encapsulation is as simple as laying a carpet over a tile floor to remove the risk of exposure.

Every building scheduled for renovation or demolition must be surveyed by the DEMP to determine the presence of any hazardous materials, proper removal and disposal.

Asbestos is removed by certified workers, bagged, and placed in the construction-demolition landfill at the Arsenal, permitted through the state to accept such materi-



Photo by Daniel Hood

**FLASH DEMOLITION**— Excessive heat is used as an environmental control to destroy contaminants without polluting the air. Remaining materials are bagged and placed in the landfill.

als. There is no threat of contamination to ground or water sources because the risk lies in breathing the particles.

"The problems with removal come from taking non-friable materials, insulation in walls or floor tile, tearing them up — making them friable — and creating dust that can be inhaled," Walker said.

"People tearing down the walls and renovation workers must maintain special certification dealing with asbestos, to make

sure that they are aware of the problems," he said. "They also wear special protective gear and exposure protection so that they don't breathe any of the fibers or dust while they're working."

"We keep excellent building records," said Walker, "so we know what is in each building, when it was tested and surveyed, what was found each time."

"Our goal is to maintain a safe environment for everyone on the Arsenal."

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*Solving the Armed Forces*

# Work under way to remedy the environmental past

By Skip Vaughn

Redstone is still cleaning up the remains of past practices that seemed like a good idea at the time.

Many years ago, standard practices throughout industry called for simply dumping or burying excess hazardous material. That was back before environmental awareness and related regulations.

Things are different now. And the Army has fallen in line with trying to clean up the leftovers from those dark ages.

"We've got 89 sites right now that are at some phase of investigation or cleanup," Whitt Walker, chief of the installation restoration division, said. "I would say that we anticipate somewhere on the order of 15-25 percent of those will require some type of remediation."

These 89 locations range from things as simple as a waste oil pad, to as complex as an unexploded ordnance site.

"The major focus that we have right now is in the old Thiokol area, primarily in the north plant; and we have several groundwater extraction systems that will probably go on line this summer or early fall," Walker said.

Another major focus is

on a perimeter monitoring program. This includes a network of groundwater wells and other indicators to check not only what flows out from the Arsenal but also what comes in from nearby waters. A perimeter monitoring program has been in place here since the late 1980s; and it's being expanded.

Cleanup is expensive, but Redstone officials expect the necessary resources will be allocated. In June 1994 the Environmental Protection Agency added Redstone to its national priority list.

"We anticipate spending on the order of \$12-15 million per year over the next five years on remediation projects," Walker said.

This represents a major part of the total Army budget for the defense environmental restoration account. That budget amounts to about \$400 million annually for the entire Department of Army; and Redstone's share is \$12-15 million per year for the next five years or \$75 million.

"Our direction from AMC (Army Materiel Command) is to have all the sites cleaned up or a remedy in place by the year 2010," Walker said.

The estimated cost to clean up Redstone Arsenal amounts to \$275 million

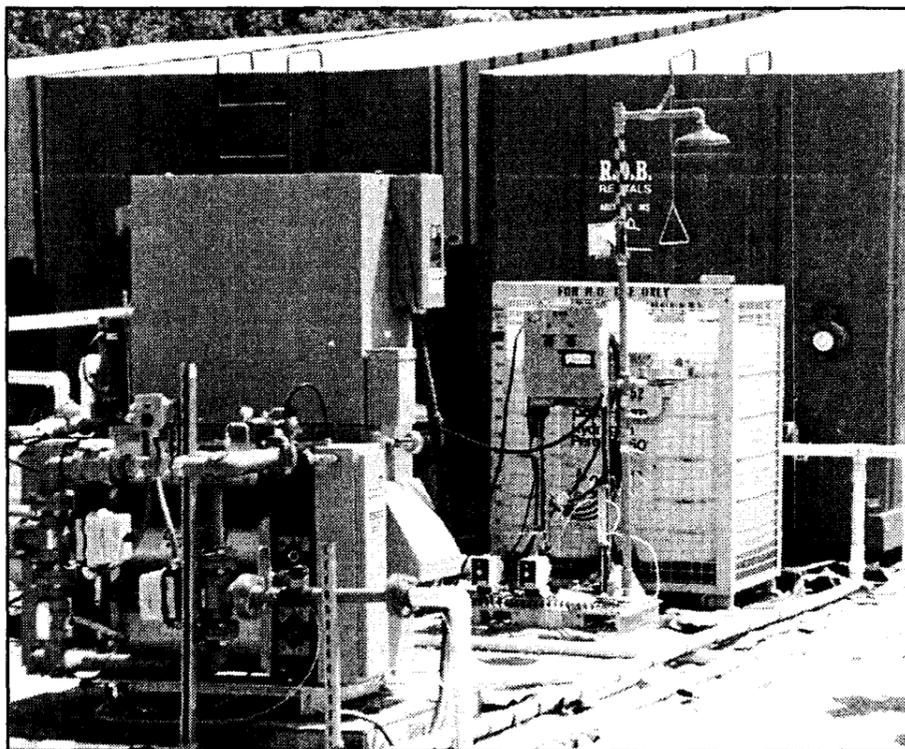
that would be spent over about 30 years.

Mike Hubbard, director of environmental management and planning, said the Army is committed to cleaning up the residue from standard business practices that government and industry used in the 1940s and '50s.

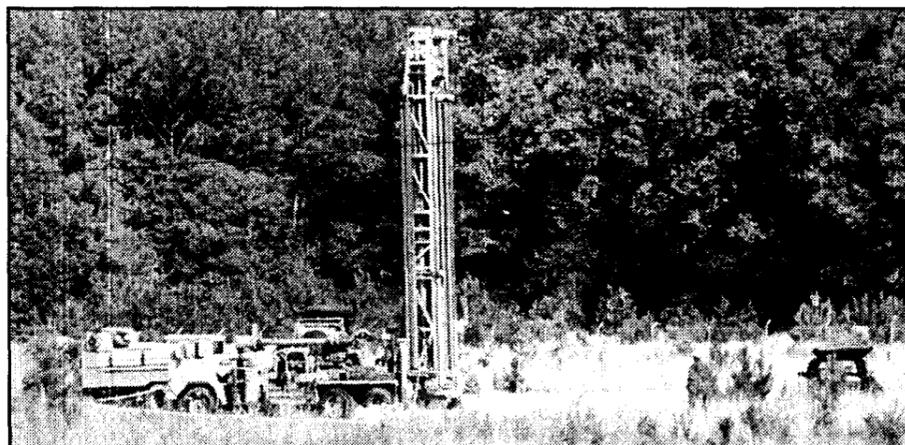
"We share in AMC's goal to have all remedies in place by the year 2010, and we're on target for our goal," Hubbard said.

A year ago Redstone entered into a partnering initiative to improve the restoration process with the Alabama Department of Environmental Management, the state's regulatory agency, and the Corps of Engineers. This initiative, in which officials from these agencies meet monthly to discuss progress on sites, has already shown results. Within the first six months of partnering, Redstone was able to negotiate closing four sites with no further action.

"The partnering is a tool for open communication between the Army and the regulators," Hubbard said. "It speeds up the process and it saves money."



Environmental Office files  
**PUMP/TREAT SYSTEM**— This is a pilot-scale pump and treat system to enhance groundwater quality at Redstone.



Environmental Office files  
**MONITORING WELL**— Workers install a typical groundwater monitoring well.

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# Old environmental issues still hot

## Programs in place to deal with radon and lead-based paint

By Sandy Riebeling

Radon gas at Redstone was addressed in 1989 with the Army Radon Reduction program, to ensure that every building meets the EPA recommended guidelines.

Radon is a naturally occurring gas that is emitted from the earth, measured in picoCuries per liter of air, with the EPA guideline set at 4.0 picoCuries or less.

In many cases, radon gas seeps through cracks in the concrete of slab homes and homes with basements. Houses with crawl spaces are less likely to have problems because the gas comes to the surface and dissipates.

"In 1989, we put alpha-track monitors in the buildings on the Arsenal for 90 days," said Dan Seaver, chief of the compliance division at DEMP. "After we got the results, if any of the areas measured above 4.0 picoCuries, long-term monitors were installed."

The results of the long-term monitors required installation of a radon mitigation system in 64 housing units, which meant drilling a hole in the concrete floor of the home, usually in a closet, hollowing out a small area of ground underneath, and installing a chimney type pipe from the hole in the floor up through the roof.

Inside in the pipe, an intake fan collects the air from under the house and pushes it up the pipe and out of the roof.

"These systems have alarms so if for some reason the fan quits working, the tenants would call us," Seaver said.

Continuous testing for radon throughout the Arsenal is done with 24-hour monitors. Further testing can be done if these short-term test results show cause.

Prolonged exposure to high levels of radon is suspected to increase the chances of developing lung cancer.

As a proactive measure for venting radon gases in the new family quarters built at the Arsenal, the DEMP is installing pre-construction radon control. Perforated pipe is laid in a web under the concrete slab and capped at one end so that a pipe can be installed on the outside of the home, in the future, if necessary.

Another concern, lead-based paint, has also been addressed by the DEMP.

"The only place lead-based paint is found on the Arsenal is on the door and window frames at the housing area," said Whitt Walker, chief, installation and restoration division, DEMP. "Occupants with lead-based paint are notified and we have a monitoring pro-

gram." Lead-based paint is only a health risk if ingested.

"The regulations on lead-based paint were written with children in mind," Walker said. "They are the ones who chew on things that may have been painted, or get flakes of paint on their hands, and then put it in their mouth."

Lead-based painted areas must be maintained, with no flaking or chipping. If an area begins to deteriorate, it must be "encapsulated" which simply means to scrape and repaint the surface.

"It is important to us that we maintain safety, from an environmental standpoint," Walker said. "We are continuously monitoring conditions at the Arsenal to ensure a healthy environment."



Photo by Pam Rogers

### Sparkman residents...

These Canada geese are enjoying a taken up residence and seem undisturbed by traffic on nearby Patton Road. We noted three couples who have apparently

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## Logisticians bring their children to work for day

By Dawn Ford

LOGSA's "Take Your Daughters/Sons to Work Day" Program on April 23 was a success with 45 children participating.

The purpose of the day was to introduce an actual workplace environment with women and men serving as role models for the leaders of tomorrow, our own children. This experience was an excellent opportunity to show how classroom learning translates to the workplace but more importantly to portray the Army workplace as a diverse environment where both women and men hold meaningful and responsible positions.

A structured program was designed which provided a brief orientation about Logistics Support Activity. The children were given a folder with information about the organization. Rotational breakout work stations were set up which allowed the children to experience the Logistics Integrated Data Base, Web Site, Tour the Computer Facilities, PS Magazine, Work Order Logistics File, a Unique Item Tracking system and a Logistics Support Element Battlefield scenario. Children shadowed their parents during the afternoon and witnessed firsthand the intricate workings of the logistician's world as well as the many other professionals that make up the LOGSA arena. Each child received a certificate of completion for the program.

In the afternoon, children and parents were given the opportunity to attend a tour of the Sparkman Center. Special guests from HHC AMCOM were available to discuss and provide a demonstration of military gear. A bomb disposal/equipment demonstration was also conducted by the EOD Training Division. These special guests provided insight to the children with regard to their particular interest by answering questions and giving demonstrations.

The program was coordinated by the LOGSA TQM Office with help from the LOGSA team. Many thanks to those who made the "Take Our Daughters/Sons to Work Day" program a success!

*(Editor's note: Ford is a Total Quality Management specialist at LOGSA.)*

## Four-year, joint agency project meets its milestones

'Green missile' program sets trend for pollution prevention research

By Bob Cole

As the halfway point approaches in a \$4.26 million program designed to eliminate toxic and hazardous materials from solid rocket motor propellants, "Green Missile" coordinator Diane Hagler is upbeat.

The four-year project has met all its milestones to date and was recently approved for third year funding.

The "Green Missile" program, funded by the Strategic Environmental Research and Development Program (SERDP), is a joint effort between AMCOM, Naval Air Warfare Center, Naval Surface Warfare Center, Air Force, and the Environmental Protection Agency. Program planning also involved Department of Energy and NASA.

Researchers from these agencies are investigating pollution prevention alternatives in three areas: elimination of lead in minimum signature missile systems; elimination of HCl as a combustion product in smoky systems; and elimination of chlorinated/toxic solvents used in processing propellant oxidizers.

*'Pollution prevention is the major focus of environmental research at Redstone. We are investing our money up front rather than pay additional for cleanup and remediation.'*

**Diane Hagler**  
'Green Missile' coordinator

"Green Missile" is but one of many pollution prevention (P2) research projects at AMCOM, according to Hagler, the AMCOM environmental research coordinator. There are eight ongoing P2 projects funded by the Army Acquisition Pollution Prevention Support Office in areas of energetic materials, batteries, defense system environmental alternative modeling, and energetic components such as case coatings and insulation.

AMCOM is also participating in two other SERDP programs. One is the investigation of alternative methods of cleaning dirty rags

used in cleaning operations. The other involves alternatives for composite repair and remanufacture, such as helicopter rotor blades.

"All of this is driven by federal and state regulations on hazardous and toxic substances," Hagler said. However, Department of Defense needs are unique—there are additional requirements not encountered by commercial industry and public use materials. As a result, environmentally friendly solutions are not always readily available. Hagler gave the following example: "If a helicopter has to get from point A to point B at a cer-

tain speed carrying a given load, and the use of alternative materials doesn't meet these requirements, then we don't have a solution."

This does not mean solutions do not exist; they are not always commercially available and have to be developed. This involves development of alternative materials and/or processes.

Chemical engineer Darren Thompson is working with a polymer only 2 mil thick (equivalent to a sheet of paper) which generates electrical energy when vibrated. He believes this has the potential to be used in place of thermal batteries in missile systems. At a Joint Army, Navy, NASA, Air Force Interagency Impulsion meeting last month, both the Navy and NASA expressed interest in the material for other systems.

