

Redstone Rocket

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October 16, 1991

Red Cross has urgent need for blood donors

BY SKIP VAUGHN

Redstone Arsenal workers are encouraged to help the American Red Cross rebuild its regional blood supply which has been in a shortage situation for nearly five months.

The critical need for blood is expected to worsen as the end of the year approaches. "We know we've got to increase our collections 8,472 units between now and December in order to meet the need," said Judith Cameron, the Red Cross director of hospital services for the northern section of Alabama.

More than 8,400 units are needed for the Alabama region which covers most of the state except for the Mobile area. The 10-county northern section's commitment is 2,852 units. A unit represents slightly less than a pint of blood.

"There's really only one source for human blood, and that's another human being. As medical technology becomes more sophisticated, the need for blood has gone up," Cameron said.

Blood must already be in the inventory and ready when an emergency occurs. Because of requirements for testing before blood can be released, it cannot be used right away; so a ready supply is needed at all times. Blood has a limited shelf life of only 42 days. "So what we need is a steady flow of healthy human beings who are willing to share part of themselves to save another person's life," Cameron said.

First-time donors as well as current contributors are needed. Donors can be anyone who weighs at least 110 pounds, is 17 or older and in reasonably good health. They can give once every 56 days.

"We need donors all yearlong," said Linda Clark, a Red Cross donor resources development specialist in the northern section. "We need about 750 units of blood per day in order to meet the needs of the hospitals in the Alabama region."

Redstone Arsenal workers contributed about 8,000 units of blood last year. An effort is under way to increase the number of donors here and to find central locations on post for indoor blood drives: ideally a site in each of the northern, middle and southern parts of Redstone. Bicentennial Chapel and the Recreation Center, building 3711, are good possibilities, according to Karen Bender, team leader of the Support Operations Office. The support operations office at Redstone Arsenal Support Activity has responsibility for the installation blood program.

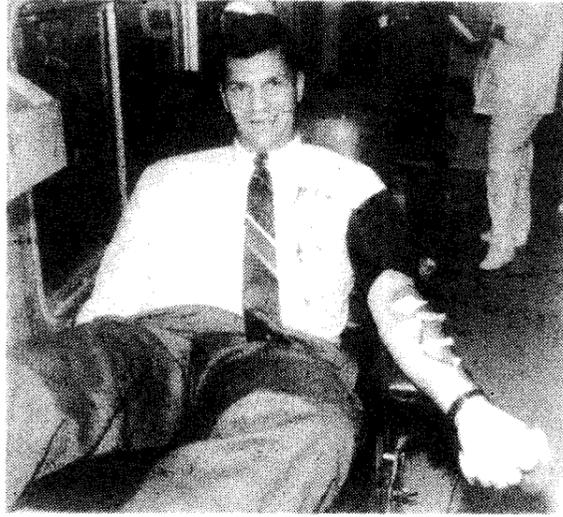
Indoor sites are sought to better accommodate the donor processing which has become a slower procedure because of Red Cross changes. Donors are given longer to provide more in-depth personal health histories; there is more material for them to read; and emphasis is placed on ensuring confidentiality during this donor history process. "That's for the donor safety and the patient's safety and those issues are uppermost in our minds," Cameron said.

Alternative work schedule slated to begin Nov. 17

The Alternative Work Schedules agreement between management and the employees' union here has been approved by higher headquarters.

Nov. 17 is the planned starting date for AWS, according to the Civilian Personnel Office. Thousands of local Army civilians will have the chance to change to a work schedule that would enable them to have a Friday off each pay period.

Civilian employees will have two choices. They can either continue to work their current eight hours per day, five days per week schedule; or they could decide to change to a 5-4/9 schedule. This compressed work schedule would mean working nine hours per day for eight days of a pay period; eight hours for one day in the period; and have one day off. The agreement states that the off day would be Friday; once your supervisor determines whether you would be off either the first or



IMPORTANT GIFT — Contractor employee Charles Erwin, a member of the technical staff for Nichols Research, donates blood last Friday morning in the bloodmobile parked in front of building 4488.

Volunteers assist the Red Cross blood drives by registering donors, handing out blood bags, and serving refreshments to those who have given blood. In addition there are about 75 blood program coordinators

in various buildings on post, according to Ruth Miller, the installation blood coordinator in the support operations office. She can be reached for more information at 876-3723. The Red Cross's Madison County location, at 1101 Washington St. in Huntsville, can be reached at 536-0084.

The staff of American Red Cross Blood Services in the Alabama Region released the following open letter to blood donors:

"Recently many changes have taken place with your American Red Cross Blood program that possibly created some inconvenience for you. For this we ask you to accept our apology and gratitude for your patience and understanding. We believe that most of the problems you encountered as we made changes to our program have now been solved.

"Providing blood and blood products for the patients in the Alabama region is not only critical but also very difficult," the letter continues. "There is currently a severe shortage of blood donors. This creates a deficit of seriously needed blood and blood products. Patients are dependent on you, your donor group and the American Red Cross for support.

"Please continue supporting your community blood program by regularly visiting the Blood Donor Center (no appointments required) or the bloodmobile when it comes to your company," the letter concludes.

Redstone's electrical energy system can accommodate future expansions

BY SKIP VAUGHN

Equipment is in place to monitor and control Redstone's electrical energy consumption for many years to come.

The computerized system, operated by the base support contractor, was upgraded this year. This modified SCADA (Supervisory Control and Data Acquisition) system is expected to help the Army conserve energy here. Established by the Department of Energy, every October is National Energy Awareness Month.

The system monitors electrical energy flowing from the Tennessee Valley Authority into Redstone Arsenal. It monitors the power at each unit substation, and controls demand by cycling air-conditioning systems throughout Redstone. Cycling means that air conditioning or heating can be shut down in various Army buildings.

"We can control approximately 10 percent of the electrical energy by cycling air-conditioning," said Arthur Barnette, an electrical engineer and energy con-

servation coordinator at BAMS, the contractor. "We use this for energy conservation by turning off unneeded air-conditioning in the evening; if a building's vacant, we don't need air conditioning. We can control heat in the winter also, since heat is tied into air conditioning."

Controlling demand helps Redstone keep its power costs down, according to Dick Watkins, an electrical engineer in the Directorate of Engineering and Housing. "We want to control our demand," Watkins said. "By monitoring, we can control it and save money."

TVA sends 161,000 volts of electricity to Redstone Arsenal. The computer here monitors its usage at various volt levels and indicates any problems. "If we see we're drawing too much power, the computer can cycle the air conditioning load to reduce power loads," Barnette said.

The original system was installed in 1965. An energy-monitoring computer, an IBM system 7, was (See Energy, cont'd on page 2)

second Friday, you would normally be off the same Friday each pay period. Supervisors can determine how many of their workers will be off the first Friday, and how many the second Friday.

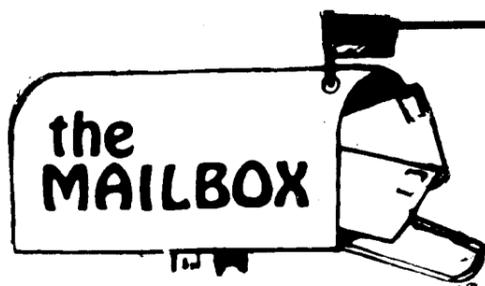
Most workers on the compressed work schedule would come to work between 7 and 8 a.m., depending on their selected starting time which would be available in 15-minute intervals. They could decide to come to work at 7, 7:15, 7:30, 7:45 or 8 a.m. Those who currently come to work between 8 and 9 may be allowed to continue their present start time.

Current employees will have the option of trying a compressed work schedule for three months then returning to their old starting time of 6:30 a.m., for example, after the first try. If they try a compressed work schedule again and decide to go back to flex-

itour, they would in most cases then be restricted to starting work between 7 and 8 a.m. New employees, whether they choose a compressed work schedule or not, would only be able to start work between 7 and 8 a.m.

If a holiday occurs during a pay period, that day would become the eight-hour day for the pay period. If the holiday falls on your normal Friday off, you would take your holiday on another day.

The agreement covers civilian employees of the Missile Command, Information Systems Command-MICOM, Test Measurement and Diagnostic Equipment (TMDE) Activity, Commissary, Program Executive Office for Air Defense and PEO for Fire Support, among others.



Recycling program

Editor:

There seems to be a lack of total commitment to support the recycle paper/aluminum can program at Redstone Arsenal. The problems I have encountered repeatedly over the past several months are as follows:

1. The recycle paper bins are too small and are made of wood. The bins are falling apart, don't always close properly, and are full before the scheduled pickup day. We need larger, metal containers that close properly, and we need the paper picked up weekly.

2. The cardboard boxes we were supplied for the recycle aluminum cans don't work well. They get dirty and they aren't sealable. Roaches set up housekeeping and raise families in them. The cans aren't picked up on a regular basis, either, which doesn't help the bug situation. It sometimes is weeks in between pickups. We need sealable, plastic garbage cans with plastic liners and we need the aluminum cans picked up on a weekly basis.

I have talked to the CORs for both recycle programs and they haven't been able to resolve these problems. I am tired of hearing all the reasons why MICOM can't get contractors to pick up the recycle paper/cans, why they can't get decent containers, etc. If Huntsville can get a contractor to pick up recycle material, it looks like the government could, too — if they really put forth their full effort — put the profits (MICOM's share) back into the program instead of giving it to whatever they're giving it to, and apply TQM/ACOE to this area.

Kay Solberg

Range area traffic

Editor:

I would like to see Dodd Road through the range area open during morning and afternoon rush hour traffic. It is hard for me to understand why these ranges cannot be scheduled to accommodate the heavy traffic load. It would certainly convenience a lot of people while reducing traffic hazards in other areas.

Let me propose two scenarios. 1. The quarters for the commander of MICOM or director of NASA was near gate 2 and their offices located at the intersection of Martin and Dodd Roads. 2. The director of RDEC lived out Rideout Road and his office was located near finance. In these cases, I believe that more effort would go into scheduling range activities to ensure that Dodd Road is open during rush hours. Of course, I

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understand that they are very busy people with a lot of responsibilities and thus require special consideration. On the other hand, what about the hundreds or perhaps a thousand of us with less responsibility or influence. A work force this size should be given some consideration. I do believe that we are contributing to mission success.

Name withheld by request

Business leader

Editor:

It gives me great pleasure to announce, as chairman of the board of Redstone Federal Credit Union, the inclusion of Mr. Gerald E. Toland in the Official Registry of the Who's Who of American Business Leaders, 1991 Edition.

The Official Registry evaluates nominees in accordance with specific standards of achievement. Mr. Toland has exhibited these traits throughout his

career, and he has brought this same dedication to the members of Redstone Federal Credit Union.

Mr. Toland was appointed president of Redstone Federal Credit Union on Aug. 19, 1991. He has acquired over 20 years of experience in the financial industry.

Charles L. Ray Jr.
Chairman,
RFCU board of directors

Sign your letter

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

Energy

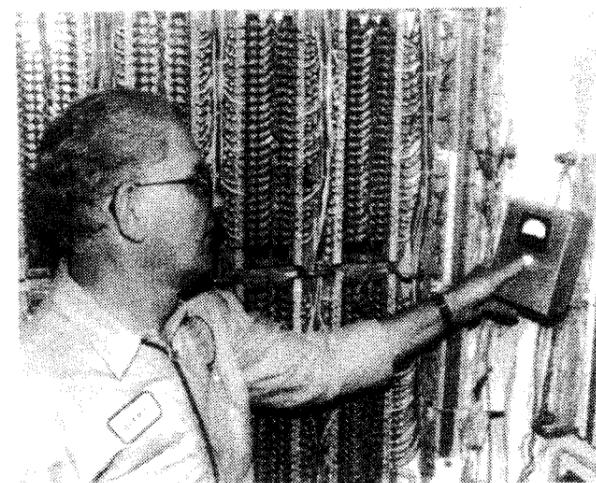
(Cont'd from page 1)

installed in 1975 and "it did such a good job that it paid for itself in three months," Barnette said. "We've updated the control system to the state of the art."

This state-of-the-art upgrade occurred last February. The new system controls power flow to all the substations; monitors and limits demand; and provides energy consumption reports. The Army purchased it from Williams Electric Company of Ft. Walton Beach, Fla., for \$441,000 in appropriated funds.

"The other control system was antiquated. It didn't allow for future modifications without going into expensive redesign. This system will allow for additional controlled points and monitoring points much easier," Barnette said.

With future expansions, as more people join the Redstone work force, there will be more controlled points for the electrical system. The system can easily accommodate additional buildings. "This system was designed and built to basically double what we have now in controlled points," Watkins said.



CHECKING CIRCUITS — Alvie Berry, power dispatcher for BAMSI, checks the telephone circuits that control Army air-conditioning.

High-tech weapons must meet future challenges, says chief executive of major defense contractor

The U.S. Army will have to fight again and when that day comes it will need improved versions of the high-tech weapons that proved so successful in Desert Storm, the chief executive of one of the nation's major defense contractors said here last week.

Speaking at an Oct. 9 luncheon for contractors and government personnel attending the MICOM advanced planning briefing for industry, Norman Augustine of Martin Marietta said American taxpayers will want their forces armed with smarter, even brilliant weapons.

