

Redstone Rocket

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Government plays lead role in metric conversion

BY SKIP VAUGHN

The metric system hasn't gone away despite the many Americans who continue to cling to the inch-pound measurements they learned in school.

The U.S. is among the few nations worldwide that don't exclusively use metrics as their system of measurement. But that may change before long. The government has taken the lead by instructing its agencies to convert to metrics by 1992.

Redstone Scientific Information Center is helping with the conversion effort by compiling a bibliography on metrication. This 89-page manual is a listing of metric publications which can be found in RSIC, the massive technical library on post.

"The final bibliography contains 450 citations on metrication dated from January 1977 through July 1989," said Martha Knott, a RSIC librarian. Completed in August the bibliography includes sections for books, conference proceedings, documents, periodicals/serials, newspapers, standards, and an author index. A subject index can be found at the end of each section.

The effort began when the library was approached by Ernst Lange, a local resident who in 1976 compiled his own bibliography on metrics, and John Aberg of Marshall Space Flight Center. They wanted to update Lange's manuscript which he had originally compiled from his handwritten notes. "With today's technology, if we already have it in machine-readable format, we just have to rearrange it and edit, so why retype this all again?" Knott said. "So I told him, we have this capability."

The result was a machine-generated bibliography of works available at RSIC. "We used a total of four software packages," Knott said. "This allows us the capability of updating the bibliography as new information comes in."

C. Ray Smith and M. Beth Powel, two science teachers from Grissom High School, worked on the bibliography while working at RSIC under the summer employment program for science and math teachers.

"The Army and NASA both are involved in changing to metric by 1992, so we wanted to do something that would aid Army, NASA and their contractors in doing this. That really was the basis for us doing the bibliography," Knott said. "We used our in-house scientific experts in choosing the citations that went into the bibliography." Assistance also came from Lange and Aberg; and the manual was reviewed through correspondence with John Tascher, staff engineer of the Defense Quality and Standardization Office at Falls Church, Va., and with Valerie Antoine, executive director of the U.S. Metric Association in Northridge, Calif.

Each member of the Metric Association board was contacted along with the American National Metric Council and other countries which already use metrics. "There's only three countries that have not gone totally metric: United States, Burma and Liberia," Knott said.



IN LIBRARY — Discussing the bibliography on metrication at RSIC are, from left, Martha Knott, Helen Boggs and Glenda Rogers.

Assistance also came from Jerry Nabors, chief of the technical data management division in the Systems Engineering and Production Directorate. The standardization group in that division is involved in converting Missile Command weapon systems to metrics.

"We've been involved in trying to get metrication into specifications and standards and into weapon system design," said Glenda Rogers, an engineering technician in the standardization group. "What we're trying to do is look at our specifications and standards that we at MICOM prepare. A lot of what we have now is inch-pound, and we're trying to look at each one to decide which ones may be converted to metric and we're trying to do those conversions."

This is being done on a five-year cycle, according to Helen Boggs, engineering technician supervisor. Every year, the group gets a listing of specifications and standards which are due for their five-year review. "And at that time we look and see if they need to be metricated," Boggs said.

So far, about six weapon systems are completely metric. Often the group has determined that metric equivalents are acceptable or that dual dimensions can be used. "We have some documents that are pure metric and we are getting a whole lot more of those," Rogers said. Systems that use only metrics include Multiple Launch Rocket System, Hellfire, Army Tactical Missile System, Advanced Antitank Weapon System-Medium, Follow-on to Lance, and Multipurpose Individual Munition.

Here are 10 reasons for using metric

- Use of metric-dimensioned products would improve exports and reduce the balance of trade deficit.
- As a result of increased sales of U.S. products in world markets, metric use would save or create American jobs.
- It costs more to operate in two measurement systems.
- Metric is the world standard; its use would result in a single language of communications and measurement.
- Metric is a decimal system; it's easier and simpler to use.
- Using metric's whole numbers would improve industrial efficiency.
- Metric already is used extensively in the U.S. and almost exclusively and universally outside the U.S.
- Teaching only one — the metric — system would improve educational efficiency.
- With its whole numbers, metric use improves engineering efficiency and accuracy with fewer errors.
- Use of a single measurement system would improve industrial safety.

Editor's note: The source was the Metric Reporter.

Army civilians can expect paychecks on Thursdays

Starting Oct. 19, Army civilian workers here can expect to get their checks on Thursday which is the official payday.

The payday is not being changed but checks have often been arriving at homes or banks earlier in the week, like on Tuesdays or Wednesdays. With the implementation of the Electronic Funds Transfer system, those with direct deposit will have their accounts updated on Thursday morning and those who get their checks in the mail can expect to receive them on Thursday.

"The payday's always been Thursday, whether they knew it or not. It's just that some institutions made their money available to them before Thursday," said Harold Jacobs, a systems accountant in the systems

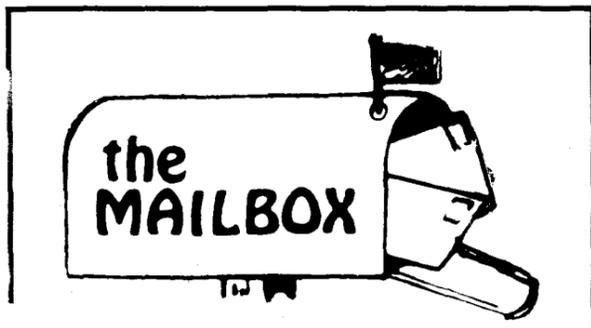
Workers interested in having their money transferred electronically to a bank, rather than having their checks mailed to their home, can fill out a direct deposit form — standard form 1199A — at the bank of their choice.

management office of Resource Management Directorate. "Their money won't be available before Thursday whereas under the previous arrangement it could've been available on Tuesday or Wednesday possibly."

Funds for the pay period ending Oct. 7 will be directly deposited into the workers' account at opening of business Thursday, Oct. 19.

Advantages of Electronic Funds Transfer include a reduction in the number of checks printed, and guaranteed direct deposit on payday. In the past, a composite check had to be written to the financial institution to cover all of the workers who had direct deposit with that bank. Under EFT, all those with direct deposit will go on one tape to the Federal Reserve Branch Bank in Birmingham which in turn will automatically distribute the money to the various banks. Distribution will be based on a routing transit number which is unique to a specific bank.

(See Payday, cont'd on page 2)



Smoking ban

Editor:

On Jan. 1, 1990 there will be no more smoking allowed in government buildings. It doesn't matter that we pay extra taxes for the privilege of smoking. I might also add that these extra taxes help pay for these government buildings. We know that non-smokers have their areas. We have rights too.

Now we as smokers will have to go to our cars to smoke. As it is now, we do not have the time to take 15-minute breaks in the morning and in the afternoon because of the patient workload and staff shortages. But if we are in a smoking breakroom, we can at least hear our page if we are needed.

They say that red meats can cause high cholesterol, and caffeine and sweets are not good for you. Will they next make the decision for us that we can't eat or drink these items in a government building?

Is this the U.S.A., the country with all that freedom of choice?

Belinda Ricks

New contractor

Editor:

BAMSI Inc. welcomes the opportunity to be your new installation support services contractor at Redstone Arsenal. We intend to be a vibrant part of the Redstone community and we want to be totally responsive to all your needs and concerns. Toward this end we have established a 24 hour hotline number to provide management level responses to any questions you may have. The number you may call is 837-5105. BAMSI hopes this service will be beneficial to its new employees and the Redstone Arsenal community.

Charles F. Green
Contracts manager

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.

THE REDSTONE ROCKET

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Departing commander's wife enjoyed Redstone tour

The Officers Wives Club said goodbye to Sheila Cianciolo on Thursday afternoon at the Officers Club.

About 125 ladies attended the farewell tea held in honor of the wife of the departing commander of the Missile Command and Redstone Arsenal.

"It's very bittersweet," Cianciolo said, when asked how she felt about leaving Redstone. "This has probably been one of the happiest years of my life. Although I'm happy to go back to Washington, I'm

kind of sad to leave. It's a very special place. I guess I can say my heart is here."

The Cianciolos were here a little over a year. They were also at Redstone in 1982 and '83.

Their married daughter, Teresa, and grandson, live in Ohio. Their son Anthony is a student at Ohio State. Their other son, Marty, was in a nursing home here as the result of a traffic accident. He went to Washington with his parents. "He's received tremendous love and support from the Huntsville community," Cianciolo said.



FAREWELL TEA — From left are Alma Huston, first vice president of the Officers Wives Club; Jennifer Hames, second vice president; Sheila Cianciolo; and Joan Johnson, president.

Payday

(Cont'd from page 1)

"We'd encourage everybody to use direct deposit because of the number of checks that we wouldn't have to print," Jacobs said. "We're having to print probably 3,500 to 4,000 checks. That's what the Treasury Department is trying to do: reduce the number of checks that have to be printed."

Army civilian pay here is just the start, according to Jacobs. He said the Electronic Funds Transfer system will eventually cover commercial vendors checks. Those implementing EFT include the civilian payroll

section, led by Carolyn Hames, and the disbursing office, led by Elaine Grimes.

Workers interested in having their money transferred electronically to a bank, rather than having their checks mailed to their home, can fill out a direct deposit form — standard form 1199A — at the bank of their choice.

The Army civilian paydays for the remainder of 1989 include the following: Oct. 19, Nov. 2, Nov. 16, Nov. 30, Dec. 14 and Dec. 28.

Nominations due for outstanding families

October is the month to nominate local families for Great American Family Awards.

Redstone Arsenal will recognize three families during Thanksgiving week in November, and nominations will be accepted until Oct. 30.

"Nominated families can be active military, retired or DOD civilians," said Virginia Dempsey of Army Community Service. "They can be couples or single parents with children, either their own or foster-care kids."

Dempsey, outreach program manager at ACS, is coordinating this year's award program along with Dan Kelly, the consumer affairs/financial planning program manager. Nomination packets are available at Army Community Service, building 3491. Dempsey can be reached at 876-2859.

This is the eighth year Redstone Arsenal has participated in the Great American Family Awards Program, a national effort organized by the American Family Society in cooperation with other organizations. The objectives of the program include giving communities an opportunity to express appreciation to their outstanding families during the week of Thanksgiving, and honoring a varied group of families who bring commitment and stability to their communities and to the nation.

"Families who are nominated should be those that contribute significantly to the community and demonstrate exemplary values, character and willingness to be involved," Dempsey said. "They must be examples to others, and show a firm capacity to overcome difficulty."

Hispanic Heritage Month to close with ceremony

Redstone's closing ceremony in commemoration of National Hispanic Heritage Month will be held Saturday, Oct. 14 from 1-3 p.m.

The procession will assemble in the parking lot of the Bicentennial Chapel and proceed across Goss Road to Nike, left on Lacrosse, across Vincent Road to the shaded area between the First Alabama Bank parking lot and the Post Exchange Service Station. The ceremony will take place at that site.

A float displaying flags of the 19 countries representing Hispanic-Americans will lead the procession of about 70 participants on foot.

The Redstone Arsenal and Huntsville military and civilian communities are cordially invited, says Barbara Alexander of the Missile Command's Equal Employment Opportunity Office.

Chen pledges to do his best as new commander

BY SKIP VAUGHN

The new commander of the Missile Command and Redstone Arsenal has promised to do his best to accomplish the MICOM mission.

"I pledge to you I will do my best to accomplish the objectives of the Army Missile Command and support the program acquisition executives," Maj. Gen. William Chen said. He assumed command Friday afternoon at a change of command ceremony held in front of the headquarters building.

Chen told those in attendance that MICOM's reputation for excellence is "based upon the people and the quality of its workforce."

"It's great to be back in the Army Missile Command for my fifth assignment at AMC (Army Materiel Command) and for my fourth tour at MICOM," Chen said.