"Pollution prevention is the major focus of environmental research at Redstone. We are investing our money up front rather than pay additional for cleanup and remediation," Hagler said.

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# Government/industry share ideas at logistics conference

By Emerson McAfee

The 11th annual DoD Government/Industry Supportability Engineering Exchange Conference will be held for the first time at Redstone Arsenal's Sparkman Center, June 16-18.

The Logistics Support Activity will host the conference and the International Society of Logistics (SOLE), Tennessee Valley Chapter will provide administrative support for the third consecutive year. The theme for this year's conference is "Acquisition Logistics 2000—Reducing Total Cost of Ownership."

The conference has been held continuously since 1987, and provides an open forum which allows government and industry personnel to share ideas related to best practices, lessons learned, process improvements, and new techniques in the logistics acquisition arena. Presentations have been scheduled by the Army, Air Force, Navy, and industry.

The keynote speaker is to be James B. Emahiser, the acting principle assistant, Deputy Under Secretary of Defense (Logistics). Other key speakers include Craig D. Hunter, AMC assistant deputy chief of staff for logistics and operations; Lt. Col. Donald Kotchman, PM- Grizzly; and representatives from the Federal Aviation Administration, National Aeronautics and Space Administration, and Electronic Commerce Resource Center.

Other presentations include Logistics Considerations for the Human Mars Mission, Interactive Web-based Process Training for Aircraft Repair Enhancement, Flexible Manufacturing, Paperless ECP Ven-

ture, PM- Apache Prime Vendor Support, Early Contract Administration Services, Digital Aviation Logistics, and Just in Time Technical Manuals.

LOGSA will be presenting information on Power Log, an upgrade to PCLSAR which will meet the requirements of MILPERF-49506, Logistics Management Information. They will also be presenting information on the Post Fielding Supportability Analysis system and Cost Analysis Strategy Assessment system.

A social will be held from 5-8 p.m. at the West End Grill, located off Madison Pike near the intersection with Rideout Road. This function will provide everyone with a chance to talk logistics acquisition informally with fellow participants.

A representative from NASA at the Marshall Space Flight Center has been scheduled to speak during lunch June 17 in the Sparkman cafeteria facilities. All conference attendees are invited to circle this option on your pre-reg-

istration form and use the Sparkman Cafeteria and Food Court. It is not mandatory that you eat lunch. You may just attend the speaking engagement.

The conference is open to all government and industry personnel. Pre-registration and hotel reservations should be accomplished no later than June 1. A copy of the pre-registration form can be obtained on the web at our home page, [www.logpars.army.mil/alc/logengr.htm](http://www.logpars.army.mil/alc/logengr.htm). A copy of the form can also be obtained by calling Emer-

son McAfee at 955-8433. Rooms have been reserved at the Holiday Inn Research Park, phone 830-0600 and the Candlewood Suites, 830-8222. Rooms can be obtained at the conference rate until June 1 by asking for the GIE conference rate. Additional information can be obtained by calling McAfee.

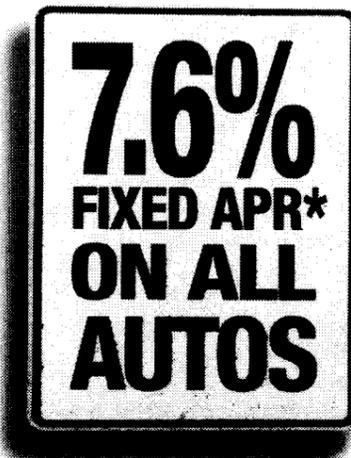
Early registering and collection of the conference fee can be completed from 5-8 p.m. at both hotel locations. Signs will direct you to the SOLE registration area where the visitor pack-

et can be obtained and the \$55 conference fee can be paid. Registration can also be accomplished June 16 from 7-8 a.m. at the Sparkman Auditorium.

The purpose of this conference is to inform the acquisition logistics community of new techniques and lessons learned. Please make plans now to attend and participate in this educational and informing conference.

*(Editor's note: McAfee is a logistics management specialist in the Acquisition Logistics Center, LOGSA.)*

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# Keeping the Arsenal beautiful...

## Installation managers put focus on our natural resources

By Bob Cole

Only a non-observer entering the confines of Redstone Arsenal for the first time could fail to notice the abundance of plant and animal life which dot the verdant, rolling landscape.

Employees and others who view the land on a regular basis quickly come to appreciate formal efforts begun years ago in programs managed and perpetuated by the Natural Resources Management Program (NRMP), a part of Installation Management office whose chief is Roger Schwerman.

Stretching wide from gates 9 to 3 and many points within, Mother Nature's signals are clean, healthy, growing.

Redstone's terrain is alive with a various assortment of critters large and small, including April's newborn calves, and a dazzling collection of trees, flowers, plants and cover crops in pastures which fre-

quently stretch beyond the crest of the horizon.

Sandwiched among them lies a seemingly endless string of bluebird houses, planned flower gardens, tree arbors, and similar points of beautification and interest, care and concern.

None of these fringe benefits to ecology and the human eye would be here without professional help and subsequent planning, the latter made increasingly more difficult with continuing funding cuts.

This is where NRMP staff enters the scene. Their far-reaching responsibilities include the conservation, management and restoration of land and renewable resources, all within a growing list of military and national policies. And with today's increasingly stringent environmental guidelines, their job is becoming increasingly more difficult.

Redstone's land inventory includes 37,910 acres. Of this, a total of 11,313 acres are leased to various

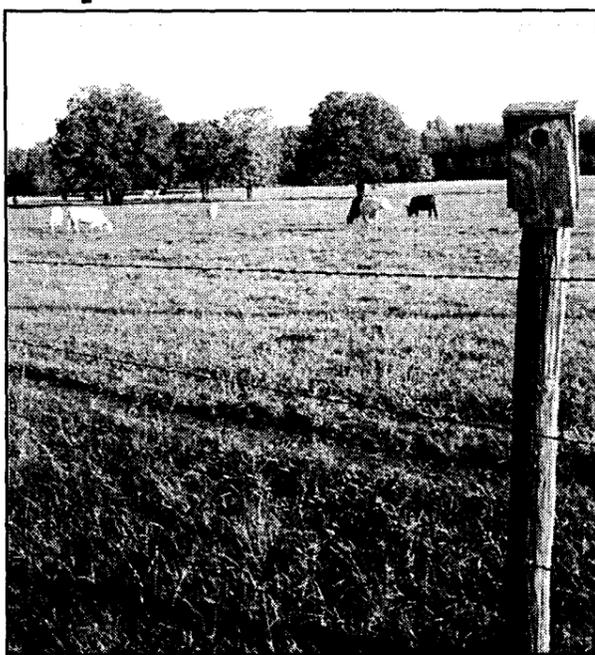


Photo by Bob Cole

**FAMILIAR SCENE—** A solitary bluebird house stands atop a fencepost which helps separate leased ranchland where cattle safely graze near a test site along Redstone Road.

independent agricultural interests in a program begun here shortly after World War II. Redstone annually receives a direct cash income from these leases, including the sales of timber and hay.

Bluebird houses which adorn fence posts, buildings and utility poles are the brainchild of area residents Ron and Anna Hamm and Bill Friday. They have no contract; their work is gratuitous. The collective

result of their concern for ecology is something to behold.

"We have a very viable program," said forester Jesse Horton, who supervises both land management and forest management.

"We are becoming an island between the cities of Madison and Huntsville," Horton said. "It behooves us to be wiser stewards; to seize whatever funds and techniques are available. We manage from wise management within compliance, but not for the sake of compliance."

Biologist David Nixon oversees the fish and wildlife management program. Recently, his major focus has centered on a contract with the U.S. Department of Agriculture's Wildlife Service involving animal damage control.

"We have three target species to study," Nixon said. "One is coyotes and their effects on excessive predation; another ground

hogs and the damages they do to buildings and bunkers; the third targets beavers and the loss of timber which they cause.

"We are also focusing on environmental improvements," he said. "We want to control erosion, and we want to enhance waterfowl habitats while at the same time improving training areas at the south end of the Arsenal."

Nixon praises Army Materiel Command for providing funding for these and other projects.

"We've got a long way to go, but we are moving forward," he said.

No doubt, more money would help these and other projects. But in the meantime, ecologists and others who attach a high value to the environment can stand in amazement at the sights and sounds already in place, smackdab in the middle of a major research facility.



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# Wartime legacy commendable, but... Environment wasn't a concern during World War II production

By Skip Vaughn

During World War II Redstone Arsenal established itself as one of the best equipped, most productive chemical munitions manufacturing centers in the nation.

Over 45.2 million units of ammunition were loaded and assembled for shipment from March 1942 through September 1945. And more than 27 million items of chemical munitions having a total value of more than \$134.5 million were produced, according to historical records.

Part of this legacy is not so commendable, however. Chemical munition production, and the industrywide practices of that era, led to environmental problems which left an enduring scar on Redstone. And more problems resulted from the postwar production of DDT insecticide by a chemical company leasing space on the Arsenal.

Redstone officials say the Army is committed to cleaning up its past environmental mistakes.

The following information was gleaned from the files of the AMCOM Historical Office:

• **April 1941**— Because of escalating global tensions, Congress approved funds for the Army to construct another chemical manufacturing and storage facility to supplement the production of the Chemical Warfare Service's only chemical manufacturing plant at Edgewood Arsenal. The site selected became known as Huntsville Arsenal. Recognizing the tremendous economy of locating an ordnance shell loading/assembly plant

close to Huntsville Arsenal, the Chief of Ordnance decided to build a facility adjacent to the Chemical Warfare Service's installation. Initially known as Redstone Ordnance Plant, the plant was redesignated Redstone Arsenal in February 1943.

• **Feb. 28, 1942**— Huntsville Arsenal's first production emerged from a pilot line for M-54 incendiary bombs set up in warehouse 642. This production continued intermittently until April 21, 1942, when fire destroyed the entire plant and its equipment.

• **March 1942**— Huntsville Arsenal's first production facility was activated. The arsenal became the sole manufacturer of colored smoke munitions and was also noted for its vast production of gel-type incendiaries. Also in March 1942, Kershaw Butler Engineers Limited completed construction of one of two mustard gas filling plants at Huntsville Arsenal. A third plant was authorized but was ultimately adapted for incendiary oil munitions filling. These two mustard gas filling plants were more or less active until March 1944 when both were placed on standby.

• **December 1943**— Huntsville Arsenal began producing tear gas grenades, a manufacturing effort which continued until May 1944. Also in December 1943, Huntsville Arsenal first began producing the M-20 rifle grenade which continued intermittently until February 1945. On Dec. 20, 1943 the manufacture of the M-7 tear gas grenade began at Huntsville Arsenal and was

completed on schedule March 18, 1944; the total produced was 243,020.

• **February 1944**— Production of phosgene, a toxic agent, began at Huntsville Arsenal and continued until January 1945. Filling of 500-pound M-78 bombs lasted from April 15-27, 1944, while filling of 1,000-pound M-79 bombs was accomplished from April 1944 until January 1945. This effort ended Jan. 17, 1945 after all the phosgene made and stored at this facility had been filled into bombs.

• **August 1947**— The



Historical Office files

**MUNITIONS LINE**— Women munitions workers serve the war effort at Redstone during World War II.

Alabama Chemical Company and Huntsville Arsenal began negotiating a 15-

year lease for three arsenal buildings previously used to manufacture thionyl

chloride. The company

See WW II on page 18

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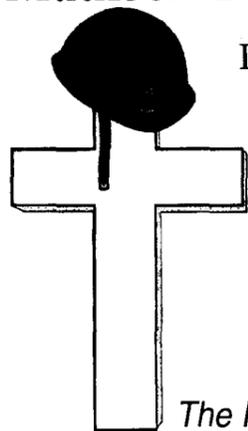
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# Rolling from the river...

## Water treatment plants up and running to ensure clean flow

Story and photos by Sandy Riebeling

The Redstone community uses nearly 8 million gallons of water a day. And it's up to the Northrop Grumman water plant operators at the water treatment plants on the Arsenal to keep it coming — clean and clear.

"The Tennessee River is our sole source of water," said Robert Moore, environmental engineer with Northrop Grumman, who oversees the water treatment facilities on the Arsenal. "We take it out of the river, clean it up, use it, and put it back, downstream, cleaner than it was when we took it."

Two types of water, industrial and domestic, are made at the three treatment plants on the Arsenal. Industrial water is used as coolant for rocket testing, fire protection and boilers. Domestic or potable water is made for drinking.

Treatment plants one and two have water intakes off the river, which use bar screens to keep floating debris out of the intakes, then gravity feeds the water to low lift stations where the first of the chemicals are added.

A small amount of chlorine is added to the raw water, along with liquid Alum and liquid caustic to form "flock."

"Flocks look like little

brown snowflakes that form around the mud particles (in the water) to make them heavy and drop out," Moore said.

As the water leaves the low lift stations with the chemicals, it gently flows through the sediment basin, where the flocks attach to the mud particles making them heavy so that they sink or settle to the bottom of the basin.

"The water flow must be slow so that the flocks don't break apart after they have formed," Moore said.

After this first process, the turbidity, or clarity of the water is tested. Water comes out of the river at approximately 40 turbidity, which is cloudy, and by the end of the "flocking," is down to 5 turbidity, which means the water is much clearer.

Treatment for industrial use is complete at this stage and put into clean wells for use. More than half of the water used on the Arsenal is for industrial purposes. Plants one and three use the industrially treated water and convert it for domestic use.

Domestic water is made by running water through rapid sand filters, removing the remaining particles and bringing the water down to less than .2 turbidity units.