More than 400 industry and government weapons researchers attended the two-day classified session to hear plans to develop future Army missile weapon systems.

Pointing out that American forces enjoyed a loss exchange ratio near 1,000-to-1 in the war with Iraq, Augustine said that taxpayers will expect the same results in future conflicts because: "they will not be content with winning by one point in overtime."

Augustine, a former undersecretary of the Army, said technology will soon be available to both find and destroy targets at great range without putting America lives at risk.

In assessing the cost of such weapons, Augustine said their effectiveness and the ability to perform the mission in comparison to other means — such as manned aircraft — should be compared. And he added that it may be necessary to take some risks in development in the future — as it has been in the past — to get weapons like Patriot that are ready and effective when needed.

He expressed concern that the way government does business now would not yield the weapons and equipment that may be needed in future conflicts.

"We've created an acquisition system now that has enormous penalties for things going wrong and minimal rewards for things going right," he said.

Engineering and Housing puts emphasis on service

The Directorate of Engineering and Housing wants to do a better job of satisfying its customers, according to a DEH news release.

"Do you have questions or concerns about Job Order Requests you submit to the Directorate of Engineering and Housing? Do you need information concerning the services we provide and how to obtain them? Your DEH would like to assist you in obtaining information by providing the following points of contact," the release states.

"If you need information concerning a Job Order Request in DEH, call Tim Sumners 876-3835 or Frank Osborne 876-3012. If you are a customer of RDEC

(Research Development and Engineering Center), Lupe Rico 842-0034 or Randy Buford 876-8158 can assist you," the release continues.

"If you have any other questions or concerns about the services DEH provides, please call our Customer Relations Representative, Anita Harrison 955-6600.

"If the above mentioned DEH personnel are unable to satisfy you, then call Dr. Bobby Mullinix, deputy director, 876-3814 or Dr. David Branham, director, 876-3516. The Directorate of Engineering and Housing wants to do a better job satisfying our customers," the release concludes.

Division here joins consortium with industry, academia

BY SANDA MARTEL

The Manufacturing Technology Division of the Research, Development and Engineering Center has become a member of the Manufacturing Research Center (MARC) consortium at Georgia Tech.

The consortium pools member funds to conduct research to advance state-of-the-art manufacturing technology applicable to both commercial and military products. This leveraging, or pooling of the five consortium members' funds, makes available to MICOM a pot of \$1.2 million, a 5:1 ratio, to conduct work on projects of mutual interest to all members.

"With money so tight now in the Department of Defense, we have to take advantage of every opportunity we have to get more for our money," John Davis, chief of the Manufacturing Technology Division, said.

Other consortium members include International Business Machines (IBM), Digital Equipment Corporation, Ford Electronics and Motorola.

Manufacturing research and development efforts within the MARC consortium will directly benefit Missile Command's programs in two important ways.

One, through flexible manufacturing research and development projects at Tech, MICOM will benefit from private sector businesses who learn how to make both military and commercial items on the same production line.

This will broaden and sustain the defense production base, improve U.S. business competitive position, and ultimately reduce overall defense costs.

A second benefit to MICOM will be the transfer of Department of Defense technology into the private sector. By proving a technology in MARC's micromanufacturing environment prior to building it in a real production plant, vendor level companies associated with the consortium, as well as graduate level students who will work on such projects at the university, will take their new knowledge into their workplace. Here, they would be able to use their new knowledge to benefit DoD production needs.

MICOM's Manufacturing Technology program is focusing on flexible manufacturing systems for missile electronics and seeker/sensor components fabrication and assembly.

"What they're doing there (at the consortium) is directly related to our interests," Davis said. "They're involved not just in basic research, but also in efforts which develop new manufacturing processes and equipment. Being a member of the consortium will greatly enhance our work in microelectronics and photonics here and will help reduce future Army weapon systems production costs."

The Manufacturing Technology Division is responsible for planning, developing and implementing projects that advance the state-of-the-art in manufacturing processes, equipment, procedures and methodologies to ensure producibility and affordability of missile system end items and components.

"This is of little value if you don't achieve transfer of the new technology to industry," Davis said.

When the division began considering membership in the consortium there was already a "90 percent fit of what they were doing and what we are interested in getting out of the consortium," he said.

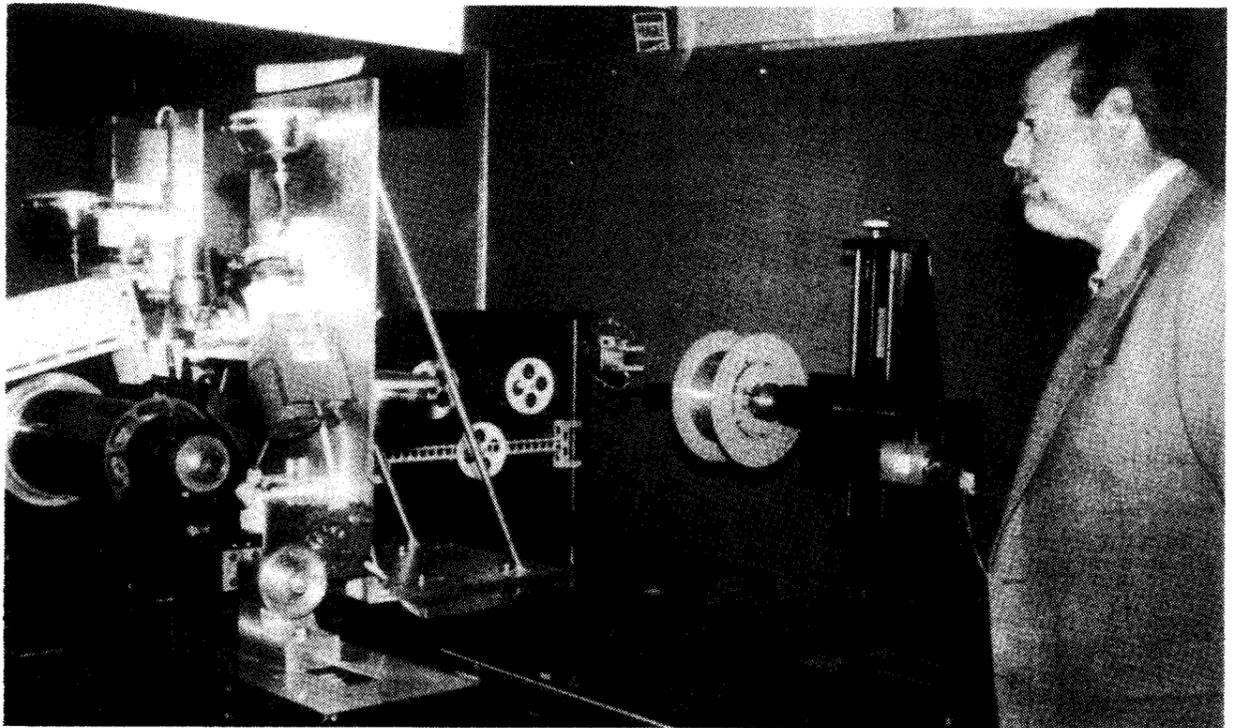
The cost for a one year affiliation is \$200,000, with the option to renew each year.

Dr. Larry Daniel, director of Systems Engineering and Production Directorate, characterized this endeavor as an "example of aggressive and long-term

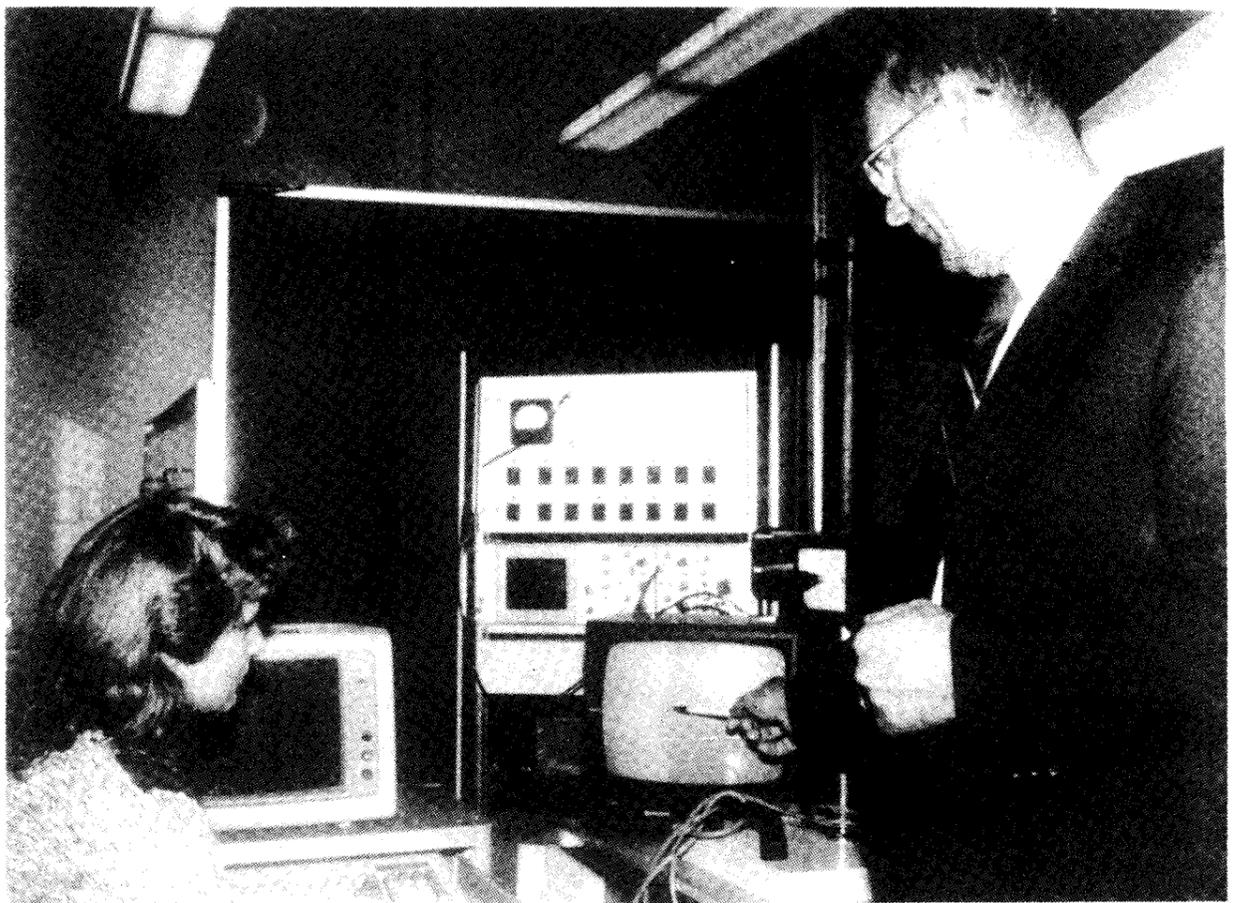
thinking among government, academia and industry working together to establish a flexible industrial base."

"Proper applications of Army manufacturing

technology resources over the next few years can significantly reduce hardware acquisition and life cycle costs, influence future hardware designs and improve the hardware's reliability," Daniel said.



FOG-M AUTOMATIC FIBER WINDER — The Manufacturing Technology Division, with the University of Alabama-Huntsville and Morgan Research, developed this prototype, an automatic fiber-optic winder. It winds the bobbin that holds optic fiber, the data link between the FOG-M missile and the gunner on the ground. Shown here with the bobbin winder is John Davis.



TERMINAL DISPLAY — Lorrie Frederick, UAH engineer, left, and Roy Lindberg, lead engineer in ManTech, check out the vision system on the FOG-M automatic fiber winder. It has the capability of watching the fiber being wound onto the bobbin and pictures any mistakes on the monitor screen.



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Research center's deputy supports shared technologies

BY SANDA MARTEL

Research, Development and Engineering Center's deputy director brings to his new job a desire for shared technologies between the Strategic Defense Command and RDEC.

Col. Arthur Meier II, whose last assignment was project manager for the Ground Based Radar Project at SDC, came to the Missile Command in August. He sees more opportunity now for cooperative efforts between RDEC and SDC, some of which are already under way.

"There are several ongoing initiatives right now, in propulsion, sensors and simulation. But there are other things SDC is doing now that we need to get into the Center.

"There is a lot of interesting technology SDC is buying from industry, which we in RDEC need to get involved with, so that the government can continue to be the smart buyers. This is going to be one of my main initiatives as deputy director," Meier said.

Another goal Meier has is enhancing the RDEC image, not that it doesn't already enjoy a prestigious position, he said.

"RDEC is acknowledged as one of the high-tech centers in the state, but we need to make sure more people know that," Meier said.

"We need to package it. Right now we're looking for a slogan to summarize what RDEC does. We have lots of good things here and we want to show what we do and ensure that people walk away after a visit knowing dollars need to be put in this center. Not just dollars, but a renewed commitment to keep it first rate," Meier said.

He mentioned the Redstone Scientific Information Center as a "national resource" and having a wealth of information to offer. "We need to get that information out to more people," Meier said.

