

Redstone Rocket

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Patriot project a proven performer in the field

Editor's note: Reports at presstime indicated Iraq was ready to withdraw what was left of its forces from Kuwait.

BY SKIP VAUGHN

If anything deserves to be called the hero so far in the Persian Gulf war, the Patriot missile system would certainly merit consideration.

Patriot has repeatedly engaged and defeated Scud missiles launched by Iraqi forces toward Saudi Arabia and Israel. President Bush, in a speech Feb. 15, praised the system for batting an almost perfect 41-for-42 in its engagements with Scuds.

But who deserves to be called the Home of the Patriot Missile? Who does Patriot belong to? "It belongs to PEO (program executive office) air defense," answers A.Q. Oldacre, the deputy project manager for Patriot. "It is a tactical missile defense program. Its development and procurement has been funded by the Army through PEO channels. It is supported by the Army Missile Command. And certainly, from that standpoint, it's a MICOM program as well because it is a fielded system and requires sustainment which means spare parts support, transportation, maintenance and all the functional support that go along with a fielded system."

Much of the credit for Patriot should go to the MICOM/Project Office team that did some of the original component development work, Oldacre says. "Certainly the contractor team of Raytheon and Martin Marietta deserves a lot of credit for the excellent R&D (research and development) that has resulted in the outstanding performance."

History of program

Patriot began in the early 1960s with a series of studies about the next generation of air defense. Those studies resulted in a concept called SAM-D (Surface to Air Missile Development) in 1965. Before that, concepts were called AADS-70 (Army Air Defense System for the '70s) and FABMDS (Field Army Ballistic Missile Defense System).

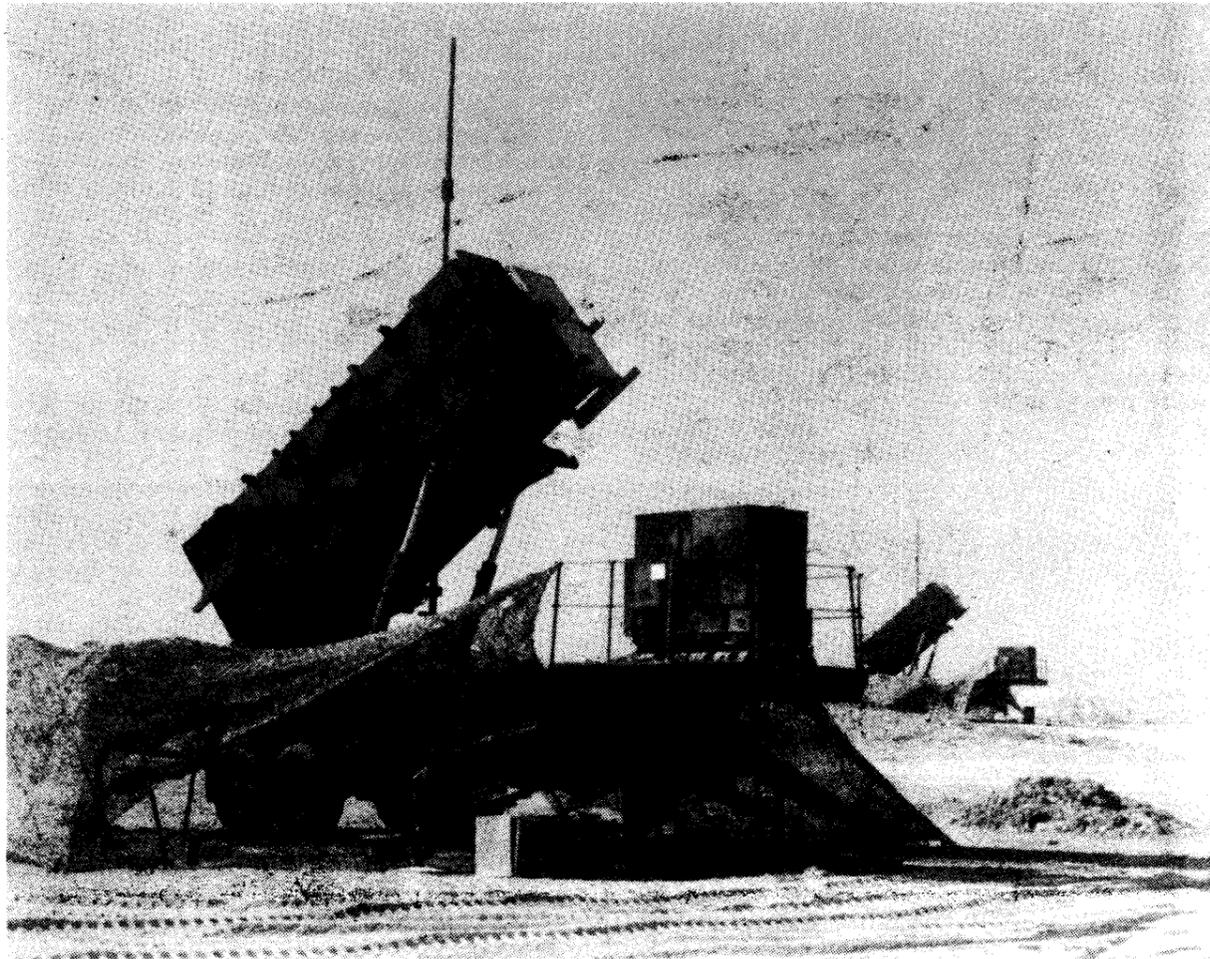
"Interestingly enough, that original concept was for a ballistic missile defense," Oldacre says. "It evolved into primarily an aircraft defense system as it went into full-scale development in the early '70s. That evolution has now gone full circle and we are performing both tactical ballistic missile defense as well as defense against air-breathing (aircraft) targets."

Times for Patriot haven't always been as good as they are now. A particular low point came about 1974 when the program was canceled. The project was forced to reconstruct and devise a low cost SAM-D program. "The program was completely restructured and the system was trimmed back drastically in order to make it more attractive to the budgeteers in Washington," Oldacre recalls. "We basically had to cut the program cost in half in order to survive that budget cycle and then we had to resell it to Office of Secretary of Defense."

The comeback came with the proof-of-principle test series in 1975-76 which erased any technical doubts about whether or not Patriot would work. "However, in the early production years we still had difficulties because of reliability problems, and it wasn't until those were overcome in the 1983 timeframe that Patriot really began to show its merits," Oldacre says. "The final test phases of the follow-on evaluation proved that Patriot not only technically worked but was an effective operational system that the troops could handle in the field."

System operation

Primary components of Patriot include the phased-array radar, the engagement control station, a prime power unit, and a group of launchers. Each launcher has four missiles. "This makes up a basic battery configuration. The batteries are netted together by a communications system that ties an entire battalion together at a command and control center which is called an information coordination central (ICC)," Oldacre says.



WATCHING THE SAUDI SKIES — Patriot air defense systems equipped with PAC-2 missiles are poised skyward in the Saudi Arabian desert.

A Patriot missile is about 17 and a half feet long, and weighs about 2,000 pounds. Its range is more than 43 miles.

The engagement process begins with a radar detection by the phased-array radar. Information is established on the track and a file is established in the computer. Various identification and classification processes are performed on that file. Depending on the results, an engagement decision is made by the computer and presented to the operator. If the operator has placed the system in an automatic engagement mode, the computer will select a launcher and a missile and then fire the missile. The missile is then acquired by the radar and, through a series of uplink commands, is guided to the vicinity of the target. As it approaches intercept, a terminal mode called track-via-missile is initiated. In this mode, the accurate semiactive homing guidance is carried out through com-

mands to the missile and an uplink, downlink to and from the radar. Fuzing is commanded through an uplink to an active onboard fuze, and a blast fragmentation warhead is detonated at an optimum point to kill the target.

Surprisingly, this entire sequence — from detection of a tactical ballistic missile through engagement — can take less than 30 seconds.

"The actual tactical operation is carried out by two people operating at a console inside the engagement control station; however, those people are linked through real-time communications to the battalion ICC where other operators are monitoring their operations. Of course there are many people supporting those technical control operators because you have to have a three-shift operation for around the clock operations, and you have to have support and maintenance per-

(See Patriot, cont'd on page 11)

Successful remote launch demonstrated

The U.S. Army Strategic Defense Command and the Patriot Project Office, in a cooperative effort, successfully proved the technical feasibility of the Patriot Remote Launch Concept in a recent test at White Sands Missile Range, N.M.

The mission demonstrated that equipment currently fielded with the Patriot air defense system can, with minor modifications, be reconfigured to permit interception of tactical ballistic missiles by Patriot missiles fired from remotely positioned launchers. The launchers were displaced several kilometers downrange from their usual collocation with the Patriot radar. Test results will be analyzed to quantify the potential capability enhancements to the Patriot air defense system.

During the mission, a surrogate tactical ballistic

missile was launched on a south to north trajectory. The Patriot radar acquired, classified and tracked the target. Extended-range communications allowed successful intercept of the target from the remote site. This is the first time that a Patriot missile has been remotely launched in such a manner.

The experiment was conducted as an outgrowth of a response to a Broad Agency Announcement issued by USASDC in 1987. USASDC was interested in proposals, from U.S. and allied organizations, which could provide an interim theater missile defense capability against the evolving tactical ballistic missile threat.

Raytheon Company of Wayland, Mass., was awarded the contract in June 1990 with funding provided by the Strategic Defense Initiative Organization.



Excellent care

Editor:

To the wonderful staff at Fox Army Community Hospital, my sincere "thank you" for the excellent care, from start to finish, during my experience with Carpal Tunnel Syndrome.

From Drs. Harrigan, Bell and Alexander, to the friendly Medical and Surgical Clinic personnel, the super ICU nurses, Bobbie and Lynn, and the "most amusing" Physical Therapy staff who made me "look forward" to my therapy sessions, I salute you all for services rendered in spite of your busy schedules and shortage of personnel. It's always comforting to know you're in good hands!

Demy D. Robley
Maintenance Engineering

Needed support

Editor:

The Binford family wishes to express its sincere appreciation to friends, neighbors and loved ones for the support and concern given to us upon the passing of Marvin L. Binford on Feb. 8. We especially acknowledge those who helped us bear the initial shock on the evening of his death. The kindness you showed during our time of sorrow is truly appreciated and we will long cherish the way you comforted us, at a time when we needed it most.

Victoria R. Binford

Salon responds

Editor:

I am the owner of Vanity, the salon which was the subject of the Mailbox letter printed on Feb. 20 entitled "Cutting incident." The alleged incident occurred on Monday, Feb. 11 when the Redstone Arsenal Family Support Group had been invited to Vanity for free hair services as our show of support for the outstanding and brave families of our service personnel in the Gulf area. It was our pleasure to serve 35 of the most delightful, appreciative and brave ladies that we have ever met. The allegations made in the letter need an

unbiased examination and a fair evaluation of the facts.

First, the unnamed writer states that her mistreatment resulted from her being black. The fact is that the same stylist who reportedly mistreated her did, by coincidence, perform a full service cut and style on the only black lady who requested service as a member of the support group. I personally talked with this lady before and after her service and she appeared thoroughly pleased with the work and the people that did it. In addition, I talked with the leader of the RSA Family Support Group on Feb. 22 and was assured that *all* of the participants were completely happy with the work done and the reception given to them, and that no one knew of any rudeness or mistreatment.

Secondly, during the event Vanity hosted 35 ladies with four working stylists. The event was scheduled to start at 8 p.m., so the regular Monday group meeting was dismissed at 7:20 p.m. to allow time to travel from RSA Post Chapel to the salon. By 7:45 p.m. there were at least 20 group members at the salon, as we started our services in order to handle the large group as quickly as possible. Everyone was busy constantly from start (7:45 p.m.) to the end at 12:30 a.m. The allegation that stylists were standing around, idle, and ignoring a single client is not credible.

Thirdly, one of the stylists at the event recalls a young black lady and her white companion being present early in the event. On at least two occasions the stylist asked the black lady if she wanted to be served. The reply to the first inquiry was "I'm her ride" (pointing to her companion), and the second reply was "No." The first reply was overheard and verified by a second salon employee.

Fourthly, the method used to make the allegations is questionable at best. An anonymous ("name withheld") letter which states a desire to "cut up" suggests a lack of validity. To then have such allegations printed in a newspaper with no attempt to verify events, notify the accused or obtain a rebuttal hardly seems to be the American way of doing things.

We regret that anyone has been offended, for whatever reason, especially because we all need to support our troops and their families.

O. Ray Wall
Owner, Vanity

Locality pay

Editor:

On behalf of the American Federation of Government Employees and the Local 1858 staff, I want to commend all Army employees for the good work over the years and their dedication to their jobs. As you know, your hard work over the years is paying off in saving lives and maintaining a viable fighting force in the Gulf War. Everyone in the MICOM and SDC Community has worked and worked well. Some people who do not work for the Army have been very critical of civil service workers; however, they just did not know what was going on at Redstone Arsenal and SDC. So now they know and are proud of your work for the Army.

How are we doing with the Bush Administration and Congress in 1991: good and not so good. First, the good news. For the first time in recent memory, the administration has chosen not to try to balance the budget on the backs of dedicated federal employees. The president left untouched the pay raises for 1992 at 4.2 percent in the budget. Also, federal retirees will receive full cost of living adjustment. This is fair and right for the workers and retirees. You know by now President Bush and Congress negotiated a new pay plan in 1990 with the advice and approval of all federal unions, AFGE being the largest and the leader.

National and Local AFGE will play a major role prior to and when the locality pay system is implemented. The boundaries of the locality areas will be drawn by the federal salary council and federal pay agent.

The locality area and the private sector firms to be surveyed will determine your pay when it is fully implemented by 1994.

The new pay system calls for a federal pay council composed of nine members appointed by the President, six of whom are to be designated from the national federal unions and three to be chosen from persons recognized for their impartiality, knowledge and experience in labor relations and pay policy.

