

Redstone Rocket

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Energy audit, metal siding among ways to conserve

BY SKIP VAUGHN

Energy conservation takes everyone's cooperation, according to the Missile Command's energy coordinator.

"Individual workers can help just by using common sense around the workplace," says John Fulda, "turning off equipment when it's not being used, turning off the lights, keeping doors and windows closed especially during the heating and cooling seasons."

Organizations can help by planning ahead when they expect to add computer equipment, he says. They should analyze the room conditioning loads that will result from the addition of such equipment. "It's got to be planned for," Fulda advises, "because as soon as you put it in that room, you de-stabilize the entire 'hvac' (heating, air conditioning and ventilation) system and you're going to have hot and cold spots."

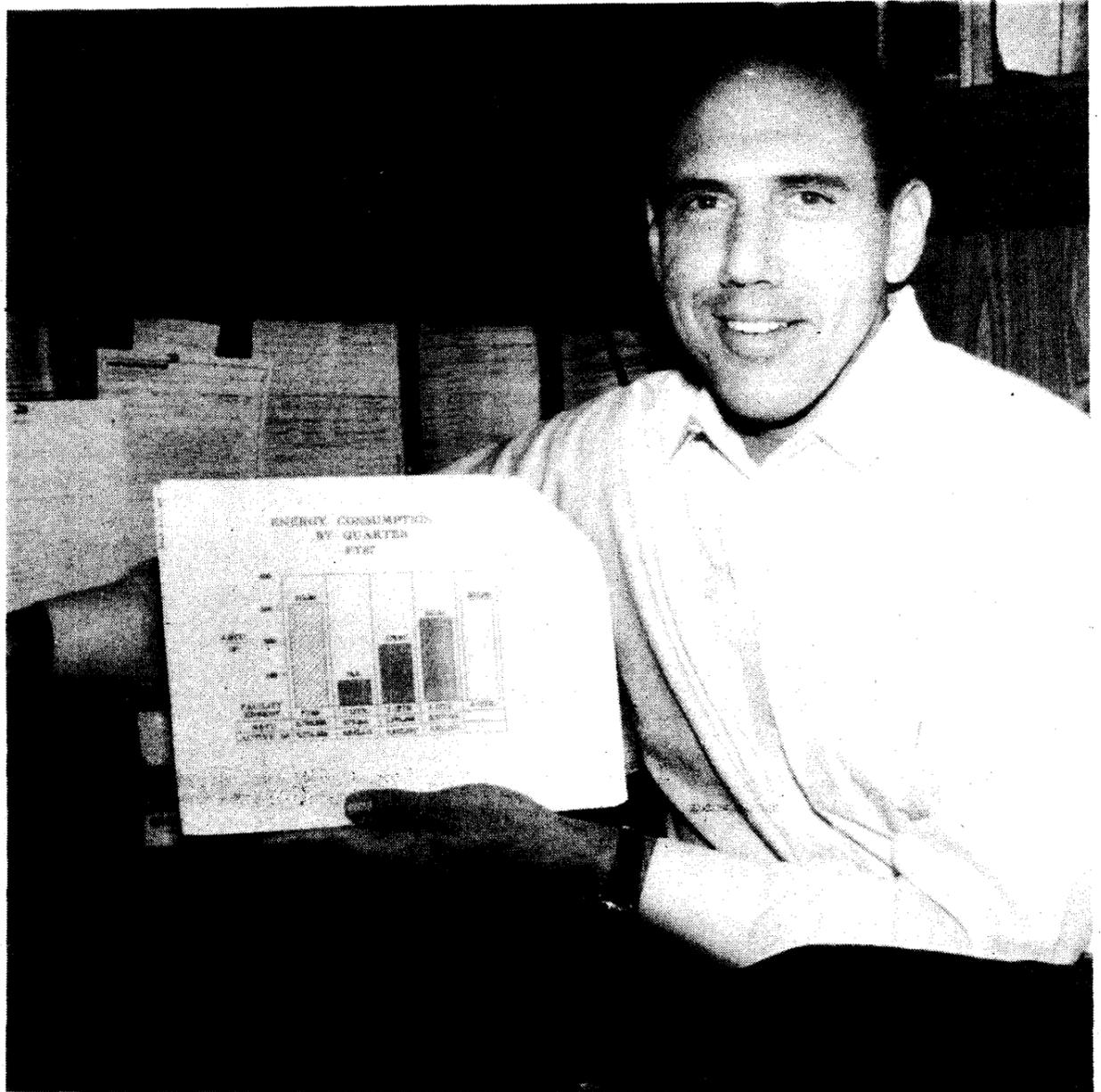
MICOM is trying to reduce its energy use through such methods as energy audits. A team of five or six engineers from the Directorate of Engineering and Housing goes to selected buildings to check windows, wall insulation, ceiling insulation, lighting, and overall status of energy-consuming systems. Fulda calls it the "S-WATT" team. The audits are being done now; when possible, plans are to do any necessary repair work during Energy Awareness Week, Oct. 25-31.

Duty cycling on air conditioning, turning the systems off for specified times, is another method of saving energy. "Because of a (Tennessee Valley Authority) contract modification, load shedding or turning off of air conditioning will be greatly relaxed the rest of the cooling season," Fulda says.

"We have to stay on top of energy consumption through the TVA contract. We have to ensure that adequate electrical energy is available to the arsenal at peak periods which means essentially that we have to modify the TVA contract according to consumption patterns," he says. "We're going to need everyone's assistance throughout the year and especially next summer to keep those electrical demand loads at the absolute minimum so we don't have to duty cycle."

In fiscal 1985, the Missile Command used about 317,000 British thermal units per square foot. It used about 314,000 Btu in fiscal 1986 and hopes to reduce consumption to 311,000 in fiscal 1987. This would be on target to meeting the Army's goal of 282,000 Btu per square foot by fiscal 1995.

Current energy projects include putting insulated metal siding on many of the buildings here— including MICOM headquarters. "That is going to save quite a bit of energy and it already has; it's a good project," Fulda says. Future projects include a joint effort with Huntsville to build a solid waste steam plant that will burn refuse to produce steam. "That'll save us fossil fuel energy," adds Fulda.



CHART— Fulda shows a chart depicting fiscal 1987 energy consumption.

An engineer here for 11 years, he has been MICOM's energy coordinator about a year and a half. Besides Fulda, the energy office at the Directorate of Engineering and Housing includes Kevin Meyer.

"It (saving energy) reduces the tax dollars paid for energy," Fulda says, "and those tax dollars can be us-

ed in other areas. It reduces our vulnerability to disruption due to international problems. As a result, it allows the mission to continue. It allows people to be more comfortable; therefore, increase productivity through the efficient and wise use of energy that we do have."

Army Operations Center slated for automated systems

WASHINGTON— Existing manual procedures are the target for modernization at the Pentagon-based Army Operations Center — the HQDA command and control center for the Army staff during national crises and military exercises.

The center's reliance on manual systems for conducting day-to-day business is giving way to the latest technology and state-of-the-art business practices, said operations staff officer Maj. Al Nieder.

"In 1986, Under Secretary of the Army Ambrose approved a program to upgrade the AOC environment through acquisition of computer hardware and software systems in two areas of operation," he said.

"The first area covers our information processing system, which includes interactive message handlers and user work stations throughout the center. In addition to automated tools, maps and news services, access to the Worldwide Military Command and Control

System and other selected automated systems will be included."

The other area of upgrade, he explained, is an automated credential and access control system, which will improve access control of persons desiring entry to the center and its interior offices.

On the information-processing side of the upgrade, Nieder describes the expected improvements as increasing the efficiency of operations and reducing levels of paperwork when compared to the current, manual system.

"When the new system is completed in May 1988, personnel will be able to read incoming messages, and to judge, right then and there, which ones need further action, without redundant paper copies. Information handling is critical to a crisis management team, which may handle about 30,000 pieces of paper daily during an exercise — most generated from an average

workload of some 500 messages every 12 hours. The labor-intensive steps in manually processing a large volume of paperwork leads to much delay. Automated support will permit the center's action officers to concentrate more on their primary duties."

Of the 53 work stations to be installed in the classified network, seven will be able to produce vu-graph transparencies, including displays of map data. That capability will meet the requirement for producing vu-graphs in support of exercises and daily briefings presented by the center's staff.

"The vu-graph capability," Nieder explained, "will enable the action officer to produce, edit and copy a multicolor, 8- by 10-inch vu-graph right from his work station, with adequate quality for projecting on the existing 6- by 8-foot briefing screens."

(See Center cont'd on Page 15)



Ambulance service

Editor:

During the past three weeks there have been two emergencies on the arsenal where civilians were injured and the MEDDAC response time was unbelievably slow in both cases... The Fox Army Community Hospital ambulance was called both times and it took them 30 minutes to find the locations. In both instances, other people on the scene were prepared to take them in their own cars to the hospital. In fact, the injured fireman was finally transported in the fire chief's car for emergency delivery to the hospital. Excuses given by MEDDAC were pathetically lame for an emergency response team— "poor directions...", "couldn't find the gate," "way down on the south side of the arsenal." Surely 20,000 people spread over 60 square miles on excellent roads deserve better service than 30 minutes.

HEMSI (Huntsville Emergency Medical Services Inc.) could probably give the MEDDAC team some training! Better than that, why not contract the ambulance service out to someone who can respond just as NASA does? You civilians with heart problems had better make some advance plans with a colleague to take you to a hospital in town in his car if you have a heart attack! How about it, MEDDAC, can you suggest a better idea?...

Name withheld by request

Traffic laws

Editor:

Today's lesson is a refresher course in Alabama traffic laws. Lesson One: a traffic lamp has three colors—green means proceed, amber means proceed with caution and be prepared to stop because the light is about to turn red; and red means stop!! A special emphasis on this last color should be extended to the travelers on Martin Road: red means stop!!! For the safety of yourself and others, please stop when the light is red. Lesson Two: a car traveling straight has the right-of-way over a car turning left. This does not mean try to beat the car traveling straight thru by turning left and cutting them off. We have had extremely critical accidents at the intersection of Martin and Mills roads. I don't want to be next because of your disobedience to the law. It's an old cliché, but would you rather be two minutes late for work, or dead? My supervisor would prefer me to be late. So would my family.