The other hat Meier wears is chief of the Advanced Systems Concept Office at RDEC. That office's mission is to keep an ongoing relationship between the Army Materiel Command and the Training and Doctrine Command. For example, RDEC lets TRADOC know what's going on here in the area of research, and TRADOC in turn lets RDEC know what the user needs.

"We take our technology to the user and start a dialogue between the users and the engineers and come up with what soldiers in the field need. This is how missile systems are born," Meier said.

Meier has held a wide variety of other assignments prior to coming to Huntsville. Those include chief of Advanced Systems Concept Office, U.S. Army Armaments Research, Development and Engineering Center, Dover, N.J.; chief, Strategic Wargaming Branch of the Joint Analysis Directorate, Office of the Joint Chiefs of Staff, Washington, D.C.; division artillery executive officer, 1st Armored Division Artillery in Germany; nuclear operations officer, Central



MEIER

Army Group (NATO) in Germany; test and evaluation officer, U.S. Operational Test and Evaluation Agency, Falls Church, Va.; physicist and executive officer, Headquarters, Defense Nuclear Agency, Washington, D.C.; and battery commander, 1st Battalion, 77th Artillery, 1st Air Cavalry Division in Vietnam.

He was awarded a bachelor's of science degree in 1963 from the U.S. Military Academy at West Point, N.Y. He also holds a master's in physics from Rensselaer Polytechnic Institute, Troy, N.Y. Meier was born in Cambridge, Mass., and graduated from Leavenworth (Kan.) High School.

His military education includes completion of the Naval Command and Staff College, Defense Systems Management College and the Army War College.

Military awards and decorations include the Legion of Merit, Bronze Star, Defense Meritorious Service Medal, three awards of the Army Meritorious Service Medal, four awards of the Air Medal with V-device and the Army Commendation Medal.

His wife, Amy, is coordinator for the Play School at Trinity Methodist Church on Airport Road. The Meiers have three daughters. Alyssa, a junior at Butler High School, is a cheerleader there. Katrine is a junior at Auburn University and Julianna is a sophomore at Auburn.

Meier said in the two months he has been at RDEC, he has been pleased with the quality of people who work there.

"These are good, knowledgeable and friendly people who know what they're doing. It's a topnotch organization. It makes the job enjoyable," Meier said.

School bus rules outlined for parents

Redstone youngsters and their parents should be aware of the rules regarding post school buses, according to the sergeant major for Redstone Arsenal Support Activity.

Sgt. Maj. Jack L. Ferguson provided the following message concerning student conduct on school buses:

"The following rules and safety regulations were established for the benefit of students riding Redstone Arsenal school buses. These rules must be observed by all student passengers, and parents or guardians are required to review these guidelines with their children.

"School bus service for Redstone Arsenal is a contractor service. The bus drivers are contractor employees, and as such, are governed by the terms of the contract. The bus drivers are responsible for maintaining order to ensure that students are being safely transported," the message states. "When disorder breaks out, drivers will stop the bus and remain stopped until order is restored before proceeding on their routes. Parents will receive telephonic notification of all offenses committed by students riding the bus. A written report will be prepared by the contractor and submitted to the Contracting Officer Representative within 24 hours or on the following workday. Additionally, a first offense will result in a warning letter being forwarded to parents; a second offense will result in a two-week suspension of bus privileges; a third offense will result in a 30-day suspension of bus privileges; and a fourth offense will result in suspension of bus privileges for the remainder of the school year.

"At no time will the contractor or contractor's employee initiate disciplinary action against any student. Encounters or confrontations with bus drivers by parents are not permitted. Additionally, parents are reminded that students being transported to and from school via U.S. Government contracted school buses will be duly registered. Information on registration may be obtained by calling the Transportation Motor Pool 876-6863 or Pete Woodard 842-9185," the message concludes.

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Deming philosophy: cooperation and quality go together

BY SKIP VAUGHN

The Missile Command can benefit from the teachings of the man credited with transforming Japan in the 1950s, according to a Total Quality Management specialist here.

Marcella Mathis was among 11 local Army workers who attended an intensive four-day seminar in Atlanta featuring Dr. W. Edwards Deming. Deming is credited with shaping the Japanese emphasis on quality during that nation's industrial recovery after World War II.

"It was the most enlightening type seminar I have ever been involved in. The man is a genius. America has ignored this genius for so long; it's time to get on board. The wisdom is there; we've just got to tap it and be serious about it," Mathis said.

After World War II, Deming was invited to Japan by Gen. Douglas MacArthur. He soon won the admiration of the Union of Japanese Scientists and Engineers. In 1951, that body established its Deming Prizes which are awarded annually to Japanese companies demonstrating quality control. Deming, 91, is now a self-employed consultant based in Washington, D.C. He delivers seminars throughout the U.S. About 600 people, from industry as well as government, attended the seminar Sept. 10-13 in Atlanta which was presented by Quality Enhancement Seminars Inc.

"Primarily (Deming said) that we must have knowledge before we can do anything, and we must go through a transformation. There's no substitute for knowledge, and he said the best efforts are not sufficient to bring about improvements. The basic problem anywhere is quality, and he said a product or service possesses quality if it helps somebody and enjoys a good and sustained market," Mathis recalled. "Dr. Deming talked the principle of using a system, having a system, and cooperation. And he said things like: the prevailing style of management has imprisoned us, led us into decline and it defeats a system. And he said that education and government are in need of a transformation to think and act in terms of a system and not as individual competitive elements. And he said the result of every example of cooperation is that everybody wins.

"He said that the quality of an output of a company cannot be better than the quality directed at the top. And that job security and jobs are dependent on management's foresight to design product and service that will entice customers and build a market: to be ready ahead of the customer — to modify product and service," Mathis said. "And he said, to copy something was to invite disaster. You must have a theory, and we talked about the theory. And (Deming said) an individual loses if they only think of their personal interest. He said we need to focus on people and make it work; everyone has a place in the organization. And then he said again, we must manage a system. If there's good management, there will be good quality. And the primary thing is to work toward optimization of the whole: how to achieve the max-

imum good for the whole at the least expense of the parts. The result of every example of cooperation is that everybody wins. Cooperation always pays."

Mathis is a Total Quality Management specialist in the Missile Command's four-member TQM Office. She sees how this command can benefit from the message Deming delivered at the seminar. "I think it

can apply to MICOM in that we need to work as a whole and not compete among ourselves; and then we would be a strong force, a strong unit. We would continually improve. The competition is out there, not among ourselves. And if we can come together as a whole, work together, we can't help but improve," Mathis said.



MEETING THE MENTOR — Seated, from left, are Ernie Horton, Deming, and Jack Moring. Standing, from left, are Robert Caldwell, Janet Fowler, August Tranquill, Mathis, Wyatt Shankle, Mary Sutton, Frencetta Stanford and Barbara Rosenblum. Caldwell and Fowler both work at AMC Management Engineering Activity and the other Army employees work at the Missile Command. Not shown is Frank Tarpley of MICOM.

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Redstone Airfield cited for good safety record

The Redstone Army Airfield has received a safety award from Army Materiel Command in recognition of a year of accident-free flying operations.

Signed by Gen. William Tuttle, AMC commander, the certificate cited the airfield's safe operations from July 1990 through July 1991. It was presented Thursday to the Directorate of Flight Operations by Maj. Gen. William Chen, commander of the Missile Command.

"You can add this to the wall with all the others you've received for past years," Chen told the assembled members of the directorate. He thanked the approximately 48-member directorate for its efforts.

Lt. Col. James Kincaid, the director of flight operations, accepted the award on behalf of his organization. The airfield has earned safety awards annually since 1981.

The latest honor recognizes a mishap-free year during which the airfield was involved in more than 2,600 hours of flight. "That's coast-to-coast in Conus (continental United States), from California to Florida and up as far as Maryland; coast-to-coast and all weather conditions," Kincaid added. "It has involved transporting people, explosive cargo, classified equipment and munitions, and research and development

flights that cause us to have to operate near to maximum capabilities of the aircraft.

"We have serviced transient aircraft at the airfield: the C-5 Galaxy all the way to some very small airplanes and helicopters, experimental types," Kincaid said. "This is a team/community effort out here. It involves our tenants and contractors as well as the Directorate of Flight Operations personnel assigned to the airfield."

Bob Barnes, the aircraft contract manager for Marshall Space Flight Center, was among those attending the award ceremony. He described the working relationship between MSFC and the airfield. "I think we work well together and have a very good working relationship, couldn't be better. And I think it just adds to the overall safety," Barnes said.

The airfield has recorded only three aviation mishaps since 1978. Its records show that the last one occurred July 29, 1981 when a C-7A sustained an in-flight engine fire and landed in a cotton field. "This mishap would not be 'credited' to the directorate under the current rules since it was a materiel failure," a memorandum states. The airfield's safety officer is CWO 3 Mike McMullen.



PRESENTATION — Maj. Gen. Chen presents the AMC safety award to Lt. Col. Kincaid and the Directorate of Flight Operations.

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Ex-football star to conduct drug awareness training

A former professional football player, recovering from substance abuse, will be coming to Redstone Arsenal next week to talk about his experiences.

Eugene "Mercury" Morris is the scheduled speaker Oct. 23-24 as the Community Counseling Center sponsors drug and alcohol awareness education and prevention training.

Morris is a former NFL all-pro with the Miami Dolphins. In 1982, seven years after leaving the National Football League, Morris was arrested, tried and

convicted on charges of conspiracy and trafficking in cocaine. He served three and a half years in prison. On March 6, 1986, the Florida Supreme Court overturned the decision because Morris was not given a fair trial.

His presentations will be in conjunction with the 1991 National Red Ribbon Campaign set for Oct. 21-25. "Neighbors Drug Free and Proud" is the theme for this year's campaign.

The sessions are scheduled Oct. 23-24 as follows:
 • First day — 9:30-11, for military personnel, at the

Enlisted Club; 1-2:30, military personnel, Enlisted Club; 3-4:30, Defense Department civilians and military family members, Enlisted Club; 7-8:30 that night, Huntsville community, Bicentennial Chapel.

• Second day — 9-10:30, for Huntsville city schools, Bicentennial Chapel; 10:30-11:30, autograph session, Bicentennial Chapel/PX/Commissary area; 1-2:30, Huntsville city schools, Bicentennial Chapel; 2:30-3, autograph session, Bicentennial Chapel; and 7-8:30 that night, Huntsville community, Bicentennial Chapel.

Acquisition Center folks have unique Staff Meeting

All staff meetings should be as much fun as the one the procurement folks held Thursday.

The Acquisition Center, formerly called Procurement Directorate, held a "Staff Meeting" or organizational day in the NASA picnic area. Members of the center enjoyed an afternoon of food, frolic and fun.

Activities included musical entertainment and sports — volleyball and horseshoes. System Logistics team won the volleyball tournament in which eight teams competed, said Kellie Craig, a procurement clerk who was in charge of games at the picnic.

Members of the winning System Logistics team included Bridgette Fletcher, Willis Epps; Denise Boone and her husband, Calvin; Jim Chairizio, Dante Emanuel, Georgia Walker, Eddie Thomas and Rodrick Mathews.



WE ARE THE WORLD — A cast of Acquisition Center celebrities — including such stars as Stevie Wonder, Michael Jackson, Willie Nelson and The Pointer Sisters — lip-sync "We are the World" during the center's "Staff Meeting."

Army worker's son gets scholarship

Stephen W. Linville, son of Linda C. Linville of the Air Delivered Systems Office in the Weapon Systems Management Directorate, has been awarded a Federal Employee Education and Assistance Fund (FEEA) college scholarship.

Linville, a sophomore at the University of Alabama in Tuscaloosa, received one of 18 FEEA scholarships presented in the Southeast. The scholarship awards are based on merit. Linville has maintained a perfect 4.0 grade point average as a finance major, and is a Faculty Scholar.

In 1991, FEEA provided \$86,000 in scholarships and \$75,000 in emergency grants and no-interest loans for federal employees. FEEA also has arranged for more than \$5 million in low cost student loans. Over 90 percent of FEEA's support comes from federal employee contributions during the annual Combined Federal Campaign.

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Video exhibit may help extinguish smoking habit

BY EVELYN D. HARRIS

AMERICAN FORCES INFORMATION SERVICE

Last year, 38 percent of the nation's 50 million smokers tried to quit on Great American Smokeout day. Of these, more than 7 million stayed off cigarettes for 24 hours, and 5 million held off up to three days, according to the American Cancer Society.

How many people in your office or installation participated? If your answer was "not many," it may be that those people who could quit easily have quit. The cancer society reports the percentage of American smokers steadily declined until recently and has leveled off. Perhaps those who still smoke need more help. "Empower" is the word Army Dr. (Col.) James Damato prefers to "help."

Damato is executive administrator of the National Museum of Health and Medicine of the Armed Forces Institute of Pathology in Washington, D.C. A big part of the museum's mission is health promotion, said Damato. He sees health promotion as "empowerment" because it provides people with the information and skills needed to take responsibility for their health.

"Those of us in health promotion are saving lives just as much as the docs who fix people up after they get hurt," he said. "Our goal is to empower people to avoid getting sick."

As a sort of year-long smokeout, he is producing a video exhibit on smoking that will be shaped like a giant cigarette pack. He expects the project to be ready in late November. It will first be placed in the Pentagon and later will travel to military installations and federal buildings.