Gen. William Tuttle, commander of the Army Materiel Command, served as reviewing officer in the ceremony in which Chen succeeded Maj. Gen. Gus Cianciolo as commander. Cianciolo was promoted to lieutenant general during the ceremony. He is leaving to assume new duties as deputy commanding general for research, development and acquisition at AMC in Alexandria, Va.

"It's obvious that the strength of both the Missile Command and Redstone Arsenal rests in its people — past, present and future," Cianciolo said. He thanked the Huntsville community for its support during the 15 months of his command here.

"This is a community where soldiers are made to feel at home and I believe personally it's the finest relationship between the military community and civilian community of anywhere in the world," said Cianciolo.

He wished "the best of luck" to the new commander. "You have certainly taken command of a gem organization in a perfect community and I'm sure they'll render to you every support they have me," he said, "and I'm sure you'll take it and make it even better."



COMMAND CHANGE — From left are Tuttle, Cianciolo and Chen. CSM Isaac Clifton is at far right.

Sheila Cianciolo, the general's wife, received the Outstanding Civilian Service Award for her work in the Redstone community.

Tuttle thanked the Cianciolos for "the superb job they've done here at MICOM." He told Chen, "I

know you will build upon the successes of the past year."

Near the end of the ceremony, a helicopter unfurled a flag with three stars in honor of Cianciolo's promotion to lieutenant general.

Strategic defense deputy commander and wife honored

BY MARSHA TAYLOR

Brig. Gen. Robert L. Stewart, deputy commander of U.S. Army Strategic Defense Command, and his wife, Mary, were honored in ceremonies at the command's Research Park office last week.

Lt. Gen. Robert D. Hammond, USASDC commander, presented Stewart the Legion of Merit, first oak leaf cluster, in recognition of Stewart's "superior performance of duty and exceptional leadership" as deputy commander from July 1987 to October 1989. Stewart is expected to leave USASDC sometime in October to become the director of J-5 (Plans) at United States Space Command in Colorado.

Maj. Gen. August M. Cianciolo, commander of the Missile Command, presented a Certificate of Appreciation for Patriotic Civilian Service to Mary Stewart for her service in the Redstone Arsenal community. She was cited for giving "her time and effort unselfishly to elevating the stature of the military professional." During her husband's tour of duty at USASDC, Mary Stewart has served actively as honorary chairman of the Army Community Service, and worked to improve morale of soldiers and their families.

As USASDC deputy commander, Stewart has directed the activities of the command's more than 1,100 military and civilian employees in Huntsville and (See Deputy, cont'd on page 10)



FOR COMMUNITY SERVICE — Cianciolo presents to Mary Stewart an award for Patriotic Civilian Service while Brig. Gen. Stewart looks on.



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School commandant and staff tour Civil War battlefield

BY MARIANNE CLINEDINST

Col. Jim Griffin, commandant of Ordnance Missile and Munitions Center and School, recently went on a staff ride to Stones River National Battlefield in Murfreesboro, Tenn.

About 41 soldiers from the commandant's staff, and the Advanced and Basic Noncommissioned Officer's Courses, accompanied the commandant.

The tour of the battlefield began with a classroom lecture on Stones River. Stones River was a Civil War battlefield from Dec. 31, 1862 through Jan. 2, 1863. William Rosecrans commanded the Union forces, who were victorious in the battle, while Braxton Bragg took command of the Confederate soldiers.

A large part of the tour consisted of visiting different sites on the battlefield. A musket and cannon demonstration was included in this part of the tour.

After the staff ride across the battlefield, the commandant presented all of the volunteers at Stones River with certificates of appreciation.

The tour was completed with an after-action review, giving soldiers in the group a chance to discuss what they learned. It also gave them a chance to voice their opinion about how both sides could have done a better job and how the Army has advanced since the Civil War.

Summing up his reflections about the tour Griffin said, "There is an old quote: Those who do not study history are destined to repeat it."



CANNON FIRING — Volunteers, in Civil War uniforms, give a cannon demonstration during the commandant's staff ride at Stones River National Battlefield.

Family action symposium delegates get update on issues

BY PAM ROGERS

Delegates to Redstone's second Family Action Symposium had a chance Wednesday to find out what is being done about the 94 quality-of-life issues which were identified during the May event.

Subject matter experts from the areas in which the most issues arose were present to brief the audience. They were: Bob Brown, Morale, Welfare and Recreation; Dave Branham, Engineering and Housing; Lt. Col. Karl Snyder, Medical Department Activity; Rita Doerner, Army and Air Force Exchange Service; and Herman Wainwright, Commissary. Representatives from other areas formed a panel which answered questions from the audience.

Sue Paddock, action officer for the symposium, said that of the 94 issues, 22 were already in the process of resolution before they were brought up at the symposium. Five issues, all medical/dental related,

have been forwarded to higher headquarters for consideration. Thirty-one issues have been implemented since the May meeting, 27 are still under study at the local level, and 10 were determined to be infeasible. This breakout totals 95 because one issue had two parts, one of which was forwarded to higher headquarters, and one which is being considered locally, she explained.

All the issues, along with the current status of each, have been published in the Redstone Arsenal Family Action Plan II. Each issue was listed, along with a proposed solution and with the progress that has been made on each.

For example, dissatisfaction was expressed with the way plants and shrubs are distributed within the housing area. It was suggested that the items only be distributed to authorized individuals, and that a

scheduled time for pickup be established. The Directorate of Engineering and Housing has noted the problem and intends to develop stricter controls the next time people in the family housing area are given shrubs.

Another issue which came up in the May meeting concerned poor quality produce offered for sale at the commissary. A representative from the Defense Supply Office in Birmingham briefed the audience on the way the Army buys produce, assuring them that everything is of the highest quality. One member of the audience pointed out that lettuce was already wilted early in the morning, and that the problem was not so much with quality as with freshness.

Anyone interested in reading the Family Action Plan II can pick up a copy from Paddock at Army Community Service in building 3491.

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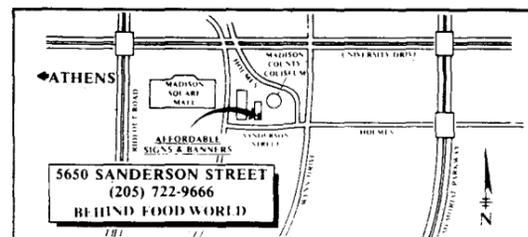
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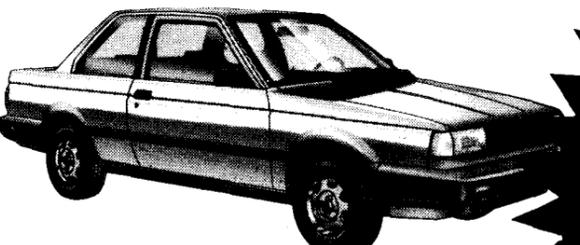
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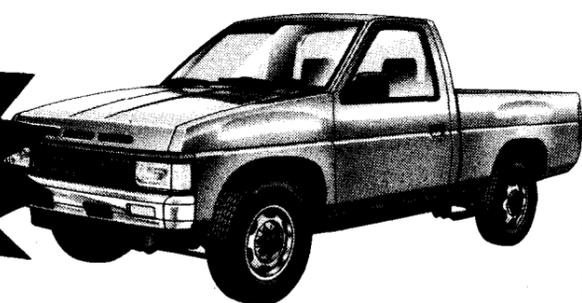
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Space exploration forum set

Space pioneers and promoters will discuss man's push "Into Other Worlds" Oct. 25 at the third biennial Dr. Wernher von Braun Exploration Forum.

President Bush's recent announcement of future space exploration sets America's sights on a continuing path of movement forward into the solar system. Some of America's earliest plans for colonizing the moon were developed at the old Army Ballistic Missile Agency under Project Horizon in the 1950s before NASA was born. NASA's launches this year to Venus and Jupiter and its flyby of Neptune are crucial elements of this outward expansion furnishing the early detailed information on the other worlds which man may one day visit and inhabit.

Featured speakers at the forum will be Gentry Lee, co-creator of the "Cosmos" television series and veteran of the planetary exploration program; Lee Greenwood, a singer and active supporter of space and education; and

Georg von Tiesenhausen, a member of the von Braun rocket team.

"Into Other Worlds" is free and open to the public. It will start at 8 p.m. in the concert hall of the Von Braun Civic Center.

The National Space Club's second annual Dr. Wernher von Braun Scholarship and Awards Dinner will be held before the forum. The National Space Club was founded in 1957 to advance U.S. leadership in rocketry and space flight. The Huntsville chapter was established in 1984 and last year initiated the annual awards dinner.

This year's dinner will feature the Von Braun Space Flight Award — given in 1988 to J.R. Thompson, director of Marshall Space Flight Center — and the Von Braun Scholarship.

The banquet is black tie or military equivalent. The social hour will be held 5:30-6:30 p.m., and the dinner will be held 6:30-8 p.m. Tickets are \$55 each and may be purchased by contacting UAH's Division of Continuing Education at 895-6010 by Oct. 20.

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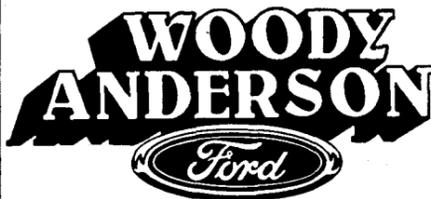
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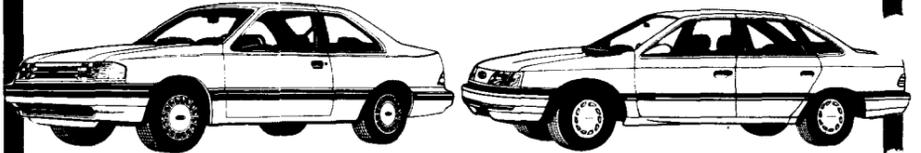
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Fox Hospital conducts health education survey

In preparation for beginning health education programs, Fox Army Community Hospital is conducting a survey of educational needs in the military community, active duty and retired.

Readers are asked to answer the following questions and return or mail their responses to the Medical Clinic, Fox Army Community Hospital, building 4100, Attn: Annie Bass Friend, R.N., head nurse medical clinic. She can be reached at 876-8483/6682.

Clinic hours are 8 a.m. to noon and 1-4:30 p.m. Monday through Friday. The deadline for responses to the health education survey is Nov. 15.

1. Name _____

Address _____

Phone: Home _____ Work _____

2. Do you have history of:
- | | | |
|------------------------|-----|----|
| A. High blood pressure | Yes | No |
| B. Diabetes | Yes | No |
| C. High cholesterol | Yes | No |
| D. Cigarette smoking | Yes | No |
| E. Low back pain | Yes | No |
3. Would you be interested in an education program about:
- | | | |
|------------------------|-----|----|
| A. High blood pressure | Yes | No |
| B. Diabetes | Yes | No |

- | | | |
|----------------------|-----|----|
| C. High cholesterol | Yes | No |
| D. Smoking cessation | Yes | No |
| E. Lower back pain | Yes | No |

4. Are you currently being seen at Fox Army Community Hospital? _____

If so, which clinic _____ and Doctor _____

5. Are you currently employed? Yes No

6. What type of work do you do? _____

7. What are your working hours? _____

Additional suggestions are welcome.

Dental clinic operating under new treatment hours

Effective this month, the Main Dental Clinic has changed its treatment hours for the convenience of its patients and dentists.

The clinic is open from 7:30 a.m. to 4 p.m. Monday through Friday. Sick call for military is 7:30-8:30 and sick call for family members/retirees is 9-10. Examinations are conducted from 12:30-1:30 for military, and from 1:30-3 for walk-in exams for family members/retirees.

The smaller dental clinic at Fox Army Community Hospital, also open from 7:30 a.m. to 4 p.m. Monday through Friday, provides sick call and examinations from 7:30-8:30.