Mary Jo Burnell
Building 5681

Lesson learned

Editor:

An open letter to the director, Procurement Directorate, with reference to "Recent Lessons Learned" dated Aug. 25.

Your intentions to share some of the problems of our procurement actions with all Procurement Directorate employees is commendable; but, the facts in paragraph 2a are not complete and accurate to the extent that I would not have signed a certificate which Procurement Directorate employees could have relied on.

In my opinion, there is no reason for the director to

have been embarrassed by the lesson learned under paragraph 2a. Rather than cite the inaccuracies stated within that paragraph, I'll add a word of caution to those who opt for the one bullet headlines and note for your consideration that headlines often find the defendant guilty before the case goes to trial. GAO cases and appeals are often capsuled for quick reading but if one doesn't read the complete case, one can be misled. Before directorate employees can benefit from the lesson learned, it's my opinion that the intent of paragraph 2a must be supported by a complete disclosure of all the facts rather than selective disclosure of a few.

I can't speak for others involved in "Recent Lessons Learned," however, I was fully aware of the events involved as they took place; and I believe that proper approvals were obtained and the file was appropriately documented. It is evident that review at a higher level found fault with my judgment and I accept that decision. We do our best. The contract specialists and the clerical support I have worked with take pride in their work. They do a thorough and professional job, to the extent that they have earned, and are worthy of, special recognition for their accomplishments. I want to personally thank them for their support.

Robert E. Hawkins
Contracting officer

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.

Service members reaffirm commitment to Constitution

BY DONNA BOLINGER-MILES

American Forces Information Service

"I do solemnly swear that I will support and defend the Constitution of the United States."

These are the words spoken by every recruit entering the U.S. armed forces and every service member during re-enlistment. In taking this oath, members of the U.S. military accept a special obligation to protect the document that has served as the foundation of American government for 200 years.

On Sept. 17, the bicentennial of the signing of the Constitution, many of America's men and women in uniform around the world will once again reaffirm their commitment to the document they have sworn to protect.

Reaffirmation ceremonies are scheduled at many military installations, in addition to speeches, lectures, art and science exhibits and band concerts focusing on the bicentennial celebration.

As they raise their right hands and speak the words

of the oath, service members will reaffirm the intentions of delegates at the 1787 Constitutional Convention in Philadelphia.

They will make the same promise uttered by George Washington and every American president since, by every member of Congress and the U.S. Supreme Court and by hundreds of thousands of American veterans.

But most importantly, they will once again accept their special obligations and responsibilities to protect the Constitution "against all enemies, foreign and domestic."

In taking the oath, they will set themselves apart as official guardians of a blueprint of government that represents freedom and opportunity for individual achievement. They will promise to sacrifice whatever is necessary to ensure the survival of its principles.

"You're different from other citizens who did not take that oath," according to Secretary of the Army John O. Marsh Jr.

"They share with you the benefits of what you swear to defend," Marsh said. "You have put it on the line for other people because you understand the high importance— to yourself and your family —of what you are trained and ready to defend."

As director of the Department of Defense observance, Marsh urged all service members to look on the 200th anniversary of the Constitution as a time of renewal and rededication to this calling.

"We in this generation must not shirk our responsibilities any more than did those courageous men of 200 years ago," he noted. "As we face the great threats to our peace and security, we acknowledge that around the world we are known as champions of freedom and democracy. Our vision must be the vision of Madison; our character that of Washington."

"The world must know we are dedicated to our Constitution and way of life, and to the world we'll continue to declare that 'this we'll defend,'" said Marsh.

Soldiers' pay schedule changing

Beginning with the September end-of-month pay period, soldiers will be paid on the first day of the following month, rather than on the last of the pay period month.

This change is mandated by Congress and will affect all active duty service members.

"Military services still are authorized to advance payday up to three days when the first day of the month falls on a weekend or holiday, except for the month of September," states a news release from Finance and Accounting. "Since September is the last month of the fiscal year, payday for that month must be moved into the month of October."

Mid-month payments will not be affected. Taxable wages will continue to be based on the 12 pay periods covering the January/December paydays, according to F&A.

The new schedule also will affect the delivery dates of allotment checks, causing some arrival dates to be a day or two later than what was customary under the former system. Soldiers with mortgage or car payments due at the end of the month are advised to notify their financial institutions now to adjust the date of these payments.

The first 14 paydays under the new requirement include the following for 1987 and 1988:

Pay Period	Payday
September	Oct. 1, Thursday
October	Oct. 30, Friday *actual payday falls on weekend.
November	Dec. 1, Tuesday
December	Dec. 31, Thursday *actual payday Jan. 1 is a holiday.
January	Feb. 1, Monday
February	March 1, Tuesday
March	April 1, Friday
April	April 29, Friday *actual payday falls on weekend.
May	June 1, Wednesday
June	July 1, Friday
July	Aug. 1, Monday
August	Sept. 1, Thursday
September	Oct. 3, Monday *change in fiscal year.
October	Nov. 1, Tuesday

**THE REDSTONE
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Music show planned for Constitution birthday celebration

BY PAM ROGERS

Members of the Redstone and Huntsville communities are working together to celebrate the 200th birthday of the U.S. Constitution through music.

"Our Celebration of the Constitution" is a patriotic music show which will include performances by local church choirs, the 14th Army Band from Fort McClellan, Huntsville school children, dance students, Boy Scouts, Girl Scouts and other members of the community. The show is set for Sept. 12 at the Von Braun Civic Center arena.

Soldiers from Redstone will serve in the color guard, and will present the flags of all 50 states. Each soldier will be carrying his or her home state flag, according to Ramona Lindsey, who is coordinating Redstone's Constitution Bicentennial celebration.

Dr. Royce Boyer, a music professor at the University of Alabama in Huntsville, is chairman of the committee planning the music show.

"We wanted a unique program to entertain and educate. We didn't want this to be another Fourth of July or armed forces celebration. We wanted to focus on the Constitution," he said.

Music planned for the show includes standard patriotic pieces like "America the Beautiful," "Battle Hymn of the Republic," and "America," as well as patriotic marches and contemporary patriotic music. Tributes to the Constitution will be given by local citizens. Master of ceremonies will be Dr. Miles Hardenburgh.

Tickets to the event are free, and will be available through command sergeants major offices at the Missile Command, the Ordnance Missile and Munitions Center and School, Fox Army Community Hospital, and the Test, Measurement and Diagnostic Equipment Support Group. The show will begin at 7:30 p.m.

Soldiers who attend are requested to wear their uniforms.



PLANNING MUSIC— Lindsey and Boyer talk over plans for patriotic music show.

Army will channel funds to prevent travel problems

BY CHARLIE BOWDEN

GARMISCH, Germany— The Army hopes to avoid a repeat of last year's stopgap measures to save permanent change of station funds by getting more money into the travel budget and gaining congressional authority to reprogram funds from other Army accounts, Secretary of the Army John O. Marsh Jr., said recently during a trip to Germany.

"The problems that relate to PCS (reassignments) are as great a concern to the chief (Army chief of staff) and myself as they are to people over here," Marsh said. The Army last year enacted a program of involuntary overseas extensions for some soldiers and an early release program to meet a cut in the travel budget that affected all services.

Despite the unpopularity of the involuntary extensions and the hardships that sometimes resulted, Marsh said the program apparently did not affect Army retention. The Army exceeded its retention goal by about 3 percent, Marsh said, citing that as statistical evidence the impact of the extensions was minimal.

"It has not had an adverse impact on retention, but I want people over here to know that we're keenly aware of the problem it creates and we're devoting an

enormous amount of time to alleviate the problem."

In another area, the secretary said senior Army officials continue to press for another pay raise and against any erosion of benefits. "We believe, based on the current status, that it (the pay raise) will be 3 percent, across the board," he said, pointing out that the military had asked for a 4 percent raise this year.

Marsh said that erosion of benefits is a constant topic in discussions with members of Congress. "What we seek to do is constantly point out to Congress that if they're going to have an all-volunteer force, it is necessary to address certain basic and fundamental things." Those include pay, benefits, consideration for where the soldier lives and the quality of the work place, he said.

In addition to meeting with commanders in Europe, Marsh also is pushing the observance of the bicentennial of the Constitution, which he said is very relevant to today's soldier.

"The first thing that a soldier does is raise his right hand and take an oath," Marsh said. "That oath is to support and defend the Constitution of the United States."

It is important, he said, that the soldier understand

what it is he has sworn to defend, "which may place him in harm's way."

The soldier today has a vested interest in at least two of the purposes of the Constitution, he said. "One is to provide for the common defense, and secondly, to secure the blessings of liberty. You can't have the blessings of liberty unless you provide for the common defense, and by their service here they are performing a constitutional function for our country."

On other topics, Marsh said:

- He expects no change in the Army's present position on women in combat. "We have tried to develop a program that maximizes the use of women in the force, but by the same token avoids the direct combat role. We believe that is consistent with current national policy."

- He expects the cap on the size of the force to remain at its current level of 781,000 through the end of the decade. The cap has been in effect since 1981.

(Charlie Bowden works in the Munich bureau of Stars and Stripes.)



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Michigan Wolverines expected to topple Notre Dame

BY SKIP VAUGHN

Lou Holtz and Notre Dame travel to Ann Arbor, Mich., this weekend to take on the Michigan Wolverines.