According to Damato, the exhibit will test participants on their knowledge of the benefits of not smoking, the hazards of smoking and alternatives to smoking. A separate screen will feature a laser disc display showing short videos on smoking. The exhibit's computer will record visitors' reactions, and if the exhibit is successful, it may be "cloned" so more installations can have access to it sooner. The exhibit will include pamphlets on smoking and a snack machine.

"The snack machine won't be there as an example of an alternative to smoking — living in good health to see your grandchildren is my idea of an alternative to

smoking," said Damato. "It will just be there to attract more people to the exhibit. We hope the exhibit will empower people to make the choice not to smoke if they haven't started and think about quitting if they

have. Smoking kills about 400,000 people every year — America didn't lose that many in World War II. I look at preventing smoking as a patriotic duty — we want to try to save some lives."

Government supports Smokeout effort

BY EVELYN D. HARRIS

AMERICAN FORCES INFORMATION SERVICE

Nov. 21, 1991, the 15th Great American Smokeout — time for smokers to think about quitting. Federal workers' decisions may soon be easier than ever to make, with the help of their employee health plans.

Beginning next year, civilian employees who want to quit can be reimbursed once in their lifetimes for up to \$100 of the cost of a smoking cessation program. An Office of Personnel Management spokeswoman said in late August that health benefits carriers had not detailed their insurance plans beyond setting the \$100 maximum for a bona fide program.

Although \$100 is not enough to send a shivering Chicago smoker to a fancy Sun Belt clinic this winter, it could cover a visit to a doctor and prescriptions for nicotine gum, if needed. It's more than enough to cover the cost of American Cancer Society-based "Fresh Start" smoking-cessation classes, available on or near most installations and ships.

Fresh Start courses are usually free, but in some locations they may carry a nominal charge that's refunded upon course completion. The four-session courses provide information about why people smoke and how it affects the body, along with strategies to make quitting easier. People looking for a longer program can contact the American Lung Association, which sponsors inexpensive seven-session smoking-cessation classes in many cities and towns.

As of August, CHAMPUS intends no similar smoking-cessation coverage for military family members or other beneficiaries, a program official said.

Military members and other users of the military medical system can attend smoking-cessation programs on installations or at military medical facilities. If classes alone aren't enough, they can also get

nicotine gum through the military if their physicians prescribe it. Some military medical facilities provide the gum as part of their smoking-cessation programs.

Another development that may make it easier to stay away from cigarettes — or more difficult to smoke — is that DoD supports commanders and activity heads who designate their entire buildings as "no smoking" areas. Other federal agencies, including the Department of Veterans Affairs, have already made this move.

Navy Dr. (CDR) Kenneth St. Andre, senior policy analyst for health promotion in the Office of the Assistant Secretary of Defense for Health Affairs, said a recent National Institute for Occupational Safety and Health bulletin supports smoke-free workplaces. The institute declared smoke in indoor air to be a potential occupational cancer-causing agent according to Occupational Safety and Health Administration criteria.

"This bulletin represents the first step in the process of issuing regulations related to smoke in the workplace," said St. Andre.

Veterans using VA medical centers will no longer find cigarette machines in the canteens, according to a recent VA announcement. On a case-by-case basis, physicians can allow long-term patients to smoke if the physicians believe denial would be counter to the patients' long-term welfare.

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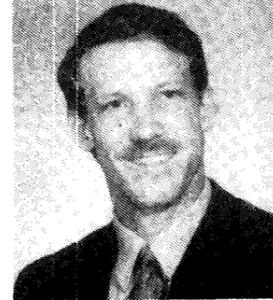
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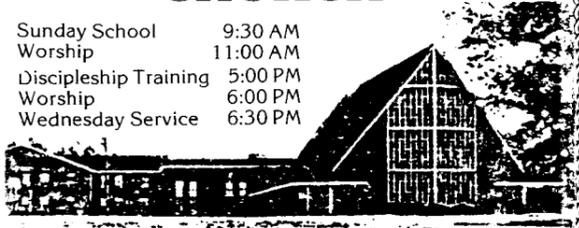
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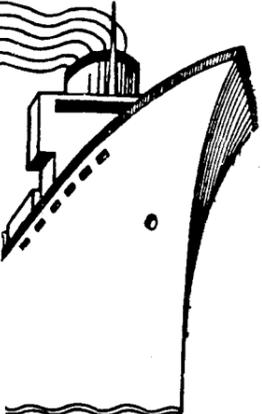
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U.S. Postal Service sets holiday mailing dates

AMERICAN FORCES INFORMATION SERVICE

Mail overseas-bound packages and cards early to make sure they arrive in time for the holiday season, say military postal officials.

Deadlines for mailing packages by surface and space-available mail, the two cheapest ways, are fast approaching, said Air Force Maj. Mark Rader, Military Postal Service Agency. If these deadlines are missed, he said, individuals still have the option of mailing parcel airlift or priority mail.

Rader said the U.S. Postal Service's deadlines for 1991 holiday mail to and from the United States help ensure that mail reaches its destination on time. Some tips for making sure parcels arrive in good shape and on time include:

- Cushion contents so they don't move around in the box.

- Don't wrap cartons in paper or with string.

- Seal cartons with fiberglass strapping tape, reinforced paper tape or plastic carton tape.

- Address packages with smudgeproof ink.

- Address cartons correctly, with the return address in the upper left corner and the "to" address in the lower right corner.

- Slip a piece of paper with the "to" and return addresses inside each carton.

- Use the correct Postal Service customs form.

- For overseas military mail, use the new AA, AE and AP designators and numbers.

- Use ZIP codes.

- Mail early in the day.

Destination	Outbound Airmail			
	Air Parcels and Priority	Air Letters and Cards	Parcel Airlift (PAL)	Space Available Mail (SAM)
Africa	Nov. 18	Dec. 2	Nov. 8	Oct. 25
Alaska (APO)	Dec. 6	Dec. 9	Dec. 2	Nov. 22
Australia	Dec. 2	Dec. 2	Dec. 2	Dec. 2
Canada	Dec. 9	Dec. 9	Dec. 2	Dec. 2
Caribbean	Dec. 6	Dec. 6	Nov. 22	Nov. 18
Central & South America	Dec. 2	Dec. 6	Nov. 22	Nov. 8
Europe	Dec. 2	Dec. 2	Nov. 22	Nov. 11
Far East	Dec. 2	Dec. 2	Nov. 15	Nov. 11
Greenland	Dec. 2	Dec. 2	Nov. 22	Nov. 11
Hawaii (APO)	Dec. 9	Dec. 16		
Mexico	Dec. 9	Dec. 9		
Middle East	Nov. 15	Nov. 25	Nov. 11	Nov. 4
Southeast Asia	Dec. 2	Dec. 2	Nov. 8	Nov. 1

Christmas Mailing Dates 1991

Destination	Outbound Surface Mail	
	International	Military
Africa	Oct. 1	Oct. 25
Alaska	Nov. 1	
Australia	Nov. 1	Nov. 15
Caribbean	Nov. 1	Nov. 1
Central & South America	Oct. 1	Nov. 1
Europe	Nov. 1	Oct. 11
Far East	Nov. 1	Oct. 11
Greenland	Oct. 25	
Hawaii	Oct. 15	
Middle East	Oct. 1	Nov. 1
Southeast Asia	Nov. 1	Nov. 8

Deadlines for Holiday Mail From Overseas

Destination	Priority	Letters	PAL	SAM
U.S. Gateway	Dec. 6	Dec. 9	Dec. 6	Dec. 2



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Army publishes new accession weight, body fat standards

WASHINGTON — The Army is tightening its weight standards for men and women who want to enter the service.

The new standards, to become part of AR 40-501, "Standards of Medical Fitness," affect those who sign up with the service after Oct. 1.

Not to be confused with the height-weight and body fat standards for those already in the force, covered by AR 600-9, the new accession standards affect only people applying to enter the service for the first time. The change also establishes separate body fat standards for applicants, who were previously covered by the standards of AR 600-9.

The new standards realign the age categories from five groups — 16-20, 21-30, 31-35, 36-40, and 41 and over — to four groups — 17-20, 21-27, 28-39, and 40 and over. Generally, the change also imposes stricter limitations on prospective soldiers' weight, although women in some categories actually can weigh a few pounds more.

For example, under the old standards a 5-foot,

8-inch, 20-year-old male could weigh up to 203 pounds; the new standards allow the same applicant to weigh up to 179 pounds.

Previously, a 5-foot, 1-inch, 20-year-old woman could weigh 127 pounds; on Oct. 1, that woman's maximum weight becomes 124 pounds. However, at 5 feet, 4 inches a 20-year-old woman's maximum weight rises from 135 to 137 pounds.

Army applicants who exceed the maximum weight for their height are measured for body fat. If their body fat exceeds the Army's maximum allowable percentage, they are rejected for service.

The new accession body fat limits are: age 17-20, men 24 percent allowable body fat, women 30 percent; age 21-27, men, 26 percent, women 32 percent; age 28-39, men 28 percent, women 34 percent; and age 40 and over, men 30 percent, women 36 percent.

According to an Aug. 21 message to the field from

the Office of the Deputy Chief of Staff for Personnel, the new standards do not apply to applicants for initial appointment as officers or warrant officers, or for those with prior Army service who wish to re-enter the force. Applicants in these categories must meet the in-service height-weight and body fat standards of AR 600-9.

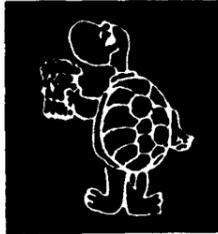
Recruits who enter the Delayed Entry Program before Oct. 1 are screened using the current weight standards. However, if they exceed their allowable weight, they will be judged fit or unfit for service using the new body fat tables.

The message adds that people who qualify for service before the Oct. 1 rule change will not be re-evaluated or disqualified based solely on the new standards.

The new screening table will be published in its entirety in an upcoming revision of AR 40-501. (Arnews)

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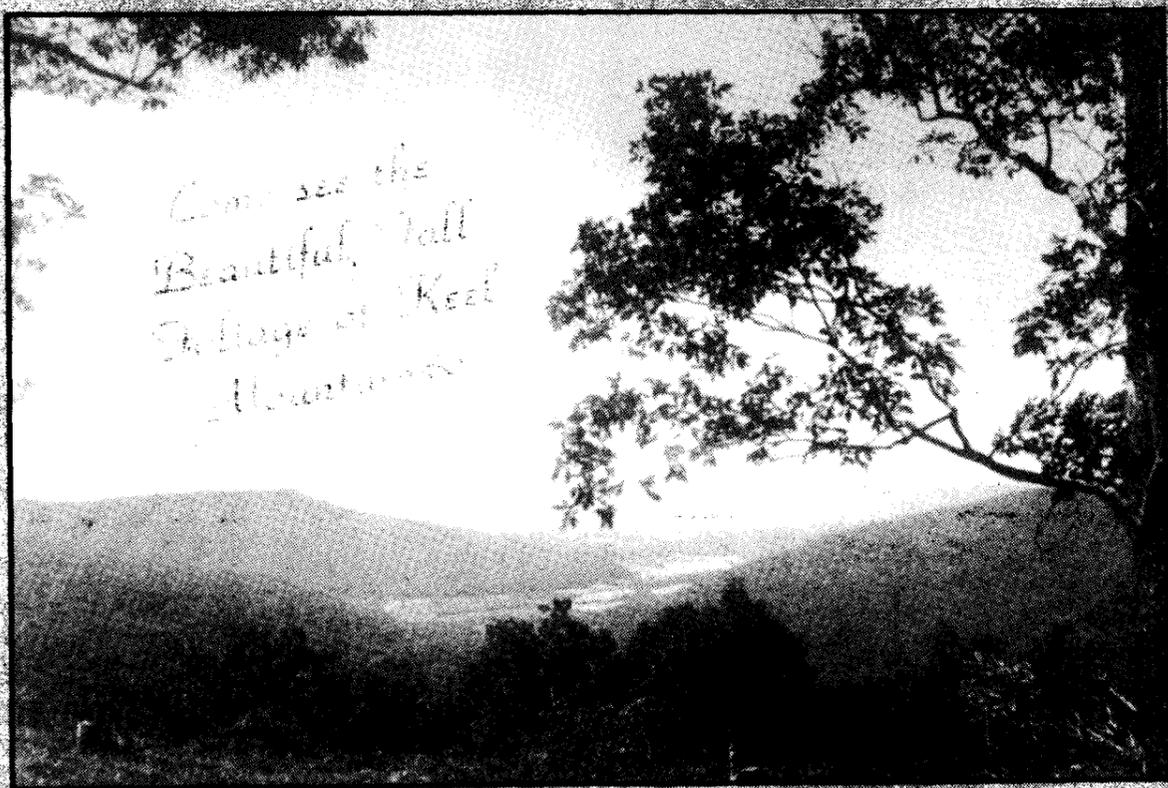
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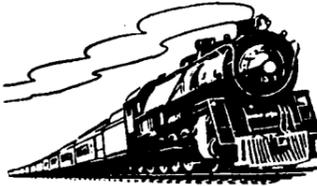
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Picker gives Tennessee slight edge over Crimson Tide