"We did have sick call plus examinations in the morning and sick call plus examinations in the afternoon," said Lt. Col. David Dennis, officer in charge of the Main Dental Clinic. "And we'd wind up with real heavy periods and real light periods; we just want to try to make it more convenient for everybody."

Sick call is a time for people to come in with dental problems of an urgent but non-emergency nature; treatment may consist of a permanent or temporary filling, an appointment, a prescription, or referral. "But we treat emergencies 24 hours a day," Dennis said. Emergencies consist of infections, swellings, bleeding, trauma, post treatment complications, or severe pain. Patients with after duty hours' dental emergencies report to the emergency room at Fox Army Community Hospital. A dentist is on call through the emergency room whenever the dental clinics are closed.

Under the new system, people can call in for an examination appointment or walk in during the designated period for exams. They can call 876-2616/1643 to schedule an appointment.

"We lose probably 60 hours of patient treatment — that's like one doctor not being here for a whole week — because people don't show up for their appointment," Dennis said. "We'd like for them to give us at least 24 hours notice if they can so we can go ahead and schedule someone else."

Military family members are eligible for all services on a space-available basis. There are some specialty areas for which they would be referred to another post. Fort McClellan has a periodontist, who treats gums, and a prosthodontist, for missing teeth; they would likely receive referrals for the more extensive work. Difficult or extensive oral surgery is handled at Fort Gordon, Ga., or Fort Campbell, Ky.

Active duty military receive the full range of treatment except for orthodontics; no orthodontic care is available at Redstone Arsenal. Retired military receive on a routine basis examinations, X-rays, and emergency treatment. "On a stand-by basis, we can do some fillings, cleanings or extractions," Dennis said.



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1985 Chevy Caprice . \$5995
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1988 Toyota Pick Up . \$9500
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Local trade-in, loaded with leather interior, sale priced.

1988 Olds Cutlass Calais SL\$10,700
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Annual five-mile run set for Saturday

All runners are invited to take part in the sixth annual HHC MICOM five-mile run at 8 a.m. Saturday, Oct. 14 in front of building 3496 on Aerobee Road.

There is no registration fee for this event sponsored by Headquarters and Headquarters Company. The optional T-shirts cost \$5.95.

Trophies will be awarded for first, second and third place in each age group. Male age groups include 20 and under, 21-30, 31-39, and 40 and over. Female age groups are 24 and under, 25-30, 31-39, and 40 and over.

"Each unit can put up a five-man team also," said SSgt. Javier Mancha, a coordinator of the event. "There will be a first and second place team trophy."

The course is mainly straight and flat, he said. It starts on Aerobee Road, turns onto Zeus Drive, goes north on Zeus, turns west onto Little John Drive, turns south into Snooper Road, goes all the way to Aerobee, to Vincent Drive, to Kingfisher Road, to Shillelagh Circle, to Cajun Drive (where there is a small incline), to Roland Road, back to Cajun, to Ajax Road, to Gray Road, to Zeus Drive, back to Ajax, to Aerobee, back to Snooper, to Honest John Road, to Wasp Road, and to the finish line on Aerobee.

"There will be refreshments and food at the end," Mancha said. The best way to get to the event from off post would be to enter Gate 8 on Goss Road.

All runners should register in advance; forms are available at building 3496 or the Pagano Gym. For more information, call Mancha or SFC Jerry Yates 876-5710 or 842-7092.

Troop bowling

Troop intramural bowling standings as of Oct. 6:

Tuesday's Conference	Won	Lost
95th	56.5	18.5
MEDDAC-2	51	24
Marines	49	26
MEDDAC-3	46	29
HHD 269th-1	45.5	29.5
HHD 832nd	45.5	29.5
HHC MICOM-1	43	32
D Company 73rd	43	32
C Company 73rd-2	34	41
MEDDAC-1	29.5	45.5
C Company 832nd	28	47
515th-3	28	47
515th-1	15	60
Navy	11	64

200 games/600 series bowled on Oct. 3:

	248 & 602 series
Richard Kavanaugh (HHD 832nd)	213
John Smith (95th)	213
Jim Morrow (C Company 73rd-2)	202

Thursday's Conference	Won	Lost
A Company 73rd-1	80.5	19.5
D Company 832nd-2	72	28
B Company 73rd-2	64	36
Readiness Group	63	37
C Company 73rd-1	56	44
B Company 73rd-1	56	44
A Company 73rd-2	56	44
A Company 73rd-3	51.5	48.5
MEDDAC-4	45	55
HHC MICOM-2	35	65
D Company 832nd-1	34.5	65.5
B Company 832nd	34	66
515th-2	29	71
HHD 269th-2	23.5	76.5

200 games/600 series bowled on Oct. 5:

	236 & 611 series
Steve Cook (A Company 73rd-1)	201
Nick Garcia (B Company 73rd-1)	201
Mike Lafevre (D Company 832nd-2)	200

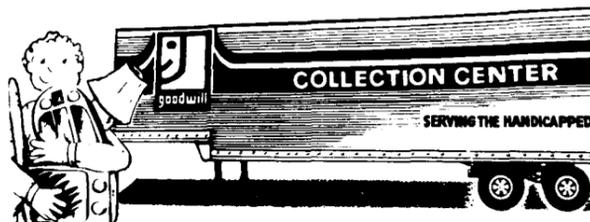


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Spare parts: finding the right formula

BY TIM DOWNEY

American Forces Information Service

Imagine you manage the supply department of a huge automotive repair store, responsible for ordering parts for all makes and models of cars and trucks. Your budget permits you to buy tens of thousands of items — from carburetors, and spark plugs to tools and key chains.

How well you manage your inventory means the difference between profit or loss. That means you have to know accurately which items are in demand for which cars and trucks.

DoD supply officials, however, have a far more challenging task. They are in charge of managing the federal catalog system, and the inventory is much more varied than mere automotive parts.

"We manage over 5 million items worth slightly over \$100 billion," said James H. Reay, director for supply management policy in the Office of the Undersecretary of Defense for Acquisition. The inventory, roughly 20 times larger than the thickest store catalog, has everything from nuts and bolts to pumps and building materials.

"Basically, we distinguish between secondary items — what most people know as spare parts — and principal items, the actual weapon system," Reay said. "The actual weapon systems — B-1s, MXs, Abrams tanks — are not our responsibility; we are responsible for ensuring any of thousands of parts on these or cores of other systems are available when needed."

According to Reay, many factors determine how many parts the military will need for a weapon system. They include the system's engineering history, reports from the field and operating tempo (which determines maintenance rates). Also, a reliable estimate figures \$1 in spare parts for every \$4 the weapon system costs.

DoD identifies inventory for spare parts in two categories: applicable and inapplicable assets. The former deals with day-to-day operating requirements and war stocks used by the services and other DoD components. Reay noted it is the largest part of the in-

ventory, about 62 percent, and supports a specific requirement within a budget period. "Inapplicable assets are those spares that are not expected to be used during the next 24-month budget development period, if forecasts of future customer demands are accurate," said Reay. "They are not necessarily a sign of unneeded or bad inventory. If there is one thing we try not to lose sight of, it's that our customers can be thrust without notice into life-threatening situations. We do not want the weapons they rely on to be inoperable because of parts shortages."

Reay acknowledged that the inapplicable inventory may contain more than is optimal. But he noted reasons for the buildup and discussed issues that must be addressed in drawing down the inventory in his congressional testimony.

"The growth in the value of DoD's spare parts inventory over the past eight years from \$43 billion to slightly over \$100 billion reflects fairly proportionally the rise in the cost of major weapon systems purchased," said Reay. "As the planes, ships, missiles and other end-item systems become increasingly more complex, inevitably you need more parts to maintain them."

Inflation also has swelled the value of DoD spares. Reay pointed out some critics have downplayed the importance of inflation by citing fairly low consumer price index rates over this period. Citing these figures, he said, does little to shed light on inflation rates for industries such as medicine or high-technology weapon systems.

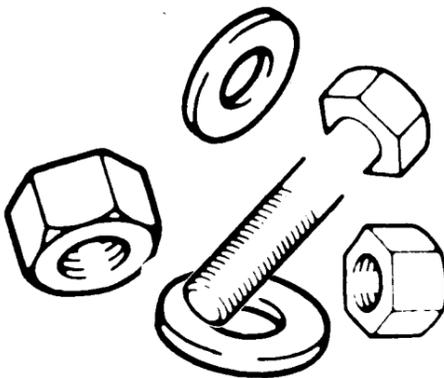
"Just as the cost of health insurance premiums over the past eight years has risen at a rate far greater than the 4 or 5 percent CPI statistics most people see, DoD outlays for spares to major weapon systems have risen proportionately higher than those, for say, sheet metal," he said. "Lumping hammers with electronic parts for an F-15 fire-control system is inherently unfair; though both are spares, one item has a relatively static, if not falling, price while the other spirals in comparison."

Another reason for the increase in the number and value of spares in this decade, according to Reay, has been the increased efforts on readiness and sustainability. An increased operating tempo to accomplish these goals meant more spares for ships, aircraft and tanks.

Despite the obstacles in controlling growth of the inventory, Reay believes his directorate is pursuing a prudent path to ensure the inventory continues to meet user demands as efficiently as possible.

"We have to balance the legitimate need to pare down excess stock while ensuring nothing of great value is released that five months or five years down the line we'll have to order again," he said. "Congress rightfully reminds us of our responsibility to prune the inventory while the inspector general and General Accounting Office reports just as correctly counsel prudence to ensure the latter scenario does not occur."

Supply managers will continue to fine tune the process in hopes of developing the perfect system. If they seem a bit more cheerful lately, it is probably due to happier customers. And when you have 27 million of them — the number of requests filled in the last fiscal year — that's progress indeed.



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Tips for safer indoor tanning

AMERICAN FORCES INFORMATION SERVICE

Indoor tanning is not risk-free.

The American Academy of Dermatologists advises persons not to expose themselves to artificial ultraviolet light without medical supervision (doctors sometimes prescribe ultraviolet light for patients with psoriasis, a skin condition.) But, if you do use a tanning device, here are some safety tips from the experts.

- Limit your exposure to the time recommended for your skin type.
- If the salon does not have a timer, bring your own.
- Wear snug-fitting eye goggles. Ask if the salon sterilizes the goggles between each use to prevent the spread of infection.
- Persons with medical conditions such as diabetes and lupus should avoid ultraviolet light. It can also bring on cold sores in susceptible persons.
- Be aware that a long list of medications may not mix well with sun or sun lamps. The list includes tetracycline, antihistamines, tranquilizers, birth control pills and anti-hypertensive drugs.

Dr. (Lt. Col.) William James, chief of dermatology at Walter Reed Army Medical Center, said tanning parlors should be required to follow certain safety practices. The safety practices he would require are:

- Have customers sign a consent form stating they're aware of the increased risk of skin cancer and the possibility of eye damage;
- Regularly test their equipment to make sure it's safe;
- Make it mandatory to wear goggles; and
- Take a medical history, letting customers know of the dangers of mixing certain medications with ultraviolet radiation.

Some tanning parlors have voluntarily implemented safety procedures such as the ones James recommends.



13TH BIRTHDAY — Aaron Salinas has the dubious distinction of turning 13 years old on this Friday the 13th. The youngest of six sons of SSgt. Abelardo Salinas of B Company, 73rd Ordnance Battalion, says he's not superstitious about the number 13. His father, however, jokes that precautions may be taken for the rest of the family.

SDC

(Cont'd from page 3)

has shared the responsibility of managing its \$1.4 billion annual budget, more than one-third of the yearly Strategic Defense Initiative funding.

Stewart's diligence in his role as special competition advocate significantly increased the number of USASDC contracts awarded competitively, exceeding the Department of Army standards by as much as 20 percent.