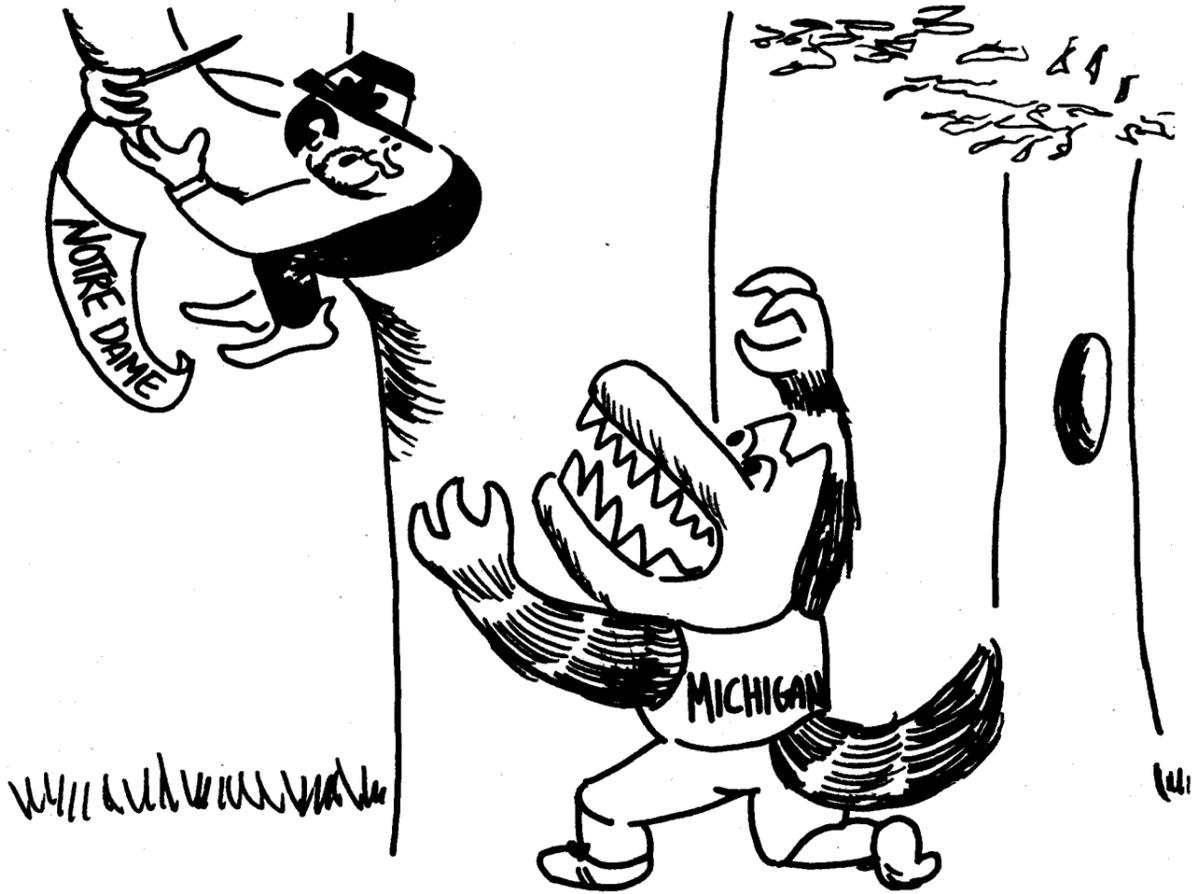
Coach Holtz has a fine team led by Heisman Trophy candidate Tim Brown, a 6-foot 195-pound senior flanker. The Fighting Irish finished 5-6 last season, including a big 38-37 win over Southern Cal in the finale.

The Wolverines counter with senior tailback Jamie Morris (5-7, 180). Coach Bo Schembechler has eight returning starters on offense and seven returnees on defense from a team that went 11-2 last season. Chris Zurbugg, who was Michigan's starting quarterback in 1984, is expected to start in place of all-star QB Jim Harbaugh who has graduated and joined the Chicago Bears.

Last year, the score was Michigan 24, Notre Dame 23. It could be that close again. The pick here is...Michigan.

Total results of Skip's Picks last week were unavailable at presstime because of the Labor Day holiday. Here are the predictions for this week's selected games in major college football:

- Notre Dame at Michigan— Mich. by 4.
- Alabama at Penn State— Penn State by 3.
- Kansas at Auburn— Auburn by 21.
- Clemson at Virginia Tech— Clemson by 14.
- Northwestern at Duke— Duke by 7.
- Florida State at E. Carolina— FSU by 21.
- Tulsa at Florida— Florida by 10.
- Oregon State at Georgia— Ga. by 24.
- Cincinnati at Louisville— Cincinnati by 10.
- Virginia at Maryland— Maryland by 7.
- Memphis State at Vanderbilt— Vandy by 13.
- Arkansas at Ole Miss— Ole Miss by 1.
- Tennessee at Miss State— Tenn. by 7.
- No. Carolina at Oklahoma— Okla. by 14.
- N.C. State at Pitt— Pitt by 10.
- Richmond at Wake Forest— Wake Forest by 21.
- W. Carolina at So. Carolina— SC by 17.
- Iowa State at Tulane— Tulane by 13.
- William & Mary at Navy— Navy by 7.
- Arizona State at Illinois— Ill. by 3.
- Rice at Indiana— Indiana by 10.
- Iowa at Arizona— Iowa by 7.



- Baylor at Missouri— Baylor by 7.
- UCLA at Nebraska— Nebraska by 10.
- Okla. State at Houston— OSU by 13.
- Purdue at Washington— Wash. by 21.
- Hawaii at Wisconsin— Wisc. by 7.
- Holy Cross at Army— Army by 3.
- Temple at Boston College— BC by 7.
- Syracuse at Rutgers— Rutgers by 4.

- W. Virginia at Ohio State— Ohio St. by 7.
- Texas Christian at Air Force— AF by 10.
- Brigham Young at Texas— Texas by 7.
- Oregon at Colorado— Colorado by 21.
- Utah State at Kentucky— Ky. by 24.
- Wyoming at Washington St.— Wyoming by 10.
- Cal-Fullerton at LSU— LSU by 30.
- Alabama A&M at Jacksonville— Jacksonville by 7.

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Cats can avoid dangerous disease through vaccination

BY PAM ROGERS

It seems that Americans have always had special bonds with their pets, treating them as members of the family, and spending millions of dollars every year on pet food, supplies, and services.

These days, a pet is more likely to be a cat than a dog. Americans now own more cats than dogs, perhaps because there are more single people living in apartments who realize cats are clean, quiet—in other words, good roommates.

This is National Cat Health Month, sponsored by the American Veterinary Medical Association. The month is intended to remind cat owners that cats need preventive medicine to lead healthy lives. That means vaccinations for feline diseases, among other things.

One of the most devastating feline diseases is feline leukemia—devastating because it's almost always fatal, and because it doesn't always produce specific symptoms. There has been a vaccine available for the prevention of feline leukemia for more than two years, but some cat owners and even veterinarians have been slow to have cats vaccinated.

Dr. Edwin White, a Decatur veterinarian, said the disease, caused by a virus, has long been misunderstood. It was once thought to be a cause of leukemia in humans, a theory that has been disproven. The term leukemia is inaccurate, since it doesn't cause leukemia but suppresses the immune systems of its feline victims. Veterinarians today generally agree that the feline leukemia virus is host-specific. That means it's a cat virus. It doesn't affect humans.

No effective treatment

White feels that all pet cats should be vaccinated against the disease, since the alternative for a cat that develops feline leukemia is a slow, painful death.

"There's no effective, dependable treatment. Some things that will work for one kitty—next time you try them won't work for another one," he said. The only treatment in wide use right now is supportive therapy,

including appetite enhancers, vitamins and intravenous fluids.

Feline leukemia isn't a disease that follows a set pattern, according to White.

"Feline leukemia is not a disease itself as much as feline panleukopenia (distemper) or rhinotracheitis. With those diseases, everything is usually the same from patient to patient.

"Feline leukemia varies. It doesn't always show the same symptoms. I would say the problem is responsible for other conditions being much worse. The immune system is so interfered-with, they can't shake off minor diseases, and they become much worse," White said.

Virus

Cats get the virus through direct contact with infected cats, and mother cats can give it to their kittens through their milk.

A cat can carry the feline leukemia virus for months or even years before it exhibits symptoms of the disease. If it is allowed to mix with other cats, it can infect them with the virus, White said. Even a small percentage of vaccinated cats can contract the virus if they are constantly exposed to an infected cat. At this stage, only a blood test can show whether or not the cat has the virus.

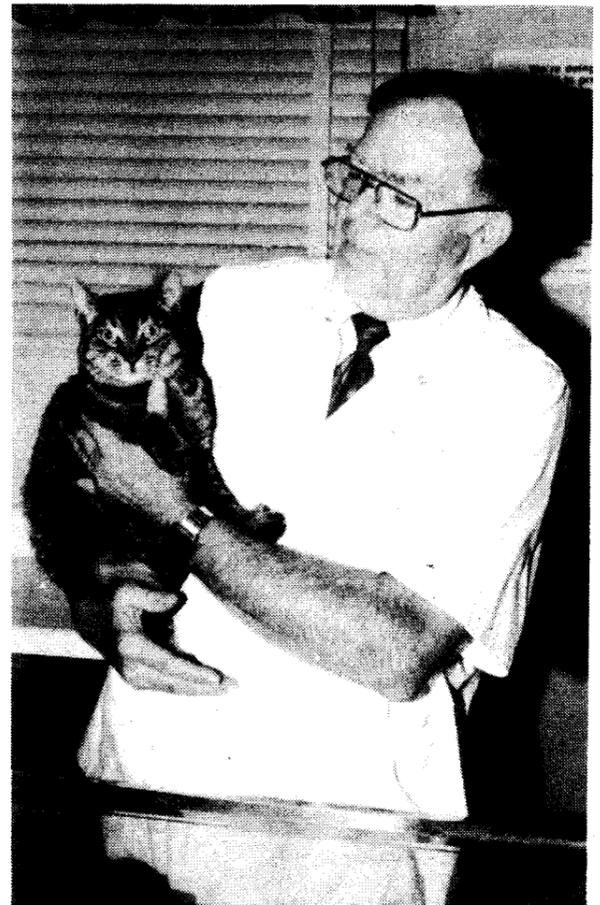
"The virus is somewhere in the body, walled off, and the cat is fighting it off with its immune system. Then something happens to stress the immune system. It may be an accident, or surgery or a heavy worm infestation. Then it (feline leukemia) spreads through the system," he said.

When that happens, the cat can exhibit several different symptoms.

"The symptoms are so variable, but one of the leading and most devastating is lymphosarcoma—that's the cancer associated with the disease, and it

forms big lumps, not always in the same places. They form mostly in the lymph nodes, but they can form in

(See Cats cont'd on Page 14)



PATIENT— White holds, B.C., a cat diagnosed as positive for the feline leukemia virus six months ago.