Chlorine is again injected into the system, this time from two cylinders, each



**CONTINUOUS MONITORING**— Wanda Bawsel, plant operator, keeps an eye on the monitoring systems during the rapid sand filter phase of water treatment at plant three.

providing half of the required amount, bringing the chlorine level in the water up to 2 parts per million.

Fluoride at 1 part per million is added and the pH and hardness levels are checked before the water is put into the Arsenal's distribution system for use.

Safeguards and continuous monitoring of the water supply help to assure safe, clear, clean drinking water to the families and employees at the Arsenal. Caustic may be added to change the pH balance, which is important to maintain the piping system.

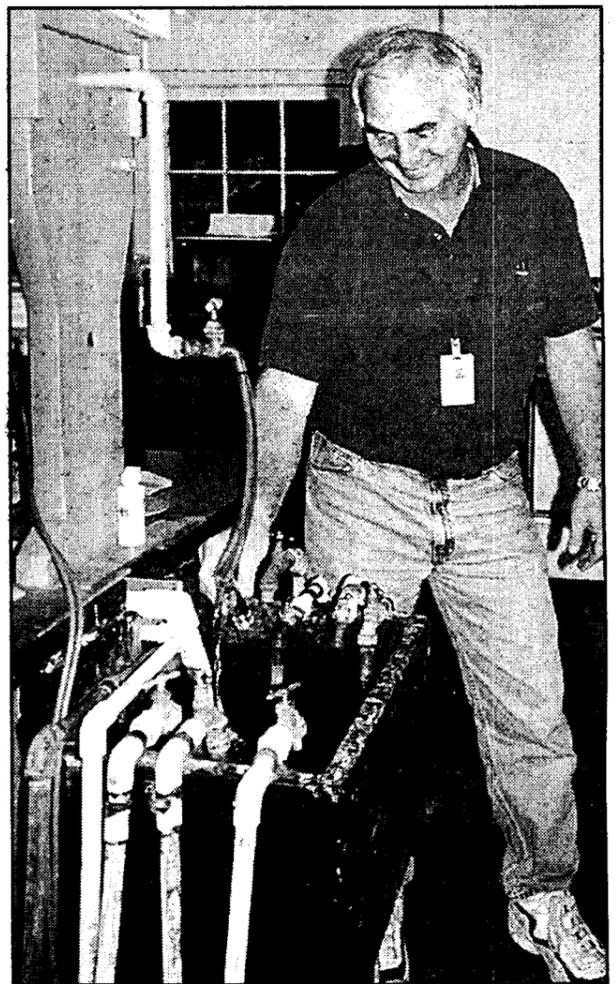
"We have two chlorine cylinders feeding the sys-

tem, in case something goes wrong with one, the other can take over," Moore said. "Water is running here all of the time to perform real-time testing."

Water tests include chlorine and pH levels, and turbidity, every hour. Fluoride is tested once every eight hours and water hardness once a month.

Raw river water is also tested periodically for pesticides and inorganics.

"One of our biggest water challenges is low



**REAL-TIME TESTING**— Water plant operator Roger Jeffreys takes a sample for testing at treatment plant one.

usage," said Mike Wassell, water and air program manager at the Directorate of Environmental Management and Planning. "Chlo-

rine dissipates over time, and if the water is not used we have to flush the lines to

See WATER on page 23

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Education outdoor-style...

# Path to Nature leads to understanding for young and old

By Bob Cole

Call them the Big Green Team, moving ecology at Redstone Arsenal forward to new and broader horizons. Call them famous for creating occasional hold-ups of building projects. Call them committed to their work. Call them, officially, the natural and cultural resources team responsible for an ecological program called "Path to Nature."

Such is the growing reputation of the Directorate of Environmental Management and Planning (DEMP) team, whose involvement in the "Path to Nature" program is helping Redstone make in-roads into educating and informing post personnel, their families, and others about the environment.

In their hearts, team members see themselves as ecologists, people who study the interactions and relationships between individuals and populations of plants and animals with each other and their environment.

"Path to Nature" grew out of a request from then-Monte Sano Elementary School principal Juanita Hillis in 1991, who requested a visit to the wetlands area at Redstone for a fifth-grade class led by Sandy Ottman. The idea had originated from Dave Brotherton, lead teacher for environmental programs at Monte Sano. Grade five is the school year in which students usually reach their maximum interest and level of curiosity, Hillis said.

Monte Sano's class trip led to a meeting between biologist and former teacher Carolyn Wu, now an environmental protection specialist, and school officials. Their efforts fueled establishment of a pilot program at Monte Sano called EARTHSCOPE, now a part of the Huntsville science program.

"One day we asked about a joint grant between the city schools and Redstone," said Hillis, now principal at Whitesburg Elementary.

"We wanted to cooper-



Photo by Bob Cole

**STUDYING THE ENVIRONMENT**— Mountain Gap fifth-graders listen to a presentation by EARTHSCOPE instructor Carolyn Rivamonte at a Path to Nature site. From left, with teacher Joyce Thurman are Amelia Cousins, Crystal Kastankis, Ashley Blowers, and Amanda Breen.

ate," Wu said. "They told us what they wanted. We wrote a proposal to AMC (Army Materiel Command) identifying the need. On our first effort we were funded to develop a location for an ecology site."

They chose land off the lower end of Patton Road near the Recreation Area. Thus began formalized efforts to develop a "Path to Nature." The year was 1992.

Subsequent program support has required occasional funding from various sources and is, Wu said, "an ongoing concern." Said principal Hillis: "The environmental staff at Redstone has great vision, and I believe that, properly funded, future possibilities there are unlimited. We are very appreciative of what they did for us; otherwise we wouldn't be where we are today."

In 1994, ecologist Susan Weber was hired at DEMP as an environmental protection specialist. Her job was to lay out trails and boardwalks, develop interpretative signage, a curriculum

guide, and lists of the different species of plant and animal life in the area.

"The Path to Nature program is wetland education made interesting and fun," Weber said. "We think the program is going great. We've been able to accomplish a great deal in a relatively short period of time. The children can walk through developed paths, learn about ecology, the wetlands function, see and identify trees, and do related things."

Wu and Weber are quick to point out that professional staff members could not have developed Path to Nature in its present form without help from others.

For example, Redstone's Boy Scout Troop 108 has undertaken such tasks as planting trees, installing benches, plugging beaver holes, and cleaning up storm damage. Three current Eagle Scout projects evolved out of the troop's interest and participation.

Girl Scout Troop 104

See NATURE on page 24

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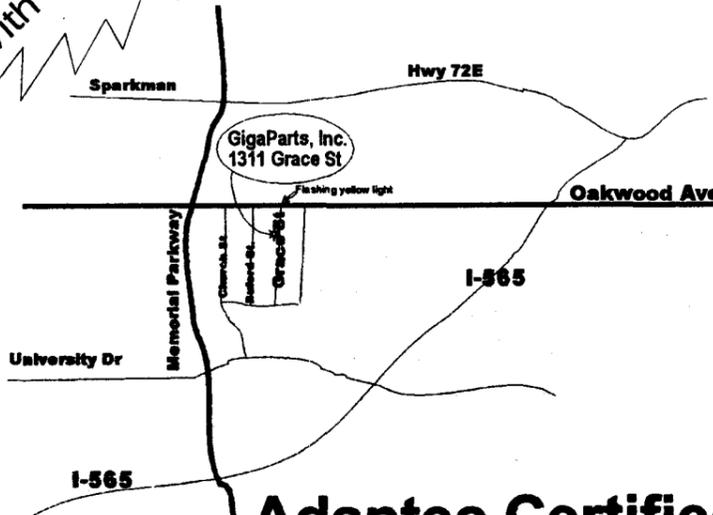
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# Missile recycling goal: resource, recovery, reuse

## Pilot program developed here recycles most missile parts

By Sandy Riebeling

The Army's business is to keep the peace and prepare for war, but what happens when the wars are over and peace is on the horizon?

Training and foreign military sales will account for a portion of the missiles not used in peacekeeping efforts but the majority of the items will eventually require disposal.

Missiles, such as the Hawk, Chaparral, Hellfire, TOW, Army Tactical Missile System and Multiple Launch Rocket System contain chemical ingredients in the energetics that can become unstable over time, which means, they have a shelf life.

Traditionally, the Army has relied on the open burn/open detonation method for disposal of its obsolete missile systems, like the Redeye and the Shillelagh, or static firing in the case of the Pershing missile systems destroyed in accordance with the Russian treaty.

"These methods release contaminants into the environment — air, water, land

— which can be a horrendous cost when one considers the cleanup," said Dr. William Melvin, Propulsion Directorate, Missile Research, Development and Engineering Center.

Melvin has spent the last 10 years developing a technology that can recycle 98 percent of most Army missile components, for resale or conversion into commercial and military products.

"Major funding, has been provided by the office of the Secretary of Defense in program activities, managed under the auspices of James Q. Wheeler," said Melvin, referring to the demilitarization technology office chief, in Savanna, Ill. "This allowed us the opportunity to develop the technologies and to demonstrate the AMCOM technologies in a full scale pilot facility."

The AMCOM Resource, Recovery and Reuse (R3) program reclaims the components of the missile, without adding toxic gases to the air through detonation. The recycled materials are then reused, saving on the production of new materials. The program,

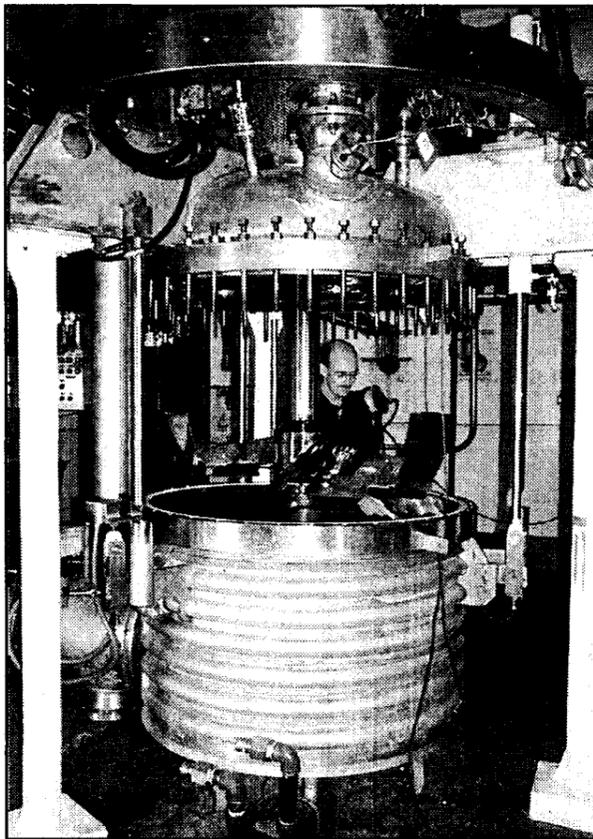


Photo by Sandy Riebeling

**RECYCLING SYSTEM—** Research chemist Jeff Wright cleans the evaporator vessel for the recovery of high value oxidizer propellant ingredients extracted from missiles.

while saving tax dollars in air pollution cleanup, hopes to keep missile recycling costs comparable to the cost of traditional detonation by the resale of components.

"What started off as a propellant reclamation technology has matured

into a total missile system recycling program," Melvin said.

The process begins with complete disassembly of the missile, which is done remotely, by machine, for safety reasons.

To extract the solid propellant from the rocket

motors for recycling, a drill-like tool is applied to the propellant, shaving off slivers of the solid propellant.

Once the chips or slivers are removed, they enter the liquid ammonia ingredient extraction and reclamation process, which releases no pollutants into the air. This closed loop process separates the ingredients, and recovers, in dry form, 99 percent pure ingredients.

These ingredients, from the class 1.3 propellants (ATACMS, Hawks, and MLRS) and class 1.1 propellants (Chaparral, Hellfire and TOW), have a variety of commercial and military uses including, quarry mining, coal mining, demolition charges, bomb fills, missile warheads, oil well drilling, building demolition and specialty chemicals.

The Army missile demilitarization requirements near-term objective is the R3 of approximately 200,000 TOW systems, over the next decade, beginning this year.

Long-term objectives include the R3 of approximately 400,000 MLRS starting in 2005, in addition to other active and inactive systems.

"We have to do some-

thing with these missile systems," Melvin said. "The EPA imposes strict environmental guidelines on the regulatory permitting of open burn/open detonation of missiles.

"Recycling is the right thing to do, but it's a matter of cost. This technology hopes to provide a cost-effective method to recycle missile systems."

The development of the technology at Redstone through the pilot program is reaching the engineering and manufacturing development, to mature the system from a pilot program to implementation by private industry.

"We are now in the process of acquiring the funding needed to transition and mature this technology in preparation for full scale Army production and execution," Melvin said.

The remaining 2 percent, detonators, squibs, igniters and asbestos containing components, are not easily recycled and are best disposed of using traditional incineration and destruction processes.

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# Corps' Huntsville Center has program to... Clear the air inside work buildings for health and safety

By Kim Speer

The health and safety of soldiers and civilians in the workplace is affected by many different factors, but one of the most significant is indoor air quality.

According to Robert Olcerst, Ph.D., of Brujos Scientific Inc., the problem is so significant it could become "the liability of the '90s for mechanical engineers, tenants, and building owners." Available records indicate that approximately 30 percent of all existing buildings have deficiencies that may result in sick building syndrome, with roughly one-third of these buildings causing building related illnesses in a significant number of building occupants. "And this is only the accessible data, so as records get more accurate, we'll see this is only the tip of the iceberg," Olcerst added.

For government and military facilities, indoor air quality is a particularly vexing problem. Limited operation and maintenance funding, and government agency lease agreements may make proactive improvement measures difficult, but the investment can result in substantial cost savings, increase productivity and ensure the health and welfare of workers. In fact, money spent to improve indoor air quality can have a significant return on investment.