As deputy commander, he has been one of the Army's chief spokesmen for the role of the military in space and has pursued every alternative for increasing the Army's role in the strategic defense arena. He was a driving force behind the establishment of two new product manager positions at USASDC: Ballistic Missile Defense Space Payloads and the Strategic Target System. He was also instrumental in having the

Army named the interim lead for the Joint-Service Anti-Satellite Program now collocated with USASDC in Research Park.

Stewart came to USASDC after eight years' service with the National Aeronautics and Space Administration as the Army's first astronaut. He flew two shuttle missions during this time and has the distinction of being one of the first men to complete an untethered extravehicular activity with a Manned Maneuvering Unit.

During his Army career, Stewart has logged a total of 289 hours in space. He has flown 38 types of airplanes and helicopters and has logged approximately 6,000 hours of flight time.

"Bob and Mary Stewart have been a great asset to the Redstone community during their stay here," Cianciolo said. "They will be missed."

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40-44	200,000	100,000	10,000	32.00	16.00
45-49	150,000	75,000	10,000	42.00	21.00
50-54	125,000	50,000	10,000	52.00	21.00
55-59	75,000	30,000	10,000	52.00	21.00
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Oklahoma Sooners should KO Texas Longhorns

BY SKIP VAUGHN

The winning continues at Oklahoma, despite the Sooners being under NCAA probation.

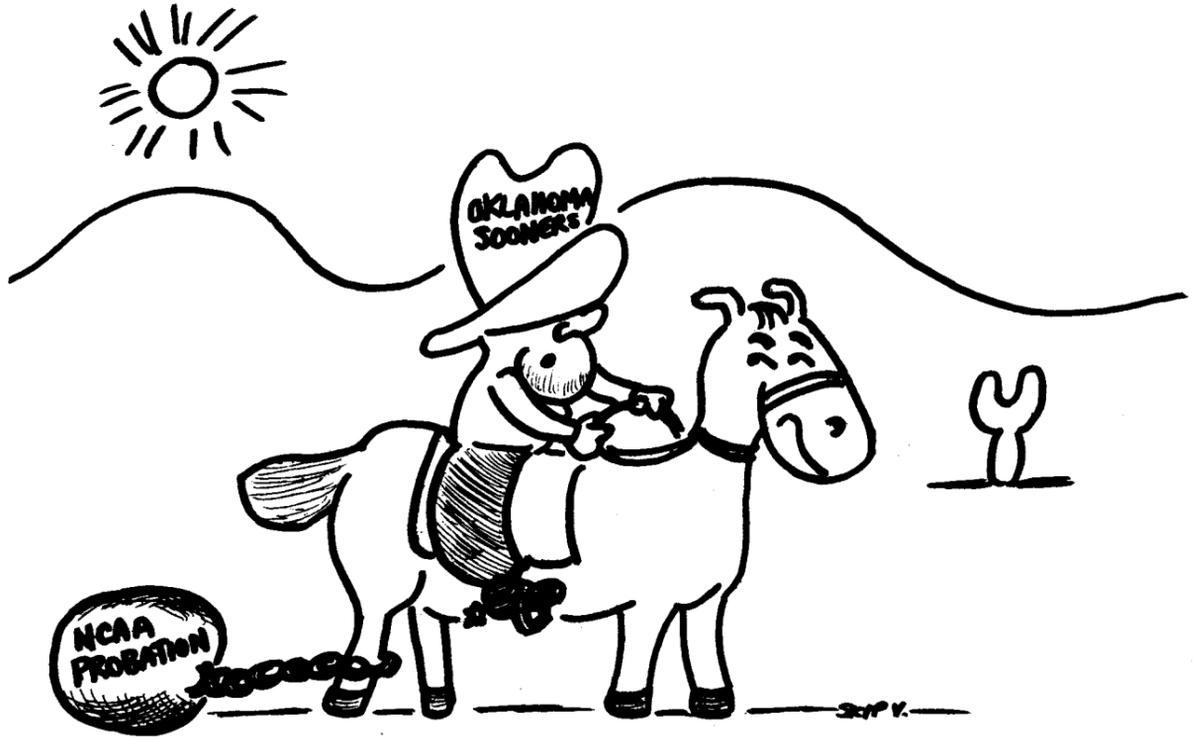
First-year coach Gary Gibbs has led the Sooners to a 4-1 record. They beat New Mexico State 73-3, Baylor 33-7, Kansas 45-6 and Oklahoma State 37-15. Arizona shut them down 6-3.

Texas, this week's opponent, is 2-2. The Longhorns whipped Southern Methodist 45-13 and Rice 31-30 but lost to Colorado 27-6 and Penn State 16-12.

The Sooners have too much firepower for Texas. Skip's Pick in this annual slugfest at Dallas is...**Oklahoma.**

Last week's predictions delivered a 34-7 record, upping the season totals to 149-46-3 for 76 percent. Here are Skip's Picks for this weekend in college football:

- Texas vs. Oklahoma — Oklahoma by 14.
- Louisiana State at Auburn — Auburn by 10.
- SW Louisiana at Alabama — Bama by 28.
- Vanderbilt at Florida — Florida by 7.
- Georgia at Ole Miss — Georgia by 4.
- Rutgers at Kentucky — Kentucky by 7.
- Lane College at Ala. A&M — A&M by 21.
- Notre Dame at Air Force — Notre Dame by 10.
- UCLA at Arizona — Arizona by 3.
- Ariz. State at Oregon St. — Ariz. St. by 7.
- Arkansas at Texas Tech — Ark. by 4.
- Holy Cross at Army — Army by 3.
- Baylor at SMU — Baylor by 21.
- Temple at Boston College — BC by 14.
- BYU at Colorado State — BYU by 10.
- Southern Cal at Calif. — USC by 13.
- Memphis State at Cincinnati — Memphis by 7.
- Georgia Tech at Clemson — Clemson by 17.
- Colorado at Iowa State — Colo. by 21.
- Fla. State at Va. Tech — FSU by 14.
- Houston at Texas A&M — Houston by 10.
- Illinois at Purdue — Illinois by 13.
- Indiana at Ohio State — Indiana by 7.
- Iowa at Wisconsin — Iowa by 4.
- Kansas St. at Okla. St. — OSU by 21.
- So. Miss. at Louisville — Louisville by 7.
- Maryland at Wake Forest — Wake by 3.
- San Jose St. at Miami (Fla.) — Miami by 30.



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- Michigan at Mich. State — Michigan by 6.
- Minnesota at Northwestern — Minn. by 7.
- Nebraska at Missouri — Nebraska by 21.
- Navy at Pittsburgh — Pitt by 24.
- No. Carolina at Virginia — Virginia by 17.

- Oregon at Washington — Wash. by 14.
- Penn State at Syracuse — Penn State by 7.
- Texas Christian at Rice — TCU by 4.
- Stanford at Wash. State — WS by 7.
- Utah at Wyoming — Wyoming by 7.

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Live-fire testing integral part of weapon life cycle

BY TIM DOWNEY

AMERICAN FORCES INFORMATION SERVICE

Live-fire testing plays a critical part in the Defense Acquisition Board's assessment of a weapon system's performance under the milestone review process. If a weapon system performs poorly at a critical juncture in its live-fire testing, it could be the determining factor for board members to vote to scrap it.

James O'Bryon, director of live-fire testing in the Office of Defense Research and Engineering (Test and Evaluation), testified before Congress in March. "Live-fire testing and evaluation is planned throughout the development process to ensure that the resulting production system provides the intended crew protection to realistic hostile fire, taking into equal consideration the susceptibility to attack and combat performance of the system," O'Bryon said. "For munitions, we must be sure they produce the intended lethality against appropriate opposing threat vehicles or structures."

Many observers consider live-fire testing especially important because it determines whether a system will perform in conditions similar to those in war time.

Reporting to the undersecretary of defense for acquisition, O'Bryon is responsible for examining the results obtained from realistic live fire-tests. He also writes an independent report for the secretary of defense and the defense committees of Congress. The Defense Acquisition Board considers the test results. Principal members of his senior-level board chaired by the undersecretary of defense for acquisition include the vice chairman of the Joint Chiefs of Staff, the service acquisition executives of the services, three assistant secretaries of defense and the director of defense research and engineering.

The board uses a milestone process to review progress of a weapon system. Milestones are critical points in the acquisition developmental process. The seven-part milestone process begins with realization of a need and works forward to fielding of the system and finally to a decision whether to refine the finished pro-

duct. The milestones include: 0 Mission Need Determination; I Concept Selection; II Full-Scale Development; III Low-Rate Initial Production; IIIB Full-Scale Production; IV Readiness and Support; and V Major Upgrade Decision.

The defense acquisition process is analogous to testing performed in schools. Before a student passes to the next grade he must prove his comprehension of material discussed in class. Live-fire testing, said O'Bryon, identifies design deficiencies and allows them to be corrected in the design of the system before proceeding beyond low-rate initial production.

The service responsible for developing a weapon system writes a test and evaluation master plan that includes how the objectives of live-fire testing are to be met. Detailed test plans are submitted to the live-fire testing director, who reviews and recommends approval prior to each live-fire test.

An important part of O'Bryon's job is examining areas where the weapon system is not performing as well as it should. Two issues that get substantial attention there are vulnerability and lethality. Vulnerability refers to the potential of the weapon system, say a Bradley fighting vehicle, to keep on fighting after it is hit. Lethality refers to the potential to inflict damage on the enemy. O'Bryon said the evaluation conducted is a thorough assessment of the system against the "total threat spectrum," not simply a pass-fail test.

Continuing with the school analogy, program managers and manufacturers want to pass the test to advance to the next milestone. Just as even good students can fail one test and make up for that performance with redoubled efforts, a good weapon system can perform poorly on a specific live-fire test.

"The fact that a threshold is not met at a program milestone does not, in itself, necessarily warrant program cancellation or restructure," said O'Bryon. "It does require a careful, senior-level examination of the shortfall. The Defense Acquisition Board structure provides the mechanism to ensure this examination is conducted in the depth and scope warranted."

O'Bryon cautioned that the only way to ensure the tough criteria established in live-fire testing is through early, detailed planning. It ensures, he said, an effective strategy and is developed by the service and approved by the Office of the Secretary of Defense.

Although live-fire testing is expensive, O'Bryon noted the average cost of live-fire testing is less than 1 percent of the total cost DoD pays to field the system. Scenarios are as realistic as his people can make them, given the fact there is not enough money to completely test all systems under all conditions.

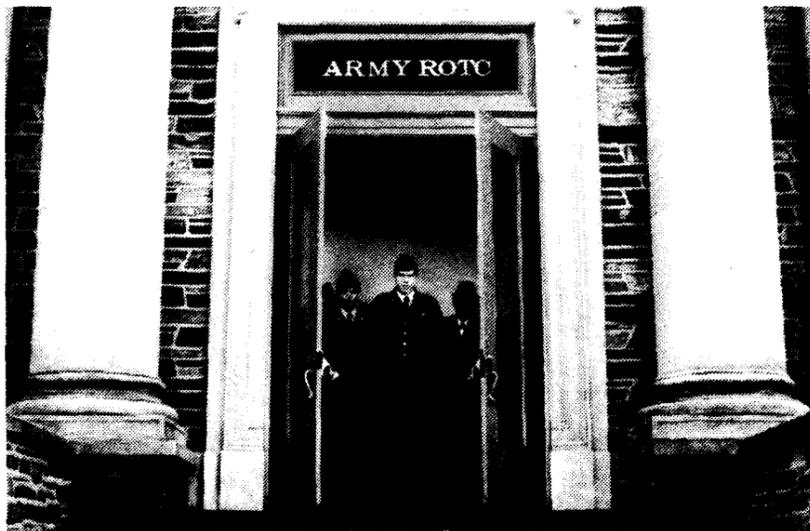
If those developing the weapon system have done their homework, the detailed planning displayed in the test and evaluation master plan should pay dividends. "The full-up live-fire testing late in full-scale development (Milestone II) or during low-rate initial production (Milestone IIIA) should confirm expectations rather than uncover showstoppers," said O'Bryon.