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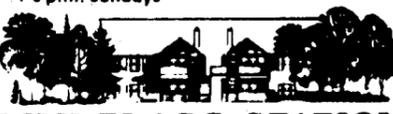
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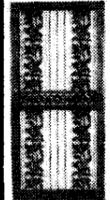
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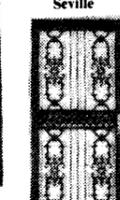
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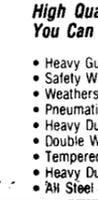
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**9-5 Monday-Friday
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Military retirees have their day

BY RUTH MECHAM

An annual activity day for military retirees and their families will be held Saturday, Sept. 19 at the Officers Club.

The event, sponsored by the post and the Redstone Arsenal Retiree Advisory Council, is designed to offer fun and information for all military retirees in the Huntsville area.

"We want to keep the retirees informed about things that affect them. We invite speakers who have a direct influence on matters which concern the retirees and their families," said Lewis Spencer, retirement services officer.

Maj. Gen. Thomas Reese, MICOM commander, will deliver welcoming remarks to the anticipated 500 people. During the opening ceremony, the 50 state flags along with the Army flag will be on display in the club and music will be provided by the Army Reserve Band from Fort McClellan, Ala.

Other speakers include Lt Col. H.W. Bushey Jr., chief, Department of the Army Retired/Veterans Affairs Division; P.B. Wolfsheimer, director, Retired Pay Operations, Army Finance and Accounting Center, Indianapolis, Ind.; and state Rep. Morris J. Brooks.

The day is full of events and activities for the whole family. There will be information booths, similar to a county fair, to assist the military retirees and their family members with a variety of services.

Among the booths, Fox Army Community Hospital will conduct free blood tests and blood pressure checks on the spot. The dental activity will conduct a quick dental check and make recommendations for dental services. And the staff of the military personnel office will be on hand to answer questions about identification cards, Champus and other programs that affect the retired. "These are just a few (of the) booths that will be set up in the ballroom of the club," Spencer said.

The activities are scheduled from 7:30 a.m. to 12:30 p.m. Registration will begin at 7:30 a.m. All activities are free of charge. Lunch will be offered by the club in a buffet style make-your-own-sandwich and beverage; cost for the meal will be \$3.

"This year we will have 100 or more door prizes which will be presented during the day," Spencer said. "All door prizes were donated from Huntsville area businesses, various clubs on the arsenal and the Post Exchange and Commissary. A clown will be on hand to delight the young children also."

For more information, call Spencer at 867-2022 in building 3708 located near gate 10.



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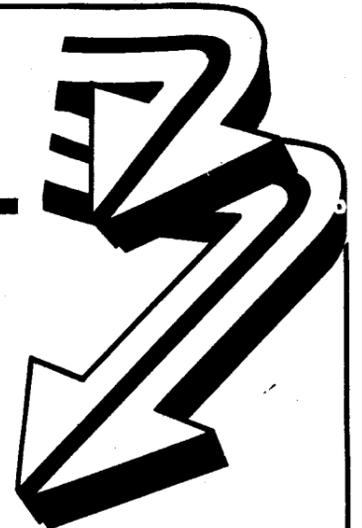
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Craft shop plans bicentennial display

Redstone's Multi-craft Shop is offering its tribute to the Bicentennial of the Constitution through a display of antique reproduction furniture and with a special craft project.

Patrons will bring in furniture and other wooden items they have made for the display scheduled for Sept. 14-19.

"There will be at least one quilt on display," said June Hughes, manager of the shop.

Charles Shalansky, woodworking instructor, is coordinating the furniture display.

In addition to a roll-top desk made by one of the shop's patrons, there will be smaller wooden items.

"We'll have a couple of small bowls, a goblet, and a roll-top bread box," he said. There will also be several mirrors and curio shelves on display.

Crafters can try their hands at a lap quilting project in a pattern Instructor Kay Hoult has dubbed "Constitution Hall," a variation on the log cabin design. Participants in the Sept. 16 class that begins at 3 p.m. will make a pillow.

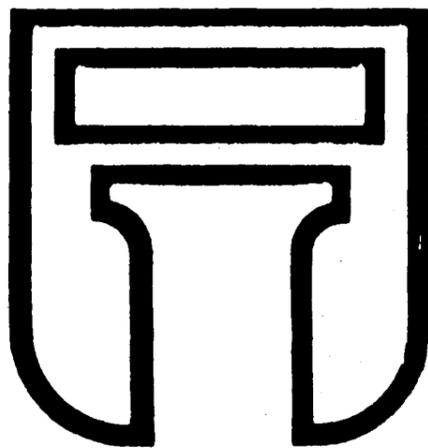
The exhibit can be viewed during the shop's regular hours. Hours are Tuesday and Wednesday, 1:30-10 p.m.; Thursday, 5-10 p.m.; Friday and Saturday, 9 a.m. - 5:30 p.m.; and Sunday 1-5 p.m. For more information call 876-7951.



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Archaeology

Ancient past explored at river's edge

An archaeological investigation of the Tennessee River bank along Redstone Arsenal's southern boundary has yielded evidence of occupation by Indian cultures over several millennia.

University of Alabama archaeologists found evidence that Indians from cultural periods spanning 9,000 years and maybe longer inhabited the river bank and adjacent land area. The longest archaeological profile trench ever excavated in the southeast was created during the exploration.

Among other things, the archaeologists determined that prehistoric settlement patterns in the area changed following the ice age as the climate warmed and the Tennessee River receded into a narrower channel.

The area investigated lies east of the Civilian Recreation Area and is the proposed site of a recreational marina development. By law, construction projects on federal property must be preceded by a survey and identification of cultural resources that may be impacted. The Environmental Office at Directorate of Engineering and Housing supervised the project as part of its historic preservation responsibilities.

A site a few hundred yards inland contained a burial and other features that qualify it for registration as a national historic site, archaeologists determined. The grave, capped with a stone slab, is believed to be about 3,500 to 4,000 years old. The Indian was interred in a flexed position. With him were some arrowheads and a tool kit of hammer stones and antler and bone implements for making them.

On the river bank, archaeologists found a number of camp or village sites. These long-buried sites were located by excavating backhoe trenches into the alluvial levee — a main trench between six and 14 feet deep extending more than a quarter-mile with intersecting shorter trenches. The trenches revealed “. . . an area of successive components separated horizontally and vertically but whose site

perimeters tend to overlap,” archaeologists reported.

The sites appeared in profile in the trench wall at various depths according to their age. “What you can see is a whole series of sites. I think they're not so much villages as fish camps that were occupied a portion of the year specifically to acquire food from the river,” said Charles Hubbert, a University of Alabama archaeologist.

The river-bank excavation unearthed pottery fragments, fire-cracked rock, bone, mussel shell, bean-type seeds, nutshell and other cultural materials. Ceramic fragments of clay blended with mussel shell were found in some of the newer sites while older ones yielded shards of pottery that had been tempered with grass or moss.

“One of the most interesting features,” commented Hubbert, “was a bell-shaped pit, about four feet deep, full of large mussel shells, potsherds and flint chips.

“Some of the shells hadn't been opened so the mussels were apparently being cooked in that pit in some way when for some reason the people left there, maybe had to leave in a hurry.”

Mussels were a diet staple for the Indians. Hubbert said people today would pronounce them tasteless and tough.

Also found was a lithic workshop where stone implements were made and an associated hearth thought to have been an annealing furnace for heating flint to make it easier to work.

The oldest site in the trench was more than 13 feet underground and about 7,000 years old.

Hubbert is in the last year of a three-year “intragovernmental loan” assignment to Redstone Arsenal to assist the Army in identifying archeological sites. “Redstone is in an area that is particularly rich in sites and supported large numbers of prehistoric people,” he said.

Unfortunately, archaeological sites that are within the plow zone have been broken up for the most part. Archaeologically-speaking, “artifacts are important only in how they can enlighten us to the life-ways of extinct

societies,” said Hubbert, whose specialty is settlement patterns.

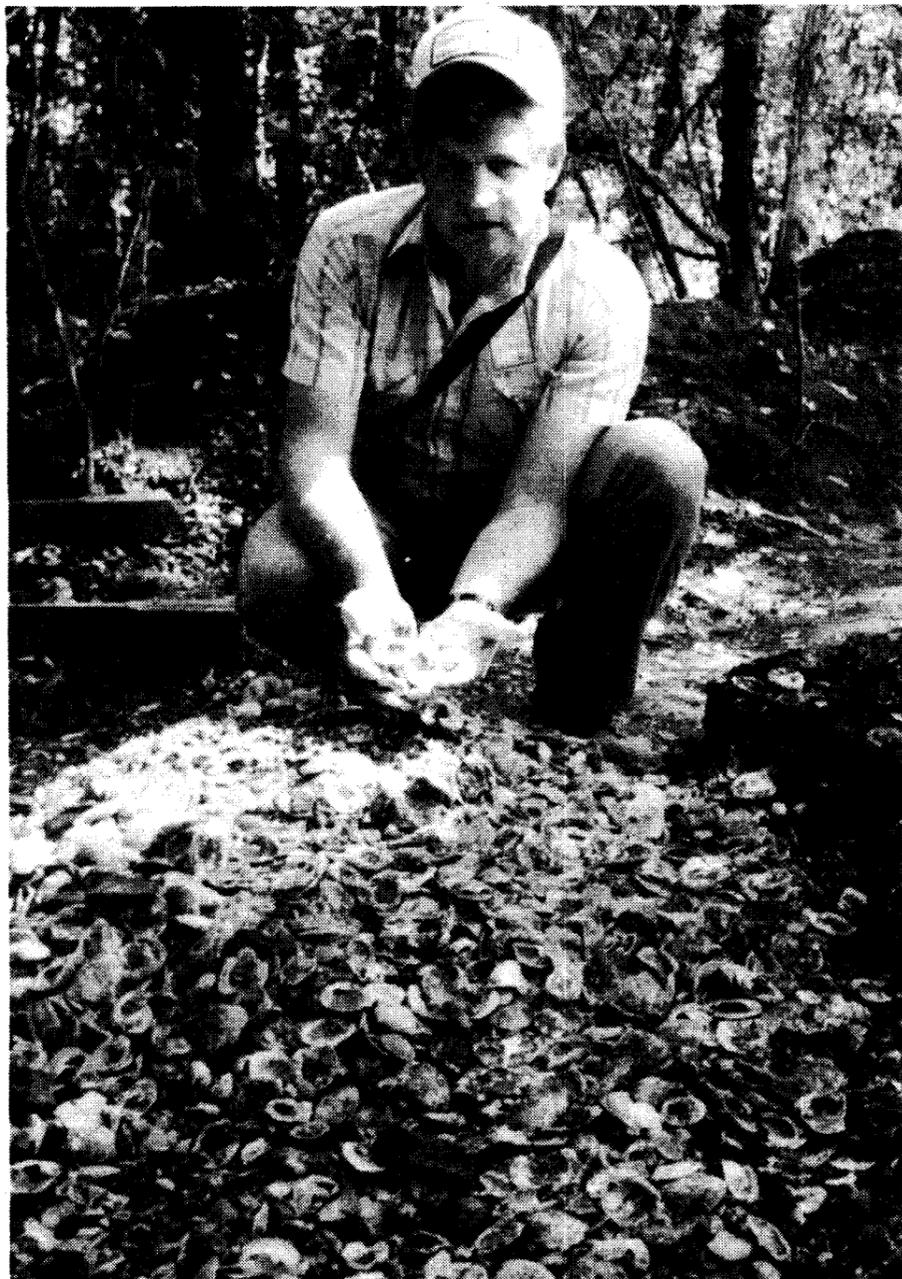
“If you dig up and destroy a site, after that the artifacts are just specimens. Archaeology is a lot more than recovering pots, bones and arrowheads.”