#### Cost avoidance

A "sick" building may decrease productivity and increase absenteeism because of poor environmental quality. But conversely, an indoor air quality improvement that results in an increase in productivity of

only 15 minutes per day can save organizations a substantial amount of money. If an employee who is compensated \$60/hour in salary and benefits wastes only 15 minutes a day distracted by cold, heat, stuffiness, odors, headaches, itchiness, or other uncomfortable malady contributed to by poor indoor air quality, this will cost the organization \$3,750/year (\$15/day X 250 work days). Imagine, an office building with 600 employees would recapture \$2.25 million in productivity each year.

The cost of designing a good system is much less than correcting a poor one. In fact, "The cost of 'fixing' a sick building can far exceed the initial construction cost," Olcerst said. He stated that in some recent projects involving "sick buildings" which required major design and maintenance improvements to bring the indoor air quality up to habitable standards, the cost to correct the Heating, Ventilation, and Air Conditioning (HVAC) system exceeded the initial cost of constructing the entire building.

But government agencies may have some cost efficient alternatives and options to consider to ensure design and maintenance standards are met. The Army Corps of Engineers has traditionally handled such functions and, together with its mechanical engineering skills, experience with large scale projects, and remediation capabilities, it can provide various mechanisms and options for construction and maintenance.

#### Air quality program

To support the Corps' geographic districts, or to perform work outside of their capabilities and scope, the Army Engineering and Support Center, Huntsville has developed an Indoor Air Quality Program. The program operates under its Operations and Maintenance Engineering Enhancement charter, and offers the proper personnel, equipment and contract vehicles to provide complete indoor air quality services including HVAC evaluation, test and balance procedures, commissioning services, design evaluation and modification, and identification of proper maintenance procedures.

"The Huntsville Center offers government facilities a cost effective way to resolve indoor air quality issues because they can incorporate design and maintenance in one package, and they have at their disposal the equipment and personnel necessary for the type of quality work needed," Olcerst said.

"We offer competitive engineering services geared toward the rapid response required by indoor air quality problems. We have an experienced team that includes mechanical engineers, safety engineers, industrial hygienists, project managers, and contracting specialists," added Alicia Allen, program manager, Huntsville Center.

The Corps of Engineers uses the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

Standard 62-1989, Ventilation for Acceptable Indoor Air Quality, which is accepted as an industry standard for design and construction projects.

"As ASHRAE Standard 62 is adopted into the building codes, its requirements have a substantial impact on the way ventilation systems for new buildings are designed and constructed," Randy Miller, senior mechanical engineer, said. "Because the Corps is already using current standards, and our own guidelines are very stringent, we will remain on the cutting edge of design and maintenance for indoor air quality."

"Indoor Air Quality is very much an evolving topic. While it would seem logical that relatively new buildings should have few indoor air quality problems, oddly enough many 'modern' buildings have problems built-in. In some cases, design criteria intended to reduce energy consumption combined with modern construction practices have actually been the cause of indoor air quality problems," Miller said.

"The potential need for this program in the future is great," Allen said. "Driving forces such as professional standards, and the increasing emphasis on the health and productivity of the work force, and the potential for litigation make indoor air quality an issue for the '90s. The time to prepare is now." (Army Engineering and Support Center, Huntsville release)

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# NationsBank swipes Defensewide travel card contract from AMEX

By Alicia Borlik

WASHINGTON — NationsBank of Delaware will replace American Express as the Defense Department's travel card contractor Nov. 30.

The Defense Finance and Accounting Service announced the two-year card contract April 2. DoD can renew the contract up to three times in one-year increments.

DoD cardholders should receive their new NationsBank Visa this fall, before the start date, said Cathy Ferguson, accounting service spokesperson. The American Express card is valid through Nov. 29. Military travelers should begin using the new card Nov. 30 even if travel began before that date, she added.

### More accept Visa

One change cardholders will notice is the increased acceptance of the Visa card, Ferguson said. "It is accepted worldwide at more than 14 million merchant locations and 340,000 [automated teller machines],"

she said. American Express is accepted at about 4 million locations.

The travel card payment schedule will not change. Users must pay bills within 30 days to avoid late or delinquent accounts. The finance service will offer a new split-disbursement option to service members and civilians that allows for easier payment. Payments will go directly to the card contractor.

### Completely web-based

Service program managers will notice the biggest changes, said Paul Filla Jr., another accounting service spokesperson. The card service will be completely web-based, allowing program managers to track card usage more closely. Managers will also have the power to turn cards on and off to avoid improper usage, Filla said. "They can also limit the person to what types of vendors they can use," he said.

NationsBank also offers limited access and prefunded cards and travelers checks to further control

cardholders' spending habits. Service program managers control these special options, Filla said.

Limited access cards are regular NationsBank Visa cards with a set limit depending on the temporary duty. This limit can be increased as necessary. A prefunded card has a set limit for one-time use only.

NationsBank and DFAS instructors will train service managers on the new system, Filla said. More details will be worked out over the summer when the individual services meet to discuss card issue and usage.

Military personnel and DoD civilians use the military travel card for official travel costs such as travel advances, permanent change of station moves, lodging, rental cars, meals and other expenses associated with travel.

More than 900,000 military travel cards are in use. In 1997, card charges totaled more than \$2.2 billion. (American Forces Press Service)

# Permitting of air emissions to change during 1999

## Individual air permits will be joined into one under EPA Title V

By Sandy Riebeling

Pollution emissions from Redstone Arsenal have decreased significantly over the past few years.

"Redstone Arsenal has very few air emissions," said Dan Seaver, chief of the compliance division of the Directorate of Environmental Management and Planning. "We're not really a production facility, since Thiokol left and we shut down two large boilers that produced steam.

"We're considered a major source in terms of permitting from the state but that's because we have the VOC of a small city."

The EPA considers a "major source" as one that produces over 100 tons of volatile organic compound emissions per year. VOC emissions are determined by what is burned or produced at Redstone. Contributors to the VOC include energy emissions for housing and office buildings, plus the emissions from industrial sources such as paint spray booths, photographic labs, woodworking shops, rocket firing test range, and chemical labs.

To get an EPA air emissions permit, the

DEMP must determine the amount of air emissions produced by the Arsenal.

Calculation of emissions is done on more of a modeling than a monitoring basis. Instead of testing the air quality after substances are produced or burned, emissions is determined by how much of the substance is released into the air during the process. A simple example might be the emission produced from burning wood in a fireplace. The amount or pounds of wood burned, minus the weight of the ashes and soot left after burning, gives the pounds of air pollution emitted.

"We used to permit everything on the Arsenal individually, but Title V of the Clean Air Act addresses all air emissions we have at Redstone under one permit," said Mike Wassell, water and air program manager at the DEMP.

The changeover will occur in 1999. All sources of emission will be calculated and combined to obtain one permit for the Arsenal's emissions.

"We don't do any air quality testing on the Arsenal," said Wassell, "but the city of Huntsville and the state both monitor air quality. And North Alabama meets the attainment of the National Air Quality Ambient Standards."

The Arsenal does pay a fee per ton of air emissions produced each year. Last year, Redstone paid nearly \$10,000 in emissions fees to the state, which pays for air quality programs and testing.

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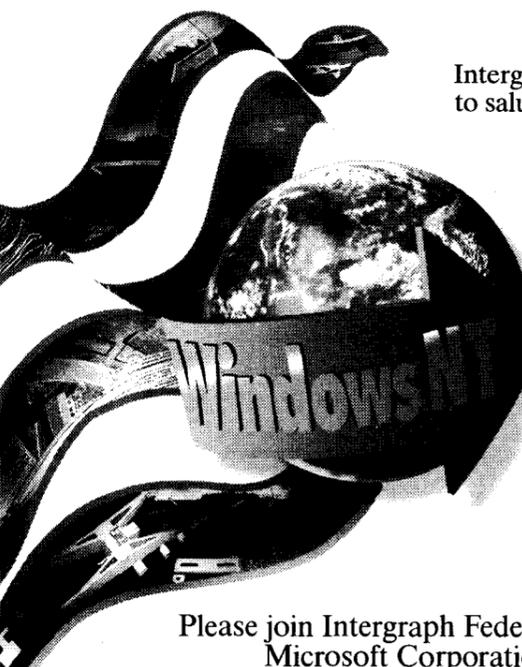
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# Corps of Engineers concocts plan to... Curb Year 2000 computer crisis

By Linda S. James

When the clock runs out and the date rolls over to Jan. 1, 2000, most federal agencies believe they will have done everything possible to avoid the computer "disasters" predicted by many.

But, according to Tahir Rizvi, of the Army Corps of Engineers Huntsville Center, managers may have overlooked a critical element of what has been dubbed in the popular media as the "Y2K Problem."

"Most of the information available to address Y2K has focused on the obvious computers and communications systems," Rizvi said. "But, it has overlooked the facilities equipment and related systems, which often have computers embedded in their operations. This equipment makes up the life-support systems for buildings and entire installations." And, he added, "If these systems fail, it could

*The 'clock is ticking. We are in a time crunch now with some of the critical dates approaching in 1999.'*

— Tahir Rizvi  
Huntsville Center,  
Corps of Engineers

have a profound impact on life and safety."

Rizvi is the Huntsville Center's program manager for Operations and Maintenance Engineering Enhancement (OMEE). OMEE is the Department of Defense program for centrally managing operations maintenance support for facilities worldwide. Huntsville Engineering and Support Center is the Technical Center of Expertise (TCX) for the program, and provides support to all services: Army, Navy and Air Force.

According to Rizvi, the Y2K problem affects facilities systems because they often implement com-

mands based on date and time. He shies away from using words like "disaster" but, instead, cautions facilities managers not to underestimate the scope of the problem, nor to fall prey to some of the Y2K myths. (See Myths which accompany this article.)

Examples of facilities systems that may be affected by the Y2K issue include fire/life safety controls, emergency power systems, chillers, boilers, HVAC (heating, ventilation and air conditioning systems), elevators, security systems and electrical demand and load shedding

See 2000 on page 22

## Common myths about year 2000...

Tahir Rizvi, program manager for the Operations Maintenance Engineering Enhancement Program, highlights 10 "Y2K" myths that can foil facility managers' plans to successfully address the Year 2000 compliance issues.

- Only computers are affected.
- We do not have to test the equipment if the vendors say it is compliant.
- If we test the components individually, we do not have to test the system.
- We don't need to contact the vendors. We can test it ourselves by changing the date.
- We have until Dec. 31, 1999 to complete the Y2K work.
- It will be all over on Jan. 1, 2000.
- If we check the equipment on one floor, we don't need to check other similar floors.
- All our new construction projects will be Y2K compliant.
- The vendor's service agreement covers Y2K compliance.
- The vendors have liability should a system fail.



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Photo by Connie Davis

### Fond farewell...

Maj. Bradley Greene, who served as executive officer to Brig. Gen. Dan Montgomery at the Program Executive Office for Air and Missile Defense for the past two years, joins wife, Shari, and daughter Kelsea at a farewell cere-

mony prior to departure for Fort Belvoir, Va, where he will attend the Defense Systems Management College. The Greens have three other children, Jordan, Jarrod and Katelynn, who could not attend the ceremony.

### WW II

Continued from page 11

planned to manufacture organic chemicals, insecticides and related products. The lease went into effect March 19, 1948.

• **June 30, 1949**—Huntsville Arsenal ceased to exist as a separate installation; and its remaining staff of 450 was transferred to Redstone Arsenal.

• **1947-70**—Waste discharged from a DDT manufacturing plant operating from 1947-70 at Redstone Arsenal resulted in exten-

sive DDT contamination in Huntsville Spring Branch and Indian Creek, tributaries to the Tennessee River, according to the "Final Environmental Impact Statement." The plant was operated under lease from Redstone Arsenal by the Olin Corporation or its predecessors during this period. In 1954 the Olin Mathieson Chemical Company bought the Calabamba Company, assumed its lease on Redstone, and continued the manufacture of DDT insecticide at a rate approaching 25 million

pounds annually. From 1947-65, runoff from DDT production drained directly from a ditch on the plant site into the Huntsville Spring Branch, a tributary draining into Indian Creek which flowed directly to the river.

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## Balkan violence troubles NATO; at least 16 die in severe fighting

By Linda D. Kozaryn

BRUSSELS, Belgium—NATO officials are voicing concerns over the deteriorating situation in Kosovo and what they're calling "deplorable violence" in Bosnia.

The North Atlantic Council issued a statement April 30, expressing "profound concern" over the situation in Kosovo and the risk of escalating conflict in the region.

At least 16 ethnic Albanians died in late April during severe fighting between the Serb-run federal army and pro-independence ethnic Albanians on Yugoslavia's southern border with Albania. Thousands of Kosovo's ethnic Albanians in the capital marched in protest, and regional officials declared the situation "explosive."

The North Atlantic Council stated it is "firmly opposed to independence for Kosovo and to a continuation of the unacceptable

status quo." It condemned the recent violence, particularly the excessive use of force by the Yugoslav army and the proliferation of arms in the territory. Council members "reject all use of violence, either by state security forces to suppress political dissent or by terrorist groups to seek political change," the statement said.

The council called on Belgrade authorities and leaders of the Kosovar-Albanian community to prevent further violence and to begin urgently to resolve the differences between them.

Ethnic violence between Bosnian Serbs and Croats in northwest Bosnia in late April also heightened NATO's concern. NATO Secretary General Javier Solana issued a statement April 27. "I deplore the recent acts of intimidation and violence which have been targeted against those who wish to return to their homes," he said. "Such acts

are blatant violations of the Dayton Peace accords, which all the parties are obliged to uphold."

NATO forces evacuated Croatian priests and refugees after a Serb mob of about 200 attacked a ruined church in the north-west Bosnian town of Derventa, April 23. The next day, about 1,500 rioting Bosnian Croats set buildings on fire and overturned U.N. vehicles, leaving 19 people injured in the town of Drvar. NATO officials said the Croats were angry over the Serb attack in Derventa. NATO peacekeepers fired warning shots to break up the riot.