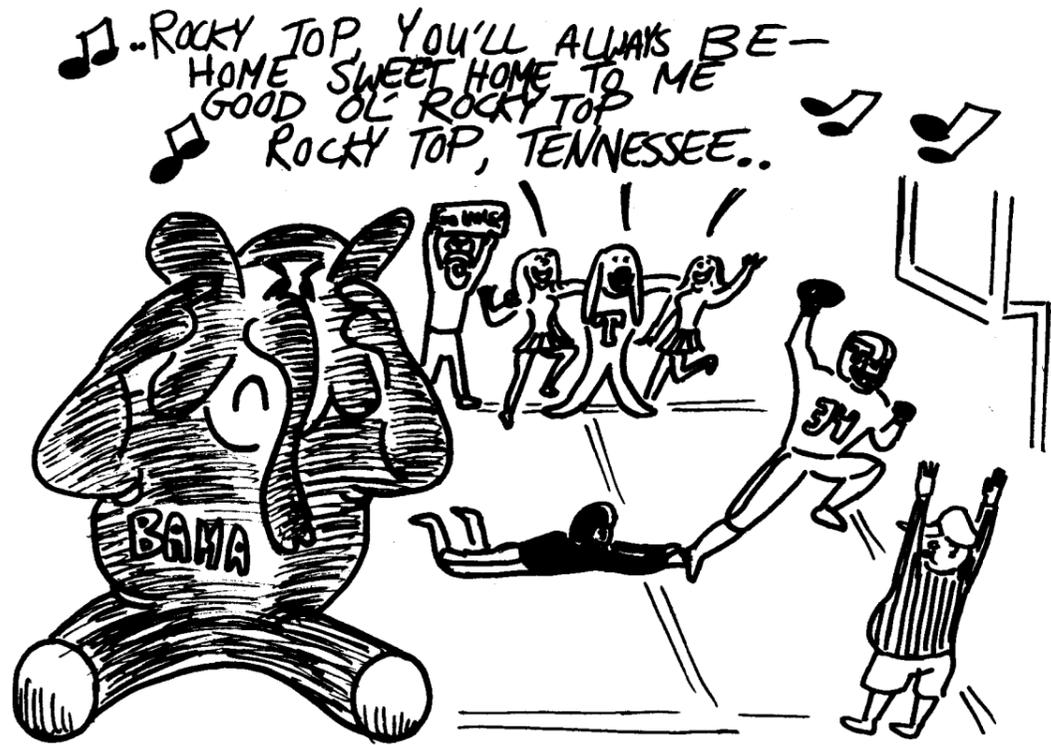
BY SKIP VAUGHN

The Tennessee Volunteers once again face a stern test in unfriendly territory when they travel to Birmingham this weekend to take on Alabama's Crimson Tide.

Alabama has improved since its 35-0 loss at Florida, but Tennessee appears to have the better team. The pick here is...Tennessee.

Last week's predictions record was unavailable at presstime because of the holiday Monday. Here are Skip's Picks for selected games this week in major college football:

- Tennessee at Alabama — Tenn. by 4.
- Notre Dame at Air Force — ND by 17.
- Ala. A&M at Albany State — A&M by 6.
- Wash. State at Ariz. St. — ASU by 14.
- Texas at Arkansas — Texas by 7.
- Army at Louisville — 'Ville by 10.
- Texas A&M at Baylor — Baylor by 7.
- W. Va. at Boston College — W. Va. by 5.
- Hawaii at Brigham Young — BYU by 21.
- Washington at Calif. — Wash. by 7.
- Cincinnati at Va. Tech — Tech by 10.
- Colorado at Oklahoma — Okla. by 7.
- Colo. St. at Utah — Colo. St. by 3.
- No. Illinois at Fla. — Fla. by 30.
- Georgia at Vanderbilt — Ga. by 7.
- Kansas St. at Nebraska — Neb. by 28.
- Iowa State at Kansas — Kansas by 4.
- LSU at Kentucky — Kentucky by 6.
- Maryland at Wake Forest — Md. by 4.
- Memphis St. at Miss. St. — Miss. St. by 13.
- Indiana at Michigan — Mich. by 17.
- Minnesota at Mich. St. — Minn. by 3.
- Okla. State at Missouri — Mo. by 7.
- Navy at Temple — Temple by 5.
- N. Carolina at Va. — Va. by 3.
- Northwestern vs. Ohio St. — OS by 10.
- UCLA at Oregon State — UCLA by 17.



- Rutgers at Penn State — PS by 14.
- Syracuse at Pittsburgh — Pitt by 3.
- Wisconsin at Purdue — Purdue by 4.
- Texas Christian at Rice — TCU by 7.
- San Diego St. at at Texas-El Paso — SDS by 6.

- Georgia Tech at S. Carolina — Tech by 3.
- Stanford at Southern Cal — USC by 10.
- SMU at Houston — Houston by 7.
- Tulane at S. Miss. — S. Miss. by 21.
- Illinois at Iowa — Iowa by 3.

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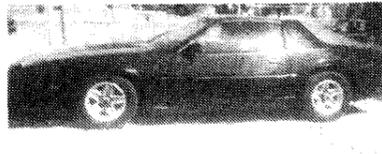
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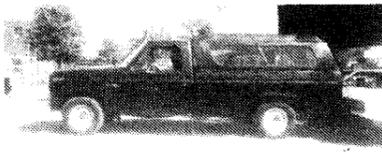
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Military honored for advancements in medical care

AMERICAN FORCES INFORMATION SERVICE

The Department of Defense has received the Foundation for Critical Care's Phoenix Award for contributions in research and practice by military doctors and nurses.

Dr. Stephen M. Ayres, foundation board chairman, presented a painting commemorating the award to Dr. Enrique Mendez Jr., assistant secretary of defense for health affairs, in a recent ceremony. Called "The Golden Hour," the painting will hang outside Mendez's Pentagon office as part of a historical exhibit of the National Museum of Health and Medicine of the Armed Forces Institute of Pathology. The institute is based at Walter Reed Army Medical Center, Washington, D.C.

Ayres told ceremony attendees that DoD advances included the use of helicopters to evacuate trauma victims quickly, the delivery of first aid in the field and the care of serious burns. He also credited military doctors for increasing the medical field's understanding of how to treat physiological changes caused by multiple injuries and for a multidisciplinary approach to patient care.

"The Golden Hour," by retired Army Col. William Tilton, depicts a real-life medical evacuation scene from Operation Desert Storm. It portrays a soldier who has just received fluid resuscitation being carried to a waiting UH-60 Black Hawk helicopter. The medical practice began during Vietnam to prevent kidney failure, previously a major killer of injured troops, according to foundation board member Richard Gurley.

"Golden Hour" refers to the fact that treatment in the first 60 minutes following an injury is critical to ensure the best recovery. Although the painting depicts a gulf war scene, a depiction of the Southwest Asia service ribbon is accompanied by Korean and Vietnam war ribbons to indicate that DoD medical advances being honored began in those conflicts.

Spokeswoman Sally Schwartz said the nonprofit foundation "fosters more compassionate, technologically advanced critical care, primarily by distributing public information pamphlets and sponsoring professional education."

Ayres, a pioneer in emergency medicine, received

the first Phoenix Award in 1983; he had no connection with the group at the time, said Schwartz. Other recipients include Dr. Albert Sabin, developer of the oral polio vaccine and an advocate of more sensitive treat-

ment of patients and their relatives; and Dr. C. Everett Koop, who developed the first neonatal intensive care unit before becoming U.S. surgeon general in the 1980's.

Defense schools in Philippines evacuate records

AMERICAN FORCES INFORMATION SERVICE

Students who attended Department of Defense dependents schools in the Philippines should be reassured to know their records are safe from Mount Pinatubo's volcanic activities. The records were moved to Japan.

Marilyn Witcher, DoDDS public affairs officer, said persons who attended a DoDDS school in the Philippines between 1985 and 1991 may obtain copies of official transcripts by writing to:

DoDDS-Pacific
ATTN: Executive Services Division
Futenma Box 796
FPO AP 96372-0005

Requests for official records should include the student's name at the time of attendance, name of school, year graduated or withdrew and the complete address to which the record should be sent. The student or ex-student should sign the request if over age 18; otherwise, a parent should sign. Special-education record requests must be signed by a parent.

Records for students who attended any DoDDS school before the 1985-86 academic year are stored at the Educational Testing Service. The toll-free number to request records from the service is **1-800-257-9484**. Or write to:

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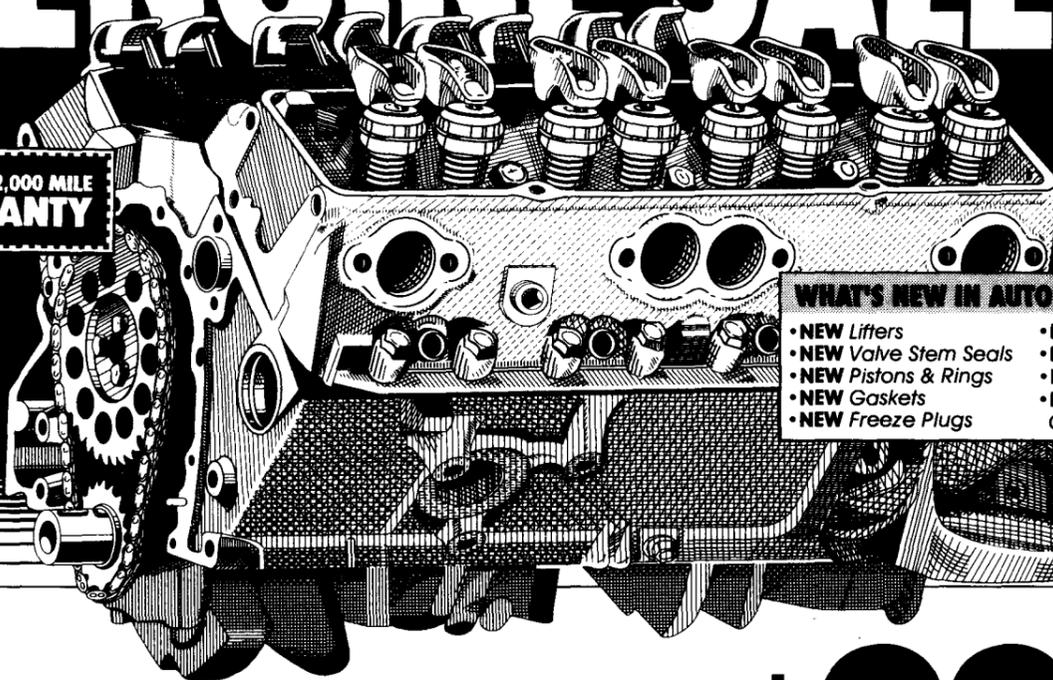
CLASSES BEGIN DECEMBER 4TH!

MON.-WED. CLASSES				TIME	BLDG	CREDIT	MON.-WED. CLASSES				TIME	BLDG	CREDIT
BUS 150	BUSINESS MATH	8:30	3650	5	HIS 202	US HIS II	4:30	3650	5				
CIS 146	MICRO APPL	8:30	3222	5	MTH 090	BASIC MATH	4:30	3650	5				
ENG 090	BASIC WRITING	8:30	3650	5	MTH 093	DEV ALGEBRA III	4:30	3650	5				
MTH 091	DEV ALGEBRA I	8:30	3650	5	MTH 101	MATH INSIGHTS	4:30	3650	5				
BUS 276	PERSONNEL MGMT	11:00	3650	5	ORI 100	ORIENTATION	4:30	3650	1				
CIS 180	INTRO CIS	11:00	3222	5	PSY 200	GEN PSY	4:30	3650	5				
ENG 101	ENGLISH COMP I	11:00	3650	5	BUS 243	ACCOUNTING II	7:00	3650	5				
MTH 092	DEV ALGEBRA II	11:00	3650	5	BUS 275	PRIN MANAGEMENT	7:00	3650	5				
POL 211	AMER GOVT	11:00	3650	5	CIS 180	INTRO CIS	7:00	3222	5				
HIS 101	WEST CIV I	1:30	3650	5	CRJ 216	POLICE ORG/ADM	7:00	3656	5				
MUS 101	MUSIC APPREC	1:30	3650	5	ECO 231	ECONOMICS I	7:00	3650	5				
BUS 243	ACCOUNTING I	4:30	3650	5	ENG 101	ENGLISH COMP I	7:00	3650	5				
CIS 211	BASIC	4:30	3222	5	ENG 102	ENGLISH COMP II	7:00	3650	5				
ECO 232	ECONOMICS II	4:30	3218	5	MTH 092	DEV ALGEBRA II	7:00	3650	5				
ENG 090	BASIC WRITING	4:30	3650	5	MTH 110	COLLEGE ALGEBRA	7:00	3650	5				
ENG 101	ENGLISH COMP I	4:30	3650	5	ORI 100	ORIENTATION	7:00	3650	1				
ENG 261	ENGLISH LIT I	4:30	3650	5	SOC 210	SOCIAL PROBLEMS	7:00	3650	5				