This council will be responsible for meeting and negotiating with the pay agent. The pay agent will call

the council together for discussing and/or negotiating on technical decisions in the area boundaries and firms to be surveyed that will determine your pay. There is another aspect to this law as the law will call for locality pay system adjustments linked to the employment cost index. The Bureau of Labor will be responsible for providing the statistics of the employment cost index through their national annual survey similar to the federal pay comparability act.

I served on the wage board locality and GS comparability pay act councils from 1972-77. I can tell you the negotiations are tough and at times very frustrating.

AFGE being the largest union will probably have three members on the council.

We need all the support and advice we can get for the AFGE negotiators in order for us to get a pay plan that is fair for everyone.

If you want to help yourself and others, now is the time to join AFGE. The future is yours. You are needed, and you can be very helpful. We have a problem with our health insurance and we're working with Congressman Ackerman to get the plan he introduced in Congress in 1990 enacted into law during 1991. One more item of concern: President Bush's budget proposes to chop 76,000 Defense Department jobs over the next two years. The big share of these cuts will come from the Army, which will lose 33,800 in 1992 and 14,600 in 1993 if his budget is accepted by Congress.

Come to the next AFGE meeting at 5:30 p.m. March 11 at building 7132, and I will discuss this in more detail. The meeting is open to all members and non-members.

Let us all join hands and fight together!

Dennis Garrison
AFGE representative

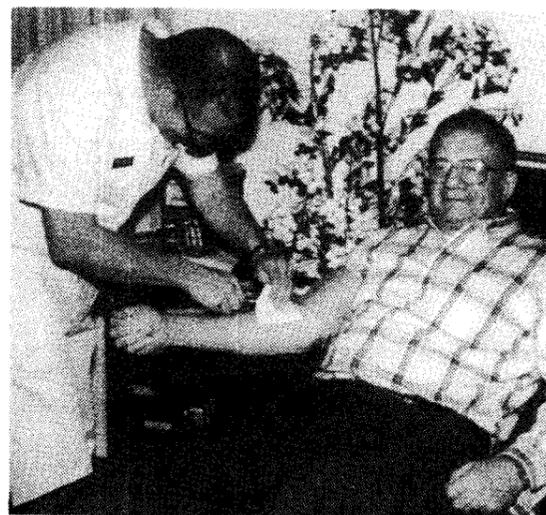
Sign your letter

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.

Correction

An article in the Feb. 20 issue of *Redstone Rocket* reported that 25 workers from throughout the Missile Command and Strategic Defense Command graduated from a course in Total Quality Management.

Charlene Coke of MICOM said she has been informed the graduates were from the Missile Command and the Health Service Command.



FIRST DONOR — Frank Nadolski, a quality assurance specialist at Chaparral/FAAR Project Office, is the first to give blood at the military blood drive conducted Feb. 20 at the Post Chapel. The medical technician at left is Sgt. Michael Sears of Fort McClellan, an activated reservist from the Indianapolis, Ind., area. Representatives from Noble Army Community Hospital at Fort McClellan came to Redstone to conduct the blood drive in support of Operation Desert Storm. Sixty people had donated blood by 4 p.m. and more were expected from B Company, 832nd Ordnance Battalion after its evening formation. The final total was 87 donors, according to Capt. Dale Haak, officer in charge of the laboratory at Fox Army Community Hospital.

THE REDSTONE ROCKET

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Army Emergency Relief fund campaign seeks \$55,000

BY SKIP VAUGHN

Redstone's annual Army Emergency Relief fund-raising campaign which begins March 1 is particularly important this year because of the support being provided to families affected by Operation Desert Storm.

"As of Feb. 18, Redstone Arsenal AER has provided the following support to families of soldiers deployed for Desert Shield and Desert Storm: a total of \$8,250 in loans and \$430 in grants. What that has done is tripled the AER caseload," said Lt. Col. Tom Hartley, chairman of Redstone's 1991 Army Emergency Relief fund campaign.

One-on-one solicitation for contributions will be conducted from March 1 through April 15. Fund-raising activities will continue through June 30. The goal is \$55,000.

Active duty and retired military people will be asked to contribute to AER. "Civilians can voluntarily contribute in support of the campaign," Hartley said.

Many fund-raising activities have been planned. "The biggest fund-raising activity that we will have will be the flea market. That's going to be our biggest money-raiser as far as fund-raising is concerned," Hartley said. Additional activities include a bowling tournament, chapel offering, car washes, doughnut sales, celebrity pie throw, golf tournament; a 5-kilometer and 10K road race with one-mile fun run; and a 10K walk (with pledges). More fund-raising activities are being planned.

The flea market will be held May 3-4 at the Old Post Gym, building 5663 on Stewart Road. Organizations involved include the NCO Wives Club, Officers Wives Club, Army Community Service and the 832nd Ordnance Battalion. Many others will be involved in food concessions and children's activities for the flea market. "It's going to be a family affair to come out and contribute money for AER," Hartley said.

Items for the flea market are to be donated from throughout the local community. Drop-off points include Army Community Service, Post Chapel and Bicentennial Chapel. "We also have volunteers who have agreed to make minor repairs on items," said Vivian Moore, publicity chairman for the flea market.



PLANNING FUND-RAISER — From left Ruth Bachman, Lt. Col. Tom Hartley and Vivian Moore discuss plans for the flea market in support of Army Emergency Relief.

Ruth Bachman, welfare chairman for the NCO Wives Club, said the NCO wives' involvement will include helping with food sales and working on supplies. "I feel like AER has always been real important to the military community, and we feel providing our volunteer services is important," Bachman said.

Gisela Mullek is the Officers Wives Club representative for the flea market. For more information about this fund-raising event, call Army Community Service 876-2859.

Last year's Army Emergency Relief campaign set a record by raising \$67,420, surpassing the \$50,000 goal. In 1990 the Redstone AER provided the following support to soldiers in emergency circumstances: 352 loans for a total of \$134,202 and 26 grants totaling \$10,265.

"With this goal of \$55,000 this year, with all the ac-

tivities planned, it's certainly anticipated that the goal will be significantly exceeded with everybody's support," Hartley said. "That will be directly attributable to the total support of the Redstone Arsenal community in support of the AER campaign."

Army Emergency Relief began in 1942 as a private non-profit organization established by the secretary of war and the Army chief of staff with the mission of providing emergency financial assistance to soldiers, active and retired, and their family members. "The creed of AER is: helping the Army take care of its own," Hartley said.

Questions about the fund-raising campaign can be directed to Hartley at 876-4959. For information about AER assistance call Juanita Adams-Clark, the AER officer, 876-5468.

NCO Wives Club offers scholarship

The NCO Wives Club will award a scholarship to a graduating high school senior.

Eligible are dependents of an active duty or retired NCO who is a member in good standing of the NCO Club for at least one year.

Applicants must show evidence of acceptance by an accredited scholastic institution, and submit a 500-word essay on one of three recommended topics. An overall "B" average is required, and an official transcript of high school grades must be submitted with the application.

Deadline for application is 7 p.m. April 15. For more information, call Beryl Cutts 852-3607 or Mary Parrish 882-0590.



BIG CHAPTER — The Huntsville-Madison County Chapter of Blacks in Government (BIG) celebrated one year of existence as a chapter at a recent banquet and chartering ceremony held at the Officers Club. The chapter officers for 1991 include, from left, Betty McPherson, president; James Turnage, first vice-president; Mary Peoples, historian; Theodore Dixie, treasurer; Melissa Blake, parliamentarian; Walter Lacy, second vice-president; Janice Thigpen, corresponding secretary; and George Chavis, recording secretary.



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High-speed drills remove pain of visit to dentist

Editor's note: The Redstone Arsenal Dental Activity provided the following article in observance of National Children's Dental Health Month in February.

Forty years of progress in dentistry has resulted in dramatic improvements in the oral health of Americans and enormous savings on dental health care costs.

Scientific breakthroughs, improved dental equipment and techniques, and increased consumer information efforts are responsible for these benefits. Following are among the major innovations which have marked the past four decades and some directions for the future.

Fluoride is considered to be the single most effective weapon against tooth decay. In 1948, the mineral was proved to prevent cavities by strengthening tooth enamel. Now it is available in toothpastes, mouthrinses, tablets, topical applications and fluoridated water supplies. Today, about 60 percent of Americans drink fluoridated water and half of school-age children have never had a cavity. Currently, scientists are researching a time-release fluoride pellet

which would bond to a tooth and allow continuous absorption of fluoride over six months.

Plaque removal became paramount in the 1960s, when researchers isolated the bacteria in plaque as the cause of tooth decay and periodontal (gum) diseases. Preventive techniques include physical removal of plaque by brushing and flossing and use of chemical anti-plaque toothpastes and mouthrinses to control infections. Today dentists are also using antibiotics to treat some forms of periodontal disease and dental scientists are seeking a vaccine to prevent tooth decay — similar to vaccines against measles, mumps and polio.

Sealants are additional preventive measures that were created in the early 1970s and are strongly recommended by the American Dental Association (ADA). Sealants are plastic coatings applied to the tooth's chewing surfaces to fill microscopic pits and fissures in children's developing permanent molars. Recently, sealants have been combined with time-release fluoride to strengthen tooth enamel and remineralize areas which show early signs of decay.

High speed drills have been important innovations

in dentistry, and when coupled with fast-acting anesthetics, have removed the pain, and accompanying fear, of a trip to the dentist. In 1950, ball-bearing handpieces reached speeds up to 50,000 rpms. Then air-driven turbine handpieces introduced in 1957 reached 300,000 rpms. Today's drills make quick work of decay, reaching speeds of 800,000 rpms. Chemical compounds now in use in a few dental offices can dissolve small areas of decay. Lasers may replace drills in the future. Experimentally, concentrated laser beams are being used to eradicate decay, smooth pits and fissures, and clean root canals.

Patient information and education have made important contributions to the decrease in tooth decay and are now being employed to fight gum diseases. Programs like ADA's National Children's Dental Health Month, now celebrating its 42nd year, have made the public aware of the importance of good daily hygiene and regular professional care.

Today the majority of Americans understand that teeth are intended to last a lifetime and, with good habits, developed early in life, they will.

Dentist shows youngsters how to keep healthy smiles

Every childhood visit with a dentist should be this pleasant.

The Army dentist, along with his assistant, stood in front of an audience of 3-year-olds at the Child Development Center and explained to them in simple terms about the importance of good dental health.

"I'm Doctor Dan and this is Miss Doris; and we're going to tell you all about your teeth," said Dr. (Maj.) Dan Luther, a dentist from the Main Dental Clinic.

Miss Doris — dental assistant Doris Coppin — used an enlarged toothbrush and a set of teeth to show the 10 youngsters the proper way to brush. "Now don't scrub. You just go around and around and around like little circles," she told them.

Dr. Dan advised the youngsters to brush their teeth at least twice a day: in the morning and before going to bed at night. He gave examples of foods to eat and foods to avoid for good dental health. "If you want to chew gum, you make sure you tell your mommy you want sugarless gum," he said.

After the presentation, the children took turns having their teeth examined by the dentist.

Luther, along with an assistant, made a similar visit Feb. 13 to Ridgecrest Elementary School. He planned to go to Williams Elementary Feb. 28, and also to the Youth Activity Center here. A group from the Child Development Center is to visit the Main Dental Clinic today for a field trip.

February marks the 42nd observance of National Children's Dental Health Month with the national theme, "A Healthy Smile Shows Your Style."



OPEN WIDE — Luther examines the teeth of Benjamin Weissman, 3-year-old son of Capt. Vanessa and Capt. Jeffrey Weissman.



DENTAL TALK — Luther, along with his assistant Coppin, tells the 3-year-olds about good dental health.

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Children's center to change its hours March 1

BY SKIP VAUGHN

Budget constraints have forced the Child Development Center to change its operating hours effective March 1.

The center's new hours will be 5:30 a.m. to 5:30 p.m. Monday, Wednesday and Friday; 6:30 a.m. to 5:30 p.m. Tuesday and Thursday.

"It eliminates an hour and a half on Monday, Wednesday and Friday, and one hour on Tuesday and Thursday which is a minimal impact on our customers," said Shirley Sterbenk, chief of Child Development Services. "What we tried to do is minimize the impact on our customers, yet we have to take into consideration our financial posture."

The center must change its current hours in order to continue to provide the service this community and the military families deserve, according to Redstone officials. The current hours are 5 a.m. to 6:30 p.m. Mon-

"It eliminates an hour and a half on Monday, Wednesday and Friday, and one hour on Tuesday and Thursday which is a minimal impact on our customers."

day, Wednesday and Friday; 6:30-6:30 Tuesday and Thursday.

"In these times of stricter budget constraints, we have got to take a hard look at our financial posture," Sterbenk said. "And we want to take corrective actions that will minimize impact on the soldier."

Surveys were conducted of the military units here — including Medical Department Activity, the Ordnance

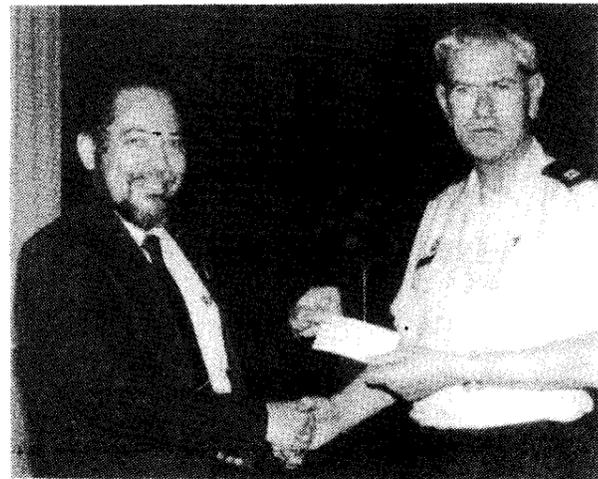
Missile and Munitions Center and School, and the Support Troops Battalion. Also, the prospective changes were considered at the parent advisory council meeting held Jan. 22. Initially the center was considering changing its hours to 6:30 a.m. to 5:30 p.m., but parents expressed concern about the reduced early morning hours. A compromise was reached and the opening time for Monday, Wednesday and Friday will be 5:30 a.m.