Violence continued the following day when Bosnian Serbs set up roadblocks, stopping buses carrying Croats to Plehane. In Drvar, there were reports of Croats roaming the area telling recently returned Serbs to leave. About 160 Serbs whose houses in Drvar

See NATO on page 20

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# Accounting for America's wartime missing is a daily effort

By Rudi Williams

WASHINGTON — Each day hundreds of U.S. military and civilian personnel work to find out what happened to America's missing in action.

These investigators trudge through all climates and terrain and pore over the archives of former enemies seeking information about America's missing persons from World War II, Korea, Vietnam and the Cold War.

Resolving the fates of Americans missing in action has the highest national priority, said J. Alan Liotta, acting director of DoD's POW/Missing Personnel Office in Arlington, Va.

The POW/Missing Personnel Office conducts a robust program of investigations, archival research, oral history interviews and remains recovery efforts throughout the world. The U.S. government's resources include the Joint Task Force-Full Accounting, located in several places around the world; the

Army's Central Identification Laboratory in Hawaii; the Armed Forces DNA Identification Laboratory in Rockville, Md.; Defense Intelligence Agency's Operation Stony Beach in Bangkok, Thailand; and the Life Sciences Equipment Laboratory in San Antonio, Texas.

Liotta's office coordinates the effort.

He said fullest accounting means the U.S. government is committed to servicemembers and their families to bring missing personnel home — "no matter where it takes us, no matter how long it takes and no matter the nature of the conflict. Our goal is to rescue servicemembers who find themselves in harm's way — to bring them home to their families and loved ones in honor of the sacrifices they made when their nation called."

Investigative teams use the latest technology and most sophisticated intelligence techniques in their searches.

Liotta noted they conduct operations in hostile

*"Our goal is to rescue servicemembers who find themselves in harm's way — to bring them home to their families and loved ones in honor of the sacrifices they made when their nation called."*

— J. Alan Liotta  
POW/Missing Personnel Office

foreign environments. "Our young men and women find themselves in the jungles of Southeast Asia, in the icy mountains of China or on the rugged hillsides of North Korea," he said. "Their searches also take them to New Guinea, Russia and the jungles of South America. They seek information in the archives of our former presidents, or in the basements of foreign museums not opened to

Westerners. Their individual dedication to these missions is an inspiration to the families for whom they seek answers.

Since the end of the Vietnam war, DoD has accounted for 493 previously unaccounted-for Americans, Liotta said.

"In North Korea, we're engaged in our fifth joint operation," he said. "We have recovered remains of American soldiers and have

identified one and returned him to his loved ones for burial with full military honors."

He said operations in North Korea offer the potential for recovering hundreds more remains. "Our relationship with the North Koreans is unprecedented," Liotta said. "And we're very pleased that this humanitarian mission of ours keeps moving forward. For 1998, for example, we reached an agreement to conduct five joint field operations. That's the number we now conduct in Vietnam and Laos."

Liotta said America's efforts to account for its missing servicemen have become well-known to the local Vietnamese population, which at times has provided helpful information. For example, a villager searching for scrap metal found an almost complete skeleton in tattered U.S. clothing and with an identification tag

attached. The joint task force detachment in Hanoi dispatched a team to investigate the discovery. The remains were repatriated to the Central Identification Laboratory for further analysis and were identified in March 1998.

In 1997, the combined POW-MIA efforts culminated in the repatriation of 31 remains of possible Americans from Southeast Asia. Also last year, DoD officials positively identified 35 remains from previous repatriations. Another 52 previously recovered remains are undergoing forensic analysis at the Hawaii lab.

DoD's efforts remain committed. There are still 88,320 American servicemembers missing in action — 2,090 in Southeast Asia, 8,100 from the Korean War, 78,000 from World War II and 130 from the Cold War, Liotta said. (American Forces Press Service)

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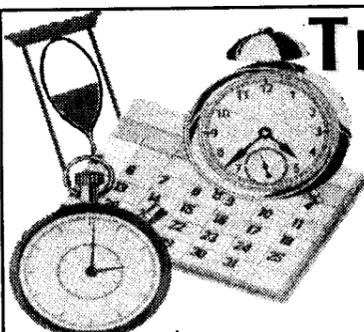
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# NATO

Continued from page 18

were burned in the last few days left in buses headed for Serb-held Banja Luka.

Solana called upon local and national authorities to take concrete steps to prevent such acts and to promote the return of refugees and displaced persons to their homes. He said the NATO stabilization force will take firm action against those seeking to undermine any aspect of the peace agreement, including the legitimate return of refugees.

Other recent incidents exemplify the danger NATO forces in Bosnia continue to face. Swedish and Danish forces seized 12 tons of illegal weapons and ammunition during a six-hour raid of four sites in northern Bosnia April 24. NATO officials said they made the raids because an amnesty offered drew few weapon turn-ins.

April 28, a mine blast killed one civilian and injured two NATO soldiers. The civilian brought an anti-tank and several anti-personnel mines to a NATO base in a Sarajevo suburb in response to a country-wide amnesty on turning in explosive devices. The two NATO soldiers were handling the explosives when the mines went off. Both were reported in stable condition. (American Forces Press Service)

## Weapons aimed only at empty ocean so...

# Russians say Yeltsin's nuclear pledge fulfilled

By Linda D. Kozaryn

BRUSSELS, Belgium— About this time last year, Russian President Boris Yeltsin announced his intention to stop aiming missiles at members of the NATO alliance. Russian officials now say Yeltsin's pledge has been fulfilled.

Russia's nuclear weapons have been effectively detargeted, said Russian authorities attending a Permanent Joint Council meeting here April 29. In return, NATO authorities assured the Russians that alliance nations have done the same.

Both sides said nuclear weapons equipped with primary targeting codes or assignments, are now aimed at empty ocean, not at each other's territory.

### NATO meeting

This NATO-Russia council meeting focused on theater nuclear weapon reductions, nuclear detargeting, and security and safety of stored, tactical nuclear weapon stocks. The United States, United Kingdom and France, NATO's three nuclear powers, gave presentations.

NATO authorities gave Russian officials detailed briefings, demonstrating NATO's willingness to openly discuss nuclear

issues. A senior NATO official said the historic information exchange was designed to promote transparency on both sides.

"This was the first ever major consultation between Russia and NATO on nuclear issues," he said. It was held in NATO's presentation room, he added, "the sanctum of sanctums."

"When I was a young NATO official many years ago, we actually used to rehearse nuclear release procedures and nuclear scenarios in a Cold War situation [here]. Yet, here we are...debating nuclear reductions with Russia."

NATO authorities highlighted aspects of the alliance's nuclear drawdown for the Russians, the official said. During the Cold War, for example, NATO had five types of tactical nuclear weapons in Europe. Now there is one — free-fall gravity bombs carried on aircraft that can carry nuclear or conventional weapons. Even these weapons are being reduced, officials said.

U.S. officials told the Russians, by next year, all of the tactical nuclear

weapons withdrawn from Europe will have been destroyed. "It's not a question that they've been sent back to the United States to be stored to be brought back to Europe one day," the NATO official said. "They all will have been actually, physically destroyed."

NATO allies also expressed concern that Russia still seems to have a vastly larger tactical nuclear weapon stockpile than NATO. One main point of the meeting was a discussion of what has happened to those weapons, officials said. NATO wants to know what types of weapons the Russians have, where they are stored and what doctrine governs their use.

### Russian presentation

The Russians, in turn, gave a presentation on their tactical nuclear weapons, which they are collecting into centralized storage sites. These sites make the weapons easier to guard and destroy. The Russians said the readiness level and research and development programs for these weapons have both been

reduced.

"We did have some useful information on the Russian side," the NATO official said. "We heard 50 percent of the tactical nuclear weapons currently have been reduced, which is encouraging news."

Officials also shared information on procedures related to nuclear weapons safety and security. "This involves things like how good are your storage facilities; how good are your procedures for making sure there is no rogue access to nuclear weapons; how well trained are your personnel to operate safe procedures," the NATO official said.

The Russians also expressed gratitude to several allies for their help in transporting weapons.

### Followup

Nuclear experts from both sides will follow up on the council's discussion, the official said. "We'd like to identify certain key questions to be answered which can help us get the information we'd like to have for full transparency on both sides."

NATO officials would

like to know, for example, which tactical nuclear weapons systems Russia will deploy after the current reductions and what Russia intends to keep in its tactical nuclear weapons arsenal.

Russia provided a lot of useful information during the meeting, but tactical nuclear weapons is "an area which has been shrouded in mystery," the NATO official said. "There's been a lot of dialogue on strategic systems because of the [Strategic Arms Reduction Treaty] process so we have a full picture on that, but tactical nuclear weapons have been a rather murky area."

This first NATO-Russia discussion on nuclear issues was a good starting point, the official concluded. But further information exchanges are needed before the two sides can discuss doctrine and strategy. "This was just a first round in sharing information on this once highly secret, highly sensitive area," he said. (American Forces Press Service)

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# Defense officials surface readiness concerns throughout DoD

By Jim Garamone

WASHINGTON— The military is ready and fully prepared to execute U.S. national security strategy, but DoD must deal with readiness issues, and soon, said senior defense and military leaders at a Pentagon briefing May 5.

Readiness levels are high in units forward deployed or designated first-to-fight, but other units are not up to historic readiness levels, and these issues must be addressed, they said.

The Air Force is concerned about pilot retention and spare parts. The Navy is concerned about recruiting and equipment readiness. The Army is concentrating on meeting Quadrennial Defense Review fiscal 1999 end-strength numbers and getting money for Bosnia operations in fiscal 1999. The Marine Corps is working on equipment and personnel readiness for Marines returning from deployment and those readying to leave.

"These are dynamic

*In the Army, while readiness rates for the first-to-go units are high, those further down the deployment chain are less ready. This entails some risk for the country, officials said.*

issues," said a senior defense official. "They're not issues that you can put on the shelf and check a box and say that they're resolved. ... They need constant attention, constant focus."

DoD must ensure it provides resources needed to maintain readiness, make sure it collects the right

information to monitor readiness, and deals quickly with readiness issues when they are detected, officials said.

Military officials see four readiness building blocks in fiscal 1998 and 1999. The first was passage of the 1998 defense supplemental. This replaced

money the department spent on operations in Bosnia and Southwest Asia. Second is a DoD request that Congress allow the department to reprogram \$1 billion into readiness. This money would mostly go to Army and Air Force needs. Defense officials said Congress granted a Navy request for reprogramming in February.

Third is a \$1.9 billion request in the president's 1999 DoD budget to fund Bosnia operations. Officials said they are asking that approval not be subject to the balanced budget agreement.

Finally, DoD needs to maintain levels of funding

for operations and maintenance in the fiscal 1999 budget request.

The point all the officials made was change needs to happen now so readiness can be maintained in the future. The Air Force, for example, anticipates a shortfall of 1,800 pilots by fiscal 2002. Officials said modernization efforts — also a key to readiness — must be stressed because by 2002 more than 75 percent of the planes in the Air Force will be more than 20 years old.

The Navy and Marine Corps have different concerns because of the cyclic

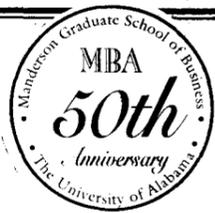
See CONCERNS on page 25



Photo by Skip Vaughn

## AER Jail inmate...

Carol Meekins, building manager in the Sparkman Management Office, awaits bail in this Army Emergency Relief fund-raiser May 6.



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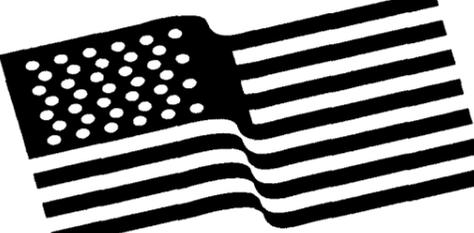
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# 2000

Continued from page 17

systems.

"Every facility or building is different," Rizvi explains. "For instance, what might compromise safety at a hospital, would only be an inconvenience at another building."

These systems often have computers regulating their operation for peak usage times or for maintenance schedules. For example, if the computer "thinks" a maintenance date is overdue, it can shut down the associated system. The result could be an elevator stuck on the first floor or the shut down of a ventilation system in the critical care department of the hospital.

The impact may be as trivial as inaccurate reports or as substantial as the complete failure of one or more critical systems. The differences in the facilities functions and the wide range of facilities equipment and systems makes the problem all the more difficult to tackle but not impossible. Rizvi and his team of operations maintenance experts were undaunted by the sheer scope of the problem at hand. As Rizvi described it: "It is war and our objective is to develop a battle

plan for defeating the enemy."

The result is an approach to the Y2K problem that directly addresses the impact to facilities equipment in six steps. What follows is a summary of the process that is outlined in detail in Rizvi's recently published, "Year 2000 Compliance Study."

• **Step 1. Survey.** Conduct a survey of all facility systems and equipment that use computers or embedded microprocessors. This effort would include everything from reviewing equipment inventory, preventive maintenance lists and vendor service contracts.

• **Step 2. Identification.** Identify potential building systems or equipment compliance issues. In this step, equipment vendors should be asked for compliance documentation and testing procedures. Rizvi suggests all equipment and systems be "tested" for compliance to ensure that they are just that. If the system tests comply with Y2K, then no further action is necessary. Otherwise, on to step 3.

• **Step 3. Investigate/Develop Strategy.** In this step, investigate the issues identified through reviews with site personnel and equipment vendors; identify potential impact; develop a strategy for modification or

replacement; and develop cost estimate.

• **Step 4. Funding.** Determine funding strategy.  
• **Step 5. Implementation.** Buy any hardware or software necessary and install.  
• **Step 6. Validation.** Develop testing of building systems and equipment.