TUE.-THU. CLASSES				TIME	BLDG	CREDIT	TUE.-THU. CLASSES				TIME	BLDG	CREDIT
BUS 243	ACCOUNTING I	8:30	3650	5	MTH 109	INT COLLEGE ALGEBRA	4:30	3650	5				
MTH 110	COLLEGE ALGEBRA	8:30	3650	5	MTH 110	COLLEGE ALGEBRA	4:30	3650	5				
SPH 107	PUBLIC SPEAKING	8:30	3650	5	ORI 100	ORIENTATION	4:30	3650	1				
BUS 244	ACCOUNTING II	11:00	3650	5	PHS 120	ENVIRON SCIENCE	4:30	3650	5				
ENG 102	ENGLISH COMP II	11:00	3650	5	POL 220	STATE/LOCAL GOVT	4:30	3218	5				
PSY 200	GEN PSY	11:00	3650	5	RDG 085	DEV READING	4:30	3650	5				
ECO 232	ECONOMICS II	1:30	3650	5	SOC 247	MARRIAGE/FAMILY	4:30	3650	5				
ENG 251	AMERICAN LIT I	1:30	3650	5	SPH 107	PUBLIC SPEAKING	4:30	3650	5				
MTH 090	BASIC MATH	1:30	3650	5	BUS 261	BUSINESS LAW I	7:00	3650	5				
PHS 120	ENVIRON SCIENCE	1:30	3650	5	ECO 232	ECONOMICS II	7:00	3650	5				
BUS 262	BUSINESS LAW II	4:30	3650	5	ENG 090	BASIC WRITING	7:00	3650	5				
ECO 251	ECONOMICS I	4:30	3650	5	ENG 102	ENGLISH COMP II	7:00	3650	5				
ENG 101	ENGLISH COMP I	4:30	3650	5	MTH 093	DEV ALGEBRA III	7:00	3650	5				
ENG 102	ENGLISH COMP II	4:30	3650	5	ORI 100	ORIENTATION	7:00	3650	1				
HIS 101	WEST CIV I	4:30	3650	5	PHS 120	ENVIRON SCIENCE	7:00	3650	5				
MTH 091	DEV ALGEBRA I	4:30	3650	5	SPH 107	PUBLIC SPEAKING	7:00	3650	5				

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Commentary: Managers should practice what they preach for total quality

Editor's note: October is National Quality Month. Bolden, a management analyst with AMC Management Engineering Activity, provided the following thoughts on Total Quality Management.

BY RODERICK BOLDEN

In a time when Total Quality Management has become the new model toward organizational efficiency, some managers have become more preoccupied with the letter of TQM than the spirit of TQM.

TQM the concept is more than a culmination of 14 points, but rather a total change in perceptions of management by workers as well as perceptions of workers by management. As a result of this trend within TQM application, the letter, and not the spirit, conceptual implementation has become the order of the day and inextricably woven in the fabric of processes now being qualitatively evaluated throughout government.

Conceptual implementation is the process by which some managers have sought not to familiarize themselves with technical aspects what "actually" goes on within their various agencies/functional areas, while emphasizing what is "supposed to be" going on within those areas. By engaging in such a practice, managers are essentially rejecting TQM by establishing qualitative parameters at a concept level rather than at a level directly related to work being accomplished. TQM, as extrapolated from Deming's 14 points, is a bottom-up concept, breaking down an organizational area into functional levels while infusing considerations for quality throughout every level. Quality, within such concept, is only axiomatic to those considerations built into the procedure/process at suborganizational levels.

Basically, TQM implementation at the functional level should proceed with the following steps:

- Identification of actual functions being performed
- Grouping of functions by product/output generated
- Identification of problem areas for each type of final product/output generated
- Determination of optimal way to generate each product/output

Implementation of Total Quality Management, in order to be effective, needs to be more in accord with practice than concept.

- And determination of applications for each final product/output generated.

In the identification of actual functions being performed, managers in conjunction with workers should develop as comprehensive an understanding as possible of all functions being performed, as well as steps involved in performing a given function. Through such an exercise one can ascertain the totality of all functions being performed within a given area as well as grasp complexities inherent in any or all aspects of that function.

Grouping of functions by product/output generated entails evaluating all functions on a product/output by product/output basis. From such an evaluation one should be able to differentiate one function or grouping of functions from other functions or grouping of functions via type of product/output generated.

Following grouping of functions, determinations to identify problem areas associated with generating a given product/output can be made. In identifying problem areas, consideration should also be given as to the nature and scope of all problem areas identified. Problem areas are usually inherent or systemic in nature. Problem areas inherent to a function are usually directly attributable to mandated regulation or delegation authority. Systemic problem areas are ancillary to specific mandated regulation/delegation authority but only to the extent of organizational structure under which a function is performed.

Determination of the most optimal way to generate a given final product involves evaluating all methodologies employed within an agency generating each final product/output. In beginning such an evaluation, one should establish criteria of which to analyze all methodologies under consideration. Using such criteria, one can more objectively evaluate pros and cons of each methodology.

Application determinations for final products/outputs generated from a given agency should be within the scope of what each output is designed to accomplish. Each output should be distinct from others in terms of potential results.

Total Quality Management could totally revolutionize the way we go about doing business within the government. However, it's true impact can never be realized as long as implementation is on such a conceptual level. Implementation of TQM, in order to be effective, needs to be more in accord with practice than concept. Such implementation efforts appear in spirit to have read Mr. Deming's lips while not hearing what he said.

BEST BUY IN HUNTSVILLE

Reduced for quick sale, 4 bedrooms, 3 full baths, approx. 2163 sq. ft., convenient to arsenal, professionally decorated, a must see. Call now to save thousands before we list with agent, only \$96,000. **Call 830-0852.**

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DECEMBER 1991

COURSE SCHEDULE

NATIONAL FOUNDATION FOR CANCER RESEARCH

The Answer To Cancer Begins With You.

The answer to cancer lies in basic research. Developing successful approaches to prevention, diagnosis and treatment requires expert research in every field of science. NFCR has sponsored over 100 research projects in the United States and around the world. Our team of researchers is led by a former U.S. Army Surgeon General and has included seven Nobel Laureates.

Cancer is a ruthless enemy. It attacks men, women and children, the young and the old. It causes great pain and suffering. To solve the tragedy of this disease, we need your help. Please designate your contribution to #0251 in your CFC brochure. The answer to cancer begins with you.



ICA

#0251

7315 WISCONSIN AVE., SUITE 500W, BETHESDA, MD 20814

UAH PROFESSIONAL DEVELOPMENT Science & Engineering Announces:

How to Plan, Estimate & Schedule Maintenance

DECEMBER 4 & 5 ♦ 8 A.M.-5 P.M. ♦ \$615

This how-to-do-it course will guide you step-by-step through effective maintenance planning, scheduling, and control systems; what the job of the maintenance planner should be; how an efficient system can lead to substantial cost savings; how to use the computer for a more efficient operation; and more!

These are proven methods you can use immediately. Methods will be presented that are designed to help you establish a control center, develop labor estimates, coordinate materials, design and implement schedules, reduce budgets, and develop a follow-up and audit program. Plus, as a special feature this course includes four workshops that give you a chance to apply these planning and scheduling techniques to your own work situation.

Team discounts available for three or more from the same company, and special registration discounts if you register before November 8, 1991.

Course No. PD 3137-02 ♦ Instructor: August Kallmeyer

NONDESTRUCTIVE TESTING SERIES

Visual Weld Inspection NEW!

DECEMBER 2-6 ♦ 8 A.M.-5 P.M. ♦ \$850

This one-week course will cover the principles, techniques, and applications of visual weld inspection. It is designed for inspectors, engineers, architects, and personnel interested in the nondestructive inspection of welds.

Course No. PD 3149-01 ♦ Instructor: Ron Wappel

Radiography-Film Interpretation

DECEMBER 9-13 ♦ 8 A.M.-5 P.M. ♦ \$850

This intensive one-week course focuses on the interpretation of weldments and castings. Emphasis is placed on the radiographic quality requirements of commonly used codes, standards, and specifications. The course is practical in nature and participants will have the opportunity to evaluate a wide range of discontinuities found in radiographic inspection. This course is designed for engineers, auditors, managers, or Level II radiographers.

Course No. PD 3133-02 ♦ Instructor: Ron Wappel



The University Of Alabama In Huntsville
Division of Continuing Education ■ Professional Development

An Affirmative Action/Equal Opportunity Institution

SatoTravel offers fall discounts for government people

ARLINGTON, Va. — Fall discounts for military and government personnel and their families are now available at SatoTravel, a full-service travel company based in Arlington, Va.

The company's new "Autumn Leaves" program features special fall savings from 14 major tour, cruise, hotel and car rental suppliers. The promotion is intended to benefit SatoTravel customers while spurring sales during a traditionally slow travel season.

"Because of our size and our close relationship with many travel suppliers, we have access to a large number of specials," said SatoTravel Marketing Services Manager Daniela Perez. "This is especially true during the typically slow fall season which is now compounded by a sluggish economy."

Participating tour companies include Sandals couples-only, all-inclusive luxury resorts in Jamaica and Antigua; Trafalgar Tours to Europe, Britain and Russia; Contiki tours to Europe for 18-35 year olds; and Princess Tours in Alaska and Canada.

Cruise discounts are available through Commodore Cruise Line, Costa Cruises, Dolphin Cruise Line, Royal Caribbean Cruise Line, Premier Cruises and Princess Cruises. Participating hotels include Choice Hotels International and Holiday Inns Worldwide. Rental car companies include Alamo Rent A Car, Budget Rent A Car and National Car Rental.

"Since SatoTravel is the leader in military and government travel," said Perez, "suppliers recognize us as an important distribution channel to the military

and government — a segment of the population not as severely affected by the current recession."

The Autumn Leaves program brings military and government travelers an awareness of hard-to-find travel opportunities, Perez said. "It minimizes the shopping time in looking for a vacation, and assists them in stretching their vacation travel dollar."

Reservations, information and Autumn Leaves brochures are available at more than 550 SatoTravel locations in the United States and the Caribbean. SatoTravel, an airline-owned company, has provided official and leisure travel services to the U.S. military and government for nearly 40 years. The Redstone SatoTravel location is building 112, room 201; phone 881-8626. (Adapted from a SatoTravel news release)

COLUMBIA COLLEGE

SESSION V
Oct. 21-Dec. 14



Redstone Arsenal Extension
Phone: 881-6181 Building 3222

1991 CLASS SCHEDULE

MONDAY / WEDNESDAY 5:00 p.m.-7:30 p.m.

COURSE #	TITLE	PREREQ.	INSTR.
CIS 180	Programming Methodology	CIS 170	Geveden
ENG 104*	Developmental English	None	Yates
FIN/ECON 395	Money and Banking	ECON 293/4	Smalley

* Tuition Free Class

MONDAY / WEDNESDAY 7:30 p.m.-10:00 p.m.

COURSE #	TITLE	PREREQ.	INSTR.
ENG 111	English Composition I	None	Yates
FIN 397	Principles of Real Estate	None	Lahiere
MKT 310	Principles of Marketing	None	Smalley
SOC 331	Juvenile Delinquency	None	Bill

TUESDAY / THURSDAY 5:00 p.m.-7:30 p.m.

COURSE #	TITLE	PREREQ.	INSTR.
ACC 281	Principles of Accounting II	ACC 280	Jacobs
ENG 112	English Composition II	ENG 111	Starkey
ENG 433	Moral Judgment in American Literature	ENG 111/2	Larsen
GOVT/MGT 311	Public Administration & Policy	Jr. Standing	Thomas

TUESDAY / THURSDAY 7:30 p.m.-10:00 p.m.

COURSE #	TITLE	PREREQ.	INSTR.
CIS 170	Introduction to Computer Information Systems	None	Thomas
CIS 310	Electronic Communications Systems	CIS 170	Marshall
CJ 311	Police	CJ101	Moon
MGT 310	Organizational Design	MGT 330	Foster

GENERAL INFORMATION — 1991

Academic Calendar - Session V October 21-December 14
 Registration Begins September 23
 Classes Begin October 21
 Late Registration Ends October 25
 Tuition Assistance Form Deadline October 25
Last Day To Drop November 1
 Classes End December 14

Classes are opened to ACTIVE DUTY MILITARY, THEIR DEPENDENTS AND CIVILIANS employed on Redstone Arsenal. The Columbia College office is located in Bldg. 3222, Army Education Center (South Entrance). OFFICE HOURS: 8:30-4:30, Monday-Friday. PH: 881-6181 and 876-4851. COUNSELING AND REGISTRATION ARE AVAILABLE ON A WALK-IN BASIS. Mrs. Mary F. Morgan, Director and Cafe Mayweather, Admin. Assistant are on duty during regular office hours to help you.

English 104 (Developmental English) is a tuition free course and students receive three elective semester hours credit for taking and passing the course. Admission is on a first come first serve basis. Complete Bachelors (four-year) and Associate (two-year) degree programs are offered on Redstone Arsenal as follows.