Low-rate initial production refers to startup production of a system in limited quantities for use in early operational and live-fire test and evaluation. These few systems undergo verification of production engineering and design maturity and establish a production base prior to the board's decision to proceed with full-scale production.

Linking development of a system throughout the milestone process — mating development concerns stressing design with production concerns addressing producibility and cost — reduces the likelihood of making major changes after live-fire testing.

The findings submitted by the Live-Fire Testing Office are presented in an independent live fire-test report submitted to the secretary of defense and to the defense committees of Congress. They are also presented at a committee meeting that precedes the formal Defense Acquisition Board review. This committee, said O'Bryon, addresses the overall program status and highlights the major issues that the board will address. Committee members consider all findings on the weapon system prior to presenting their recommendations to the secretary of defense and Congress.

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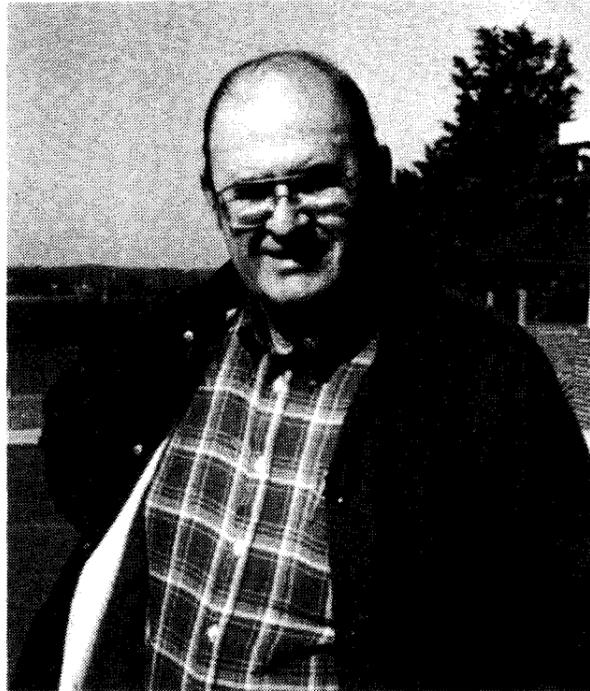
Gerald S. Brock, 53, has been superintendent of the Redstone Arsenal course since 1978.

To become certified, a candidate must have five years' experience as a golf course superintendent and be employed in that capacity. The candidate must pass a rigorous six-hour examination covering the rules of golf, turfgrass management, pest management, financial and organizational management and the history, ethics, purpose and procedures of Golf Course Superintendents Association of America (GCSAA). Also, an on-site inspection of Brock's golf course operation was conducted by two currently certified superintendents: Charles Agnew of Huntsville, and John H. Freeman of Killen.

"It's one of my goals I set back several years ago when I finally decided exactly what course of life I wanted to live," Brock said. "It's the pinnacle, you might say, in this business. To me, it's just like the golf professional when he gets his Class A Card."

Originally from Etowah County, Brock served in the Army from 1954-57. He was department commander of Veterans of Foreign Wars in Alabama in 1986-87.

GCSAA, an 8,800-member international professional and educational association, instituted the certification program in 1971 to recognize outstanding and progressive superintendents. More than 1,000



BROCK

GCSAA members are certified golf course superintendents.

Flu immunization schedules listed

It's the flu season again, and time for the shots designed to keep people healthy.

Occupational Health Clinic will immunize federal civil service employees Oct. 16-20 from 10 to 11 a.m. and 2-4 p.m. in building 116. Identification badges for U.S. Army, Redstone Arsenal must be presented at the time of immunization.

The influenza immunization schedule for military personnel, retirees and active duty/retired family members is as follows:

- Troop Medical Clinic will immunize all active duty personnel except Medical Department Activity (MED-DAC) people. Schedules will be provided to the unit commanders. Units must provide two copies of the current personnel roster to this clinic.

- Adult Immunization Clinic will immunize military family members, retirees and their family members, all MEDDAC personnel and adult Family Practice members. Immunizations will be given 8 to 11 a.m. and 1 to 3 p.m. Oct. 16-19 and Oct. 23-27 in the MED-DAC classroom at Fox Army Community Hospital. Immunizations will *not* be given Friday, Oct. 20.

- Pediatric Clinic will immunize children age 15 and younger with recommendation by a pediatrician. For an appointment or more information, call 876-4158.

Consent forms for retirees, family members, and federal civil service employees must be signed prior to administration of immunization. Patients, except federal civil service employees, must bring shot records and medical records to the respective clinic.


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This farm is located on Pulaski Pike ¼ Mile West of the 640 acre Bobo Farms and ½ Mile East of the D.C. Boone 300 acre cattle farm. SEE AUCTION SIGNS:

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This 80 acres has a nice frame house with 3 Bedrooms - Living room - Dining room and large kitchen - Large family room - 1 Bath with electric heat and air - Stove -refrigerator - Deepfreeze. This house has just been redecorated, has new roof and wall to wall carpeting, has 45x60 foot barn and 45x20 foot block building, a 3 car detached 30x40 foot garage with shed on back, 2 large grain bins.

This 80 acres has 1320 feet fronting on Pulaski Pike all under fence being used at present time as a cattle ranch, will be offered in 7 tracts from 7.64 acres to 26.23 acres and as a whole.

80 ACRES

This 80 acres adjoins the above 80 acres on the west side with 1320 feet fronting on Pulaski Pike. This is a beautiful tract of land with approximately 62 acres open land and about 18 acres in woods, property being used at present time for row crops. This 80 acres will be offered in 6 tracts ranging in size from 9.43 acres to 19.00 acres each and as a whole.

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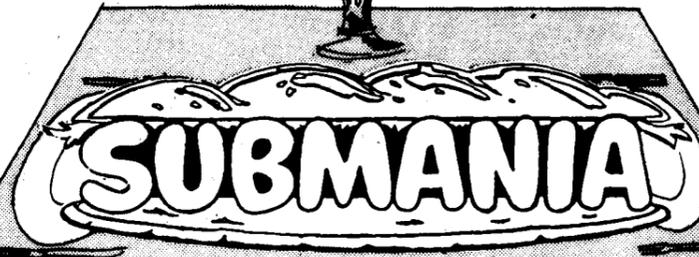
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Frozen blood: a component of defense readiness

BY MSGT. MARY A. PETERSON, USA
AMERICAN FORCES INFORMATION SERVICE

Pre-positioning front-line equipment, spare parts and medical supplies in strategic overseas areas is, military leaders say, essential to a high state of readiness.

The basic medical equipment necessary to support the onset of combat will soon include frozen blood components — stockpiled the same way as tanks and communications wire.

"In wartime, we would need much, much more than the 200,000 units of blood that normally meet the military's annual peacetime needs," said Air Force Maj. Michael Ward, deputy director for program modernization in the Armed Services Blood Program Office.

"Our concern is that normal military and civilian blood banks could not support an immediate wartime need," he said. "A wartime blood drive (collecting, processing and delivering) could take up to 21 days to reach operational units providing front-line medical

care. The military can't afford a three-week delay in getting blood supplies to the wounded.

"Frozen red blood cells can be stored for 10 years; with Federal Drug Administration approval now pending on another storage technology, we will be able to store it for up to 21 years," Ward said. Fresh-frozen plasma and frozen platelets can be stored for two years.

"Our plan is to collect 225,000 units of Group O blood by 1992 and stock them in specially designed, low-temperature freezers at strategic storage sites around the world," he said. Group O blood was chosen because it is the universal blood type.

Ward explained: "The red blood cells, of course, are what most wounded combatants require; they replace the body's oxygen-carrying capacity.

"Plasma — the fluid portion of blood — contains essential proteins that combine with platelets in allowing blood to clot. Platelets are the small, cellular elements of blood that contribute biochemically and physically to clotting.

"By separating these components at the time of collection and freezing each separately, the battlefield physicians will have exactly the right component to meet their needs," he said.

As part of this technology that is revolutionizing medical preparedness for the military community, a special blood collection bag has also been designed.

Ward, who credits the bag design to Dr. Robert Valeri, a Navy captain now retired, and his colleagues, through their research on blood-freezing techniques at the Naval Blood Research Laboratory in Boston, said the bag is used to separate the blood into its primary components. Then it serves as the freezing bag for the red blood cells, thus saving resources and time.

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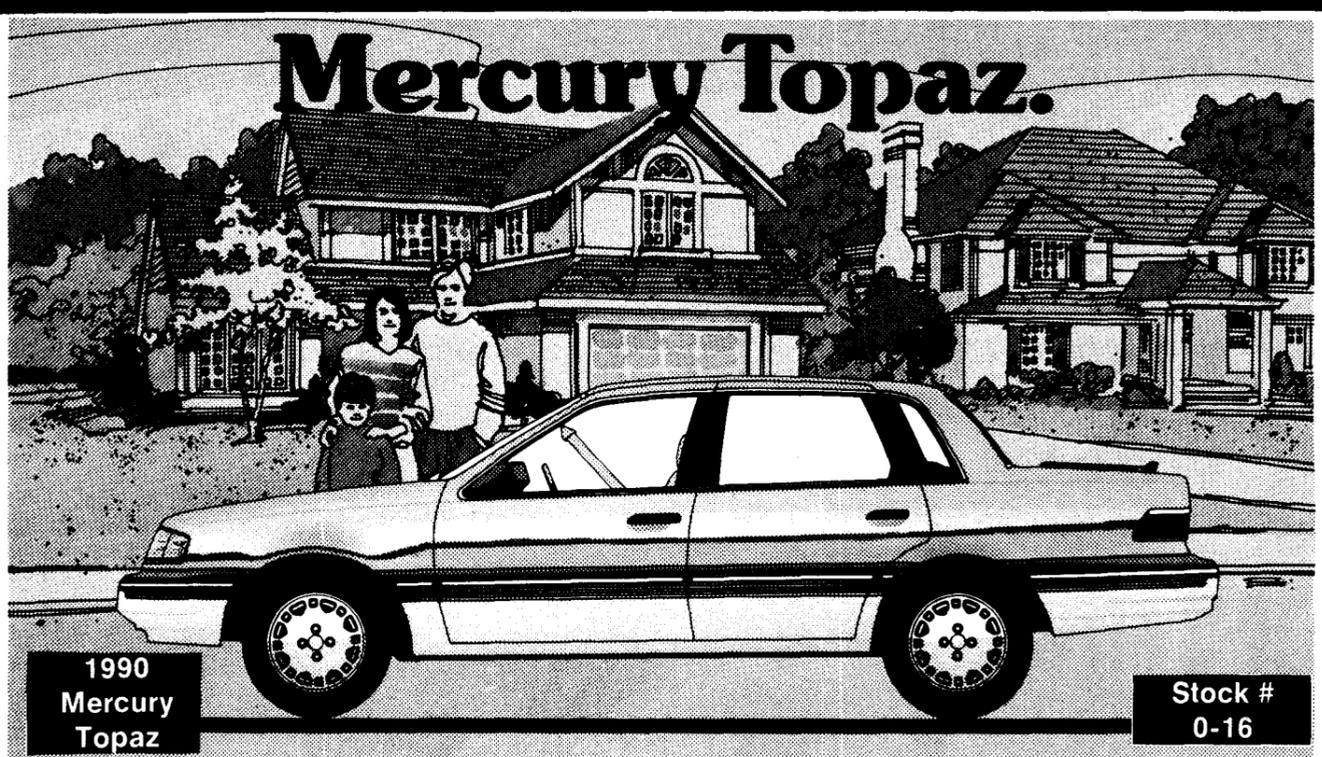
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MODEL — Lt. Gen. Robert Hammond, commander of U.S. Army Strategic Defense Command, shows Lt. Gen. George Monahan, Strategic Defense Initiative Organization director, a model of the High Endoatmospheric Defense Interceptor. The generals were in Huntsville last week to attend an SDIO executive management meeting. The one-day meeting, hosted by USASDC, was held at the Marshall Space Flight Center Huntsville Operations Support Center on Redstone Arsenal.