The change in the afternoon hours did not appear to be as much of an issue for the parents, Sterbenk said. In most cases, parents are finished their official duty by 5:30 p.m. "The early morning hours was where the concern was," Sterbenk added.

Child Development Center, which opened in November 1987, serves 179 children full time, according to Ruth Taylor, director of the center. "We have 21 hourly spaces," she said.

Group answers call to help needy military families

When the Redstone Arsenal chaplains requested help for meeting the needs of financially-strapped military families during the holidays, a local organization answered the call.



CHECK PRESENTATION — Robbley presents a check from the Knights of Columbus to Chaplain Sheahan for the chaplains' food basket program.

The Knights of Columbus, Council 4080 of Huntsville contributed a \$750 check to the chaplains' Christmas food basket program for soldiers and their families. The money represented part of the funds raised by the group over the previous 12 months.

"The Knights in the past year have donated over \$30,000 to charity. We support any worthwhile cause," said Rob Robbley, who serves as the group's round-table representative to the Redstone chapels. In

1988 he retired from the Army as a chief warrant officer four with 33 years service.

This before-Christmas contribution helped rescue the overextended food basket program, according to Chaplain (Capt.) Donal Sheahan, the Catholic chaplain on post. "We were very grateful for it at the time because we used it for the soldiers' Christmas baskets. We were short (funds)," Sheahan said. "I sent a quick request out to the Knights of Columbus to come rescue us."

The Knights of Columbus is a Catholic men's organization but assists a variety of community concerns, particularly providing support for the mentally retarded. "That's our big program; we support men-

tally retarded," Robbley said.

Council 4080 of Huntsville has about 460 members. There are 1,500,000 members of Knights of Columbus worldwide. The goal worldwide is to attain 2 million members in the year 2000. Next year, the group will celebrate the 500th anniversary of Christopher Columbus' discovery of America.

"We sponsor the bowling tournament as part of (the local) Special Olympics," Robbley said. "And every year we bring people from the Lurleen B. Wallace Center for the Mentally Retarded in Decatur to a luncheon at the Knights of Columbus home on Leeman Ferry (Road)." This year's luncheon — with help from the Cahaba Shrine Temple and its Shriners Clowns — was set for Sunday, Feb. 24.

Salvation Army helps families of deployed

The Salvation Army has developed a comprehensive program to assist families of military personnel serving in the Middle East.

"The Salvation Army has had a very special relationship with our service personnel through the years and during this time of crisis the Salvation Army will continue to serve our military personnel and their families with compassion, understanding and emergency assistance," states a news release from the local office.

Some of the services the Salvation Army will be providing include the following:

- Family counseling and spiritual support (counseling for family including children).
- Financial assistance for families with emergency

needs including rent, mortgage payment, utilities, food, medical prescriptions, travel assistance to hometowns, child care assistance and miscellaneous needs.

In order to provide these special services for military families the Salvation Army is establishing a Relief Fund in which foundations, corporations and individuals are invited to participate.

"The Salvation Army is pleased to serve heart to heart and hand to hand with the families of our fine service personnel," the news release states.

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Aluminum can recycling means dollars for Redstone

Redstone's aluminum can recycling program is in full swing.

Two semitractor-trailer loads of cans were picked up last week and destined for off-post recycling, to whomever offered the top price per pound of aluminum. The first load was transported Thursday and the second on Friday. As a result, Redstone Arsenal received \$1,169.28 in proceeds.

"The money is deposited and goes back to the troops," said Dave Popel, chief of logistics and maintenance branch at Redstone Arsenal Support Activity. The money goes into the Morale, Welfare and Recreation (MWR) fund. The theme for the aluminum recycling program here is "Convert your aluminum cans to soldier dollars."

Some 150 recycling boxes are the collecting points on post. Anyone at Redstone who would like a recycle box for their building, housing area or troop area, should call 876-1418.

"We usually turn them (the cans) in semiannually or

annually, depending on the take. This is about a year's worth," said Popel, referring to the large load of bags for the tractor-trailer. Last week's load was the second big shipment since the program began in late 1989.

The program is conducted by the Directorate of Community and Family Activities, under J.R. Brown, at RASA. "And our recycle person is Rita Richardson," Popel said.

"We'll appreciate any participation. And again, all funding goes back to the troops," he added.

His branch is part of the services division which is led by Jim Mullen. "This is the largest shipment we've made so far," Mullen said.

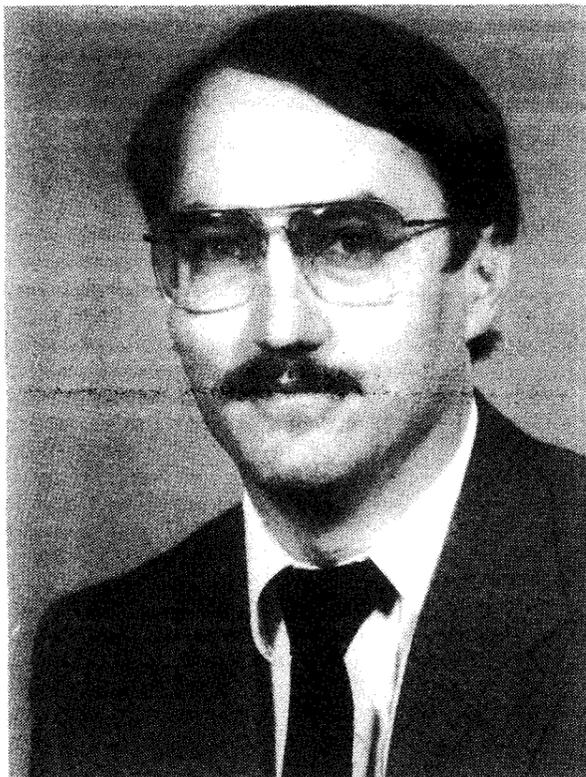
For Thursday's load alone, Redstone received a \$570.24 check for the 1,584 pounds of cans at 36 cents a pound. Friday's load was even larger: 1,664 pounds which resulted in a \$599.04 check. The two-day total for the aluminum transported to a recycling plant in Huntsville was 3,248 pounds, resulting in \$1,169.28 in proceeds for Redstone's MWR fund.



LOTS OF CANS — Recycling worker Rita Richardson is surrounded by a large load of aluminum cans collected on post.

Strickland named 'engineer of year' for SDC

Dr. Brian Strickland, a general engineer at the U.S. Army Strategic Defense Command's Directed Energy Weapons Directorate, was honored last week as his command's "Engineer of the Year" by the National Society of Professional Engineers.



STRICKLAND

Strickland was one of 34 federal agency winners nationwide competing for the title of Federal Engineer of the Year. He received his agency award Feb. 20 at a special recognition banquet in Crystal City, Va., just outside Washington, D.C.

As a general engineer, Strickland is responsible for the technical coordination and management of the

Neutral Particle Beam Technology Program. He designed the feedback control system for the particle beam funneling experiment, the non-interfering electromagnetic field sensors, and calibration techniques for small electromagnetic field sensors.

The Federal Engineer of the Year Awards program is sponsored by the National Society of Professional Engineers and leads into National Engineers Week, Feb. 17-23. The society initiated these annual awards to provide recognition for engineers employed in the federal government.

Judges for this year's awards included Richard Grossenbacher, past chairman of Professional Engineers in Government; Dr. Phillip Brach, dean of the College of Engineering at the University of the District of Columbia, and Stan Parris.

The National Society of Professional Engineers represents registered engineers from all technical disciplines. Founded in 1934, the society serves over 75,000 members through more than 500 chapters and 54 state and territorial societies.

Troop basketball

Here are the troop basketball standings as of Feb. 22:

Conference	Team	Won	Lost
Eastern Conference	NCOA	9	2
	HHC 832nd-1	9	2
	95th	9	3
	Marines	7	5
	B Company 832nd	6	6
	E Company 832nd	2	10
	Western Conference	F Company 832nd	10
HHC		5	6
515th		5	7
HHC 832nd-2		4	7
D Company 832nd		4	8
C Company 832nd		3	8
HHC C&S		2	10

Youngsters encourage grown-ups to buckle up

Kindergartners at Weatherly School in Huntsville have joined the growing ranks of people encouraging motorists to use seatbelts.

Drivers are required by law to wear seatbelts at Redstone Arsenal, according to military police.

The Weatherly kindergartners are distributing a flyer with the following information:

- According to law, children under 6 must use a child restraint system; children under 4 must use a child restraint seat; and children 4 and 5 must use a seatbelt.
- The leading cause of death of American children 5 and under is due to children riding unprotected in the car; the back seat is the safest place for small children; and car seats are available through the American Red Cross.
- If you don't put on your seatbelt, you could fly through the window. Eighty-one percent of American children ride totally unprotected — "like tiny missiles waiting for launch through a wall of glass."
- Buckle your seatbelt so you won't get hurt. A 10 mph impact is equivalent to the force of catching a 200-pound bag of cement from a first floor window.
- Buckle up so you won't fall off the seat. People ejected from cars are 25 times more likely to be killed than occupants restrained in their seat.

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DoD says Iraqi forces in Kuwait no pushover

WASHINGTON — Clarifying somewhat the previous day's predictions of a quick allied victory on the ground, Department of Defense spokesmen said Feb. 20 that Saddam Hussein's ruthless and unpredictable nature make assessments about Iraq's staying power difficult.

During the Pentagon news briefing, Rear Adm. Mike McConnell, the Joint Staff's director of intelligence, suggested that judging Saddam's will to keep fighting may not be possible using Western frames of reference.

"He lost 10,000 men on a battlefield (during the Iran-Iraq war) and went right on the next day to win — just forgetting about the 10,000 he lost," McConnell said. "It didn't cause him to pause at all. So we measure him and think about him in U.S. terms, Western terms, but it's difficult to say that he's absolutely defeated until it's over."

Joint Staff operations director Lt. Gen. Tom Kelly said taking Kuwait with ground forces would not be "a snap." The day before, he had predicted an allied ground victory "in short order."

"What I meant was I didn't see a long, drawn-out land campaign that could last six months, a year, two years, a la some of the previous wars that have been fought," Kelly said.

"I think the American people do understand...that war's a bloody thing, and we're going to take casualties. I think there will be a high degree of professionalism shown by the coalition forces, but it's going

"I don't mean it's going to be any kind of pushover. There's still some fighting to be done."

— Lt. Gen. Tom Kelly

to be painful. I think it's going to be more painful to the other side."

Kelly also recapped earlier reports of intensifying skirmishes along the northern Saudi Arabian border. One soldier was killed and seven wounded when an American combined arms team met with Iraqi forces. Two Bradley Fighting Vehicles were destroyed and a Vulcan air defense gun was damaged in the fighting.

Iraqi losses from the engagement included five tanks and 20 pieces of artillery. In addition, seven enemy soldiers were taken prisoners.

"When you have two armies arrayed against each other...when they're trying to feel for where the pressure points are, things like that are going to happen. They're rather routine. Nobody wants to see an American killed, and nobody wants to see seven Americans injured. But, in terms of the exchange, they (the Iraqis) sure came out second," Kelly said.

In a separate incident, two AH-64 Apache attack helicopters and two OH-58 scout helicopters attacked and destroyed 13-15 bunkers north of the border. About 450 Iraqi soldiers surrendered to the helicopters and were being ferried into captivity by CH-47 Chinook helicopters.

Another air assault on Iraqi positions yielded the destruction of 28 tanks, 26 vehicles, three artillery pieces and three ammunition bunkers. The attack by coalition tactical aircraft was against an Iraqi cantonment 100 miles inside enemy territory.

Kelly said that, although Iraq possesses a capable fighting force, individual Iraqi soldiers are likely mentally tired from eight years of action against Iran and 35 days of allied bombardment. However, he added that military planners are giving no quarter to the enemy, which was widely reported to be a staunch, battle-hardened army before the war. He said coalition forces were prepared to "close with and capture, destroy the enemy using shock action, firepower and maneuver."

"If one had listened to the prophets of doom before this war began, we were the lambs walking to the slaughter," Kelly said. "These were battle-hardened people who had been in combat for eight years."

"Eight years of combat is tough. People get tired. Your nervous system can only take so much of that stuff over time."

Still, Kelly sought to temper increasingly optimistic assessments of the ease with which coalition forces might evict the Iraqi army from Kuwait.

"The fact remains, even if the estimates are correct, there's still a lot of Iraqi soldiers and a lot of Iraqi tanks, and a lot of Iraqi artillery pieces and armored vehicles in the Kuwaiti theater of operations," he said. "I don't mean it's going to be any kind of pushover. There's still some fighting to be done." (Arnews)

More Iraqi prisoners taken in border action

WASHINGTON — Action along the Saudi Arabian border remained intense for American ground forces, Feb. 21, one day after U.S. Army helicopters raided an enemy bunker complex and captured a battalion-sized Iraqi element.

U.S. soldiers and Marines snared 21 more Iraqi prisoners in separate incidents as part of a campaign to determine the enemy's state of mind and combat capability after more than five weeks of relentless coalition air, artillery and rocket attacks.

Central Command spokesman, Marine Brig. Gen. Richard Neal, said U.S. forces are "shaping the battlefield and getting a clear picture of the enemy's disposition...and his action/reaction time to certain movements by our forces."

During a news briefing from Riyadh, Saudi Arabia, Neal said American soldiers fired on an Iraqi patrol in two separate early morning engagements, "resulting in the capture of seven enemy prisoners of war."

Later in the day, a Humvee was "slightly damaged" in a skirmish between U.S. Marines and Iraqi ground troops. There were no U.S. casualties in any of the incidents.

Army attack and scout helicopters destroyed five Iraqi anti-aircraft systems, five radar microwave dishes, two armored personnel carriers, four trucks, a communications van and a bunker in the 24 hours preceding the briefing.