- Bachelors in Science:**
- Computer Information Systems
 - Business Administration
- Bachelors in Arts:**
- Business Administration
- Bachelors in:**
- Criminal Justice Admin.
 - Individual Studies

- Associates in:**
- General Studies
 - Computer Information Systems
 - Business Management
 - Criminal Justice

**PUT A LITTLE CLASS
IN YOUR NIGHT LIFE!**



Announcements

Preretirement orientation

The next scheduled preretirement orientation for *military* personnel with more than 18 years of active federal service will be held 8-noon Oct. 25 in the Post Theater, building 3712. Spouses are encouraged to attend. The preretirement orientation is mandatory for military personnel in their 18th year of service and every third year thereafter until retirement. For more information, call Phillip Frederich 876-2022/4668.

Government accountants

North Alabama Chapter for Association of Government Accountants (AGA) will have its monthly meeting Thursday at the Huntsville Hilton. Social time begins at 5:30 p.m., and the program at 6:15. Scheduled speaker is William F. Malec, senior vice president and chief financial officer for the Tennessee Valley Authority. For reservations, call Terry Rains 955-5894 or any reservation member.

Post Theater movies

Thursday — *Jungle Fever*, rated R, 132 minutes. Friday — *Bingo*, PG, 87 minutes. Saturday — *Double Impact*, R, 104 minutes. Sunday — *Double Impact*. Tuesday — *Return to the Blue Lagoon*, PG-13, 103 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

Surplus sale

A local spot bid sale of government surplus property will be held Oct. 22 in the Defense Reutilization & Marketing Sale building 7427 on Warehouse Road. Registration starts at 7:45 a.m. and the sale begins at 8:45. Some of the items for sale include typewriters, electric motors, desks, chairs, bedding, drill press, air conditioners, pager units, books, televisions, bicycles, refrigerators and data processing equipment. The items may be inspected from 8 a.m. to 3 p.m. Oct. 17, 18 and 21, and from 7:45-8:45 on sale day. A list of items for sale and additional information will be available during the inspection period in building 7406.

Retiree dental exams

The Redstone Arsenal Dental Activity will sponsor a special Saturday Examination Clinic for the benefit of military retirees and their family members Nov. 2 at the Main Dental Clinic. Examinations, X-rays and cleanings will be offered on an appointment basis. The purpose of this clinic is to provide additional access to the dental care system for retirees. Appointments can be made by calling 842-0139 from 8 a.m. through 3:30 p.m. beginning Oct. 16.

Multicrafts

Here's the Multicrafts Center schedule for the remainder of the month. Today, *Rectangular mat cutting workshop*, 5 p.m.; Oct. 17, *Oval mat cutting workshop*, 5:30 p.m.; *Sweatshirt applique and decorating*, 6:30 p.m.; Oct. 19, *Halloween pumpkin decorating (youth)*, 10:30 a.m.; *Christmas sweatshirt project*, 10:30 a.m.; Oct. 22, 23, *Picture frame workshop*, 6 p.m.; Oct. 22, *Youth T-shirt and tennis shoes decorating*, 4:30 p.m.; Oct. 23, *Glass etching workshop*, 6:30 p.m.; Oct. 24, *Oval mat workshop*, 6:30 p.m.; *Quickie costume jewelry workshop*, 6:30 p.m.; Oct. 26, 29, 30, *Needleart framing and matting class*, 10 a.m.; Oct. 26, *Pumpkin decorating (youth)*, 10:30 a.m.; Oct. 29, *Finale — youth pumpkin decorating*, 4:30 p.m. The center is open to all active duty and retired military members, government civilian workers, family members and guests. For more information visit the center in building 3615 at the corner of Gray Road and Vincent Drive or call 876-7951.

Education committee

The Education Committee will meet at 7 tonight at Army Community Service, building 3491. All committee members and other interested persons are encouraged to attend. For more information call Dr. William Resha, ACS chief, 876-9289/5397.

Contract managers

Huntsville Chapter, National Contract Management Association (NCMA) will meet Oct. 22 at the Holiday Inn, Madison Square. Social begins at 5:30 p.m., with dinner at 6. Cost of the dinner is \$12. Scheduled speaker is Gilbert Ginsberg, former law professor and director of the Government Contracts program at George Washington University; he is now a partner in the firm of Epstein Becker & Green. Reservations are required; call 536-1527.

Toastmasters

Tennessee Valley Toastmaster Club, Toastmasters International, will meet at 6:30 p.m. Thursday at Shoney's Restaurant, 3301 Memorial Parkway southwest. "Come early and join us for dinner and conversation before the meeting." Meetings are held the first and third Thursday of each month. For more information, call Anne Hughes 881-8707.

Motorcycle safety course

The next motorcycle safety class will be held from 8 a.m. to 2:30 p.m. Saturday in building 3222, Snooper Road. To reserve a space, civilians are required to prepay \$15, and military personnel must show their ID. To register for the course, call 876-3084 or stop by building 3324 (MOS Library). All trainees for Saturday's course must register by 4 p.m. Thursday. Should the weather be inclement, the classroom portion will still be given and the range rescheduled.

TQM classes

Missile Command managers and Total Quality Management cadre members are presenting 46 concurrent training sessions on TQM related subjects today and Thursday at the Von Braun Civic Center. These training sessions are part of the first Quality Forum and Exposition sponsored by MICOM, the American Society of Quality Control, Marshall Space Flight Center, the city of Huntsville, and local industry. Course descriptions are included in the World Class Quality Brochure which was distributed to employees. Anyone who did not receive a brochure may obtain one from the TQM contact in their organization or by calling TQM Training 876-9246.

Haunted house

Boy Scout Troop 308, in conjunction with Youth Services, will present a "Haunted House" from 6-9 p.m. Oct. 30 and 31 at the Youth Center, building 3148. Admission is \$1.

NCO Wives picnic

The Redstone Arsenal NCO Wives Club will have a family picnic at Vincent Park on Sunday, Oct. 20 at 2 p.m. Any NCO wife and family who would like to join us is welcome to attend. You must call for reservations; call 828-6885 or 830-6531.

Post basketball teams

The men's post basketball team and women's post basketball team both are in need of players and coaches. Tryouts, for active-duty military only, will begin Oct. 23 at 6:30 p.m. at Pagano Gym. For more information call Joe Reed, assistant sports director, 876-7969.

Wellness center

Aerobics classes are forming now; free to Civilian Wellness Center members. Classes will be held Mondays, Wednesdays and Thursdays at 4:30 and 5:30 p.m. at the old post gym (building 5663), starting Nov. 4. To sign up, call the Civilian Wellness Center 955-6844.

Walking club

"Fall" into fitness with the "Wellness Walkers" walking club. Let the Civilian Wellness Center's exercise physiologists help you start a walking program to keep you fit for life. The walking club will meet Mondays, Wednesdays and Thursdays at 11 a.m. at the Civilian Wellness Center, beginning Oct. 28. Call 955-6844 to sign up.



Physical fitness test

Soldiers assigned or attached to HHC MICOM will be administered the Army Physical Fitness Test during October. Test location will be Tin City Field House on Field 15. Dates and times are as follows: Oct. 21, 23 and 25 at 6 a.m. Soldiers unable to test during this period due to operational commitments, authorized absence, or emergencies should contact HHC MICOM to arrange for an alternate test date. For more information, call Capt. Upshaw 842-7090 or SSgt. Edmiston 842-2625.

MICOM hail/farewell

All military and civilian employees are encouraged to attend the next MICOM Hail & Farewell which is set for 4-6 p.m. Oct. 22 at the Officers Club. Hors d'oeuvres will be served. A cash bar(s) will be available. Honorees will include all military officers and civilian employees GS/GM-13 and above who have joined the Missile Command since the last Hail & Farewell which was held July 23; the event is also to bid farewell to those departing. "Please note that all military and civilian employees regardless of grade or rank are encouraged to attend." Dress will be duty uniform for military and normal duty attire for civilians. For more information, call 876-7218.

Education center

Study guides for the Electronic Technician Certification (ETA) examination are available at the Education Center for individuals — active duty personnel, retired military, Defense Department civilians and family members — who are working in the electronic/communications field. For information about the ETA examination procedures and test date, call Tressie Stout 876-0080 or Jan Rosenberg 876-9762.

Blacks in Government

The Huntsville/Madison County Chapter of Blacks in Government invites you to a "Blast from the Past" disco and fish fry with music from the '60s and '70s. There will be a dance contest with prizes. The event will be held Saturday from 8 p.m. until, at the House of Alpha, 4301 Oakwood Ave. Admission according to height; "five cents per inch." For more information, call George Chavis 882-9076.

Women accountants

Huntsville Chapter of the American Society of Women Accountants will have its monthly dinner meeting at 6 p.m. Oct. 21 at the Holiday Inn, Madison Square Mall. Bill Newton from the City of Huntsville is to speak on "City Issues, City Finances." Women in all areas of accounting, including industry, government and education, are invited to attend. For more information, call Chris Sperry 837-6265.

Young adults group

Young Adults for a Better World will have its next meeting 6-7 p.m. Oct. 22 at the Huntsville Public Library Auditorium, 915 Monroe St. "Young Adults for a Better World is a community service organization committed to uplifting our community (Huntsville and surrounding area) by rendering services to schools, colleges, universities, and neighborhoods. Please come out and see what you can do."



Jac or Jack-o-lantern

What will be in that gorgeous black and gold van to be parked in the Post Exchange parking lot next Monday, Oct. 21? It really does contain a TREAT, but something much better than a Halloween treat. Come see firsthand what the Army is doing for soldiers, civilians, and family members to provide transition and job assistance for the Army family. This modified 18-wheeler will host an open house from 9 a.m. to 5 p.m. Oct. 21 and everyone is invited. Come on out and discover how the Army Career and Alumni Program (ACAP) Job Assistance Center (JAC) can help you and your family be all you can be in the civilian world when you leave federal service. It could be spooky if you aren't prepared, but help is available through the ACAP program. For more information, call the Redstone Arsenal ACAP office 955-6490.



Carpool Hotline

Call 876-1500 to place your free carpool ad.

Madison

Ride wanted from the Wall-Triana/Highway 72 vicinity in Madison to 5435/5400 area, hours flexible. Mike Zander 876-8355 or 837-8812 (home).

classifieds

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

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

FINDING OF NO SIGNIFICANT IMPACT FOR THE DHN J. SPARKMAN CENTER FOR MISSILE EXCELLENCE REDSTONE ARSENAL, AL

1. Proposed Action

The proposed action consists of the construction of an office complex of about 543,500 gross square feet on Redstone Arsenal, AL. Additional features of the project include the construction of: access roads, parking lot, walkways, surface-water drainage ways and landscaping. The building(s) would be designed and constructed using industry standard materials and practices and with landscaping consistent with and complimentary to the installation.

Utility service would be provided by connection with existing utilities and would require the construction of a sewage line of approximately 6,000 feet in length. The line would follow the route of an existing line or follow along Patton Road right-of-way north to a point and then easterly to connect to an existing sewage treatment plant located on the arsenal.

2. Alternatives to the Proposed Action

Two basic alternatives were considered: "No Action" and the selection of an alternative site for the facility.

The "No Action" would not provide means to satisfy the requirement for a modern, energy efficient facility, with a consolidated work force so that the needed efficiency of operations for ongoing research programs would be achieved. In addition, the non-consolidation of the work force would not provide protection against possible major conflict between hazardous and non-hazardous operations.

The investigation for alternative facility sites did not locate a site on the arsenal that would be an improvement over the proposed site. A location could not be found that better suited the purposes for the facility construction or would result in lesser adverse environmental impacts.

3. Summary of Environmental Impacts of the Proposed Action

The proposed action would cause some minor environmental impacts that result from both the construction and operation of the facility. The impacts related to the construction of the facility would be temporary in nature and are expected to be typical for this type of construction. Sewage line construction impacts may have some impact on wetlands but the impacts are expected to be minor and essentially temporary nature. Some secondary impacts related to traffic are expected to occur as a result of facility operation. The noise level and air emissions due to traffic are expected to be somewhat increased but localized in nature. Surface water runoff from the site would also be slightly increased and ground percolation correspondingly decreased. A slight degradation in water quality is expected due to runoff from roadways and parking areas. All impacts have been found to be of an insignificant nature with no lasting or serious consequences.

4. Factors Considered in the Determination That No Environmental Impact Statement is Required

The Environmental Assessment (EA) prepared for this action identifies and addresses the areas of potential environmental impact that would result if the proposed action were implemented. The EA finds no significant impact related to the construction nor operation of the proposed facility. The proposed action was found to be in compliance with environmental laws, regulations and policies.

5. Conclusion

The EA for the proposed construction and operation of a facility, to be named the John J. Sparkman Center for Missile Excellence, which describes the effects of the proposed action shows that no significant impacts would result from the action. It is, therefore, concluded that the preparation of an Environmental Impact Statement is not required.

The EA and supporting documents may be reviewed at the MICOM Environmental Office, Building 7613, Room 206. Inquiries regarding this project may be addressed to Mr. David S. Branham, MICOM Environmental Officers, 876-3516, Mr. H. Sam Fields, Chief, Master Planning and Construction Office, 876-4572, or Mr. David G. Harris, MICOM Public Affairs Officers, 876-4161. All comments relative to this action must be received within 30 days from the date of this notice.

YARD SALE: Clothing, kids' size 0-6, adult 10-16, some men's items; Booster seat, child carrier for bike, shoes, toys, and numerous other items. October 20th, 1386-B Lance Court.