GOOD HOMES NEEDED — Spec. Art Martinez and Kathy Yawn of the post veterinary clinic hold seven adoptable kittens and one adoptable adult cat. They're all ready to go home now. Call the clinic at 876-2441.

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Disaster exercise tests military response

BY EVELYN D. HARRIS

AMERICA FORCES INFORMATION SERVICE

Several large apartment buildings crumble, burying their sleeping occupants in rubble. Bridges collapse, spewing cars into the depths of the bay. Power lines are disabled, leaving parts of the city in a shroud of blackness. Fires break out, fed by a ruptured gas line. And water mains break, adding to firefighters' difficulties.

At 2:30 a.m. the San Francisco area lies devastated after a severe earthquake: 8.3 on the Richter scale. Early damage assessments include at least 40,000 casualties, and the disaster has crippled the medical facilities needed to care for them.

Meanwhile, California's governor requests assistance from Washington D.C., and the Federal Emergency Management Agency notifies the Sixth U.S. Army, headquartered in San Francisco, to implement its assistance plan. The commander, San Francisco Medical Command, assumes responsibility for all Department of Defense medical activities in the Bay area. The National Disaster Medical System Contingency Plan is initiated.

Helicopters shuttle patients to hospitals, which are already overwhelmed by local casualties.

This was the scenario being prepared for in a tri-service mass casualty exercise on April 18, the 83rd anniversary of the Great San Francisco Earthquake. That disaster killed 500 and injured many more. This year's exercise was the largest ever.

Rear Adm. David M. Lichtman, head of the newly formed joint Army/Navy San Francisco Medical Command, which directed the military aspect of the exercise, said it served a dual purpose: testing how well the command could coordinate area military hospitals



Photo by JO2 T. S. Begasse, USN

The pretriage center just outside the emergency room entrance of Naval Hospital Oakland became the initial stop for arriving patients during an earthquake disaster drill.

and how well military and civilian authorities could work together.

Lichtman said he was particularly pleased with the tri-service cooperation and coordination.

The three military hospitals involved in the exercise

were Letterman Army Medical Center on the Presidio of San Francisco, Naval Hospital Oakland in Oak Knoll and David Grant Medical Center at Travis Air Force Base. They worked with civilian hospitals that

(Cont'd on next page [17])

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(Cont'd from page 16)

are part of the National Disaster Medical System, assigned at the federal level to supplement state and local emergency plans when catastrophes overtake their abilities.

Lichtman said the Navy's 1,000-bed hospital ship, the USNS *Mercy*, might also be used to care for earthquake victims, since it would be less vulnerable to damage than most area hospitals. *Mercy* is berthed at the Naval Supply Center in Oakland.

The exercise began at 2:30 a.m. with the recall/alert drill. "Patients" reported to Letterman Army Medical Center and Naval Hospital Oakland before dawn for moulage artists to use clay, makeup and artificial blood to create realistic wounds. The patients were staged as to the severity of their conditions and coached how to act.

Military helicopters and field ambulances sped victims to receiving hospitals, where triage teams of

physicians, nurses and technicians assessed the severity of their conditions and either gave them immediate life-saving treatment or sent them for appropriate care.

The drill portion of the exercise, ending about 1 p.m. that day, tested four main areas of earthquake disaster preparedness: alert/recall procedures; communications with respect to assembling personnel; effective augmentation of personnel, supplies and equipment for the medical receiving areas; and the transportation and communications necessary to efficiently connect the participating facilities.

Navy Capt. Mike Cowan, special assistant for the National Disaster Medical System to the assistant secretary of defense for health affairs, said disaster exercises such as this are essential for military medical personnel.

"We want to ensure that the first rush of casualties in a war aren't the casualties we learn on, that they're

not sacrificed because we're not ready. And if a community is devastated by a natural disaster, that we can get there quickly to save the most lives," he said.

"My biggest hope is that we're wasting our time and that we won't have that war or that natural disaster — but we have to be ready," he added.

Navy Cmdr. Gary Schick, disaster preparedness officer, Naval Hospital Oakland, said the San Francisco Bay area is more ready this year than ever, thanks to an improved communications center.

"A good communications system is necessary to keep all of your elements informed of what's going on and where they're supposed to be. Last year, we didn't have enough radios and people trained to use them. This year we did. We were able to make decisions on current information, not information that was 15 minutes old," he said.

"We looked like we'd been doing this drill every day for months."

COLUMBIA COLLEGE

SESSION V
October 23-December 16



Redstone Arsenal Extension
Phone: 881-6181 Building 3222

1989 CLASS SCHEDULE

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

Course #	Course Title	Prerequisite	Instructor
ACC 281	Principles of Accounting II	ACC 280	Jacobs
ENG 104*	Developmental English	NONE	Yates
HIST 101	Western Civilization I	NONE	Cushman
MGT 368	Business and Its Environment	NONE	Smalley

* Tuition Free Class.

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

Course #	Course Title	Prerequisite	Instructor
ENG 111	English Composition I	NONE	Yates
MKT 310	Principles of Marketing	NONE	Smalley
SOC 321	Criminology	NONE	Bill

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

Course #	Course Title	Prerequisite	Instructor
CIS 150*	Introduction to Basic Programming	CIS 170	Geveden
ENG 112	English Composition II	ENG 111	Starkey
GOVT 340	Judicial Process	NONE	Traylor
MKT 333	Public Relations	MKT 310	Foster

* Lab Fee.

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

Course #	Course Title	Prerequisite	Instructor
CIS 170	Introduction to Computer Information Systems	NONE	Thomas
CIS 320*	Systems Analysis and Design	CIS 280	Marshall
ENG 204	Technical Writing	ENG 111/112	Anglin
MA/MGT 320	Calculus for Business and Finance	MA 150	Geveden
PSY/MGT 433	Stress Management	NONE	Resha

* Lab Fee.

GENERAL INFORMATION — 1989

Academic Calendar — Session V	October 23-December 16
Registration Begins	September 25
Classes Begin	October 23
Late Registration Ends	October 27
Tuition Assistance Form Deadline	October 27
Last Day To Drop	November 3
Classes End	December 16

Classes are opened to ACTIVE DUTY MILITARY, THEIR DEPENDENTS AND CIVILIANS employed on Redstone Arsenal. The Columbia College office is located in building 3222, Army Education Center (South Entrance). OFFICE HOURS: 8:30-4:30, Monday-Friday. Phones: 881-6181 or 876-4851. COUNSELING AND REGISTRATION ARE AVAILABLE ON A WALK IN BASIS.

ENG 104 (Developmental English) is a TUITION FREE COURSE and students receive three semester elective hours credit for the course. (First come first served basis.) IBM PCs are used in our Computer Lab. ALL CLASSES ARE HELD IN THE ARMY EDUCATION CENTER - BLDG. 3222. Complete degree programs (two and four year) are offered here on Redstone:

Complete degree programs (two and four year) are offered here on Redstone:
 Bachelors in Science/Business Administration
 Bachelors in Science/Computer Information
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 Bachelors in Individual Studies
 Associate in General Studies
 Associate in Science/Computer Information Systems
 Associate in Science/Business Management
 Associate in Science/Criminal Justice

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Announcements

Country/western night

The Officers Wives Club will have "Country/Western Night" on Oct. 20 from 7 p.m. to midnight at the Officers Club. This event is open to non-members as well. Capital, a band from Nashville, will perform. Barbecue will be available at a reasonable price. Dance instructors will be present to teach country and western dancing. There will be contests and prizes for the best dancers and best costumes. Tickets cost \$6 in advance, \$7 at the door. For tickets go to the Officers Club at noon on Wednesdays through Fridays, or call Janice Koropey 721-9828 or Carol Curtis 895-0729. "Y'all come."

SDC function

The Strategic Defense Command monthly function will be a potluck dinner from 6-8:30 p.m. Tuesday, Oct. 17 at the Rustic Lodge. For more information call Candace Keebler 461-7962, Gisela Mullek 837-5252 or Nancy Rice 880-9374.

Quilt exhibit

Tennessee Valley Quilter's Association will have its annual White Glove Quilt Show on Oct. 14-15 in Decatur. About 75 quilts will be on exhibit at T.C. Almon Recreation Center in Decatur's Point Mallard. Show times are 9 a.m. to 5 p.m. Saturday and 1-5 p.m. Sunday. Admission is \$1. Tickets are available from members of Quilt Lover's Guild or from Helen DeButy at The Crafty Bear, (205) 351-0420.

Federal women

North Alabama Chapter of Federally Employed Women will have its regular monthly meeting at 11 a.m. Oct. 12 at the Challenger NCO Club, Redstone Room. Peggy Coulter, a financial planner with A.L. Williams Company, is to speak on "Financial Planning for the 1990s." For more information call Pat Hill 828-4761 after 5 p.m., or call Robbie Petroski 544-5370 or 882-9193 (after 5 p.m.).

Women's support group

The Women's Support Group for Victims of Domestic Violence meets Thursdays at 6:30 p.m. Call 539-1000 for location.

String music

The Cavani String Quartet will perform 8:15 p.m. Thursday, Oct. 12 at the UAH Roberts Recital Hall. Tickets are \$12 for adults, \$5 for students. For information call 895-6436.

Car wash

A cash wash will be sponsored by B Company, 73rd Ordnance Battalion unit fund council on Oct. 13 from 9:30 a.m. to 4:30 p.m. on the corner of Jordan Lane and University Drive at the Amoco Minuteman Service Station. Cars are \$3, pickups/vans are \$5 on the day of the car wash. Advance tickets are on sale at \$1 off the price. For more information, call SFC Avery Hollifield 876-6640 or 1st Sgt. Steve Edmiston 876-6717.

Redstone charity donors

Redstone Arsenal donors are reminded that the three charitable buildings adjacent to Burger King are not a place to discard your junk. Junk items need to be left by the curb for trash pickup. If you would like to make donations, call the following charitable organizations: Goodwill 536-0737, Salvation Army 534-1402, or Christmas Charities 539-2500. Remember, items donated should be in serviceable condition. "Let's continue to strive in keeping Redstone Arsenal beautiful," says Sgt. Maj. Manuel Robinson, the sergeant major for Redstone Arsenal Support Activity.

Logistics engineers

The Society of Logistics Engineers (SOLE) luncheon will be held Oct. 17 at the Holiday Inn, Madison Square. Social begins at 11:30 a.m., with the luncheon at noon. Ed Mitchell, of Mitchell & Mitchell Inc., is to speak on the "Memphis/Huntsville/Atlanta/Chattanooga Interstate (Defense Highway System)." Cost of the luncheon will be \$7. For reservations, call Barbara Karbens 876-7322 by noon Oct. 13.

Test preparation

Army Education Center is offering a test preparation monitor to be available on Mondays and Wednesdays from 4:30-8:30 p.m. in building 3218, north end. The monitor will assist personnel in locating study materials and will advise on how to prepare for DANTES testing. Specific sessions will be conducted for preparation for the GMAT, GRE, ACT tests. For an appointment, call 876-0080/9762.

AIAA dinner

John Swihart, AIAA national president-elect, is the scheduled speaker for the Oct. 18 dinner meeting of the Alabama-Mississippi Section of AIAA. The event will be held at the Huntsville Hilton; social begins at 6:30 p.m., dinner at 7 and the program at 8. Cost is \$13. Swihart's scheduled topic is "Aeronautical Developments in the 21st Century." Non-members are welcome. For reservations call the following by noon Oct. 16: Susan Vinz, vice chairman, 544-1432, or Wanda Reece, chairman, 726-5391.