Neal confirmed that U.S. forces had captured 421 prisoners in the helicopter raid on an Iraqi bunker complex Feb. 20. Twenty of the prisoners were officers, including a battalion commander and his staff. Neal said 14 more Iraqis surrendered when U.S. forces returned to the complex Feb. 21. In addition to the EPWs, U.S. forces found a locked bunker containing

"The Republican Guards, by their very nature, are a credible fighting force — probably the best force they have."

intelligence documents. Neal did not have any specifics to report about the documents which were taken back across the Saudi border to be analyzed.

The weapons cache discovered at the bunker included three anti-aircraft artillery pieces, a mortar and "a significant amount of AK-47s and grenades."

Neal said the bunkers at the Iraqi complex were about 5x10 feet, supported by beams and covered with tin roofs and sand. Morale among the Iraqis found there was described as low.

"They all seemed to be very tired as a result of the continuous bombing campaign," said Neal. "Their overall state, I guess, would be classified as poor."

Neal said poor weather over night had a "significant impact" on coalition air sorties and that some missions had to be canceled. Coalition air forces managed 2,400 missions during the 24 hours preceding the 10 a.m. EST briefing, bringing the total to date to 88,000.

Two soldiers were killed when their OH-58 helicopter crashed during one of the missions. Neal said the crash was not the result of enemy fire.

Also during the night, a U.S. F-16 crashed while returning from a mission in Iraq. The pilot of the aircraft ejected safely and was recovered. In another non-combat loss, a Marine Corps CH-46 crashed while attempting an emergency landing. One crewmember suffered a broken leg in the landing.

In the Kuwaiti Theater of Operations, coalition air forces flew more than 900 missions, including 100 against the Republican Guard.

"The Republican Guards, by their very nature, are a credible fighting force — probably the best force they have," said Neal. "However, having said that, they have also suffered by virtue of the air campaign that we have leveled against them over these past five weeks, and more specifically, the last three and a half weeks."

While the Republican Guard remains a "significant fighting force," Neal said "we feel that we can take on any of (Saddam Hussein's) capabilities and we know that we're going to be victorious when and if we have to go to a ground campaign." (Arnews)

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Berns does it again in the Engineer Run 10K

BY SKIP VAUGHN

As if the prior weekend wasn't enough, Spec. Gregory Berns officially served notice Saturday on the local running community that he is a force to be reckoned with.

Berns, 21, from Dubuque, Iowa, won the Engineer Run 10K here in 32 minutes and 25 seconds, another personal best time for 6.2 miles. On Feb. 16, he got his first-ever competitive road race win in the Brotherhood Run here in 34:08 — a personal record that lasted only a week.

This time he faced some of the local community's best runners — speedsters such as Carl Nicholson and Darrin Rohr — and beat them all. He had to outkick Rohr to the finish line to do it.

"Well, I guess my coach (2nd Lt. Dan Peterson) was telling me to just hang with this guy. He told me stick with the lead guy and run behind him, and that's just what I did," Berns said. He picked up the pace at about a mile into the race and continued staying on Rohr's heels. Just past the three-mile mark, Berns ran into a stout wind that worried him somewhat but he still managed to stay with Rohr. With about a mile and a half to go, Berns was feeling good and felt he indeed could stay with Rohr. From the sidelines, Peterson told him with about a mile left to pick up the pace.

"So, I pulled out in front of him. Then he started to kick; I think he got worried. He started to grunt, and he took off and he got away from me. My legs were hurting; I mean I was dying, but I hung in there. There wasn't much (distance) left and I said I can do it," Berns said. "I was giving all I got, and then I hit the finish line."

Berns took the lead for good with only about 200 meters left. Rohr finished in 32:30, only five seconds behind. "Today I feel proud and happy about it, more than I did last week because I had competition. I got a time better than I expected, so it's a good feeling," Berns said.

"He exceeded my expectations for this early in the

season," said Peterson, his coach, a happy mentor for the second weekend in a row.

Katye Pfitzer, 32, of Decatur, was the female winner in the 10K with a 40:04. "This is pretty early in my training season. This was just about an 80 percent effort, I'm pretty pleased with my time. I don't expect to be peaking until maybe Cotton Row (10K in May)," she said. Pfitzer has begun lifting weights, and doing some alternate training instead of just running. A technical writer and graphics illustrator at Browns Ferry Nuclear Plant in Athens, she also stays busy raising three children. She and her husband, Bill, have two sons — ages 2 and 10 — and a daughter, 12. "As a matter of fact, I do this (running) for my sanity," she quipped.

Her personal best 10K time, 37:48, came about 1985. Pfitzer ran a 38:45 last fall. "This is a stepping stone toward running some good times later in the year," she said, referring to Saturday's race.

Lawrence Hillis, 41, won the Engineer Run 5K, which began shortly before the longer race, in 16:47. Monica Scarano, 27, was the female winner in 22:21.

"It's a little bit slower than I've run lately but I guess the conditions were pretty windy and all, so I'm happy to just be here winning," Hillis said. His personal best for 3.1 miles, 15:24, came in 1985. Last year he ran a 15:28 and a 15:29.

"I really didn't expect to run fast today, I really didn't expect to win either. But I got one of the two so it was pretty nice," Hillis said.

There were 214 finishers in the 10K, and 181 finishers in the 5K. Winners of the 10K team competition included Rust International team one, first place; Boeing, second place; and Teledyne Wah Chung, third. The eighth annual Engineer Run started and ended at the Rocket Auditorium. Presented by the Huntsville Post of the Society of American Military Engineers, the SAME road races benefit the group's engineering student scholarship award fund. Race sponsors included Rust International; Stone and

Webster; Lowe Engineers; R.M. Parsons; Fluor-Daniel; Teledyne Brown; Bryson Construction Co.; Redstone's Directorate of Engineering and Housing; Ebasco; APAC/Ashburn and Gray; Pugh, Wright and Associates; Heery International; Proctor, Davis, Ray; Reisz Engineering; Bechtel Corporation; E.R.C.E.; Caterpillar Inc.; and Intergraph.

The following are overall winners and age group winners:

Male, 10K: Overall — Gregory Berns (32:25). 15-19 — Ed Price (38:50), Daniel Berg (47:22). 20-24 — David Barclay (42:12). 25-29 — Darrin Rohr (32:30), Kevin Keene (34:01), Mark Dummer (34:19). 30-34 — Terry Daniel (35:06), Keith Elliott (35:21), Ed Freeman (35:27). 35-39 — Joe Francica (35:04), Kim Koenig (36:13), Clint Jones (38:13). 40-44 — Carl Nicholson (34:31), Steve Rice (35:44), Jerry Puckett (35:59). 45-49 — Ken Dreon (37:04), Donald Wallace (37:49), Michael Marshall (39:28). 50-59 — James Teague (39:45), Joe Beams (40:33), James Borden (41:05). 60-over — Mark Wheat (46:35), Fred Jandebour (55:21), Michael Dooley (55:32).

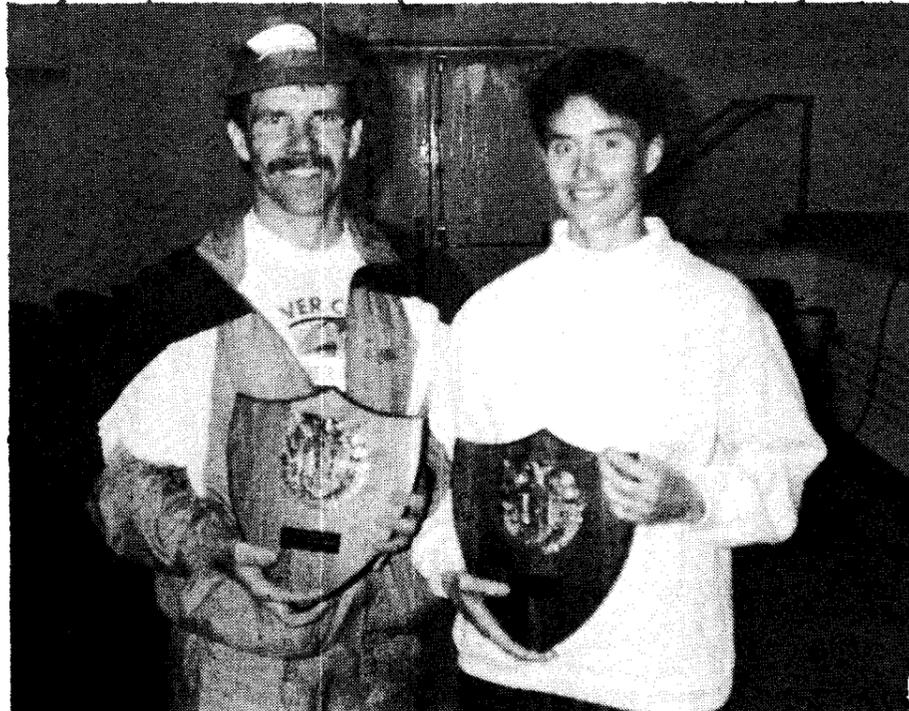
Female, 10K: Overall — Katye Pfitzer (40:04). 15-19 — Ashley Duke (51:33). 25-29 — Sara Pauls (51:00), Kim Dolan (53:11), Susan Frohboese (54:22). 30-34 — Ginny Hornberger (41:52), Meshelle Whitt (43:46), Pamela Dean (47:41). 35-39 — Sarah Grace (42:48), Sue Ellen Dempsey (43:23), Midge Vinson (43:24). 40-44 — Pamela Marshall (44:37), Olga Steiner (1:18:44). 45-49 — Sandra Berg (47:32), Phyllis Sizemore (50:33), Alice Hoffman (51:43). 50-59 — Barbara Meyer (51:23), Karol Landram (53:40), Jackie Clark (58:36).

Male, 5K: Overall — Lawrence Hillis (16:47). 14-under — Robert Peterman (22:01), Greg Groom (22:36), Ed Wynn (23:54). 15-19 — David Cain (17:45), Mike LeMaster (18:25), Kirk Riggs (19:27). 20-24 — Timothy Horvath (18:09), David Smith (19:30), Chris Haley (21:51). 25-29 — Terry Quillan (18:22), Pete Bromirski (18:39), Mike Green (19:35). 30-34 — Michael Scarano (16:57), David Low (17:58), James Burnum (18:42). 35-39 — Mark Gentle (17:55), Bill McDowell (18:08), Keith Hallmark (18:46). 40-44 — Bill Bean (22:40), Dennis Anderson (23:48), Richard Haygood (24:45). 45-49 — Ronn Carpenter (22:42), James Porges (24:59), Lawrence Craig (25:17). 50-59 — Jim Oaks (18:48), Earl Jacoby (19:50), Richard McCrady (21:02). 60-over — Mike Borelli (27:23).

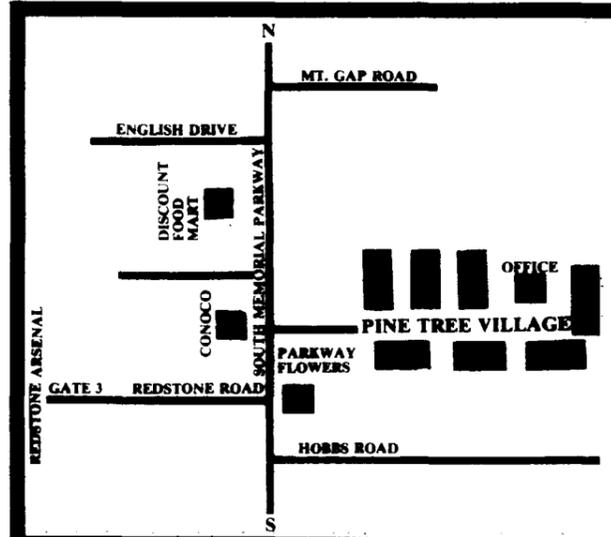
Female, 5K: Overall — Monica Scarano (22:21). 14-under — Natalie Fahey (23:47). 15-19 — Ann Wynn (24:02), Krisinda Short (26:57), Desiree Runkle (27:13). 20-24 — Beth Sornsin (25:42), Margaret Jenkins (26:16). 25-29 — Tracy Bromirski (24:59), Rhonda Solomon (25:23), Lana Bowling (25:38). 30-34 — Kathleen Quillen (23:16), Teresa Harrison (23:30), Cydney Thomson (23:31). 35-39 — Lecia Atchley (25:34), Karen Rush (26:40), Classie Cooper (26:53). 40-44 — Judith Campbell (25:14), Martha Stewart (25:47), Betsy Gunn (26:00). 45-49 — Margaret Richards (27:13), Georgia Schneider (35:09). 50-59 — Cele Coyle (25:18), Hattie Lesley (35:06). 60-over — Betty Dooley (28:54), Una Guillebeau (51:28).



10K WINNERS — Katye Pfitzer and Spec. Gregory Berns are the overall winners in the 6.2-mile race.



5K WINNERS — Lawrence Hillis and Monica Scarano are the overall winners in the 3.1-mile race.



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Chemist lived to realize his dream of acceptance for black scientists

Editor's note: The following profile of a noted American of the past was provided for Black History Month by the Huntsville Alumni Chapter, Omega Psi Phi Fraternity Inc.

Dr. Percy Lavon Julian, an organic chemist, was born in Montgomery in 1899. His father was a railway mail clerk and his mother a school teacher. He attended the State Normal School for Negroes, a private high school in Montgomery. After graduation he entered DePauw University in Greencastle, Ind., graduated as class valedictorian and was a member of two honor societies, Phi Beta Kappa and Sigma Xi. It was there that he became a leading member of the Omega Psi Phi Fraternity Inc.

Julian taught at Fisk University before entering Harvard University, where he received a master's degree in chemistry. After accepting a teaching position at West Virginia College for Blacks, he later transferred to Howard University in Washington, D.C., serving as associate professor of chemistry for two years. In 1929, with financial backing from the General Education Board, Julian went to Vienna to study for his doctorate. While there, he became interested in the research of the soybean. In 1931, he received his doctorate in organic chemistry. Upon returning to DePauw, he was the first to synthesize physostigmine, a drug used in the treatment of glaucoma. The dean of the university wanted to appoint Julian as chairman of the chemistry department but was advised against it because Julian was black.