Tentative construction plans for the proposed marina call for excavating a channel through the levee to connect the river and an inland swamp which will be dredged to form a recreational lake. The archaeologists located a place in the levee where they believe a channel can safely be excavated but recommended that an archaeologist be present when the cut is made to make sure there is no damage to important cultural deposits.

Archaeologists know that the first inhabitants of this area were here more than 10,000 years ago during the late ice age. What they have not known is why evidence of these Paleo-Indian cultures appears in upland areas but not along the river bank. “One of the differences we noted is that although the river valley was the focus of settlement, we never found Paleo-Indian sites in the same location as the later (Archaic, Woodland, Mississippian) sites. We always found them farther back in the flood plain and didn't know why. We had figured that they (Paleo-Indians) had an economic focus on a set of upland resources. But as a result of these tests, we have found that the Paleo-Indians weren't there because the river bank wasn't there.”

The tests show that the river bank has been built up by alluvial deposits over the past 7,000 years.

“So, apparently, when Paleo-Indians were living here, where the bank is now was part of the river bed. Several environmental things caused the river bank to start developing. The Paleo-Indians came along in the late ice age. It was 15 degrees cooler with considerably more precipitation, snow and rain. The river was carrying much more water and the river bed was wider and perhaps deeper and flooded more often. After the ice age, the weather became more like it is at present and that's when the levee started building up. Before that, the area was too low for occupation.”



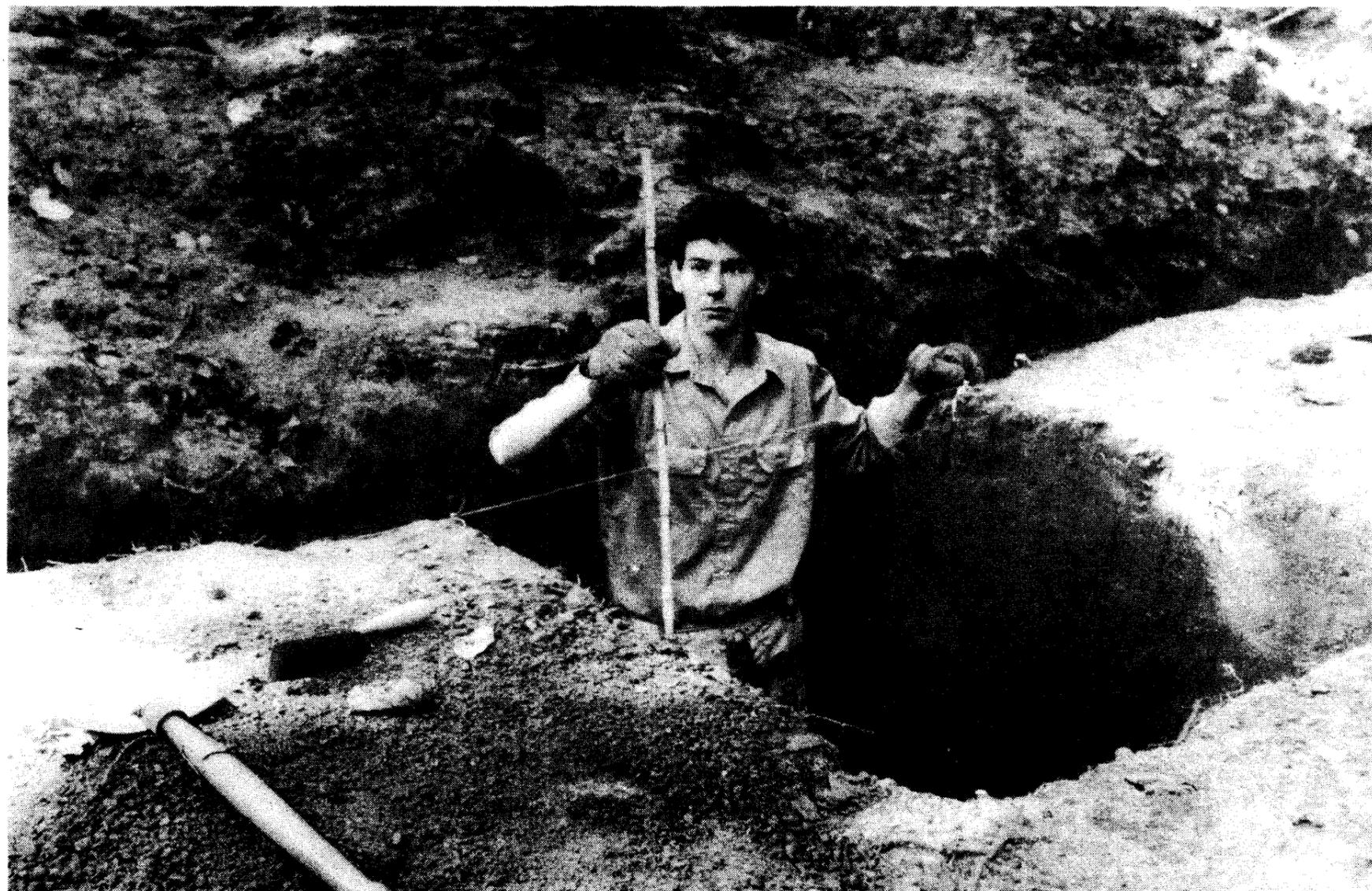
OLD SHELLS — Bill Schroder, chief of the Army Environmental Office here, sifts through a pile of mussel shells excavated from the river bank where they had been discarded by Indians after the contents were eaten.



LONG CUT - A 1,500 foot archaeological profile trench, the longest ever excavated in the southeast, yielded information on 7,000 years of human habitation of the river levee. The trench recently was filled in upon completion of the year-long project.



UNUSUAL FIND - Bill Schroder kneels above a large cluster of mussel shells exposed in the profile trench. Since the mussels were unopened, archeologists speculate they may have been put in a pit for cooking and then abandoned.



HEARTH SITE - University of Alabama student Bill Brown takes a depth measurement during excavation of an ancient hearth site.

Redstone has program aimed at preventing eye injuries

BY RUTH MECHAM

Each year thousands of people lose their most valuable sense needlessly due to eye injuries. The lucky ones only suffer temporary loss of sight, while the less fortunate end up in total darkness.

On-the-job injuries in most cases could have been prevented by using eye and face devices designed for protection.

Many people don't realize that the human eye lacks the healing powers of other body parts, therefore an eye injury can be the most tragic.

September is National Sight-Saving Month and according to the National Society to Prevent Blindness, "No one can save your sight but you."

In the last six months, there have been nine eye-related injuries on the arsenal. "Nine injuries is about average and I feel this is good considering the arsenal employs so many people," said Dr. Irene Roan, chief of preventive medicine.

The most common eye injury is a foreign object getting into the eye.

"The arsenal is a unique installation dealing mostly with research and development and we don't have a lot of industrial work which cuts down on the number of eye injuries," Roan said.

After someone is injured there is not much that can be done, so the arsenal takes steps to *prevent* eye injuries. "We have a vigorous safety program designed to keep supervisors and employees informed about eye safety," Roan said. About 1,000 people on the arsenal are part of the Occupational Vision program. The program consists of eye examinations for people working in areas which are determined to be eye hazardous.

"The greatest number of people (in the program) are employees working with laser equipment. We check all new employees for a base line exam and, if we find problems, we counsel them about seeing an eye specialist. The people working with laser equipment are re-checked every two years," Roan said.

Another area of concern are people working on video display terminals.



EXAMINING— Martha Wiseman, a nurse at occupational health, exams a patient's eyes.

"We re-check these employees every two years also. A person working on a terminal for long periods of time needs to look away from the terminal every once and a while and let their eyes focus on something else," she said.

There are various types of eye protection devices for different jobs. Standard safety glasses offer basic protection. Various types of goggles shield the eyes from gases, chemicals, liquids and flying objects.

Face shields and helmets worn with safety glasses of-

fer protection from heat, sparks, and splashes of molten metals.

Any program is only as good as the people working with it. "It is a very important program, an active program and we have had good results with the program. We hope people will continue to remember to take precautions to ensure eye safety," Roan said.

For more information about the Occupational Vision program, call the occupational health section at 876-8831.

Golf course has 27th annual ladies invitational tourney

Glenabis Latham won the 27th annual Redstone Arsenal Ladies Invitational golf tournament held Sept. 2.

Results were as follows:

- **First Flight**— Latham, low gross; Cathy Cox, second low gross; Martha Landers, low net.
- **Second Flight**— Virginia Payne, low gross; Marjo Shaver, second low gross; Donna Smaltz, low net.
- **Third Flight**— Margaret Labbe, low gross; June Young, second low gross; Kate Hoppenjans, low net.
- **Fourth Flight**— Mary Ann Achenbach, low gross; Marie Melochick, second low gross; Heidi Holmes, low net.
- **Fifth Flight**— Norma Smith, low gross; Jane Robinson, second low gross; Karen Garrett, low net.
- **Sixth Flight**— Jacqueline Kane, low gross; Mary Anderson, second low gross; Marilyn Harris, low net.