FOR SALE: Toy Poodle/Terrier mix. White male, 3 years, all shots, loving disposition (abused, needs lots of TLC), \$25. Tortoise-shell long-haired female cat, 3 years, all shots, feline leukemia tested, spayed and declawed, spent \$150, sell for \$50. 881-6681 or 882-3930.

FOR SALE: 1984 Pontiac Sunbird. Blue, 2 door hatchback, 80,000 miles, air, automatic, am/fm cassette, power steering and brakes, clean, well-maintained, security system. \$2000 firm. 881-6681 or 882-3930.

FOR SALE: Four year old, neutered, male Weimaraner. Needs good home with a big yard. Call (205) 498-3462 evenings or weekends.

FOR SALE: Kawasaki ZN1300 Voyager. 6 cylinder, black/burgandy, 4K miles, barely broke in, beautiful, 880-0924. \$4500.

FOR SALE: Two Pioneer speakers, 5 ways, 150 watts, \$50 each. 1 Kalcraft stroller, \$20. 721-0563.

FOR SALE: 1/2 carat Marquise shape diamond engagement ring. Wedding band available also. Will show in Huntsville. (205) 574-3443, Scottsboro, after 5 p.m.

FOR SALE: 320 pounds vinyl clad weights, bench with attachments, and assorted bars, \$250. Nintendo Home Entertainment System, complete with 3 games, \$150. Call 881-3739 after 5 p.m.

FOR SALE: 13" color tv with remote, Emerson, \$80; 12" black and white tv, \$20; Cabinet/stack stereo, Sansul, features turntable, cassette and am/fm stereo, \$175. All in excellent condition. Call Michael or Lori at 533-9716.

FOR SALE: 1979 Toyota Celica Supra. 6 cylinder, air conditioner, tilt, cruise, am/fm cassette, power windows and steering, 4 wheel disc brakes, sunroof, factory aluminum wheels, new tires, factory tach., locking lugs and lavers. \$1750 or best offer. 837-7240.

FOR SALE: 1955 Chevy Belair. 4 door, excellent condition, completely rebuilt. Let's make a deal. Call Jim after 6 p.m. at 880-1649.

FOR SALE: 1990 Jeep Cherokee Laredo. Black, 4 wheel drive, loaded, automatic, 19,200 miles, \$17,500. Call 882-1839 after 5 p.m.

WANTED: 2400 bps Hayes compatible internal modem, small inexpensive microwave in good condition, IBM XT compatible keyboard, lamps. Call 883-5564 after 4:15 p.m. Monday thru Friday, or anytime weekends.

FREE TO GOOD HOME: Two beautiful kittens, 5 months old, one male, one female. Call 881-2060, leave message anytime.

FOR SALE: Nonnco AK47, .223 caliber, new in box, includes 3 clips, sling, bayonet, 100 rounds, \$450 firm. 883-1510.

FOR SALE: Bedroom set. Includes full size Soma waterbed (cylinders) in new condition. Wooden headboard with matching dresser and mirror. Both for \$500, or will sell separately. 883-1510.

FOR SALE: Oriental rug. Rumanian hand made hall runner, approximately 9.5x30". Floral pattern with medium blue and cream as primary colors. Paid \$400, asking \$300 firm. 883-1510.

FOR SALE: 12" black and white Zenith tv, \$40; 6"x9" 3-way 120W Pioneer car stereo speakers, \$80; Olds Ambassador brass trumpet, \$110; Kenwood model PB-2 NiCd rechargeable battery for the TH-215A, 315A ham radio transceivers, \$28; Hayes external 300bps modem, \$28; Universal parallel interface card for the Apple series, \$70. Call 883-5564 after 4:15 p.m. Monday thru Friday, or anytime weekends.

WANTED: IBM XT compatible keyboard, 883-5564.

FOR SALE: Gerald refrigerator, great for college student or to store extra beverages. 1 year of use, excellent condition, \$95. 883-5564.

FOR SALE: Olds Ambassador brass trumpet, good condition, \$110. 883-5564.

FOR SALE: 1975 Grand Fury. Runs great, very good transportation. Only \$650. Call after 5 p.m. 851-7193.

FOR SALE: Hayes external 300bps modem, \$28. 883-5564.

FOR SALE: Universal parallel interface card for the Apple series, \$70. Call 883-5564.

ANTIQUES FOR SALE: Duncan Phyfe drop leaf table with four chairs, \$110; Side by side Victrola, \$85; Old floor radio, \$40; Mission oak style library table, \$75; 1920's National metal cash register, \$50; Oak pedal sewing machine, \$75. 922-1407.

FOR SALE: 1990 18' Vision Fish-n-Ski boat. 175 Mariner motor, drive-on trailer, fully loaded, will take payoff of approximately \$12,000. Call (615) 565-3171 after 4:30 p.m.

FOR SALE: 1978 Buick LeSabre. Excellent mechanical condition. \$1000. 830-2891.

WANTED: World War II German militaria wanted. Such as daggers, swords, medals, decorations, uniforms, etc. Finder's fee considered. Call Jerry at 830-0950.

FOR SALE: Glass dinette set with 4 chairs. Glass is smoked color, 4 feet long, and chrome legs. Chairs are brown, good in size, with chrome trim also. Must sell. \$100. Call 830-4771, leave message if no answer.

FOR SALE: 1985 Pontiac Bonneville. 305 engine, air conditioning, tilt steering, am/fm radio. 45K actual miles. Excellent condition, asking \$4500. 828-3196 after 5 p.m.

SALE BY OWNER

Arab. 3 bedroom, large den, 1 1/2 baths, kitchen/dining combo, study, utility room, large wooded lot, central heat and air plus woodburning stove and ceiling fans. \$40,000. (205) 586-5059.

FOR SALE: 1978 31' Airstream Sovereign International travel trailer. Air conditioned, canopy, many other extra features. (205) 859-3267.

FOR SALE: 19 inch Sony color tv, remote, on screen display, channel block, \$110. 721-0563.

FOR SALE: 1990 Nissan truck. 5 speed, am/fm stereo cassette, equipped to tow, midsize blue, 18K miles, SE package. Asking \$8200. Call 881-7967 after 5 p.m.

FOR SALE: 1987 Kawasaki 454 LTD motorcycle. Belt drive, air cooled, 10,000 original miles. In excellent condition, includes saddle bags, 2 helmets, wet weather suit and cold weather suit. \$1300. Call 534-3978.

FOR SALE: 1979 Mercedes 300SD. Beige, excellent condition, climate control, power sun roof, power steering and brakes, power windows, automatic. Mileage for city 23-25 mpg, highway 24-28 mpg. \$8450. 883-4323.

FOR SALE: 1973 Ford pickup. 360 engine, 3 speed, runs and looks good, good tires, needs very little work, \$1000. 776-4523.

FOR SALE: 1989 14' Fisher flat bottom, 18" deep, 56" wide with galvanized tilt trailer, \$450. 776-4523.

FOR SALE: 14' fiberglass tri-hull boat, deep and wide with tilt trailer, \$250. 776-4523.

FOR SALE: GE dishwasher, like new, \$250. 776-4523.

FOR SALE: Mixed grass hay, from barn, \$1.75 per bale. 498-3240 after 6 p.m.

FOUND: Male Datchshund dog on Mills Road (RSA) September 24, 1991. Describe to claim. Call 882-0796 and leave message.

FOR SALE: 1967 Mustang. 289, automatic, air, excellent condition, appraised \$4250, sell \$3000. 10' step ladder, like new, \$30; Tektronix oscilloscope, \$65; Metal shelves, \$8. 533-6962.

FOR SALE: Complete engine. Ford 351 W, 2 bl. carb. with starter, alternator, power steering pump and air conditioner compressor, pulled from 1970 LTD with approximately 100,000 miles on odometer. First \$100 buys all. Call 881-1030 after 4 p.m.

FOR SALE: Kenwood Model PB-2 NiCd rechargeable battery for the TH-215A or 315A ham radio transceivers, \$28. 883-5564.

FOR SALE: Custom-made country curtains, 4 pairs with double ruffle. Call after 4:30 p.m., Athens 233-0365.

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In convenient Meridianville. 3 BR/2 BA contemporary ranch in 'like-new' condition. Cathedral ceiling, large eat-in kitchen, super family neighborhood make this a great buy at \$79,880. Call Lesha 880-5900 Ext. 119. RISE REAL ESTATE

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FOR SALE: Pioneer 6"x9" 3-way 120 watts car stereo speakers, 3 months of use, perfect condition, \$80. 883-5564.

FOR SALE: 12" black and white Zenith tv, \$40. Call 883-5564.

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HOW TO PLACE A REDSTONE ROCKET CLASSIFIED AD

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

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

To place a ROCKET CLASSIFIED ad:

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

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

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

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

FOR COMMERCIAL CLASSIFIED RATES CALL 539-3980.

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

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

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

Mail Rocket Classified ads to: Sara Grant & Associates, Attn: Redstone Rocket Classified, P.O. Box 5351, Huntsville, Alabama 35805.

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October 19th
Cluxton's Home Furnishings

- o Sleepers & Sectional
- o Desk & Chairs
- o Coffee, End & Sofa Tables
- o Complete Bedroom
- o Dinette Sets
- o Living Room

Quality Furniture At Lowest Prices

25¢ Hotdogs FREE PEPSI

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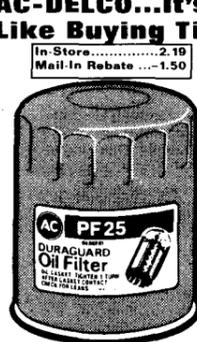
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EXXON Motor Oil
89¢ Qt.
10W30, 10W40, 5W30 or HD30. Limit 12 Qts.

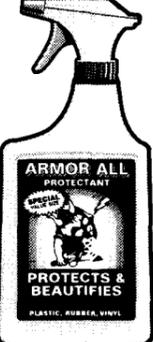
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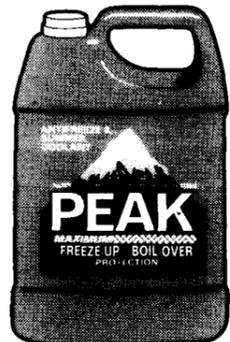
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Gallon size. Don't Stop Short of the PEAK!

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<p>Battery Charger 6/2 amp. 64-5118-1 21.99 150 Amp. Booster. 64-5203-1.....88.88</p>	<p>Brake Caliper Remanufactured for many cars. It. trucks. 16.99 UP TO 21.99 Sold with each. Store Stock Only.</p>	<p>Wheel Cylinders Available for many cars. It. trucks. 16.88</p>	<p>Semi-Met. Brake Pads 19.99 UP TO 30.99 TO Limited Lifetime Warr. Details in store.</p>	<p>Beer Warning Device Pair. Black or chrome. 22-9001.02 5.88</p>
<p>Acrylamb Seat Cover In silky or curly texture. 67-1201 ser. 7.77 Each Assorted Colors</p>	<p>2 1/4 Ton Floor Jack 360° swivel saddle. 15-6275-0 27.97</p>	<p>5 Gallon Air Tank Portable. Built in gauge. 15-6437-6 19.97</p>	<p>250 PSI Air Compressor 12V. 18 in. hose. Nozzle adapters. 15-6427-7 19.97</p>	<p>Fog/Driving Light Kit Hi-intensity, clear or amber. Pr. 22-6691.83 11.77</p>
<p>4 Pc. Floor Mat Set Carpeted or vinyl. 68-4030.6065 4.97</p>	<p>Beaded Cushion Massaging action. 68-5280-0 8.88</p>	<p>Halogen Work Light Sturdy diecast aluminum. 500 watt. 15-5010-2 19.97</p>	<p>CLEANRITE Shop Towel For home, shop. Hundreds of uses. Limit 4. 73-8116-3 39¢ Each</p>	<p>Western Auto Spray Paint Decorator colors & primers. 11 oz. can. 73-1795 ser. 99¢</p>
<p>GUMOUT Carb/Choke Cleaner For fuel system. Pour or Spray bottle. 78-6947.57 1.47 Year Choice</p>	<p>PRO CARE Fuel Injector Cleaner-12 oz. In-Store3.99 Mail-In Rebate...2.00 1.99 With Techron</p>	<p>GOOP Hand Cleaner 4 oz. size mini can. 78-6912-6 3.99 For</p>	<p>WESTLEY'S Clear Magic 22 oz. 73-1364-4 In-Store2.99 Rebate.....1.00 1.99 After Rebate</p>	<p>ZIP WAX Car Wash Shines as it cleans. 18 oz. 73-7152-9 1.97</p>
<p>WYNN'S Gas Treatment In-Store1.27 Mail-In Rebate...1.00 27¢ Net 11 oz. size bottle.</p>	<p>WESTLEY'S Clear Magic 22 oz. 73-1364-4 In-Store2.99 Rebate.....1.00 1.99 After Rebate</p>	<p>Puncture Seal 12 oz. can. 78-4537-3 69¢ With hose...1.49 78-4538-9</p>	<p>Built Tough By AC Delco 59.99 46.99 36.99 46.99 59.99 46.99</p>	

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