Julian left DePauw to accept employment at Glidden Company, a manufacturer of paints and varnishes. In 1936, he was appointed chief chemist, director of research of soybean products. His appointment was viewed as a turning point regarding the acceptance of black scientists in America.

He saved the lives of thousands of servicemen in World War II with his invention of "Aero-Foam," derived from soybeans, which was used to extinguish fires. He also discovered a more economical way to extract sterols from soybean oil to produce sex hormones. Julian is probably best known for developing a way of producing cortisone synthetically, in large quantities and at a reasonable cost. Before his discovery, cortisone, used in the treatment of rheumatoid arthritis, was available only in limited quantities and was extremely expensive.

In the early 1950s Julian formed Julian Laboratories Inc. in Oak Park, Ill., and Laboratories Julian de Mexico in Mexico City. Julian Labs in just a few years grew to be one of the largest producers of drugs in the country. In 1961 Julian sold his Oak Park Laboratory to Smith, Kline and French, a pharmaceutical company, for \$2,338,000 but maintained his position as president.

During his long and productive career he received numerous awards, published over 200 papers in respected journals, and had more than 100 patents to his credit. In 1947 he received the prestigious NAACP Spingarn Medal from the National Association for the

"He demonstrated technical skill, courage and sustained effort on the highest level in making contributions that will benefit mankind for years to come."

Advancement of Colored People. The award was "in recognition of his work as a distinguished chemist who

has made many important discoveries that have saved many lives. He demonstrated technical skill, courage and sustained effort on the highest level in making contributions that will benefit mankind for years to come."

Julian died of liver cancer in 1975, but lived to realize his dream: the emergency of black scientists entering universities where their creative talents could find uninhibited outlets. Julian has prevailed as a trailblazer for those who have followed him.

Randolph School wins math competition

A team of seventh and eighth graders from Randolph School has won the regional final of the Mathcounts contest.

The program, in which teams of seventh and eighth graders from area junior high schools and middle schools participated in math skills' competition, was sponsored in Huntsville by the local chapter of the Alabama Society of Professional Engineers. The top six teams and the top six winners of the local competition will compete March 23 in Birmingham for the state Mathcounts finals.

The top six winners include first, Anoop Ranganath of Mountain Gap Middle; second, Chris Dillard of Liberty Middle; third, Stephanie Yang of Challenger; fourth, Lesley Jacobs of Scottsboro Junior High; fifth, Ann Pitruzzello of Holy Spirit; and sixth, Johnathan Player of Scottsboro Junior High.

The top six teams include first, Randolph; second, Scottsboro Junior High; third, Mountain Gap Middle; fourth, Challenger; fifth, Liberty Middle; and sixth, Holy Spirit.

Also receiving awards were Liberty Middle for "Best New School" and Davis Hills for "Most Improved School."

Mathcounts, a combination math coaching and competition program, is designed to answer the problem of declining math skills among students at the precollege level. Students compete in both written and oral matches in such subjects as probability, statistics, linear algebra, and polynomials.

Twenty-two local schools participated in the contest held Feb. 16 at the University of Alabama-Huntsville student center. It was among the activities for Engineers Week, Feb. 17-23.

Effort under way to hire people with disabilities

BY RUDI WILLIAMS

AMERICAN FORCES INFORMATION SERVICE

The Department of Defense is a shining star among government agencies when it comes to employing disabled workers, and that's the way Secretary of Defense Dick Cheney likes it.

Cheney recently exempted severely disabled persons from DoD's hiring freeze and encouraged the military services and DoD agencies to hire more of them. He has set a DoDwide goal of nearly doubling the ranks of severely disabled employees from 1.2 percent of the civilian work force to 2 percent.

Last summer, DoD's civilian work force included 12,136 employees whose disabilities had been targeted for increased hiring emphasis by the Equal Employment Opportunity Commission. The disabilities include blindness, deafness, partial or complete paralysis, mental retardation, mental illness, seizure disorders, missing ex-

tremities and deterioration of limbs or the spine.

In addition, the Defense Manpower Data Center in Monterey, Calif., reported DoD had nearly 60,500 disabled veterans on the payroll in September 1990. The Army had 23,309; the Air Force, 17,280; the Navy and Marines, 15,698; and other DoD activities, 4,146.

DoD's equal opportunity office compiled a list of 300 college students with severe disabilities for possible employment with the department. Information about the candidates is available to the military services and DoD activities by sending a facsimile request to 1-703-696-5338 or writing to:

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Patriot

(Cont'd from page 1)

sonnel as well as people to march-order and emplace all of the equipment. So, a typical battery would have 80 to 90 people," Oldacre says.

Patriot team

The prime contractor is Raytheon Company of Lexington, Mass. Its primary industrial team member is Martin Marietta of Orlando, Fla. A battery of Patriot will typically cost from \$75 million to \$100 million, depending on the complement of missiles and launchers placed with it; the missiles would represent nearly half of this cost. The newest Patriot missile, PAC-2 (Patriot Antimissile Capability second phase), is about \$600,000 each.

Patriot Project Office consists of about 115 civilians and about 15 military people. "That's made up of both core and collocated matrix people. There are at least a couple of hundred more matrix people who are located in the functional directorates who support Patriot," says Oldacre, the deputy project manager since April 1987.

Col. Bruce Garnett is the project manager. Besides Garnett and Oldacre, other leaders of the project office include Don Adams, chief of systems engineering; Larry Moore, chief of software engineering; Sid Gaddy, chief of hardware engineering; Bob Tarquine, chief of production and configuration management; Vern Chance, chief of product assurance; Dave Dalton, chief of support operations; and Joe Gentry, chief of program management.

Overall capabilities

Oldacre has been with Patriot since 1965 when the project office was originally formed. He says he is not surprised at the success Patriot has enjoyed in the Persian Gulf war. "I think those of us who've been closely associated with Patriot knew that it had this capability because we've seen it demonstrated numerous times in test programs. Actually what has been shown in the Mideast is only a small portion of Patriot's overall capabilities. What we have is a very sophisticated system operating against a rather unsophisticated

threat, and Patriot has not been demonstrated at all against its primary design threat which is a massive attack by aircraft in an intense ECM (electronic countermeasures) environment," he says. "What we have been doing is a piece of cake compared to what Patriot must really be prepared to do in the future."

Patriot is being upgraded to increase its capabilities, particularly in the anti-tactical ballistic missile role. A new multimode seeker is under development which will increase the accuracy of the missile and provide additional firepower against sophisticated threats. The radar is also being improved to provide the capability to detect lower cross-section targets at greater ranges. Funding for a portion of Patriot's increased capabilities is being provided through Strategic Defense Initiative channels. Additional funds are allocated by the Army to upgrade Patriot's conventional anti-aircraft capabilities. "Overall, Patriot has a

lot of growth potential because it is a software controlled system and it can be adapted rather easily to new roles and missions as has been demonstrated by the inclusion of the anti-tactical ballistic missile capability now being demonstrated in the Mideast," Oldacre says.

"I think as in any successful program, the success is largely due to the people that worked it. In the case of Patriot, I think that's especially true. We have a dedicated staff of people who remained with the program for many years, both in the government and within the contractor team. These are people who know Patriot inside and out and know how to make it be all it can be," he says. "And this team is extremely proud of the accomplishments of Patriot and they are anxious to show what can be done to further improve the system in the future."

Local county vying for homeless grant

Madison County has been selected as a finalist in a grant program that could bring more than \$100,000 to the community to aid homelessness. The United Way of Madison County was notified of the selection Feb. 19.

A final proposal is due March 18 to The Better Homes Foundation and United Way of America, who have jointly sponsored a challenge grant program with the goal of stabilizing homeless women with children. Up to four grants will be awarded, each ranging from \$50,000 to \$100,000 in year one. Communities receiving the grants will be notified April 19.

Madison County's United Way was among 32 in the

nation invited by The Better Homes Foundation and United Way of America to develop a coalition of public, private and non-profit agencies and apply for grants to design, implement and evaluate programs that help strengthen and coordinate services for homeless and underhoused families with preschool children.

"Families Achieving Self-Sufficiency Together" is the program created by the coalition for consideration by The Better Homes Foundation and United Way of America. The FAST Program will be administered by The Harris Family Foundation.



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DoD civilians have role in Operation Desert Storm

BY TIM DOWNEY

AMERICAN FORCES INFORMATION SERVICE

Mention Total Force concept and chances are most DoD people can reel off the first three components in a heartbeat: active duty military, National Guard and the Reserve. Mentioning DoD civilians and contractors is an afterthought.

That doesn't sit well with Elaine Babcock, DoD's associate director of total force requirements. Babcock said civilians and contractors are pulling their load and then some. Civilians have helped get the 500,000 U.S. service members to the Persian Gulf area and still supply and support them.

"I've been preaching it for years, and we're seeing it happen today with Desert Storm. The military cannot mobilize, deploy or sustain itself without its civilian work force," she said. "Civilians are intimately involved in the support, loading, unloading and transport of equipment. They keep the supply of spare parts up to strength, repair equipment and do the paperwork and processing to get the units over there."

That's because civilians now do a lot of the jobs that service members previously performed, she explained. In the 1980s, more than 20,000 military spaces were converted to civilian positions. Civilians solely are filling jobs that might once have been military or civilian, said Babcock.

DoD policy has long been to hire civilians and contractors, freeing military forces to perform vital military functions. DoD's million civilian employees constitute about a third of its full-time work force. The Total Force policy calls for them to participate in "all defense activities not potentially involving combat."

There are two good reasons for civilianization, according to Babcock. It's usually cheaper because benefits and allowances are different, and the rotation of military people means constant training requirements. Because civilians tend to stay at jobs longer than do military members, they provide the continuity that results in years of expertise on sophisticated gear, she said.

Civilian and contractor know-how redoubled in significance when it became clear that Saddam Hussein would not leave Kuwait peacefully. Thousands of hours of planning, testing and training are now being put to the test as Operation Desert Storm unfolds and equipment gets wartime treatment.

Civilians and contractors make up 2 to 5 percent of the U.S. force in Saudi Arabia. Babcock said most job skills being used include engineering, logistics, communications, real estate and contract administration.

"Many of these experts ensure the huge influx of spare parts meets the demanding specifications for our weapon systems," she said. "They provide a wide range of support services such as writing contracts, keeping track of personal and real property, maintaining and repairing equipment, setting up sophisticated communications gear. You name it, they do it."

The Air Force and Navy tend to have fewer civilians and contractors deployed with their forces than the

#15



Army, but all of the services rely on both groups, she said.

"The Navy recently secured an exception to the internal hiring freeze to bring on board badly needed civilian mariners," she said. "They have relied almost solely on civilian employees to operate their replenishment ships throughout Operations Desert Shield and Desert Storm."

"A particularly important group of civilians and contractors in theater are the 'emergency-essential' civilians," she said. "The designation means just that. They're invaluable to the success of the military in certain scenarios. They have agreed, in writing, to remain in theater."

All services have such civilian workers, but most work for the Army Materiel Command, according to Babcock. When the unit they support deploys, the civilians deploy with them.

"Some equipment takes years to learn, and the military members do not spend years in one place dealing with one kind of equipment," she said.

Emergency-essential personnel on temporary duty in Saudi Arabia draw no special pay that acknowledges the risk they are taking, she said. Civilians deployed to the area on temporary duty, but who are permanently assigned in the Middle East, receive a pay differential of 10 percent to 25 percent depending on their posting, according to personnel officials.

Civilian employees deployed to the area on temporary duty begin to draw any applicable differential

after the 42nd day in country. All employees receive danger pay when the Department of State determines that conditions warrant it.

"Therefore, a contract or real estate specialist working in an office in Bahrain or Riyadh, Saudi Arabia, who would be evacuated in case of hostilities gets the same allowance as the emergency-essential civilian who's forward-deployed and stays no matter what," she said.

No civilians and contractors are combatants, but they live under the same conditions and face the same risks as their active duty peers. Most civilian personnel were in theater when Desert Storm began.

Contractor personnel and civilians on board Navy ships were also standing by. Babcock said they generally provide technical expertise should equipment malfunction. Ships are considered relatively safe, she said.

Babcock said DoD civilians worldwide and local-national civilian employees overseas are working hard to ensure that mounting military needs are met. An area that drew special praise from the director was safety.

"We found we needed large numbers of chemical defensive gear sets and inspectors for loading ammunition. Employees have been working long hours to keep up with seemingly endless needs," Babcock said.

To efficiently respond to Central Command's growing requirements for technical representatives, the Ar-

(See DoD, cont'd on page 15)

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Lakewood 76ers still rolling in boys' basketball

A boys' basketball team coached by a Missile Command worker is still unbeaten and on its way to the state tournament.

The Lakewood 76ers, a 12 and under team coached by James "Mooney" Battle, won the area district 2 tournament held Feb. 21-23 at Brahan Springs Gymnasium. The Sixers beat the Boaz All-Stars, 67-32; the Redstone All-Stars, 86-36; the Arab All-Stars, in the semifinals, 54-41; and the Southern All-Stars, in the championship, 73-51.

Like the Sixers, the Southern All-Stars are from Huntsville so two teams from this city made it to the championship game. Bernard Smith paced Lakewood to the win with 23 points, followed by Kenyon Hambrick with 15, Jerrick Kellum 11 and Rodney Rogers with 10. Southern was led by Tim Tibbs with 20 and Fredrick McGinnis 10.

"I think all the kids played a terrific tournament," said Battle, a supply technician in the transportation-distribution branch of Missile Logistics Center. His team's record so far this season is 25-0. The Sixers are 116-6 in the four years Battle has been coaching them.

"The kids are improving; they're getting better and better. This is a good time for them to start peaking, because they're getting ready to go to state and they've got some good teams there. We should be ready this year when we go," Battle said. The state tournament will be held March 8-9 in Enterprise. Last year the Sixers finished fourth in the tournament which was won by Enterprise, the host team. "They just have a tough ballclub," Battle said.