- **Seventh Flight**— Virginia Wise, low gross; Monte McGee, second low gross; Donna Smith, low net.
 - **Eighth Flight**— Ada Mittlesteart, low gross; Maggie Bennett, second low gross; Vera Stockard, low net.
 - **Ninth Flight**— Margaret McBreaty, low gross; Florence Teir, second low gross; Jenny Chambers, low net.
 - **Tenth Flight**— Vasant Dharia, low gross; Jewel Bramblett, second low gross; Judy Dwyer, low net.
 - **Eleventh Flight**— Nancy Smith, low gross; Dede Lipman, second low gross; Nancy Reilly, low net.
 - **Twelfth Flight**— Judy Beckham, low gross; Dorothy Sweet, second low gross; Beverly Robbins, low net.
- Longest drive and closest to the pin winners included Novella Zinkon, longest drive No. 3; Jane Robin-

son, longest drive No. 17; Vira Stockard, closest to pin No. 8; and Velma Jeters, closest to pin No. 11. Two of the golfers, Beverly Payne and Becky Pierce, also participated in the first Redstone Arsenal Ladies Invitational 27 years ago.



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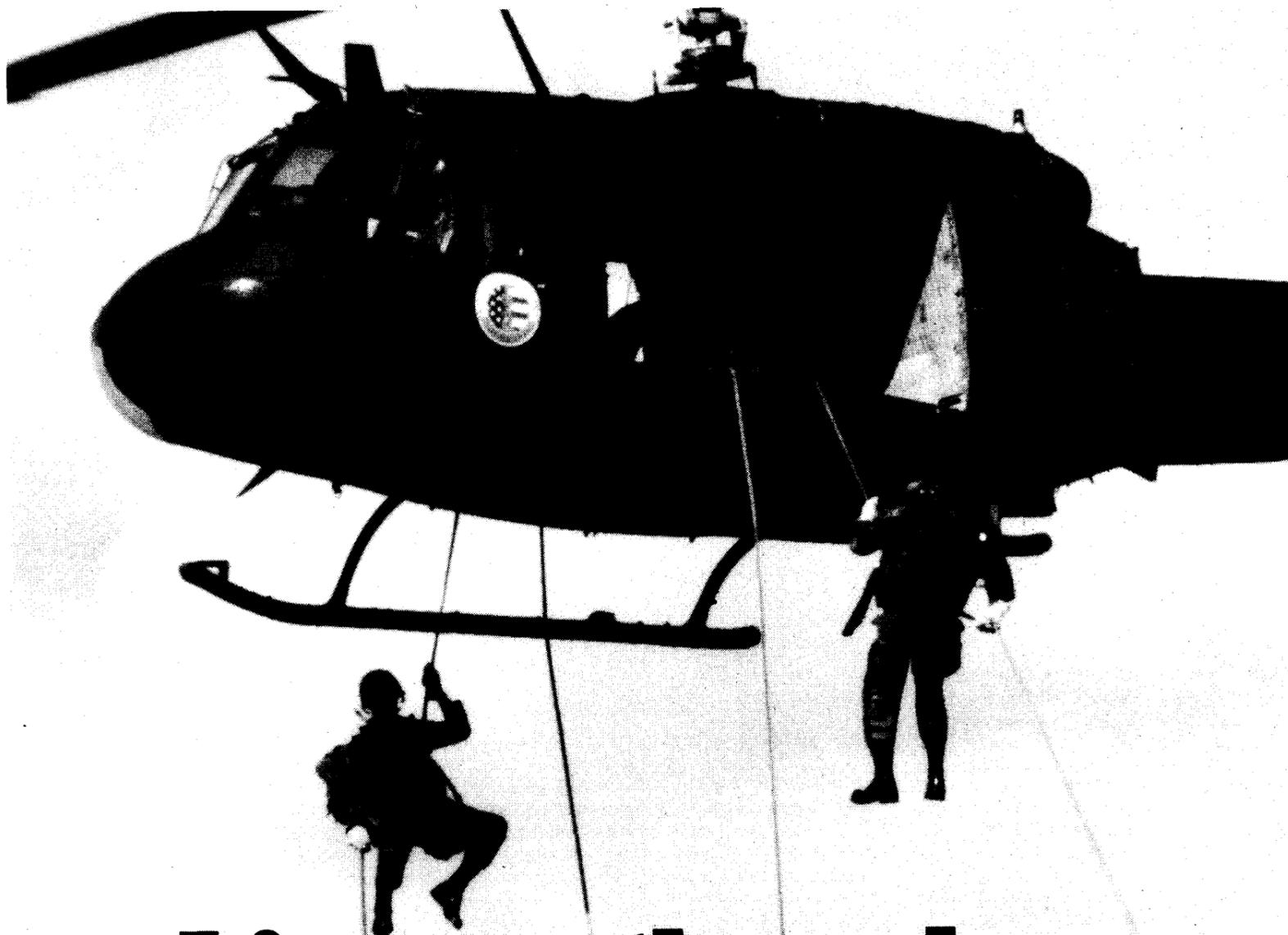
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Members of unit here build morale along with their bod

BY FREDA BRAME

Many soldiers coming to Redstone Arsenal may expect the mostly-civilian post to be laid-back in the area of physical fitness. Some may even wonder why they should be concerned with physical fitness while they are here.

These soldiers will be in for a surprise if they are assigned to B Company, 73rd Ordnance Battalion. This unit is very concerned with physical fitness training.

"Soldiers at Redstone Arsenal must be physically ready to deploy at any time," said Capt. Curtis Norris, the company commander. "We must keep them physically fit here so that they are physically able to perform in a front line unit."

Norris' company conducts physical training under the new master fitness standards. "The key is to know what exercises do what things to the body," Norris said. Different exercises are conducted to increase flexibility, strength and cardiovascular endurance, he explained.

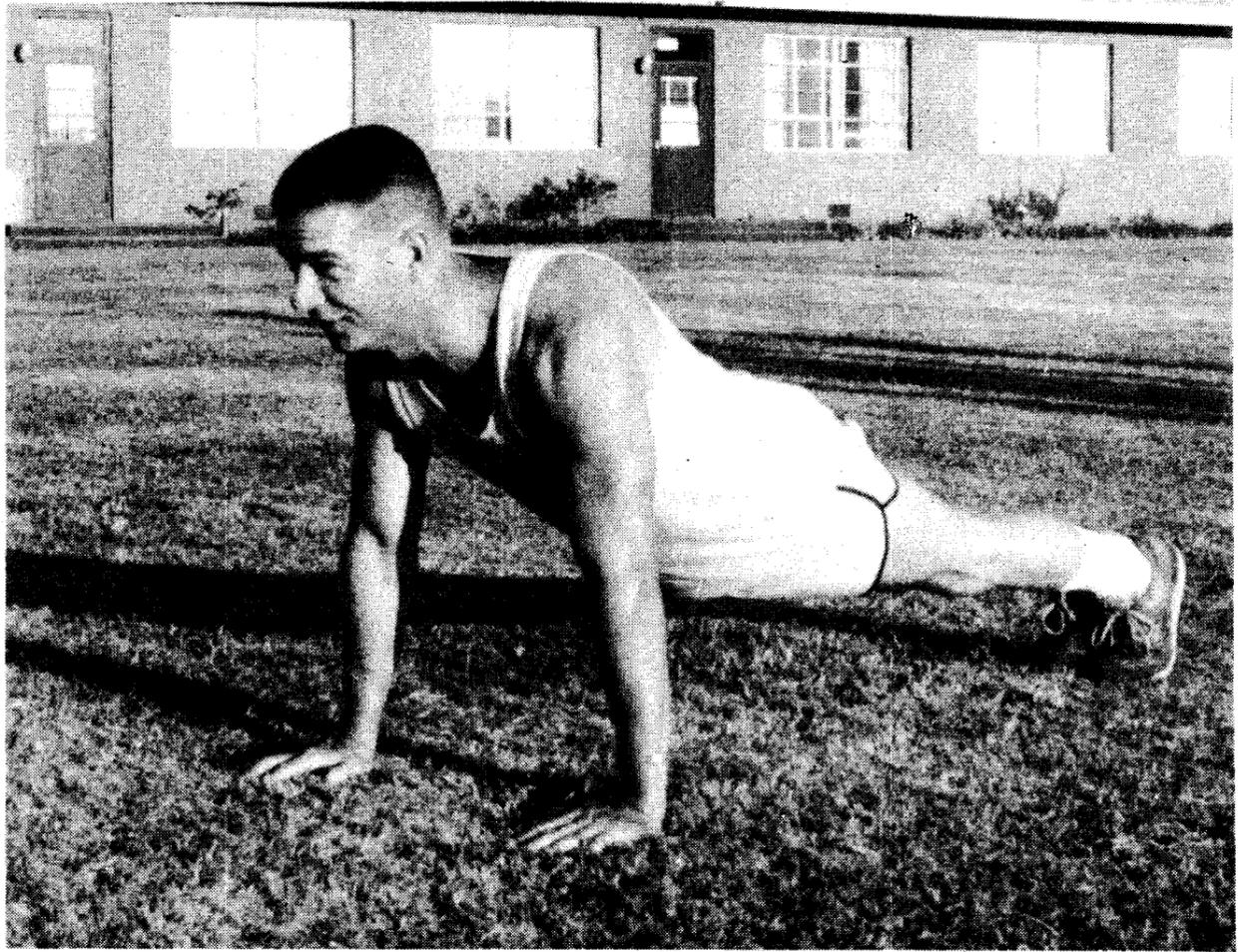
The master fitness trainer (MFT) program has greatly improved the unit's physical training, according to SSgt. Jerald Clements, a master fitness trainer at the unit.

"MFT has helped to develop a well-rounded physical training program that addresses all of the principles of physical fitness rather than just stressing running," Clements said.

However, getting soldiers to attend physical training is still a problem, Clements added. "Soldiers must attend PT regularly if they are going to get anything out of it. Yet many will find some reason not to do PT if they can. They try to do well on their skills qualification test but they just shoot for the minimum on their PT test."

B Company has two major strategies for increasing soldier participation in physical training, according to Norris. First, they conduct PT early so that soldiers can get to their work places on time. Secondly, they try to make physical training interesting and demanding so that soldiers will enjoy it.