Youth basketball

RSA youth basketball league registration, ages 5 through 16, begins Oct. 15 and continues through Oct. 31 at the Youth Center, building 3148. Cost is \$10 per registrant. Coaches are needed. For information call Ted Compoc, youth sports director, 876-2255.

Road race

Rocket City Half Marathon will be held on Saturday, Nov. 4 at 9 a.m. starting and finishing at Grissom High School. Registration begins at 8 a.m. For more information call Shelby Edwards, race director, 883-8209.

Chapel events

Waiting Wives' Group will meet 6:30 p.m. Oct. 12 at Bicentennial Chapel; call 876-2409 for information. *OMMCS Mass* will be held 11 a.m. Sunday, Oct. 15 at Post Chapel. *Mother's Morning Out* is set for 9 a.m. to noon Oct. 17 at Bicentennial Chapel; call 876-5707 for information. *Christmas Cantata Rehearsal* will be held 7 p.m. Oct. 17 at Bicentennial Chapel; call 876-2337 for information. *Widows or Widowers Group (WOW)* meets at 7 p.m. Oct. 17 at Bicentennial Chapel; call 876-5707 for information. *Pre-Cana Class for Catholics* will be held 7 p.m. Oct. 17 at Bicentennial Chapel; call 876-6874 for information.

YMCA basketball

Huntsville YMCA basketball registration is being held through Saturday, Nov. 4. "YMCA basketball is for all youth ages 5-17 and every individual will play each game." Register by calling or going by one of the following local branches: Southeast, 1000 Weatherly Road, phone 881-8710; Northwest, 4600 Blue Spring Road, 852-8540; Central, 203 Green St., 534-6452.

Army Community Service

Do you have a family member who has a learning, physical, or mental disability? You may qualify for the *Exceptional Family Member Program*. For more information, call the Army Community Service EFMP coordinator 876-2859/5397. November *parenting classes* are being organized; this 10-week class is free to active or retired military and Redstone Arsenal civilians; for information, call Virginia Dempsey 876-5397/2859. *Stress management class* is a five-week class in mid-October; if interested, call Dempsey. For information on becoming a *foster parent*, call Sal Riccardi or Virginia Dempsey 876-5397/2859.

Toastmasters

The Tennessee Valley Toastmasters Club meets each first and third Thursday night from 6:30-8:30 at Shoney's Restaurant on Memorial Parkway Southwest (near Drake Avenue). Visitors are welcome. For more information, call Gwyn Bredeson 876-0622 or Kent Slemmons 837-1875.

Movies

Here's the Post Theater schedule; starting times are 7 p.m.: Thursday, Oct. 12 — *Let it Ride*, rated PG-13, 86 minutes. Friday, Oct. 13 — *Lock Up*, R, 100 minutes. Saturday, Oct. 14 — *Cheetah*, G, 84 minutes. Sunday, Oct. 15 — *Relentless*, R, 91 minutes. Tuesday, Oct. 17 — *Star Trek V*, PG, 106 minutes. Admission is \$1.50.

NCO club

Amateur Night at the Challenger NCO Club begins at 8; first prize will be \$100, second prize \$75, and third prize \$50; call Jackie or Harold 837-0750 for details or to sign up. *Oktoberfest* begins at 6 p.m. with a buffet; Sauerkraut will perform from 8:30 p.m. to 1 a.m., followed by the disc jockey who is to play until 4 a.m.; no reservations — first come, first served.

ADPA dinner

Tennessee Valley chapter of the American Defense Preparedness Association will hold a dinner meeting 6:30 p.m. Oct. 17 at the Huntsville Hilton. Gerald A. Johnston, president of McDonnell Douglas Corp., is to speak on "Changing Priorities — Impact on Defense Readiness." Tickets are \$13 per person and may be obtained by calling Linda Theusch 721-1941 (ext. 145). Corporate tables (eight persons) are available.

Education center

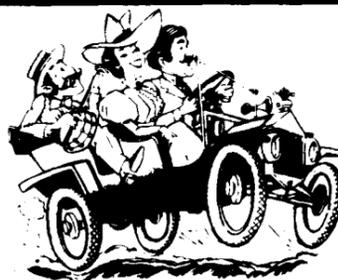
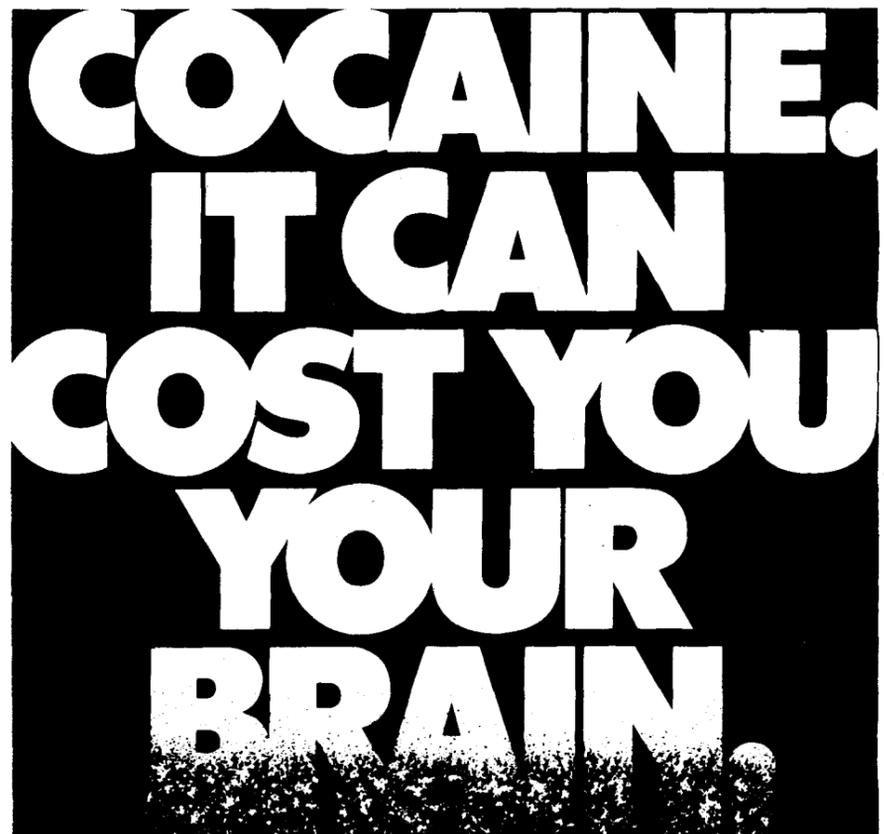
"For active duty military, we have one remaining space to take the graduate record exam" at 8 a.m. Oct. 16 at building 3222, according to the Education Center. For more information, call Jan 876-9762 or Tressie 876-0080.

Aerobics class

A new aerobics class with Ann Patterson of the Aerobic Dance Company will be starting at the Recreation Center on Tuesday, Oct. 24 at 5:30 p.m. Classes meet for eight weeks on Tuesday and Thursday from 5:30-6:30 and cost \$32. "Come and have fun while you get in shape with low to medium impact routines choreographed to your favorite hits." This course is designed to help you get in shape safely and is open to the entire Redstone community — military and civilian. For more information, call the Recreation Center 876-4531 weekdays from 1:30-9 p.m. or weekends from 10 a.m. to 9 p.m.

Multicrafts center

Youth sweatshirt painting classes will begin Oct. 14 at 10 a.m. Reservations are required. For more information and reservations call 876-7951 or visit the center in building 3615.



Carpool Hotline

Call 876-1500 to place your free carpool ad.

Albertville-Guntersville

Carpool member wanted from Albertville-Guntersville to 5681 area, hours 7-3:30. Myrna Eaton 876-5830.

Scottsboro

Rider or half-time driver wanted from Scottsboro to SDC or ADCCS (off University Drive behind Landmark Chevrolet), hours 7:30-4. Joan Collins 895-3781.

classifieds

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

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

SALE: Approximately 1/2 acre, top soil, garden in place. City and sewage hookup. Asking \$15,000. Will finance at 8 percent. Call 880-6246 after 4 p.m.

FOR SALE: Hutch, 2 piece colonial, 71" H x 51" L, \$325; New manual typewriter (Olympia), \$75; Portable sewing machine (Dressmaker), \$65. All excellent condition. 881-6249.

FOR SALE: 1 bedroom condo, 1 bath, all appliances included, washer, dryer, refrigerator, stove, living room, dining room, \$3000 down and take over payments of \$276 per month excluding condo fees (\$30). Call 7125 after 4 p.m.

FOR RENT: With an option to purchase, 3220 Della Lane, N.W. Rancher, 4 bedrooms, 1 1/2 baths, den, carpeted, range, dishwasher, ceiling fans. Central heat and air. Approximately 1400 square feet. Large corner lot. No garage. No pets. \$425 per month plus \$400 security plus lease. 895-9888.

SACRIFICING TRAVEL TRAILER: For the next 2 weeks I am willing to accept any offer close to \$2995 (to pay off loan) for my 1974 Wilderness Travel Trailer, tandem axle, 20', loaded, self-contained with shower, stove, gas/electric fridge, new air. Beautifully decorated. 100 percent financing RCU. Enjoy the colorful leaves while camping, fishing or hunting. Call 461-8269 (Madison).

FOR SALE: 38 foot twin-engine houseboat. \$16,500 or best offer. 837-8480 after 6 p.m. Good shape.

FOR SALE: Kenmore gas dryer. White with energy saving automatic ignition. Good condition. \$110. 880-7458.

FEMALE ROOMMATE WANTED: 3 bedroom, 2 bath, located in SE Huntsville. Only 15 minutes to Redstone Arsenal. 880-3280.

FOR SALE: 17 cubic feet frost-free refrigerator. Excellent condition. \$200. Call 464-9295 after 5 p.m.

FOR SALE: 1988 Honda Civic LX. 5 speed, metallic grey, air conditioning, power windows, power mirrors, power locks, power steering and brakes. AM/FM cassette, very low mileage. Excellent condition. \$10,000 (negotiable) or \$2000 and assume low payments. 895-0769.

FOR SALE: 1982 14x70 Windsor Mobile Home. Central heat and air, storm windows, large front kitchen, 2 bedrooms, 1 bath with adjoining laundry room, all appliances including washer and dryer, built-in stereo and microwave, mini-blinds, covered porch, underpinning. Convenient to Arsenal, currently located at South Gate Park, east side of Memorial Parkway at intersection of Redstone Road (Gate 3). Call after 4 p.m., 881-1433.

FOR SALE: Mobile home, 14x64, 2 bedrooms, 1 bath, new carpet throughout, wood burning stove, refrigerator, dishwasher, stove, large kitchen, \$5300. 830-5592.

COMPUTER FOR SALE: Radio Shack TRS-80 Color Computer II, 64K memory. Includes: 5 1/4" disk drive, 80 column dot matrix printer, 13" GE color television, printer stand, joysticks, lots of software, manuals, and cables. An excellent starting computer. \$475 firm. 233-3900 evenings.

FOR SALE: 1979 Ford LTD. 2 door, excellent condition, all power. \$2500. 881-6825.

TOWNHOME FOR LEASE: 3 bedroom, 2 bath, 1450 square feet. Lots of storage and closet space. Hot tub in deck outside. Convenient to RSA and shopping. \$650 per month. 461-7291.

FOR SALE: 1982 Pontiac Phoenix, 57,000 miles, automatic with overdrive, air conditioning, power steering, power brakes, am/fm stereo. Excellent condition. \$1900. Call 882-3994 after 4:30 p.m.

FOR SALE: 80 rolls of copy paper for older IBM copy machine. 50 cents each. And \$100 for aluminum sliding patio door with frame, assorted storm windows. 830-9447.