Before going to state, the Sixers will play in the second annual Lakewood Basketball Classic March 4-7 at Lakewood Gymnasium. "Then hopefully after winning that championship, we'll load up for Enterprise Friday morning," Battle said. Anybody who would like to make a contribution for the trip can reach him at 842-0171.

"When we come back from Enterprise we'll also be

entering the AAU state tournament March 22 and 23, here in Huntsville this year. So you're talking about a week of practice, then we start back playing again," he said. "If we win that state (AAU) tournament, then we go to the national tournament which will be in Roanoke, Va." The national Amateur Athletic Union tournament will be held July 27 to Aug. 3 in Roanoke.

Troop bowling

Here are the Redstone Arsenal troop intramural bowling standings as of Feb. 21:

Tuesday's Conference		Won	Lost
HHC 832nd-1		359.5	190.5
F Company 832nd-4		358	192
F Company 832nd-3		300	250
USATSG		300	250
HHC Command & Staff		288.5	261.5
HHC 832nd-3		273.5	276.5
HHC MICOM		258.5	291.5
MEDDAC		228.5	321.5
Marines		205	345
C Company 832nd		178.5	371.5

200 games bowled Feb. 19:

Leo Avizinis (HHC 832nd-1)	224
Gary Sutton (HHC MICOM)	214
Jerry Matias (HHC 832nd-1)	200
Bill Young (F Co. 832nd-4)	200

Thursday's Conference		Won	Lost
E Company 832nd-1		373	177
F Company 832nd-1		341.5	208.5
Readiness Group		330	220
HHC 832nd-2		316.5	233.5
F Company 832nd-2		305.5	244.5
515th Ordnance Co.		276.5	273.5
E Company 832nd-2		276.5	273.5
HHC 832nd-4		231	319
* Vacant team		159	391
D Co. 832nd		132.5	417.5

* need 4-5 active duty people to form new team; call SFC James Stracke at 852-9535

200 games/600 series bowled Feb. 21:

Steve Cook (F Co. 832nd-1)	232, 221, 214 & 667 series
John Davis (F Co. 832nd-1)	221 (599 series)
Don Hewitt (E Co. 832nd-1)	217
Rich Collins (F Co. 832nd-2)	216
Gary Shaw (Readiness Group)	202

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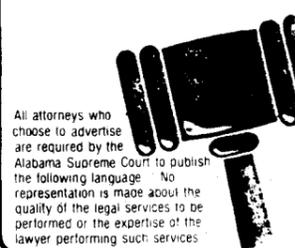
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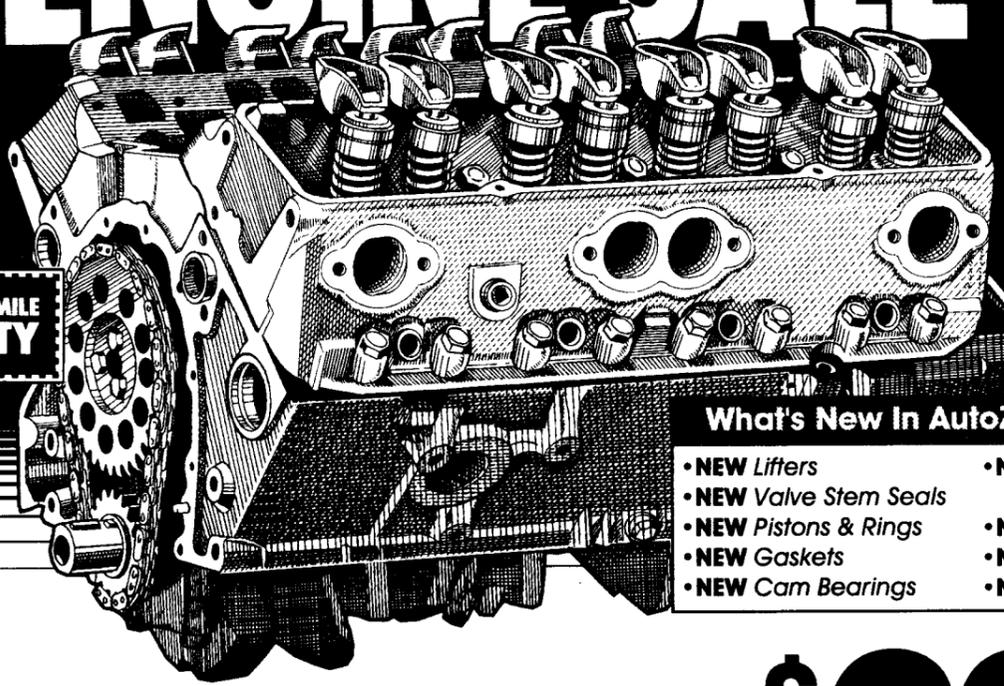
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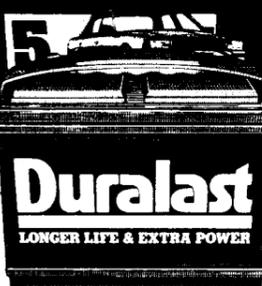
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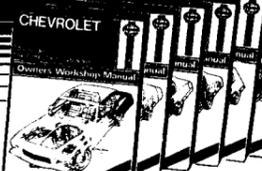
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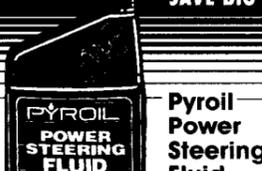
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Building manager has big job running 'grand old ship'

BY EVELYN D. HARRIS

AMERICAN FORCES INFORMATION SERVICE

Secretary Dick Cheney runs the Department of Defense, but it's Jan O'Neil and her crew who keep his Pentagon lit, warm and running. She's the building manager, the first woman ever to hold the position.

"My heart stopped when the lights blinked during Cheney's press conferences as he announced Operation Desert Storm (Jan. 16)," she said. "We now have extra electricians on duty round-the-clock while this crisis continues. I'm going to switch schedules so we have enough plumbers and cleaning staff, too — whatever we can do to keep the people working on Desert Storm more comfortable."

O'Neil has to be prepared for everything from short-notice visits by the president and dignitaries to snowstorms and burst pipes. She wears professional business suits to work, but keeps old clothes and a hard hat handy.

"The Pentagon was completed in 1943. We plan to have the entire building renovated by 2001, including the electrical systems and plumbing. A German reporter told me she thought the whole building may fall apart when all the old wiring is pulled out," said O'Neil. "I don't think so. This building may be battered, but she's a grand old ship."

O'Neil is also DoD's first Pentagon building manager. In November 1990, Congress granted DoD's request for control of the building. Before, DoD paid rent to the General Services Administration. Now, the military services pay rent to DoD's Washington Headquarters Services, based on the kind and amount of space used.

O'Neil is in charge of 625 employees who operate,

maintain, repair, alter and clean the building. She has an administrative staff of 30, a custodial force of 450. The rest of the workers are plumbers, electricians and other crafters.

"My job is to see that the Pentagon's 26,000 occupants are happy. I want their space to be clean, safe, comfortable and reasonably pretty whenever possible," she said. "People call our office if they need a new electrical outlet, have a plumbing problem or whatever. We also handle more extensive jobs, such as major revamping of large computer rooms."

O'Neil said she "fell in" to her current career. She's lived in the Washington, D.C., area since she was 4, when her father joined the Navy during World War II. He was assigned to the Navy Annex as a photographer and stayed on as a civilian after the war. A photo of the building he kept in the family photo album now hangs in his daughter's office.

"I didn't want to be a government worker, because both my parents were. I thought all government jobs were the same, that everyone did the same thing every day," O'Neil said. "I went to nursing school, but meningitis forced me to leave after two years. By the time I recovered, the school had so drastically altered its curriculum, I would have had to start over again. Besides, I was getting married."

She took several jobs in the private sector, including resident manager for some apartment buildings. "I wasn't getting anywhere, so I decided to try the government. I started as a clerk for GSA, but was soon a clerk supervisor. My boss told me about an opening for a building manager," she continued. By rewriting her job application to emphasize her facilities management experience, she got the job.

Since then, O'Neil hasn't looked back. She's been a building manager throughout the Washington, D.C., area, including the Washington Navy Yard and near her home in Rockville, Md. Three years ago, when DoD took over maintenance for its facilities, she was responsible for administrative services for some 300 buildings in GSA's Arlington (Va.) District. Soon after she started, O'Neil was asked to join the Pentagon's building maintenance management team.

The Pentagon building manager retired soon after O'Neil went to work for the Washington Headquarters Services. The call went out for an acting building manager. O'Neil was selected and given the job permanently in April 1990.

"I've been lucky," she said. "I've had good supervisors all along the line."

DoD

(Cont'd from page 12)

my's largely civilian Corps of Engineers and Materiel Command had established processing centers. The commands felt this would save time and resources and standardize predeployment training of technicians. The Army has taken the idea and plans to centrally process all its civilians and contractors through one center, at Fort Jackson, S.C.

"Civilians are making major contributions to Desert Storm," Babcock said. "Many are doing it at the same time they're facing reduction-in-force notices, because we're transitioning to a smaller force even as we meet the challenge of this huge operation. That says a lot about the professionalism, patriotism and dedication of our people."

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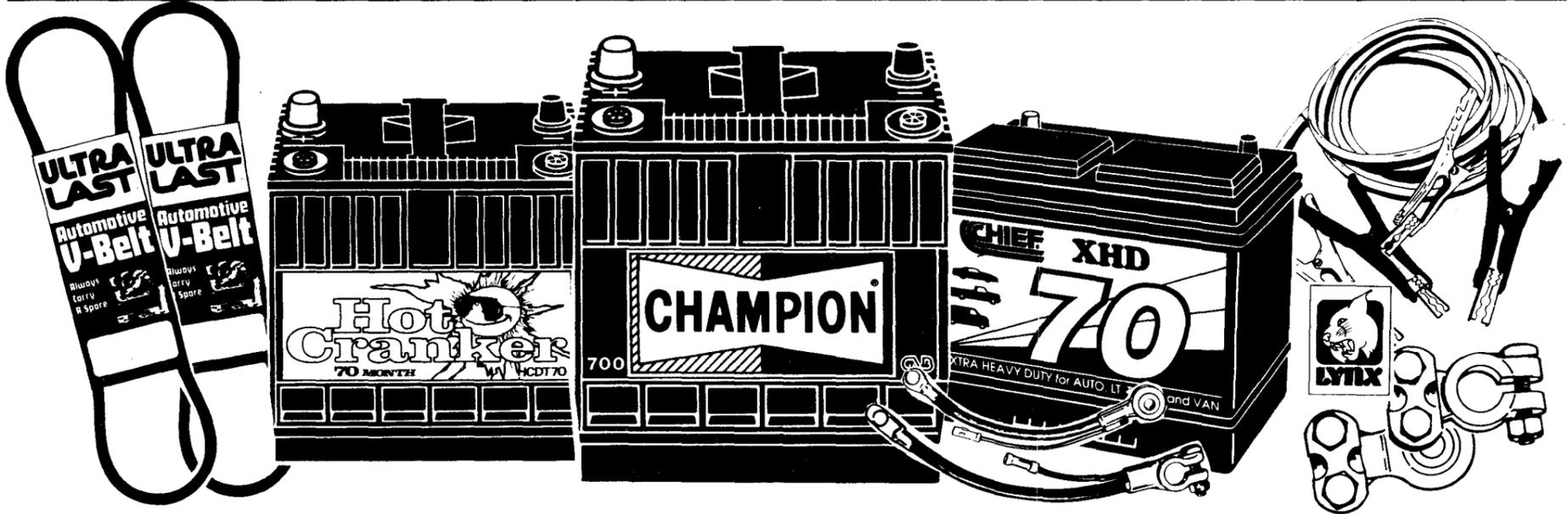
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Defense task force coordinates help for families

BY SFC LINDA LEE, USA
AMERICAN FORCES INFORMATION SERVICE

Operation Desert Shield answered questions about the military's ability to rapidly mobilize, but it raised other questions: What happens to the military families left behind? Who helps them cope with the problems caused by sudden deployments?

Throughout the military, as the mobilization grew to Desert Storm on Jan. 17, installation family centers quickly found themselves assisting more families that had more day-to-day problems than staffs had ever thought possible. Crisis counseling and financial and child care problems were just a few areas that immediately overwhelmed center workers. The centers handled the crises.

"The structure was already in place. The family centers increased their hours and provided more help," said Gail McGinn. "The centers had always provided help to service members and their families on a daily basis. We expanded to meet those needs of the families caused by Operation Desert Storm."

McGinn, director of DoD's family support and services office, explained support to spouses who suddenly became single parents included financial and crisis counseling, child care referrals and how to take advantage of medical and personnel benefits.

Seventy-five Navy and 18 Marine Corps Family Service centers, 104 Air Force Family Support centers and 166 Army Community Service centers make up the family support network. McGinn said the centers rely on help from federal and local government agencies and private organizations such as the American Red Cross, Armed Services YMCA and the United Service Organizations.

Soon after deployments began in August, McGinn's office set up the Family Policy Coordinating Committee Desert Shield Task Force to deal with problems facing the services. The group has family support representatives from all of the services, National Guard Bureau and several other agencies.

"Families need information. They need to know what's going on," McGinn said. "Rumors and uncertainties are the biggest problems." She said task force members' first priority is "sharing information with each other."

"For example, the Navy has had a lot of experience with family separations. They have shared what they have found works in certain instances," she explained. Committee members also provided information on what active duty services are available for National Guard and Reserve families affected by the call-up.

Discussing emerging trends and issues during the meetings has surfaced several problems facing all services, including family care plans.

"We've learned that individuals need to be careful in setting up child care plans so that potential guar-

dians are ready to make possible long-term commitments," said McGinn. "When this isn't clear, it can cause problems down the line."

One task force project that especially pleases McGinn is a commercially developed booklet, *Project Me*, for young family members. She said the booklet, distributed to military installations worldwide, and schools and other agencies, uses simple language, pictures to color and fill-in-the-blank sentences to explain why a family member is in the Persian Gulf area.