The unit's physical training includes circuit training, aquatics training, partner assisted exercises, aerobics, unit runs and running an obstacle course, Norris said. "We try to do something different every training day," he added.



DEMONSTRATION — Sunday, the unit first sergeant, shows how to do a pushup.

Physical training is a morale booster, according to 1st Sgt. Ben F. Sunday. "Most of our soldiers do not work together," said Sunday. "Company physical training gets them together, talking to each other and builds unit esprit de corps."

Sp4 Michael Howland agrees with Sunday. "I enjoy physical training," he said. "It builds a bond between members of the unit. It helps less-inclined individuals

to do better. It's also about the only time you get to see B Company as a unit."

Many of the unit's older soldiers (over 40) also support physical training, according to SSgt. Douglas Dodge. "Soldiers at Redstone Arsenal should work harder to stay physically fit because they have to set the example and standards for the trainees," Dodge said. "If they don't see us doing it right, they'll go to their new units with a bad attitude toward PT."

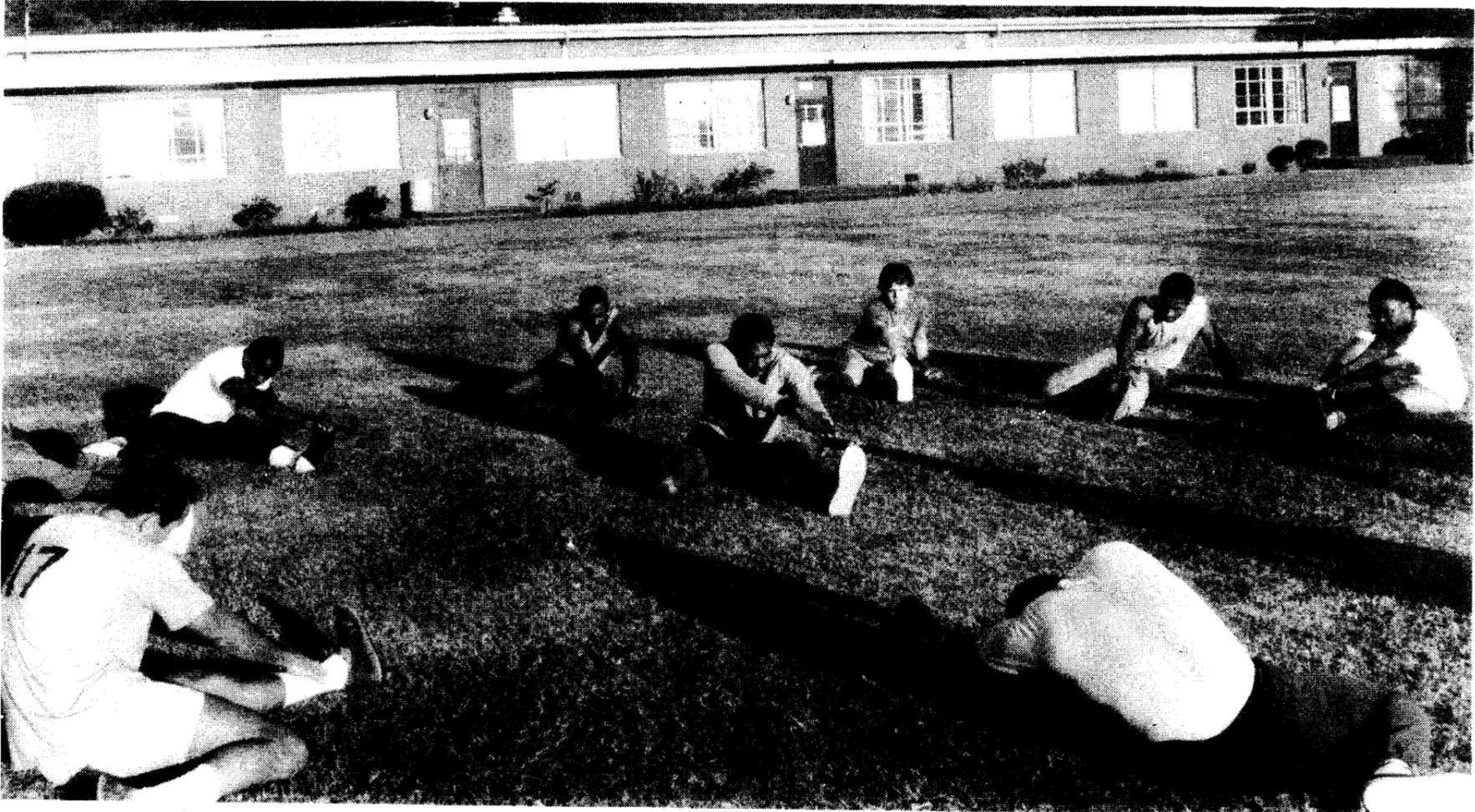


PARTNER ASSISTED — SSgt. Marvin Hankins does a partner-assisted pushup with help from Sp4 Karl M. Brown.

STRET

RUNN

lies through physical training sessions



HING — The soliders do flexibility exercises.



VG — Memeber of Company B, 73rd Ordnance perform circuit training.

Cats

(Cont'd from Page 5)

the spleen and the liver. They can be visible underneath the skin in a variety of locations," White said.

A cat with the active disease doesn't always have lymphosarcoma, though.

"I'd say the second most obvious symptom is an unhealthy-appearing cat. It's weak, underweight, inactive, and on initial exam, it's difficult to pinpoint anything specifically wrong," he said.

Deadly disease

A cat with the full-blown disease may last as long as two weeks without treatment, or up to a month or two with supportive treatment, according to White. But once a cat reaches that stage of the disease, he believes the kindest course of action is to have the animal put to sleep.

The best way to ensure your cat never gets feline leukemia is to have it vaccinated. Your veterinarian will first give the cat a blood test to determine whether or not the virus is present in its blood cells. If the test is negative, the cat will be given a series of three shots over a period of several months, and will need annual boosters afterwards.

If the blood test is positive, the veterinarian may do another type of blood test which must be sent away to be analyzed. This test looks for the virus in the liquid portions of the blood. If that test is negative, the doctor may go ahead and vaccinate your cat.

"The thinking is that nationwide, there is a low percentage of infection in all of the cat population. This is where some practitioners think it's not a worthwhile procedure to vaccinate. But if it's your cat, or my cat, then it's a 100 percent incidence."

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Soldier's posters get safety message across

BY JEFF WATSON

For a sergeant at the Ordnance Missile and Munitions Center and School, drawing attention to his ideas means just that: using his artistic abilities to convey a message.

SSgt. Bruce Howard, an instructor with the primary circuits team in the Electronics and Technology Training Department (ETTD), uses his skills as an artist to draw safety posters for the department. His work depicts everyday common sense safety in an often humorous, sometimes serious manner. His 'models' for his poster victims are his fellow workers.

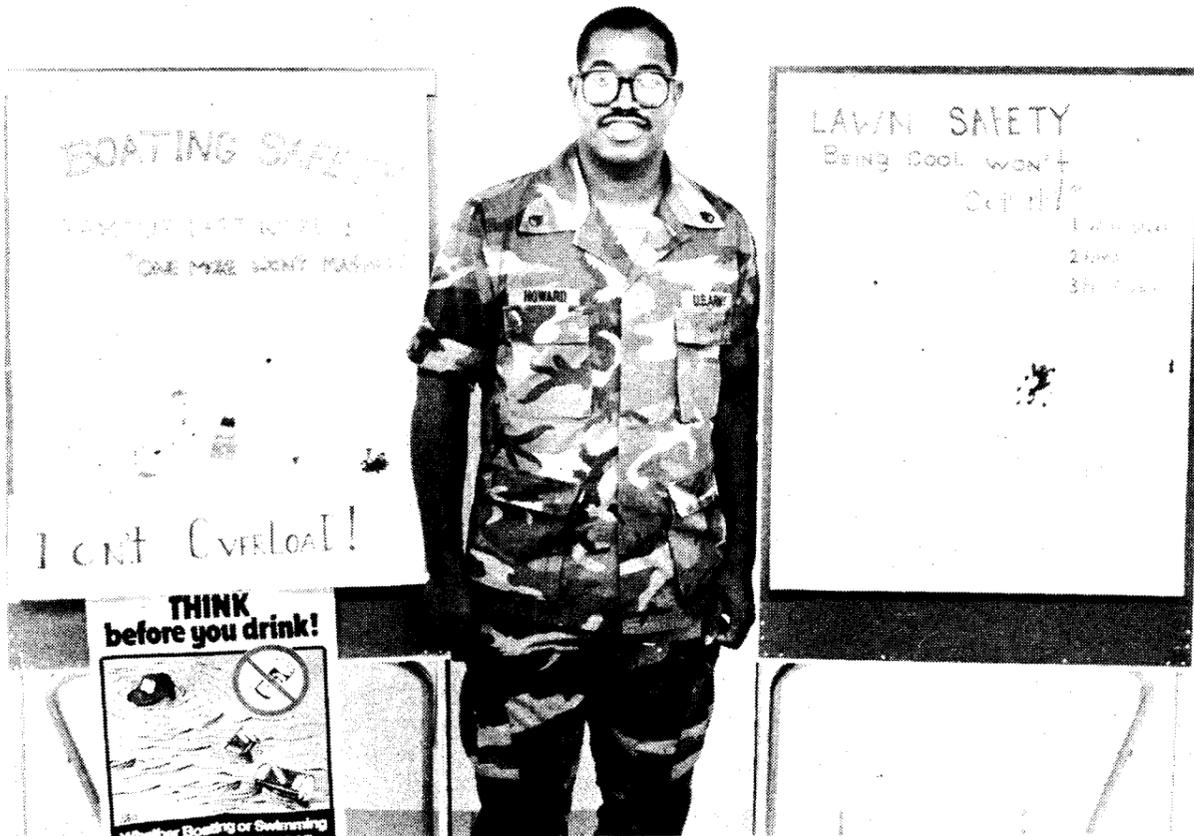
The idea of a safety display was conceived by Maj. David Knight, ETTD director. After reading about several drownings, he felt that a lot of common sense safety measures were being ignored. Meeting with William Napier, the department safety officer and chief of the primary circuits team, it was decided that a strong visual display was what was needed. Napier was aware of Howard's drawing abilities and sought his help.