While the six steps sound deceptively simple, Rizvi said they provide only a framework for action that requires a great deal of coordination and analysis. And, he added, a certain degree of expertise.

That's where the OMEE experts at Huntsville Center can help. "As the Center of Expertise for Operations Maintenance, we can act as a consultant, if you will, to help facility managers move ahead on this issue," Rizvi said. And move ahead they must because the "clock is ticking," he said. "We are in a time crunch now with some of the critical dates approaching in 1999."

Initially, the Y2K problem was expected to be only a two-digit vs. four-digit recognition problem that would occur solely on Jan. 1, 2000. Now, a series of dates have been identified that could cause problems before and after the Jan. 1, 2000 date. The earliest date, said Rizvi, is Sept. 9, 1999. Why? Some programmers

stored error codes in easy-to-remember locations such as 9/9/99. To ensure that your system won't be brought to a halt, Rizvi, strongly recommends bringing all facilities systems into compliance by Sept. 9, 1999. That's just one of the Y2K myths that Rizvi debunks in the "Year 2000 Compliance Study." Others include: "all new construction projects will be Y2K compliant" and "if you test individual pieces of equipment, it's not necessary to test the entire system."

Besides explaining away those myths, Rizvi and his team can help facilities managers through each step of the survey process and implementation. "We can help as little or as much as needed," he said.

For those who want to read more about what Rizvi's team proposes in the six-step process, the "Year 2000 Compliance Study" outlining the process in detail is available on the Web at [www.hnd.usace.army.mil/omee/y2k.htm](http://www.hnd.usace.army.mil/omee/y2k.htm). Or call Rizvi at 895-1532.



Photo by Bob Cole

## Principals Breakfast...

Huntsville School system administrators talk with Maj. Gen. Emmitt Gibson, commander of AMCOM and Redstone Arsenal, before the annual Principals' Breakfast on May 6 at the Officers Club. From left are Dr. Mary Ruth Yates, acting superintendent; principals Alta Morrison, Stone Middle School; Nancy Rooks, Blossomwood Elementary; and Lee McAllister, Williams Elementary. The event, coordinated by the Army Community Service (ACS) Education Committee, included a business meeting and dialogue between Redstone Arsenal education officials and city administrators.

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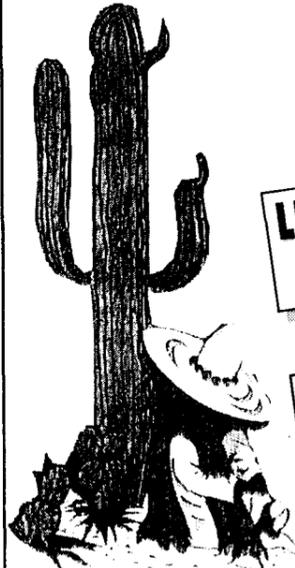
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# Cragin takes the reins at DoD as head of reserve affairs

By Paul Stone

WASHINGTON— If servicemembers are looking for senior leaders who can not only "talk the talk," but "walk the walk," then they've found it in Charles Cragin.

Cragin is the acting assistant secretary of defense for reserve affairs — a position he assumed following Deborah Lee's departure from the office in mid-April.

As the acting reserve affairs chief, Cragin is relying on almost 37 years of military experience to help guide him in his new role, including three years of active duty and more than 33 in the Naval Reserve.

"I certainly have the historical context of the Naval Reserve at least," Cragin said. "And I think, as I've watched from my personal vantage point as a drilling reservist, I bring to the table an understanding and appreciation of how some of these policy issues that we work in reserve affairs truly impact the men and women in the field or on the deckplates."

Because of his experience, Cragin has witnessed firsthand what he calls "the phenomenal transformation of the reserve force."

"When I first came into the reserves, we had been fighting the Cold War. I had been on a ship sitting off Havana Cuba for 18 months as part of the Cold War process," Cragin said. "We were a reserve force that was waiting and ready for the 'big one.'"

Since that time, he has seen the reserves become increasingly integrated into the total force. No longer waiting for the "big one" to

*"I would like to be able to say in five years we truly do have a seamless, totally integrated force that participates at all levels of the process as a total force."*

— Charles Cragin

be called up, reserve forces regularly are tagged to carry out or augment operations throughout the world. Indeed, since 1995, more than 15,800 Guard and reserve members have done rotations in support of the Bosnia missions. Desert Storm, Cragin said, was the watershed event.

"Desert Storm proved unequivocally that the political leadership was ready and willing to use the reserve forces," he said. "It also demonstrated the reserve forces were ready when called."

This transformation of the role of Guard and reserve forces naturally leads Cragin to his No. 1 priority: integration of the Guard and reserve into the total force.

He said Defense Secretary William Cohen's emphasis on integration, combined with the increased military reliance on the reserve components, helps move the process forward. But more can be done.

"I would like to be able to say in five years we truly do have a seamless, totally integrated force that participates at all levels of the process as a total force," Cragin said.

This includes funding and personnel, what mis-

sions the reserve components assist in and strategic planning issues. "We've come a long way, but we're on a progressive journey and we've not yet reached the end of that journey," he said.

See HEAD on page 25

## WATER

Continued from page 12

bring in fresh water."

Population movement on the Arsenal is part of the low usage problems in some areas. If the water isn't

## Acquisition Corps ball...

Sen. Jeff Sessions, R-Ala., was guest speaker for the second annual Acquisition Corps Ball, May 1 at the Officers Club. From left are Brig. Gen. Dan Montgomery, program executive officer for air and missile defense; Sessions; Maj. Gen. Jim Snider, program executive officer for aviation; and Brig. Gen.

Bill Nance, program executive officer for tactical missiles. Sessions stressed the importance of a strong national defense and the Army Acquisition Corp's essential contribution to achieving that defense. More than 250 people attended.

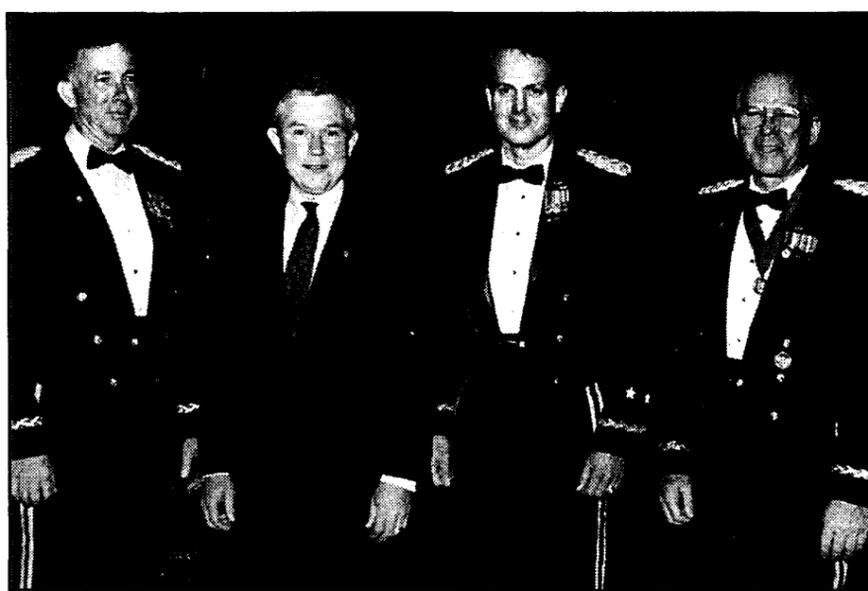


Photo Lab picture

moved through the pipes and fresh water brought in, the chlorine levels drop.

"Some areas on the Arsenal have to be flushed every few weeks," Moore said.

Water tanks are also drained once a day and refilled with fresh water to

assure that the water being put into the distribution system is fresh.

Water testing is also done at source points around the Arsenal 26 times a month, to recheck the supply coming out of the taps. Those samples, taken by

personnel from the Medical Department Activity, are sent to an Alabama Department of Environmental Management lab in Decatur, to ensure a chlorine residual is maintained.

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### Kickoff rally...

The Jacksonville State University Show Choir will perform at 9:30 a.m. Thursday in the Sparkman Auditorium for the 1998 U.S. Savings Bonds Campaign Kickoff Rally. The rally is open to the public.



Photo by Skip Vaughn

### Acquisition reform week...

Marlene Cruze, right, executive director of the Acquisition Center, talks with Jim Morris of Boeing during the Acquisition Reform Week program May 6 at the Sparkman Auditorium. Morris, vice president and general manager for Army programs at Boeing, Philadelphia, was among the presenters. Acquisition reform is aimed at getting products to the soldier faster and at less cost.

## NATURE

Continued from page 13

helped install original signage.

And the Scouts represent only a handful of the organizations and individuals who have contributed their time and talent.

Among the children who come to visit are those from the 'At Risk' program, as well as from structured class visitations like those in area public schools.

Children aren't the only visitors to the Path to Nature site. Approximately 3,000 people, among them senior citizens, church groups, clubs, and college and university biology and engineering classes, visit as groups each year. The total does not include non-documented visitors, to whom the area is open on a daily basis.

One surprised and well-pleased adult counted among recent visitors is Elba Dominik of Koblenz, Germany, a special education teacher. She came here with husband, Rainer, who is attached to the MLRS program as a representative of the German government.

"My husband brings the Redstone Rocket home for me to read every week," Dominik said. "That's where I heard about Path to Nature for the first time.

"I went to visit but without high expectations. I found out much more. You can touch it; experience it, especially when the kids come to do their classwork. Path to Nature is something

a kid or an adult can enjoy and learn from and to grow from by being there."

Mountain Gap Middle School's Joyce Thurman, whose fifth-graders learned science firsthand from EARTHSCOPE instructors Katie Cole and Carolyn Rivamonte, put the program in perspective from the classroom teacher's point of view.

"This is a wonderful field trip opportunity," Thurman said. "Students are exposed to knowledge about protection of the environment, especially the wetlands. They learn to identify animals, poisonous snakes and animal sounds. Each of them gets to make a Polaroid photo of a plant they wish to identify. Later, they compile a file folder showing plants and animals which they are required to identify.

"Overall, the positive exposure for Redstone is great, because the students get to go home and tell their parents what they observed and learned, and there is much to be learned. I really like the Path to Nature program and how it contributes to environmental education."

Letters from children who are past visitors address the value of the program in straightforward fashion. To quote from a few:

"Thank you so much for making it possible for us to go on a field trip to the wetlands. It was a great trip,

even though the nature trail was flooded!"

"The scavenger hunt was most awesome, but the earth ball was out of this world."

"My favorite part was when they showed us the animals."

"I'm really afraid of snakes, but I learned more about them than ever before."

"I loved that I got to eat lunch by the flooded water. It was peaceful and quiet."

Among regulatory concerns are those imposed by the 1969 National Environmental Policy Act. The law requires alternative determinations for all federal projects. Army and Alabama regulations must also be considered.

Staff archaeologist Beverly Curry's job includes working with contractors to ensure that these regulations are met. There are more than 300 recorded sites at Redstone.

"If it has been surveyed, we study it," Curry said.

Biology major turned ecologist Daniel Dunn, also by title an environmental protection specialist, leads the natural and cultural resources team which oversees the Path for Nature program and related issues affecting the environment at Redstone.

"We try to get into planning; to help project proponents so they don't get into

Continued on page 25

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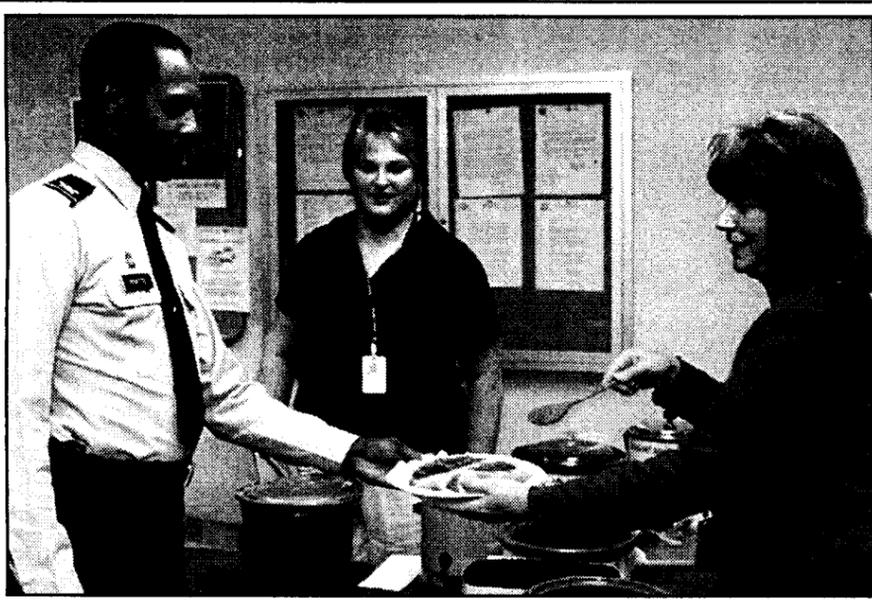


Photo Lab picture

### Tasty fund-raiser...

Col. Ronald Hyatte, commander of Logistics Support Activity, shows support for the Army Emergency Relief campaign as he is served a hot dog lunch April 28 by Linda Bailey, one of the many volunteers from the Business Management Center in LOGSA while Betty Jones looks on. The hot dog fund-raiser raised more than \$500.

### CONCERNS

Continued from page 21  
nature of their deployments. When a force deploys, they are 100 percent ready. However, when they return and before they deploy again, the service allows readiness to degrade for those units. The gap between the high state of readiness for deployed forces and the levels maintained during train-

ing is widening, and this concerns Navy and Marine Corps planners. In the Army, while readiness rates for the first-to-go units are high, those further down the deployment chain are less ready. This entails some risk for the country, officials said. The officials stressed, however, that the services are a far cry from the hollow forces of the late 1970s

and early 1980s. "When you look around the world, we have the finest equipment, we have the best trained units, we can whip anyone out there," said a senior military official. "This is not a hollow force, and as long as we have the support of Congress and the American people, we're not going to become one either." (American Forces Press Service)

### HEAD

Continued from page 23

Cragin cited the recently announced program giving Guard and reserve forces primary responsibility for responding to attacks by weapons of mass destruction as just one more example of efforts to further integrate the force.