The task force has no authority to institute changes, but rather coordinates policy issues affecting families and develops policy recommendations for decision makers. "Then, we are halfway there in fixing a program or starting something new," she said.

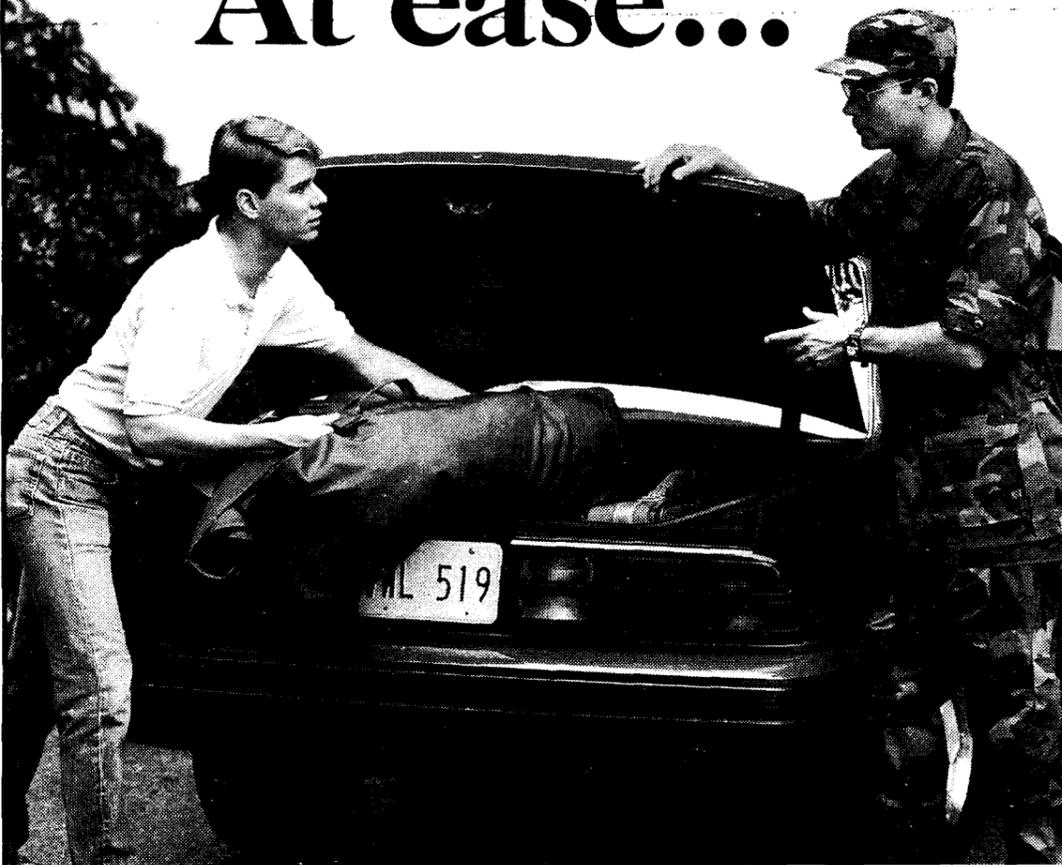
"The committee has been successful in helping families because the people on it care about family members and the services are willing to share what they have learned," McGinn said. "The services have been honest about the problems they are having. Once we know something is wrong, we are able to work on a solution."



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Or Register on March 22 before 6 p.m. for Set 2 Classes.

Set 1 classes meet Friday nights from 6 to 9 and Saturdays from 8 to 4 on March 15 & 16, April 12 & 13, April 26 & 27, and May 17 & 18
Biology 321, Environmental Science Psychology 335, Adult Psychology
History 405, Nineteenth Century America Social Ed. 301, Intro. to the Exceptional Child
Management 302, MIS Sociology 304, Sociology of Work
Management 418, Management of Technology Voc. Ed. 483, Practicum in Teaching Voc. & Tech. Ed.
Management 349, Human resources Mgt.

Set 2 classes meet Friday nights from 6 to 9 and Saturdays from 8 to 4 on March 22 & 23, April 19 & 20, May 3 & 4, and May 24 & 25
Education 300, Foundations of Education Management 416, Entrepreneurship
English 307, Major Authors I Management 452, Prod. & Operations Mgt.
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Announcements



Officers wives

The Officers Wives Club will hold its March 12 luncheon at the Officers Club. "Enjoy the delightfully entertaining skit 'The Basic Black Dress' as it depicts phases of an Army wife's experience from marriage through her husband's retirement." A taco salad buffet will be served for \$6.25. Social hour begins at 11 a.m., with the luncheon at 11:30, and the program to follow. RSVP by noon March 8; call after 2 p.m.: Elizabeth Bradshaw 837-3442 (A-H), Lawanda Blue 837-1957 (I-P), Judy Westrum 830-5287 (Q-Z and newcomers). Cancellations should be made by noon March 11; for cancellations, call 830-5287.

Gospel program

Workers for Christ Ministries is sponsoring a musical program 7 p.m. March 9 at the New Life SDA Church, 4906 Blue Spring Road.

Multicrafts

Here's the Multicrafts Center schedule through March 9. March 1, *Family night out*, special activities, 6 p.m.; March 2, *Youth spin art*, bring your own T-shirt or sweatshirt, 10 a.m.; *Rectangular mat cutting workshop*, call for time; March 5, *Intermediate stained glass*, 6 p.m.; *Ceramic dry brush class*, 6 p.m.; *Picture frame classes*, 6 p.m.; March 6, *Advanced jewelry classes*, 6 p.m.; *Fabric painting and decorating classes*, 6 p.m.; March 7, *Mandatory wood safety workshop*, 4:30 p.m.; *oval mat cutter workshop*, 6 p.m.; *Marbleized Easter eggs*, 6 p.m.; March 8, *Basic stained glass techniques*, 1:30 and 5 p.m.; *Family night out*, 6 p.m.; March 9, *Advanced jewelry classes*, 9:30 a.m.; *Easter T-shirt applique*, 9:30 a.m.; *Acrylic techniques on watercolor paper*, 1 p.m. The center, located in building 3615 at the corner of Vincent Drive and Gray Road, is open to all active duty and retired military members, government civilian workers, family members and guests. For more information stop by for a visit or call 876-7951/7974.

Garden plots

Attention family housing occupants: Anyone residing in government quarters who wishes to have a garden plot must contact the Family Housing Office by March 15. The plots are issued on a first-come, first-serve basis. After March 29, no new plots will be issued. For more information, call Ann Neal 876-1445.

Nutrition lectures

Wyndham Park, in celebration of National Nutrition Month, will be sponsoring a lecture series each Tuesday in March. There will be different speaker each week to talk to seniors about choice, preparation, and storage of foods that are great tasting and good for them. Topics will include Heart Healthy Eating, Calorie Counting and Diets, The Importance of Taste, and Heart Smart Meat Choices. A door prize will be given away each week. The programs will start at 2 p.m. and will be held in the main dining room at Wyndham Park. The program will last about an hour. Space is limited and reservations are recommended. Reservations can be made for one or all four programs by calling 852-0033.

Dining facilities

A special lunch meal for Black History Month will be served Feb. 28 during regular lunch hours at the military dining facilities. Only authorized personnel — active duty military — are allowed access to these dining facilities. The Feb. 28 menu includes chicken noodle soup, fried chicken, baked chicken, barbecue spare ribs, simmered pig feet, pinto beans with ham hocks, turnip greens, fried rice, oven brown potatoes, chicken gravy, cornbread, peach cobbler, banana pudding, assorted salads, assorted desserts, assorted beverages and the standard short-order menu.

Special Olympics

The Huntsville/Madison County Special Olympics Program has been established to give the mentally and physically handicapped a chance to develop their skills, experience success, and grow both physically and mentally through an organized program of physical fitness. Army Community Service Exceptional Family Member Program (EFMP) is coordinating support efforts at Redstone Arsenal. Volunteers are needed. A bowling event will be held March 1. A track and field event has been scheduled for April 18. If interested in volunteering or for more information, call Frances Howard at Army Community Service 876-2859/5397.

Retired officers

Huntsville Chapter for The Retired Officers Association is to meet at 11 today for a buffet luncheon at the Officers Club. Capt. Larry Loomis, chief of the physical therapy section at Fox Army Community Hospital, is to speak on "physical fitness and your well-being."

Arts and crafts fest

The annual Spring Arts and Crafts Fest will be held March 1-3 at the Parkway City Mall. Hours will be 10 a.m. to 9 p.m. March 1 and March 2; and 12:30-6 p.m. March 3. Part of the proceeds will benefit local charities. For more information call Joyce Totherow, chairperson, 837-3341.

Self-Help news

In accordance with the Letter of Instruction, Directorate of Engineering and Housing, Expanded Self-Help Center, March 1, 1990, all work accomplished under the Expanded Self-Help Program must be inspected upon completion. After the completion of a project, the family housing sponsors, building custodians or company commanders should call Tim Summers, chief of work management branch, at 876-3835 for inspection. *Attention family housing occupants:* Prior to Feb. 12, lawn mowers were issued from and turned in at building 3653. Effective immediately, all lawn mowers will be issued or turned in at building 3500, the Self-Help Store.

Found property

An athletic equipment bag has been found. The owner should contact the Provost Marshal Office, Investigations Branch, building 3649, phone 876-3449.

Travel film

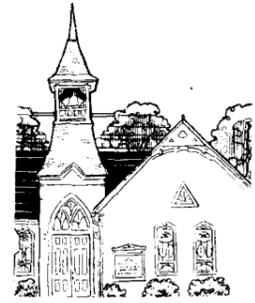
Huntsville Kiwanis Club invites you to its 27th year of "Travel and Adventure Series," motion pictures narrated in person by world travelers. The next film, "Canada — Sunrise to Sunset," will be presented 7:30 p.m. March 5 at the Huntsville High School Auditorium. Admission is \$4. Discounted season tickets are available. For more information, call 539-2817.

Contract managers

The Huntsville Chapter, National Contract Management Association will meet Feb. 28 at the Officers Club. Registration will begin at 11:15 a.m., with lunch at 11:30. Scheduled speaker is Barbara Duncombe who practices law for the Washington, D.C., firm of Vorys, Sater, Seymour & Pease, and specializes in government contract and construction law. Cost of the luncheon is \$7. For reservations, call 536-1527.

Grissom High grads

The Grissom High School Class of 1976 will hold its 15th annual reunion in Huntsville June 22. A picnic will be held from 11 a.m. to 3 p.m. at Ditto Landing Marina Pavilion; and that evening, a program and social will take place at the Huntsville Hilton Hotel. Classmates and relatives of Class of 1976 graduates are encouraged to call Mike Pope 882-3062 or Debbie Smith Roderick 880-1561 for more information.



Chapel events

Protestant Women of the Chapel will meet 7 p.m. Feb. 28 at Bicenennial Chapel. Scheduled speaker is Chessie Harris, founder of Harris Home for Children. For more information, call 837-1067. A service for *World Day of Prayer* will be held 10 a.m. March 1 at Bicenennial Chapel. This will be a combined service for Protestant Women of the Chapel and the Military Council of Catholic Women. The Rev. Frank Broyles, director of campus ministries at UAH and minister of church and community at Faith Presbyterian Church, is to speak on "Linking World Peace and Intercessory." Lunch will be provided immediately following the service. For more information, call 876-5707.



Road races

UAH Spring Road Race 10K (6.2 mile) will be held 2 p.m. Sunday, March 3 on the campus of the University of Alabama-Huntsville. Registration will be conducted from 1-2 that afternoon. The race begins and ends at Spragins Hall. Cost is \$2 for adults, \$1 for students. For information, call Bobby Johnson 837-4222. The 18th annual *Rocket Run* road races 10-mile and 5K will be held March 30 at Pagano Gym on post. The 10-mile begins at 8 a.m., and the 5K starts at 9:45. Entry fee is \$3 for either race or \$5 for both. For more information, call Jim Upton 544-2945.

Post Theater movies

Thursday — *Three Men and a Little Lady*, rated PG, 100 minutes. Friday — *Havana, R.*, 144 minutes. Saturday — *Kindergarten Cop*, PG-13, 104 minutes. Sunday — *Kindergarten Cop*. Tuesday — *Not Without My Daughter*, PG-13, 114 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

OWC donations

Officers Wives Club is accepting requests from charitable organizations for financial assistance. Written requests outlining ongoing programs and reasons for financial assistance should be mailed to Patricia Girlando, 32 Ripley Drive, Redstone Arsenal 35808. Requests should be received by March 15.



Learning center

The Army Learning Center (ALC) System offers the following computer-based courses: Algebra, Precalculus and Calculus I. These courses are self-paced and recommended for college credit by the American Council on Education. For more information on these and other courses, call 876-9416/1416.

Troop all-star game

The East-West All Star basketball game, pitting the best players from the Eastern Conference against the best of the West, will be held 7 p.m. Friday, March 1 at Pagano Gym. Everyone is welcome to attend. For more information, call Joe Reed 876-7969.



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FOR SALE: Oval shaped dinette table, 60"x40", with 4 swivel chairs, \$150. Call 837-1967.

FOR SALE: 1984 Chevy Camaro. Black with gold trim and Riken wheels. Air, power brakes and steering, automatic transmission. All manuals/maintenance record book. Extremely clean, no rust. Everything works. \$2850. Call 880-0519 anytime.

FOR SALE: All terrain bicycle, 18 speed. Cost \$579, will take \$250. Call 837-4130 ext. 3303.

FOR SALE: One bedroom set, cream color. Includes headboard, box spring and frame, chest, dresser with mirror. All in good condition. Asking \$280. Call Lisa, 880-7464.

FOR SALE: 1989 Chevy S10 Tahoe extended cab truck. White, 5 speed, V6 (2.8L), low miles, well cared for. Call Gunterville, 582-6738. \$9700 or best offer.

FOR SALE: Queen size sofa-bed with matching chair, autumn floral design, \$200. Single bed with box spring with matching dresser, white, \$150. Call 772-8946 after 5 p.m.