FOR SALE: 1989 Ford Lariat Pickup, all options, wholesale price, 7000 miles, one owner. 1985 20'x8' pontoon, new trailer, 50 hp Evinrude, trolling motor and battery, depth finder. Excellent condition. \$6500. 1987 Mercury Sable, one owner, 35,000 miles, new radials, all options. \$9000. Antique oak dresser, refinished, \$395. Aluminum door and frame, assembly fits 30 1/4" door, handle left hand side, \$25. 2 each, 3 wheeler (ATM-125) rear racks, \$40 each. Call 881-8638.

FOR SALE: 1988 Volkswagen Jetta GL, blue, 4-door, 5-speed, air, am/fm radio with cassette, 1.8L fuel injected engine, power brakes, electric rear window defroster, averaging 34 mph (city) and 36 mph (hwy). Reason for sale: larger car needed due to new addition to family. Asking \$9000. Call 721-1874.

FOR RENT: Morgan City, 3 years old, 3 bedrooms, 2 baths, central heat and air, fenced back yard, large front porch, back deck, appliances. Furnished, no inside pets. Sets on 2 acres of land. Lease and reference, asking \$450 monthly plus deposit of \$300. Call 536-5703 and leave message.

FOR SALE: 1984 CJ7 Jeep, Renegade package with hardtop, 6 cylinder, 5-speed, power steering. Excellent condition. Moving, must sell. Priced below red book value at \$5700. Call 830-0541.

FOR SALE: Men's clothing. Name brands, current style, most in excellent condition. Pants 33x34, shirts, sweaters. 882-6490.

LOT FOR SALE: Lake (Tanst), privacy, trees, lot 53. Crowl Osage Road. \$2000. 882-6490.

FOR SALE: Rust colored sofa and loveseat, matching area rug and floor lamp. In very good condition. \$250 for all four items. 880-1378.

FOR SALE: Beautiful Cape Cod style home in Madison has 3 bedrooms and 2 baths with a total of 1533 square feet. Home is tastefully decorated inside with mini-blinds and curtains throughout. Eat in kitchen with bay windows and built-in microwave, stove and dishwasher. Large greatroom with stone fireplace and dining area. Home has large bedrooms with ceiling fans and walk-in closets. Double car garage with electronic door opener, fully landscaped with established lawn, fenced in back yard and tree lot. Home has HOW warranty and buyer may choose to assume a 10 percent fixed rate VA mortgage loan. All this and more for \$89,900. 461-7238.

FOR SALE: Kingsize waterbed, includes mirror headboard, frame, heater, cushioned pads, water mattress, underbed drawers, \$375; Queen size early American cannonball headboard and footboard, \$60. 772-8336.

FOR SALE: 1975 Toyota Land Cruiser, 4 wheel drive, lock out hubs. \$1495. 828-5128.

FOR SALE: 1988 Chevrolet Cavalier RS. Automatic, power steering, power door locks, tilt wheel, am/fm cassette, air conditioned, rally wheels, only 18K, must sell, PCS to Germany. Grandfather clock, \$75. Call anytime at 837-8447, please leave message.

WANTED: Babysitter for infant and toddler in Montevia area. Also housecleaning, light cooking. Must be over 30, have no small children, have transportation, local references, and experience working in other people's homes. 830-9156 before 9 p.m.

FOR SALE: 1972 Oldsmobile Cutlass Supreme convertible. Rust free, blue with white top and upholstery, 350/4 bbl, power steering, power brakes, cold air. Appraised at \$9000, asking \$7850. 851-6156.

FOR SALE: 1988 Mazda pickup. 5 speed, looks good, runs great. Take over payments of \$96 bi-monthly. Call 895-9704 after 5 p.m.

FOR SALE: 1984 Corvette. Red, 69K miles, 350/cross fire injection. Base stereo system, 6 speakers, 2 tops, brand new tires (Goodyear GT's), theft system, excellent condition, can be seen at PX parking lot. Asking \$13,500. 837-4079.

FOR SALE: Two single bedsprads and curtains, peanut design, \$40; Size 12 ski pants, \$5; Size "M" jacket, \$15; Large boy's winter jacket, \$15; Girl's single bedsprad, \$8; Boy's small wind breaker, \$6; Women's sheep skin coat, \$20; Small winter boy's coat, \$12; Shoes, size 7, winter knit hats, gloves, boy's pants size 10-12, toys, erector 725, \$20. 722-9167.

FOR SALE: 1977 Chevrolet pickup. LWB, 54,000 actual mileage, new battery, new tires, new exhaust system. 305 V8, with 2 bl carb. Automatic transmission recently rebuilt with 5 months of warranty left. \$1600 or best offer. Call 772-8684 after 5 p.m.

FOR SALE: 1973 VW Beetle. Very nice, sky blue, many new parts, never been wrecked with absolutely no rust. Less than 300 miles on engine. \$2500. 880-7707.

FOR SALE: German Sideboard, 78x15x30, Fruitwood, \$40; Black & Decker electric lawnmower, 18", \$30; Sweet Valley Hi & Cheerleader series books, sold individually or as set. 379-4133.

FOR SALE: Toshiba 13" color tv, remote control, cable ready, \$100. 880-3607 evenings.

WANTED: Storage building. If you are moving in the near future and have a storage building for sale, please call 837-5180.

FOR SALE: Men's 10-speed bicycle. Big tires, regular handle bars, \$45; two Atari's case, 15 tapes, joy sticks and paddles, \$40; Incline leg lifting DP weight bench, Astro Van trailer hitch, \$30; four 225 Goodyear new recap tires, \$100. 837-5180.

FOR SALE: 1966 Chevrolet Pickup truck, short wheel base, straight 6, 1 owner, garage kept since new, all original, collector's item. \$2500. Call 615-469-0369 after 5:30 p.m. Ask for Steve or Demetra.

FOR SALE: Affordable condo in Madison. Owner financing available. 2 bedroom, 2 bath, refrigerator, custom mini blinds, fireplace, ceiling fans, pool, tennis court. 1280 square feet. Very convenient to Redstone Arsenal. Call anytime, 772-0046.

FREE TO GOOD HOME: 8 year old female AKC Miniature Schauer. 837-5536.

HOUSE FOR SALE: Large 6 room house, 3414 8th Avenue SW. \$29,000. 772-9898.

ACREAGE FOR SALE: Madison, Alabama. Stoneridge, 7 acre tract or 8 acre tract, 15 total. End of Concord Dr. \$15,000 per acre. 772-9898/772-3244.

ACREAGE FOR SALE: Madison, Alabama. 5 acres, no zoning, good for business, trailer park or home. Allison Road off Balch Road. \$25,000. 772-9898.

ACREAGE FOR SALE: Madison, Alabama. 7 wooded acres, ideal for mini farm or development. \$8000 per acre. 772-3244.

HOUSE FOR SALE: 2 houses on same lot. Large 5 room house, small 12'x42' house. \$39,900. 3412 8th Avenue SW. 772-9898.

FOR RENT: 2 1/2 bedroom duplex apartment close to downtown. \$285 per month. \$100 deposit. Must qualify. 534-3841.

FOR SALE: Toyota Van-LE. Fully loaded, under 48,000 miles, excellent condition, \$7050. 883-6537.

FOR SALE: 1984 Olds Cutlass Supreme Brougham, loaded with extras, 3.8 V6 engine in excellent condition with 69,000 miles. Great town or country car in very good condition. Michelin XH tires. \$5250. 536-8292.

FOR SALE: Cocker spaniel puppy, 11 weeks old. Call after 5 p.m. at 830-1039.

FOR SALE: 2 velour lounge chairs, \$40; 2 tan lounge chairs, \$30; electric grill, \$50; vanity dresser for a girl, \$40. Call after 5 p.m. at 830-1039.

FURNITURE FOR SALE: Child bedroom set, \$100; full size mattress, \$40; area rug, \$50; wall mirror, \$20; 2 bar stools, \$45 each. 882-1448.

FOR SALE: Oval dining table with 6 chairs, lighted china cabinet, and buffet server. \$600. 880-1649 after 5 p.m.

FOR SALE/RENT: In Madison. Nice 3 bedroom, 14x70 mobile home on 1 acre lot with large hardwood trees and 3 additional acres. 7 minutes from Jetplex. 544-4983 days, 772-7245 evenings and weekends.

FOR SALE: 1986 Olds Cutlass Sierra Brougham. V6 teal blue, loaded with extra's, complete maintenance records, kept in excellent condition. Price negotiable. 233-6065 after 5 p.m.

FOR SALE: Natchez Trace Wilderness Preserve membership. Facilities include cabins, tents, trailers, hookups for trailers, swimming (lake & pool), fishing etc. This is not a time share. \$5500. After 5 p.m., 882-6874.

FOR SALE: One bedroom condo, \$45,000. Completely furnished (all you need is groceries). Nashville, Tennessee. Off Hillsboro Road next to all colleges and shopping centers. Call 233-2043 or 232-0217.

FOR SALE: 1989 Wet Bike with trailer. \$2995. Used 3 times. Call 233-2043 or 233-8332.

FOR SALE: Toy Poodle. 1 male, 1 female, 8 weeks. First shots and wormed. \$125 each. Call after 4 p.m. weekdays, all day weekends. 837-8424.

HOUSE FOR SALE: By owner, 3 bedroom, 1 1/2 bath, brick house on quiet cul-de-sac, large fenced in yard, new country kitchen, screened in sun porch, ceiling fans, new carpet, mini-blinds, central heating and cooling, near Redstone Arsenal, very well kept, FHA assumable loan, or refinance, total asking price \$58,900. Call 534-9628.

FOR SALE: Porsche 944, 1985 latter year model, equipped as 1986. Red, tan interior, 5 speed, sunroof, all electric, Blaupunkt stereo, UNGO security system. Excellent condition, \$14,700. 882-2690 or 828-1927 after 5 p.m. or leave message.

FOR SALE: 1964 Ford Fairlane, 289 cu. in., power steering, cold air conditioning, fun toy, looks and runs sharp, \$2695. Honda XL/85. Motorcycle, road/dirt, 1000 miles, \$700 firm. Call 880-0924.

FOR SALE: Waterfront, Tims Ford main channel. 149 ft. water front. 3 bedroom brick with new bathhouse, 2-car garage, in-ground heated pool. Bus route, shop building, dock. \$175,000. Many extras. 882-6490 or 615-967-7971.

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 at Redstone Arsenal.

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 some type of identification, such as a building number, badge number, etc.
- The deadline is 5 p.m. on Friday before the Wednesday publication. Ads will run for one week only. You may resubmit them.
- The Redstone Rocket will not accept classified ads for business. A business classified ad or for those who are not military or civil service is \$5.75 (1 column x 1 1/4 inches, bordered, about 20-30 words).
- 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 Classifieds, P.O. Box 5351, Huntsville, Alabama 35801.
- The Redstone Rocket will not accept any classified ads by telephone.
- The Redstone Rocket is not responsible for typographical errors or for omissions in this section. Classifieds will be published as space permits. First come, first served basis.



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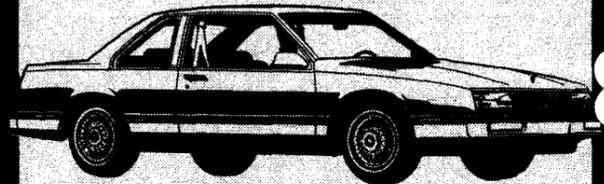
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1983 OLDS CIERRA BROUGHAM \$5900	1981 BUICK SKYLARK \$2995	1984 DODGE OMNI \$3250	1989 VOLVO 760 TURBO \$29,500	1982 OLDS OMEGA \$2995	1985 CHRYSLER LEBARON <small>Grey, 49,000 miles, air conditioning, stereo, great payments</small> \$6320
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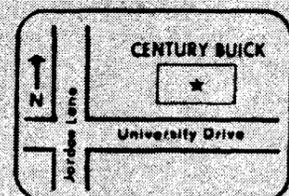
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