Under that program, 10 rapid assessment and initial detection teams will stand up by the end of fiscal 1999.

Reserve component personnel have changed mindset and behavior because of the changes forced through the integration process. Guard and reserve personnel, he said, accept that their military jobs require more than just two days a month to stay prepared and ready for deployments. And, he pointed out, they have taken on these extra responsibilities willingly in order to become a more integrated part of the total force.

Cragin emphasized that many core competencies, such as military police, medical units, psychological operations and civil affairs, are now predominantly based in the reserve components. This increases the likelihood they will be called up.

This transformation and integration process has required similar changes in the way DoD emphasizes quality of life issues.

A study is now under way to determine the feasibility and costs of providing reserve component personnel with unlimit-

ed commissary access. Officials are examining other issues such as pay parity and disparities in health care delivery. Also, DoD reserve affairs is conducting a family support conference in Portland, Ore., to address increased family support concerns based on the changing role of the Guard and reserve forces.

Sometimes, however, smaller issues have proven to have great impact, such as the change to using the same ID card for all forces earlier this year.

"Reservists understand they don't get any more benefits from having the same color ID card, but it was a profound statement," Cragin said. "It sent a message from the top of the chain of command on down that this is a total force, I believe it's a total force, and we're going to do whatever we can to identify and eliminate these cultural and structural barriers."

Another issue being examined is the ability of servicemembers to seek presidential appointments for family members to attend military academies. Currently, active duty personnel with eight or more years of service may seek presidential appointments. Cragin is investigating the possibility of providing the same benefit to reserve component members with equivalent time in service.

The only predictions Cragin will make are that integration will continue and change is inevitable. (American Forces Press Service)

### NATURE

Continued from page 24

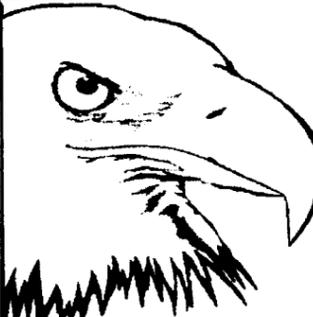
problems with compliance," Dunn said. "Often we are seen as holding a project back. We modify projects, if possible; otherwise, they

go through prescribed regulatory procedures which are lengthy."

The team is affectionately known as Redstone's resident "tree huggers." Passionate lovers of the environment, along with past

visitors to Path for Nature, have got to love them for that.

Better yet, take the words of a fourth-grader following his field trip: "I'd give you a million dollars. But I can't."



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# Sports minded...

U.S. military athletes earned two boxing medals at the 1976 Summer Olympic Games in Montreal. Name the two athletes, their weight class and the medals they won?

Answer: Leon Spinks (Marine Corps) light heavyweight, gold medal, and Charles Mooney (Army), bantamweight, silver medal

Name the 10 events in the Olympic decathlon.

Answer: 100-meter run, 400-meter run, 1,500-meter run, 110-meter high hurdles, shot put, pole vault, javelin, discus, high jump and long jump

What are the basketball schools in the NCAA's Mid-Eastern Athletic Conference?

Answer: Bethune-Cookman Wildcats, Coppin State Eagles, Delaware State Hornets, Florida A&M Rattlers, Hampton Pirates, Howard Bison, Maryland-Eastern Shore Fighting Hawks, Morgan State Bears, North Carolina A&T Aggies, South Carolina State Bulldogs

What are baseball's three "AAA"

Leagues?

Answer: The International League, the American Association, and the Pacific Coast League

The Baltimore Ravens and the Baltimore Orioles will have side-by-side stadiums when the Ravens open their new stadium this fall. Name the other major league city with side-by-side baseball/football stadiums.

Answer: Kansas City, Missouri — Kauffman Stadium (Royals) and Arrowhead Stadium (Chiefs)

What was the United States Auto Club's "Triple Crown" of auto racing in the 1970s?

Answer: The Indianapolis 500, the Ontario (Calif.) 500 and the Pocono (Pa.) 500

The NBA presented its first defensive player of the year award in 1983. Who captured that first award?

Answer: Sidney Moncrief, Milwaukee Bucks. (American Forces Press Service)

## Test your knowledge...

1. When do we celebrate the Army's Birthday, 223 years of service to the United States of America?

- a. June 12
- b. June 14
- c. June 15
- d. June 24

2. When did the U.S. Army Chaplain Corps officially begin?

- a. July 19, 1774
- b. July 29, 1775
- c. July 16, 1776

3. Officially, the birth date of the Army Warrant Officer Corps was established when?

- a. July 3, 1916
- b. July 5, 1917
- c. July 7, 1918
- d. July 2, 1919

4. The Women's Auxiliary Army Corps was created in May 1942. Who was selected as the first director of the WAAC and given the rank of colonel?

- a. Judith A. Lockett
- b. Oveta Culp Hobby
- c. Edith Nourse Rogers
- d. Donna Newell

5. On Aug. 31, 1949, this Secretary of Defense announced the creation of an Armed Forces Day to replace separate Army, Navy and Air Force Days.

- a. Robert D. Lovett
- b. Omar N. Bradley
- c. Louis Johnson
- d. Earle Wheeler

ANSWERS:  
1. b. June 14  
2. b. Oveta Culp Hobby  
3. c. July 7, 1918, when Congress established the Army Mine Planter Service as part of the Coastal Artillery.  
4. a. August 1856  
5. c. Louis Johnson. The single-day celebration stemmed from the unification of the Armed Forces under one department—Department of Defense.

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## Announcements

### AER Fund-raisers

**Cookout**  
Corporate Information Center plans a cookout 10 a.m. to 1 p.m. May 14 at building 3714 (old post chapel).

### Plants/hot dogs

On May 13 a plants sale will be held from 9 a.m. to 2 p.m. and a hot dog sale from 10:30 a.m. to 1 p.m. in the northeast end of the parking lot of building 5309. (In case of rain, the plant sale only would be held at building 5302, conference room 2139.) Plants will be priced as marked; hot dogs are \$1 each. This event is sponsored by Aviation Systems Directorate.

### Golf Tournaments

#### Rocket City Classic

The Huntsville West Kiwanis Club is holding the 11th annual Rocket City Classic 4-Man Scramble Golf Tournament to benefit Chi-Ho Mansion. There are still spaces available to participate in the tournament, scheduled for May 21 at Hampton Cove. The cost is \$125 for individuals and \$500 per team of four. For reservations call Brenda Richmond 534-4526 or Tom Hone 722-5469.

#### PEO Tactical Missiles

PEO Tactical Missiles Golf Tournament will be held May 22 at 8 a.m. with a shot-

gun start. Everyone is welcome to participate. This is a four-person team scramble. Cost is \$32 per person, \$128 per team. The cost includes cart, green fees and lunch. Prizes will be awarded for first, second and third place, longest drive, closest to the pin, and last place. For more information, call Maj. Bruce Lucas 876-0715.

### Open House

#### Redstone airfield

All AMCOM/Team Redstone personnel are invited to an open house at the Airfield from 2:30-5 p.m. Thursday. Displays will consist of practically every system supported by AMCOM: six airplanes from Atlanta and Birmingham; five helicopters from Fort Rucker, and a large array of weapons, optical and communications systems. The six airplanes will include the following: C-12F King Air; RC-12N Sigit Platform; C-21 Learjet; C-23B Shorts Transport; C-26 Fairchild Merlin 3; and a UC-35 Cessna Jet. The helicopters provided will be: OH-58A/C Kiowa; OH-58D Kiowa Warrior; UH-1H Huey; AH-1 Cobra and a UH-60 Black Hawk. For more information, call CWO 5 Dan Sullivan 955-0796.

### Civilian Welfare Fund

#### Bus trip

The Civilian Welfare Fund Council will sponsor a bus trip to Atlanta for a Cardinals vs. Braves baseball game July 31 and Aug.

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# Announcements

1-2. Cost is \$159; and an \$80 (non-refundable) per person deposit is due by May 20. "Presently we have 29 people signed up to attend this event," a prepared release said. "We have a limited number of game tickets; therefore, it is imperative that you get your deposit in ASAP to ensure yourself a seat on the bus and for the game. The game is essentially sold out. We will be accepting checks only made payable to the Civilian Welfare Fund." For more information, call Mary Ann Meyer-Schuck 313-1698.

### Rustic lodge

The Civilian Welfare Fund Council announces another benefit for the Redstone community: Beginning immediately, through Sept. 30, the council is offering the Rustic Lodge for any Redstone Community official office function (conference, off-site, partnership-team meetings, etc.) at no charge. The lodge will be offered on a first-come, first-served basis, and will be available from 8 a.m. until 3 p.m. Monday through Friday. A cleaning fee deposit (check) of \$150 will be required at time of reservation, but will be returned at checkout when all conditions are met. In the future, the lodge will be available for official office use from Jan. 15 until Sept. 30 each year. For more information, call Rustic Lodge 955-6739.

### Government accountants

North Alabama Chapter of the Association of Government Accountants will meet May 21 at the Marriott Space and Rocket Center starting with a social at 5:30 p.m. and followed by dinner at 6. The meeting features the chapter's annual awards presentation. Cost is \$12. For reservations call Sandra Julian 876-2300.

### Healthy baby classes

An educational program for first-time expectant moms and expectant moms who want a refresher course is available at Fox Army Health Center. The program provides participants important information and skills needed to have a healthy pregnancy, to prepare for labor and delivery, and to bring a new baby into the family. The course will be offered by the American Red Cross and taught by registered nurses from

Fox. It is open to all military beneficiaries and is free of charge. To register call the Public Health and Education Center at Fox 842-0196.

## Miscellaneous

### Contract managers

The Huntsville Chapter of the National Contract Management Association will hold its May breakfast meeting in the Beville Center at UAH on May 21 from 7-8:30 a.m. Scheduled speaker is Rex Geveden, program manager for NASA's Gravity Probe-B. Registration begins at 6:30. For reservations call 533-3954 by May 18.

### Swimming pools

Redstone swimming pools will open for the season May 23 at 11 a.m. Season passes are now on sale at the Recreation Center, building 3711, and Outdoor Recreation, building 5129. Cost is \$30 for a single person pass and \$40 for a family pass. Daily passes are \$2 and may be purchased at the pool. For more information, call 876-4868. Registration for swim lessons begins May 23 at pool 3, building 126 on Goss Road, daily except Wednesdays from 11 a.m. to 5 p.m. There are eight lessons per session (within a two week period) and the session cost is \$15. Call Gail at 876-0901, or starting May 23 pool 3, phone 876-6713.

### Master's degree

A registration/information meeting for the master's in business administration offered by Nova Southeastern University is scheduled at the Beville Conference Center, classroom 289, on May 21 at 6 p.m. The Beville Center is located at 550 Sparkman Drive. For more information, call 1-800-672-7223, extension 5039.

### Commissary/PX sale

The Commissary and the Post Exchange will jointly sponsor a moonlight madness sale in the commissary May 31 from 6-11 p.m.

### Skin cancer screenings

Free skin cancer screenings will be held in the Huntsville Hospital Medical Tower, 201 Sivley Road, suite 30, lobby level Saturday from 9-11 a.m. The screenings coincide with

National Melanoma/Skin Cancer Detection and Prevention Month sponsored by the American Academy of Dermatology and the North Alabama Dermatology Society.

schman 895-1580; from 7-noon at building 5681, bus, Susan Zimmerly 313-4165; from 8 a.m. to 1 p.m. at SMDC, room 1C400, Al Longhi 955-5901; from 7 a.m. to 12:30 p.m. at building 4505, Linda Keel 955-0900; and from 8 a.m. to 1:30 p.m. at building 4752 (NASA), Edwira Bressette 544-8115.

### Blood program

Here is the Red Cross blood program schedule for this month: May 15— from 7 a.m. to 12:30 p.m. in building 5309, first floor, room 9128, Jean Hicks 876-2944 or Brenda Boyett 876-3404; from 8-noon at building 6260, Cathi Brooks 876-0351. May 21— from 7-10 a.m. at building 7770, AMC MEA, bus, Ann Proctor 876-8071; from 8-noon at SMDC, room 1E100 (Wynn Drive), Al Longhi 955-5901. May 22— from 7-noon at Corps of Engineers, Linda Mer-

### Resource managers

American Society of Military Comptrollers will hold its annual picnic at 11 a.m. May 14 at the Col. Carroll Hudson Recreation Area. This event is free for members, and \$5 for non-members. For information call Cherry Hovik 876-1696.

### ID cards

The Identification Card Issuing Facility will

See ANNOUNCEMENTS on page 28

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May 11-15, 1998



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# Announcements

be closed May 26-27 for installation and training on new ID card issuing equipment and software. "We will be unable to issue ID cards at all during this two-day period," a prepared release said. "All retirees, active duty, Reserve, and Guard personnel and their family members should ensure that ID cards expiring May 26 and 27 are reissued prior to the expiration date. We plan to reopen for business at 7:30 a.m. May 28; however, installation problems may require closure for an additional day." For more information, call Sharon Richardson or Charles Ham 842-2416.

### Contract managers

Huntsville Chapter of the National Contract Management Association may award up to two scholarships within a range of \$500-\$1,000 each to assist deserving students in the pursuit of a degree in contract or procurement management or NCMA members pursuing the UAH Contract Management Certificate Program. Applications are due by May 30. For more information and applications, call Lindsey Bayer 726-2967 or Doug Danley 544-4771.