FOR SALE: 1986 Toyota Tercel. 2 door w/tilt wheel, 4 speed stick, front wheel drive. Air conditioner, am/fm cassette. Good condition, great second car, low mileage. \$2500. Call 772-8946 after 5 p.m.

FOR SALE: 3' square smokey grey lucite coffee table, \$30; 1 maple end table, \$26.50; 35" square antique lamp table, \$135; 2 blonde mahogany end tables, \$65 for the pair; Box springs and mattress with frame, new, \$175; Electric organ, cost \$398, will take \$110. Call 536-4718.

FOR SALE: Sony compact disc single player. Works perfect, looks perfect, is perfect. Manual and hook-up cable included. \$60. Call 881-7764 evenings.

FOR SALE: Furniture. Sofa and matching love seat. Dark tan with very narrow pinstriping. Wood trim along front of armrests and base. Very pretty, like new, hardly used, no stains, very clean, very comfortable. \$400 for set. Call 830-8070. If no answer is message.

FOR SALE: 1986 Honda Nighthawk motorcycle. Blue, bought new in 1987, new tire on rear. Tuned up every year, helmet included. \$1000. 615-433-3023.

FOR SALE: 1984 Ford Ranger pickup with cap. One owner, 4 speed stick, air, am/fm cassette, very clean, excellent condition. \$2200 or best offer. Call 830-9151.

FOR SALE: 1985 Ford E-150 conversion van, 61K miles, color tv, am/fm cassette stereo, CB, new tires, \$8900, 828-1357 after 6 p.m. on weekdays, all day on the weekend.

FOR SALE: 1987 Chevy Spectrum CL 4 door, automatic, air, am/fm cassette, cruise control, tilt wheel. In excellent condition with 60K miles. Book value \$3600, asking \$3200. Can be seen at Bldg. 3708 or call 1-728-2675 after 6 p.m.

FOR SALE: 1972 127hp Evinrude boat engine. Good condition. Can hear run. \$1100. 837-8984.

WANTED: Champion juicer; Town Craft or Salad Master electric skillet; Town Craft or Salad Master baking pans, sheets, etc.; Bosch grain grinder or magic mill; Bosch or Kitchen Aid bread mixer; Equal-Flow dehydrator or Harvest Maid dehydrator. All items must be in super working condition and must be reasonably priced. Call 232-6074.

FOR SALE: Skateboard. Pro-vision Gator (neon street) comes with Gullwing street shadow trucks, Slammer street wheels with Swiss bearings, Schmitt stix rails and clear grip tape. Mint condition, used very little. Price \$75. Call 232-6074.

FOR SALE: King size dark wood waterbed frame with lighted bookcase headboard. Good condition. Liner, heater and all needed except mattress. \$100 or best offer. 882-3705.

FREE TO GOOD HOME: Medium sized puppy, about 9 months, has had all shots, friendly and playful. Basset Hound/Dachshund mix. Call 534-2054.

FOR SALE: 1985 Ford Escort. 2 door, 4 speed, retail \$1150, sell for \$1100 or best offer. Call 728-4184 after 4 p.m.

FOR SALE: Antique white triple dresser, \$100; Antique white twin bedframe with boxspring, \$50. Call 498-3788 after 4 p.m.

GRACE LUTHERAN SCHOOL OPEN HOUSE

Monday, March 4th 8:30-11:00 a.m.
Wednesday, March 6th 8:10-11:00 a.m.

4 Year Old — 5 Day Program
Kindergarten — 5 Day Program
FIRST THRU EIGHTH GRADE
AFTER SCHOOL CHILD CARE

Location: Parkway between Drake & Airport
CALL 881-0553

FOR SALE: Carpet, 18'x12', beige-light brown color, new, left over from carpeting house. Excellent buy, bought direct from carpet factory in Dalton, Georgia. Selling at cost. Call 882-1477.

FOR SALE: Adorable and affectionate AKC Cocker Spaniel puppy. 4 months old, buff, female, all shots. \$175. 881-6681.

FOR SALE: 1985 1/2 Ford Escort. Blue, 2 door hatchback (shutters), 5 speed, air, am/fm cassette, cruise, 63,000 miles, new Dunlop Interceptor tires, excellent car. \$2500. 881-6681/882-3730.

FOR SALE: 1986 Honda Nighthawk 350 motorcycle. Red, 5800 miles, needs tires. Excellent bike, \$900. 881-6681/882-3730.

FOR SALE: 1988 Beretta GT. Extra nice car, power steering, tilt wheel, air conditioning, cruise control, am/fm cassette, \$5700 negotiable. 536-8537 or 533-7681 and leave message.

FOR SALE: 1989 Subaru. Light blue with tinted windows, low mileage, power windows, centralized locking system, automatic and in excellent condition. Must see! Selling for \$7395. Call 830-5333 anytime.

FOR SALE: Buick's answer to the Mercedes sport coupe, 1988 Reatta sport coupe. Red, grey interior, new Michelin tires, must see - need larger car. 430-0777 after 6 p.m.

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OPEN LEASE
WEEKLY OR MONTHLY
1-BEDROOM FURNISHED
\$305 AND UP
Across from Space Center
Gate 9 — Rideout Rd.

TARA GARDENS APT.
6405 Old Madison Pike
830-4878 or 837-0486

FOR SALE: 1981 Chevette, needs some work. 1987 Nissan King Cab truck, loaded. Call 350-7722 and leave message.

FOR SALE: Boat and motor. Baker RST 20', tunnel hull, California style runabout, hydraulic jack plate, hot foot, all gauges, seals 7, black with 7 shade blue striping. 1990 limited edition 200 hp Evinrude, nose cone, low water pickup, 3 year factory warranty. Tanuom axle trailer, excellent condition. 85 plus mph. Must sell, \$25,000 new, sell for \$13,000. 882-9171.

FOR SALE: 1985 Eldorado. One owner, clean and in excellent condition. Asking \$8300. Must see and drive to appreciate. Call 859-4023.

FOR SALE: Baldwin console piano, \$1495; Ethan Allen chest/bookcase, \$200; Trays, \$125; French antique white bedroom pieces, \$300; Armchair, \$495; Camelback trunk, \$125; Dry sink, \$150; French light cherry coffee table, \$75 and end table, \$50; Sewing machine, \$35; Desk, \$35; Lawn mower, \$75; Old 78 rpm records; Gold brocade living room chairs, \$75 each. 881-1718.

FOR SALE OR TRADE: Tenor Yamaha saxophone, includes case. Good condition, bought new in 1986. \$500 or trade for something. (615) 433-1337.

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600 Oakwood Avenue

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The "Patriot" vs. "Scud" watches. The "Scud" is blown up in mid-air by the "Patriot" missile. (The Scud is flying around the watch.) This 14K Gold plated metal case watch comes in 2 qualities: Quartz and Mechanical, and 2 sizes: men's and smaller size for ladies and children, with genuine leather band. \$39.95 plus shipping and handling (\$3.00) Call 852-7874 after 4:30 p.m.

A Real Bargain At \$59,900!

3 or 4 bedroom Brick Home with 1 1/2 bath, Den, Country Kitchen, Living Room, Plenty of Closet Space, 1,625 sq. ft. of living space. 2 out buildings, large fenced back yard. A great place to raise kids - excellent school district. 15 minutes from Redstone Arsenal (6 miles east of the city of Madison). Call for appointment (must see to appreciate). Don't let this great bargain slip by. 883-6623.

FOR SALE

1984 14x70 Mobile Home. 3 bedroom with appliances. Large fenced lot. Large decks. Nice area near arsenal. Many extras. Excellent condition. Must see. Asking \$12,000. 880-0613.

FOR SALE: 1980 Chevette. Runs good. Automatic transmission. See at "Park and Sell Your Own" car lot, corner of Drake and Parkway. \$500. 536-6161.

American Red Cross
Blood Services, Alabama Region

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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Havoline Motor Oil
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Performance Proven
Helps Keep Engines Clean

In-Store Price99
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HAVOLINE Oil
79c
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Limit 12.
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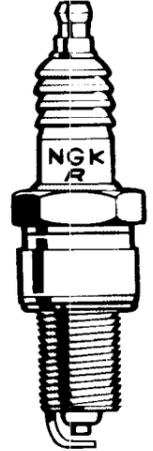
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Mail-In Rebate1.50

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FRAM Wearguard OIL FILTER
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FRAM Oil Filters
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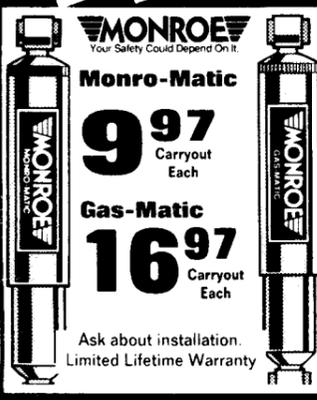
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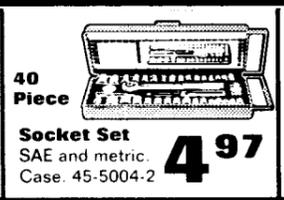
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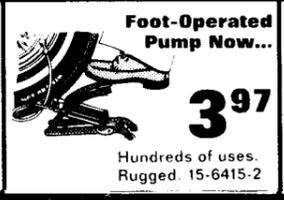
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2 in. or 1 1/2 in.
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35,000 MILE Deluxe All-Season
4 TIRES FOR \$59
FOR P155/80R13

SIZE	EACH	SET/4
P155/80R13	14.75	\$59
P165/80R13	19.75	79
P175/80R13	20.75	83
P185/80R13	21.75	87
P185/75R14	24.75	99
P195/75R14	25.75	103
P205/75R14	26.75	107
P205/75R15	31.75	127
P215/75R15	32.75	131
P225/75R15	33.75	135
P235/75R15	34.75	139

16-8600 series

45,000 MILE All-Season Radial
4 TIRES FOR \$79
FOR P155/80R13

SIZE	EACH	SET/4
P155/80R13	19.75	\$79
P165/80R13	24.75	99
P175/80R13	25.75	103
P185/80R13	26.75	107
P185/75R14	28.75	115
P195/75R14	30.75	123
P205/75R14	31.75	127
P215/75R14	33.75	135
P205/75R15	36.75	147
P215/75R15	37.75	151
P225/75R15	38.75	155
P235/75R15	39.75	159

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50,000 MILE ALL-SEASON
4 TIRES FOR \$99
FOR 155/80R13

SIZE	E.D.I.P.	CLEARANCE
155-13	28.75	24.75
165-13	31.75	29.75
175-13	33.75	30.75
185-13	35.75	31.75
185-14	37.75	34.75
195-14	38.75	35.75
205-14	40.75	38.75
215-14	41.75	38.75
205-15	42.75	41.75
215-15	43.75	42.75
225-15	46.75	43.75
235-15	47.75	44.75

16-8950 SERIES

60,000 MILE Ultra 775 All-Season
4 TIRES FOR \$119
FOR P155/80R13

SIZE	EACH	SET/4
P155/80R13	29.75	\$119
P165/80R13	34.75	139
P175/80R13	35.75	143
P185/80R13	36.75	147
P185/75R14	39.75	159
P195/75R14	40.75	163
P205/75R14	41.75	167
P215/75R14	43.75	175
P205/75R15	46.75	187
P215/75R15	47.75	191
P225/75R15	48.75	195
P235/75R15	49.75	199

16-9100 series

0% INTEREST FOR 90 DAYS... APPROVED \$200 TOTAL CHARGE TIRE PURCHASE.

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Ultra 770 All-Season Radial 65,000 MILE

P175/70SR13	45.75
P185/70SR13	46.75
P195/70SR13	48.75
P185/70SR14	49.75
P195/70SR14	51.75
P205/70SR14	54.75
P215/70SR14	55.75
P215/70SR15	58.75
P225/70SR15	60.75
P235/70SR15	61.75

16-9200 series

COMPACT/METRIC RADIALS

PICK YOUR MILEAGE	30,000 MILE	50,000 MILE	60,000 MILE
155/SR12	19.97	—	29.97
155/SR13	24.75	29.75	34.75
165/SR13	26.75	31.75	36.75
175/SR14	—	33.75	38.75
185/SR14	—	35.75	40.75
165/SR15	—	—	39.75
175/70TR13	29.75*	34.75	39.75
185/70TR13	31.75*	36.75	41.75
185/70TR14	33.75*	38.75	43.75
195/70TR14	—	40.75	45.75
205/70TR14	—	42.75	47.75
	5700	9700	9750

Western Auto
Performance Radial GT All-Season 40,000 MILE RWL

P175/70SR13	43.97
P205/70SR14	54.97
P215/70SR14	55.97
P225/70SR14	61.97
P225/70SR15	61.97
P235/70SR15	63.97
P205/60SR13	49.97
P235/60SR14	59.97
P215/65SR15	61.97
P235/60SR15	62.97
P255/60SR15	69.97
P275/60SR15	71.97

16-9300 series

Western Auto
Performance GTH H-Speed Rated 35,000 MILE

P185/60HR14	60.97
P195/60HR14	63.97
P215/60HR14	65.97
P195/60HR15	65.97
P205/60HR15	67.97
P215/60HR15	68.97
P215/65HR15	72.97

16-9300 series

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Tread Design	Tire Size	Stock No.	Price
All-Terrain	L7235/75R15	18-9101-9	79.97
All-Terrain	30x9.50R15	18-9102-7	84.97
All-Terrain	31x10.50R15	18-9123-3	89.97
All-Season	P235/75R15XL	18-8016-0	64.97
Highway Bias	7.50x16TT	18-7018-7	50.97
Highway Bias	7.00x15TT	18-7012-0	42.97
Highway Bias	8.75x16.5	18-7074-0	52.97
Highway Bias	H78-15	18-7016-1	50.97
Highway Bias	9.50x16.5	18-7077-3	58.97
Traction Bias	L78-15	18-9017-7	54.97

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Western Auto
We reserve the right to limit quantities. All rebates offers subject to manufacturer's limits, requirements.