### International women

The International Women's Club of Huntsville will commemorate its 40th anniversary in conjunction with the annual fund-raiser May 16 at Huntsville Marriott. Tickets cost \$23 per person, including an international buffet. Highlights of the event include a presentation of various cultural programs and a parade of international costumes modeled by club members and guests. Social hour starts at 5:30 p.m., followed by dinner at 6:30. For more information and tickets, call Demy Robley 882-6064 or Noriko Ellis 852-0458.

### Cancer society

The American Cancer Society will hold a Casino Night for "the biggest rat in town" contest from 6-11 p.m. June 5 at the Officers Club. Cost is \$50 per couple; and there will be a cash bar. Auction for prizes begins at 10. For more information, call the American Cancer Society 536-1855.

### Transition assistance

The Military Personnel Office will hold a three-day Transition Assistance Workshop, May 19-21 in building 3447 (behind Toftoy Hall). The workshop is mandatory for all military personnel leaving the service within the next 180 days unless they have attended a previous workshop. These workshops are available to all branches of service including National Guard and Reserves. DoD civilians, military retirees, veterans and spouses of all are also encouraged to attend. Seating is limited so you must register to attend. To register call Marie Adams 842-6145.

### MEDDAC training

MEDDAC staff members are fulfilling their annual requirement for readiness training May 3-15 at Fort Gordon, Ga. The approximately 20 soldiers participating are mainly support staff, health care providers and nurses. The staff of Fox Army Health Center will try to minimize the impact of this temporary shortage of staff on its customers. However the shortage will be felt in the services most affected: all clinics, the Troop Medical Clinic, Respiratory Therapy, and the lab. "Your patience and cooperation during this brief time of training will be very much appreciated," a prepared release said. For assistance call the patient representative 876-8621.

### Prayer breakfast

The May non-denominational Prayer Breakfast sponsored by the IMMC will be held at 7 a.m. May 19 in building 5309, room 9128 (conference room at east end of Sparkman Center Food Court). "This month we will have a 'Singspiration' led by Ronnie Davis and the Brotherhood Chorus of the IMMC," a prepared release said. No food or drinks will be served, but you may bring your own if you wish. Everyone is welcome.

### Equipment loss

Two VCRs were taken from room 5253 at the Sparkman complex during April 20-30. The serial numbers and bar codes include: Sharp model A523U, serial 408761260 B/C 031705 and 408760509 031704. Anyone knowing anything about the location of this equipment should call the Army Learning Center 876-1061.

### Savings bonds drive

The U.S. Savings Bonds 1998 Kickoff Rally will be held at 9:30 a.m. Thursday in the Sparkman Auditorium.

### Professional secretaries

Professional Secretaries International (PSI), Redstone Arsenal Chapter will hold its installation of officers banquet/meeting at 6 p.m. May 19 in the Twickenham Room, Officers Club. For more information call Vickie Harrison, installation committee chairman, 895-5858.

### Communication training

International Training in Communication

(ITC) members from St. Louis are forming a new club and all are invited to join. The next meeting will be held Thursday from 4:30-6 p.m. at building 5681, room 125. For more information, call Janice Isbell 313-4216 or Carol Howard 876-9490.

### Logistics engineers

Tennessee Valley Chapter of the International Society of Logistics (SOLE) will meet at 11:30 a.m. May 19 at Holiday Inn, Madison Square Mall. Scheduled speaker is Rick Turner, project manager for Virtual Single, IMMC. Cost is \$9. For reservations call Louise W. Cooper 313-2489, E. Louise Cooper 955-7489 or Jim Schaaf 922-5159 by 4 p.m. Friday.

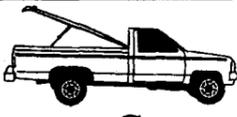
### Aircraft association

Huntsville Chapter 190, Experimental Aircraft Association will hold its annual Armed Forces Day "Old Fashioned Grass Field Fly-In," Saturday at Moontown Airport. This event begins at 7:30 a.m. with breakfast and lasts all day. It's free and open to the public. There will be free plane rides for children and plenty to see and do. For more information call Lee Adcox 539-3311, Jon Moore 882-6672 or Charles Cozelos 722-8585 (ext. 19).

### Sergeants major

The Sergeants Major Association will hold its quarterly meeting at 6:30 a.m. May 20 at the Raddison Suites on South Memorial Parkway. All active duty and retired sergeants major are invited. For more information, call Sgt. Maj. Charlie Hardin 876-3178.

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**Autos/Trucks**

'98 Ford F-150 Supercab. 4x4, all options, factory warranty, like new, 14K mi. \$25,000. 859-9629.

'97 Chevrolet Silverado. Ext. cab, SWB, 3 dr., white, maroon int., bedliner, rails, keyless entry, CD, 12K mi., \$19,900. (256) 586-7715.

'97 Chevrolet Silverado. Ext. cab, SWB, red, tan int., 350 V8, auto., 10K mi., must sell. \$22,900. (205) 462-1005.

'97 Chrysler Sebring LXI. auto, white, gray int., leather, fully loaded, sunroof, CD. Asking payoff, \$21,800. 776-3860.

'97 Ford F-150 XL Supercab. 18.5K mi., 4.2L, 5 sp., 2 tone paint, air, stereo, chrome pkg., bedliner, immaculate. \$15,400. (256) 728-5731.

'96 Ford Explorer XLT. Exc. cond., auto., 34K mi., PW, PL, PS, cruise, custom wheels, tilt, luggage rack. \$20,175. 882-1385.

'95 Cavalier. 2 dr., 5 sp., cruise, tilt, tape deck. Asking \$6,300. 461-8537.

'95 Ford F-150. 302 V8, auto, air, drk green/tan, 103K mi., LWB, bedliner, tool box. \$7,700. (256) 778-9325.

'95 Mercury Villager GS. Loaded, exc. cond., 63K hwy. mi., extended factory warranty. Vince B4, 10pm daily, 772-7264.

'94 Mitsubishi Eclipse. 49K mi., exc. cond., 5 sp. \$7,000. 534-8550, 653-1252.

'94 Mitsubishi Mirage. Auto., PW, PL, AM/FM cassette, exc. cond. 58K mi., lt. blue. \$5,800. 539-1413.

'93 Chevrolet S-10 pick-up. 57K mi., air, cassette, V6. \$7,995. 722-2885.

'93 Jeep Grand Cherokee LTD. 4WD, black, leather, fully loaded, exc. cond. \$12,800. 851-1686 after 5 pm.

'93 Mazda MX6 LS. 6cyl., Auto, 57K mi, green, Pw Sunroof, new tires & brakes, \$10,495. 461-0773 after 6pm.

'93 Toyota Camry XLE. White with navy int., all power, air, sunroof, CD changer, new tires, 85K mi. \$9,900. 534-9165.

'91 Mercedes 190E. 2.6, white, leather, sunroof, all power, air bag, alarm, 108K mi., exc. cond. \$11,500 obo. 722-7978.

'91 SAAB 900. Completely rebuilt 5 sp. transmission. Red, exc. cond., beautiful car, fun to drive. \$6,250. 880-2811.

'90 SAAB 9000 Turbo. 1 owner, gray, leather int., 5 sp., sunroof, 125K mi. \$7,500. 880-0317.

'89 Olds Cutlass. High mi., runs good, looks good. \$2,250. 232-6818.

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'88 Pontiac Grand Prix. All power, new tires, paint and engine with 30K mi. \$4,500 book, asking \$3,050 obo. 883-4073.

'87 Jeep Cherokee Laredo. 4.0L, 4WD, auto, stereo, air, PW, PL, very good cond. \$5,100. 852-8237.

'87 Mustang convertible GT. 5.0L, 5 sp., red/white top, 73K original mi., exc. cond. \$6,500. (256) 830-1246.

'87 Olds Regency Brougham. Loaded, pwr. seats, leather, very clean, V6 FI, motor rebuilt at 120K mi., exc. ride. \$4,000 obo. 653-4158.

'86 Dodge 600 convertible. New paint in '95, new top in '94, all service records, Dodge service manuals. \$2,500. 880-3607.

'85 Mercury Marquis Brougham. 3.8L EFI V6, very good cond., well maintained. \$1,300. 828-3316.

'80 Mazda GLC. New tires, rebuilt radiator, good running car. \$890. 883-2022.

'80 Nissan 280ZX. 5 sp., air, cruise, premium sound system, factory rebuilt dealer installed engine. Good cond. overall. Asking \$1,200. 883-6115.

'74 Nova. 454 steel crank, 11.5-1 forged pistons, ready to race, street legal. '66 Chevelle, 396 bored 60. Serious inq. only. 219-6715 pager, voice or #.

'70 Mustang, renovating. 351 Holley carb, headers, new tires, rims, brakes, mufflers. \$5,500 or serious offer. Gary, 851-0047.

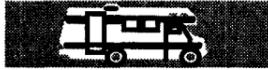
'69 Triumph Spitfire. Just in time for summer. 98% rebuilt last winter, you finish and save \$. Both tops, factory overdrive. \$2,000. George, 461-0022.

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**Bayliner '86, 21 ft.** Ciera Cruiser. Exc. cond., low hrs., trailer. \$10,500 obo. Howard, 837-1785.

**Bayliner 2450 Ciera Sunbridge** Cruiser with trailer, V8 Cobra engine, depth finder, trim tabs, shore power, marine radio, all options. \$14,000. 852-5099.

**Boat. '88 Cheetah. 17' 130 hp.** I/O Mercruiser. Open bow, garaged, exc. cond. RFCU value is \$6,000. Asking \$4,500. 883-6894.

'87 Ebbtide 17' runabout boat. 85 hp. Mercury outboard motor with Trailmate Easy Load trailer. \$3,500. (205) 837-5287.

**15 ft. Hobie Cat catamaran** sailboat with trailer. \$1,800. Exc. cond. (423) 476-1959.

'94 17' Bass Tracker with trailer, motor, anchor, live well, fish finder, less than 70 hrs., exc. cond. \$5,500. 464-6072.

'96 Kawasaki jet ski STS. 3 seater, new battery, low hrs., cover, trailer, warranty spring '99. \$5,350. 233-0732.

'72 Winner Tiki 15 ft. runabout boat. 70 hp. Johnson outboard, Tennessee tilt trailer, runs but needs work, stored on Arsenal. \$1,000 firm. (256) 350-4323.

**21' Bass Tracker pontoon** boat. Sun Tracker DL with trailer, trolling motor, 40 hp. Evinrude, exc. cond. \$5,200. (256) 482-2606.

**Miscellaneous**



**Air compressor for 2.6L** Mitsubishi engine (Dodge Caravan). Rebuilt, still in box, \$75. 464-9499.

**Alpine air and water purifiers.** Sales and service, 3 day free odor removal, free cleaning. Call Jim Stephenson, (256) 922-1297.

**Antique 1906 Brunswick pool** table. Restored, appraised \$4,000, asking \$3,000, includes accessories, will consider offer. (256) 379-2981.

**Beautiful antique Duncan** Phyffe couch, \$750. Wendy, 722-8288.

**Beautiful couch, matching** chair and lamp, \$200. Full size firm mattress, \$30. 885-2302.

**Buy cars for \$100.** Seized and sold locally this month by IRS, DEA, FBI, trucks, 4x4's, RV's and more! Call toll free 1-800-522-2730 x 4281.

**Complete Teenie Beanie set.** Mint cond. in sealed bags, \$165. Teenie Beanie Chops, \$20. 551-2934.

**Dining room table w/6 chairs,** chrome with wood grain finish, \$50. Lawn mower, 3.5 hp., \$50. 532-4055.

**Dining table, 4 chairs, \$60.** 2 king box springs, \$10 ea. 851-6963.

'86 Honda ATC 200X 3 wheeler. 4 stroke, full suspension, very good cond., \$875. 882-2016 lv. msg.

**18K air conditioner, 220v,** \$165. 15K air conditioner, \$150. 830-2891.

**Electronic bumper pool table,** \$170 obo. Riding lawn tractor, \$400 obo. Kitchen table and chairs (4), \$200 obo. All items exc. shape. 852-5099.

**Ethan Allen bedroom suite,** Country Classic, maple, twin bed, chest and desk with bookcase, chair. Orig. \$1,600. or Will sell bed only. 895-9619.

**Fitness center quality stepper** by Bodyguard. \$1,150. 539-7915.

**5 piece sectional with 2 end** recliners and queen size hide-a-bed. Wood and glass end tables, sofa table and coffee table. 772-8603.

**Furniture: Brass plated end** tables, coffee and sofa tables, \$150 neg. 851-8437.

**Furniture: King waterbed** with storage and dresser, \$300. Super single waterbed with storage and chest of drawers, \$150. Sofa bed and love seat, \$150. 885-1733.

**Golf clubs and bag** (2,3,4,5,7,8 iron, 1,3,5 woods), \$50. 36" black glass cooktop, \$150. 881-1030.

**Hesston 5510 hay roller.** 5x5 rolls, electric tie, low hrs., exc. cond. \$4,200 obo. 828-5503.

**Horse collars.** All very old. Some as low as \$15. 881-2838.

**King size bed with frame, \$75.** Turbo Glider with monitor, \$100. Dennis Austin Complete 10 Workout, \$100. 1 yr. old reclining couch and loveseat, \$900. 881-0807.

**Microwave oven.** Extra large deluxe Sanyo model EM 3621K. 2 shelf cooking capacity, temperature probe, delayed start, etc., \$75. 536-7705.

'92 Suzuki RM125 dirtbike. New top end, exc. cond., \$1,800. (256) 885-1733.

**Old fashioned bedspring,** \$20. Maple table with 4 chairs, \$60. Cherry coffee table, \$60. 881-6118.

**Polaris 65 above ground pool** vac, used 1 season, \$125. King brass headboard, \$25. Queen Anne chair, \$40. 461-7967.

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