Howard says he has always been interested in art. When he was 10, he would draw comic book characters and doodle constantly. In high school he took as many art courses as he could and dreamed of being a professional artist. Other activities began to capture his interest, though, and his artistic endeavors were placed on hold.

Howard joined the Army right after his 1976 graduation from J.O. Johnson High School in Huntsville. Except for a brief enrollment at Alabama A&M after his first enlistment, he has served in the military for almost 10 years. The safety posters are among the first things Howard has drawn in a long time, he says.

"I used to love to draw," Howard says. "After I got involved in other things, the fire for art never really came back. However, drawing the safety posters and some fliers has picked my interest back up and I plan to do more."

The toughest part of producing a poster is coming up with the themes, he says. When a poster is requested, he starts watching and thinking about the topic, looking for ideas to include. Once he selects an idea, he must then decide how to present the message



HOWARD

in a form that will make people take notice. Howard makes well-known department personnel the 'stars' of the posters in a humorous accident-about-to-happen situation.

Once he knows the subject, it may take him several days to formulate a poster, he says. Actual drawing time is normally an hour or less.

"Howard is an outstanding instructor and soldier. This is just one side of him not many people knew,"

Knight said. "The posters are part of a continuing program here in the department to make people more aware of safety."

"Mr. Napier and sergeant Howard conceived the idea for the posters and have done an excellent job. We think they do a good job of selling safety and that is the main point. Everyone takes them in light, and is anxious to see who sergeant Howard has included in his latest one."

Officers wives host annual Oriental carpet sale

The Officers Wives Club is making plans for its annual charity rug auction next month, with proceeds to go to the club's scholarship and charity funds.

The auction is one of the major money-makers for the nonprofit organization. The event this year will be structured as in the past, with Oriental rugs, small antiques and military memorabilia for sale, according to Marianna Liberatore, chairman for the auction.

This will be the third rug auction the club has sponsored. Its members consider the event a good way to do early Christmas shopping, as well as a way to learn more about Oriental rugs and antiques.

"We're really excited. We think it's a good deal, and we'd like to invite everyone to join us," Liberatore said.

The auction will be held at the Officers Club Oct. 3. Preview and registration begins at 7 p.m., and the sale begins at 8. For more information call Liberatore at 837-8733.



RUG SALE PLANNERS— Members of the Officers Wives Club make plans for their annual rug auction. From left are Marianna Liberatore, Diane Patch and OWC President Toni Taylor.

Center

(Cont'd from Page 1)

At the heart of the new information processing system will be a fiber-optic local area network. This will serve as the communications means for electronic mail and access to the Worldwide Military Command and Control System. Access to such other automated systems as FORECAST, OPTIMIS, LOGNET and HIOS will also be provided.

Engineering, installation and integration of the new system represent more than a \$5-million effort, Nieder said. It is contracted to the BDM Corporation of McLean, Va. The contractor also will provide maintenance for the upgrade for five years. "Completing the installation of the new system will take 10 months, with a 90-day window at the end to conduct a 30-day operational test and demonstration of the overall operations," Nieder said.

Nieder noted that the AOC upgrade may serve as a model for similar upgrades at other commands or activities. (Arnews)

NCO, soldier of year honored at luncheon

Redstone's NCO of the year and soldier of the year will be honored at a luncheon Sept. 11 at the NCO Club.

The luncheon, to honor this year's winners and to recognize gift sponsors, will start at 11 a.m.

Sgt. William White, the NCO of the year, and Sp4 Richard McCarthy, the soldier of the year, will receive a host of gifts from local businesses and various clubs on the arsenal.

"The luncheon gives us the opportunity to honor their achievements and to recognize sponsors from the Huntsville community along with various sponsors on the installation," said Sp4 Ron Colburn, luncheon coordinator.

White and McCarthy will also receive Army Commendation Medals from Brig. Gen. William Fiorentino, program executive officer for forward air defense. Fiorentino is the scheduled speaker for the luncheon.

White is to participate in the Army Materiel Command NCO of the year competition in October.

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COURSE NAME	DATES	DAY	TIME	SEE
ADVANCED PHOTOGRAPHY	9/30-12/02	WED	6-8 P.M.	\$97
THE ART OF EATING WELL	9/28-10/26	MON	6-8 P.M.	\$54
CHRISTMAS WITH NO-GUILT GOODIES	11/09-11/16	MON	6-8 P.M.	\$29
CONV. ENGLISH AS A SECOND LANG.	10/01-11/19	THU	6-8 P.M.	\$75 + Bk
CONVERSATIONAL GERMAN, PART I	10/01-11/19	THU	6-8 P.M.	\$71 + Bk
CONVERSATIONAL ITALIAN, PART I	9/29-11/17	TUE	6-8 P.M.	\$71 + Bk
CONVERSATIONAL ITALIAN, PART II	9/30-11/18	WED	11 A.M.-1 P.M.	\$71 + Bk
CONVERSATIONAL JAPANESE, PART I	9/28-11/16	MON	6-8 P.M.	\$71 + Bk
CONVERSATIONAL SPANISH, PART I	9/29-11/17	TUE	6-8 P.M.	\$71 + Bk
ENGLISH AS A SECOND LANGUAGE FOR SCIENCE AND TECHNOLOGY	9/30-11/18	WED	6-8 P.M.	\$74 + Bk
FINANCING AND CLOSING A REAL ESTATE TRANSACTION	10/6-10/22	T&TH	6-9 P.M.	\$137
FIRST TIME HOME BUYERS	9/22-10/20	TUE	6-8 P.M.	\$60
THE HUMAN BRAIN--THE GREATEST PERSONAL COMPUTER	9/29-11/17	TUE	6-8 P.M.	\$75 + Bk
HELP YOUR CHILD SUCCEED IN SCHOOL	9/21-10/26	MON	10 A.M.-NOON	\$43
HOLOCAUST--A SURVEY OF RECENT LITERATURE	9/29-11/17	TUE	8-10 P.M.	\$75 + Bk
HOW TO PLAY PIANO DESPITE YEARS OF LESSONS	9/28-11/16	MON	6-8 P.M.	\$153 (Includes materials)
INTERIOR DECORATING FOR THE HOME	9/24-10/29	THU	9-11 A.M.	\$75
INTRODUCTION TO BIBLICAL GREEK	10/01-12/03	THU	6-8 P.M.	\$79 + Bk
INTRODUCTORY GENEALOGY: TRACING YOUR HERITAGE	9/23-10/28	WED	6-8 P.M.	\$57
THE MIDDLE EAST: A SURVEY OF HISTORY AND TERRORISM	9/29-11/17	TUE	6-8 P.M.	\$75 + Bk
OH NO! MY CAR WON'T START	10/06-10/27	TUE	6-8 P.M.	\$40
PHOTOGRAPHY FUNDAMENTALS	10/01-11/19	THU	6-8 P.M.	\$72
PHOTOGRAPHY TECHNIQUES	9/29-11/24	TUE	6-8 P.M.	\$84
PLEASE, YES AND THANK YOU	I - 9/20 & 9/27 II - 10/18 & 10/25	SUN SUN	2:30-4:00 P.M. 2:30-4:00 P.M.	\$30
READING AND STUDY SKILLS FOR COLLEGE STUDENTS	I - 9/22-12/01 II - 9/21-11/25	T & TH M & W	8-10 A.M. 6-8 P.M.	\$180 + Bk
READY, SET, SHOP AND 'BOW' (Shopping trip to Birmingham)	11/17 & 11/20	TUE FRI	8:15 A.M.-7:30 P.M. 9-11 A.M., 1-3 P.M.	\$39
RESIDENTIAL BUILDING FUNDAMENTALS	9/23-11/11	WED	6-8 P.M.	\$85 + Bk
SATURDAY POTPOURRI AND HERBAL WREATHS WORKSHOP	11/14	SAT	9 A.M.-NOON	\$40
SIGN LANGUAGE, PART I	9/24-11/12	THU	6-8 P.M.	\$56 + Bk
SIGN LANGUAGE, PART II	9/28-11/16	MON	6-8 P.M.	\$56 + Bk
STAINED GLASS, PART I	10/19-11/09	MON	6-8 P.M.	\$54 + Sup.
STAINED GLASS SAMPLER	10/05-10/12	MON	6-8 P.M.	\$28
STRESS MANAGEMENT THROUGH HYPNOSIS	10/06-11/10	TUE	6-8 P.M.	\$68
SUCCESSFUL PERSONAL MONEY MGT.	9/22-10/27	TUE	7:00-8:30 P.M.	\$55
WHEAT WEAVING: A REVIVED ART	I-10/03 II-11/07	SAT SAT	10 A.M.-2 P.M. 10 A.M.-2 P.M.	\$37 \$37
A WILLIAMSBURG CHRISTMAS	11/04	WED	8:30 A.M.-NOON	\$34 + Sup.
AN INTRODUCTION TO THE WORLD OF WINES	9/17-10/08	THU	6:30-8:30 P.M.	\$90
A WOMAN'S GUIDE TO WALL STREET, PART I	9/26	SAT	9:30 A.M.-NOON	\$35
A WOMAN'S GUIDE TO WALL STREET, PART II	10/17	SAT	9:30 A.M.-NOON	\$35
WOMEN WHO LOVE TOO MUCH	9/29-11/17	TUE	6-8 P.M.	\$64 + Bk
YOUR HEART-PREVENTING CORONARY HEART DISEASE	10/22	THU	7-9 P.M.	FREE

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How safe is the M16A2 rifle?



WASHINGTON— Is there a safety problem with the new infantry rifle?

"No, the Army does not have a safety problem with the rifle," according to Paul E. Powell, spokesman for the Army's Armament, Munitions and Chemical Command at Rock Island, Ill.

"Problems with the rifle reported earlier this month have caused unnecessary concern with soldiers about the M16A2, said Powell. "Defects found in some of the new M16A2 rifles do not present a safety problem and are limited to a small number of weapons."

Rock Island is where the Army controls distribution of the M16A2's. Out of a total of 33,000 M16A2 rifles acquired by the Army since last fall, about 3,200 to 3,400 of the affected ones went to units within the continental United States, and none overseas, Powell said.

"In fact," he emphasized, "all our reports indicate

that soldiers are pleased with the M16A2. The problem that we have identified with the rifle is limited to a faulty selector switch on some of the rifles.

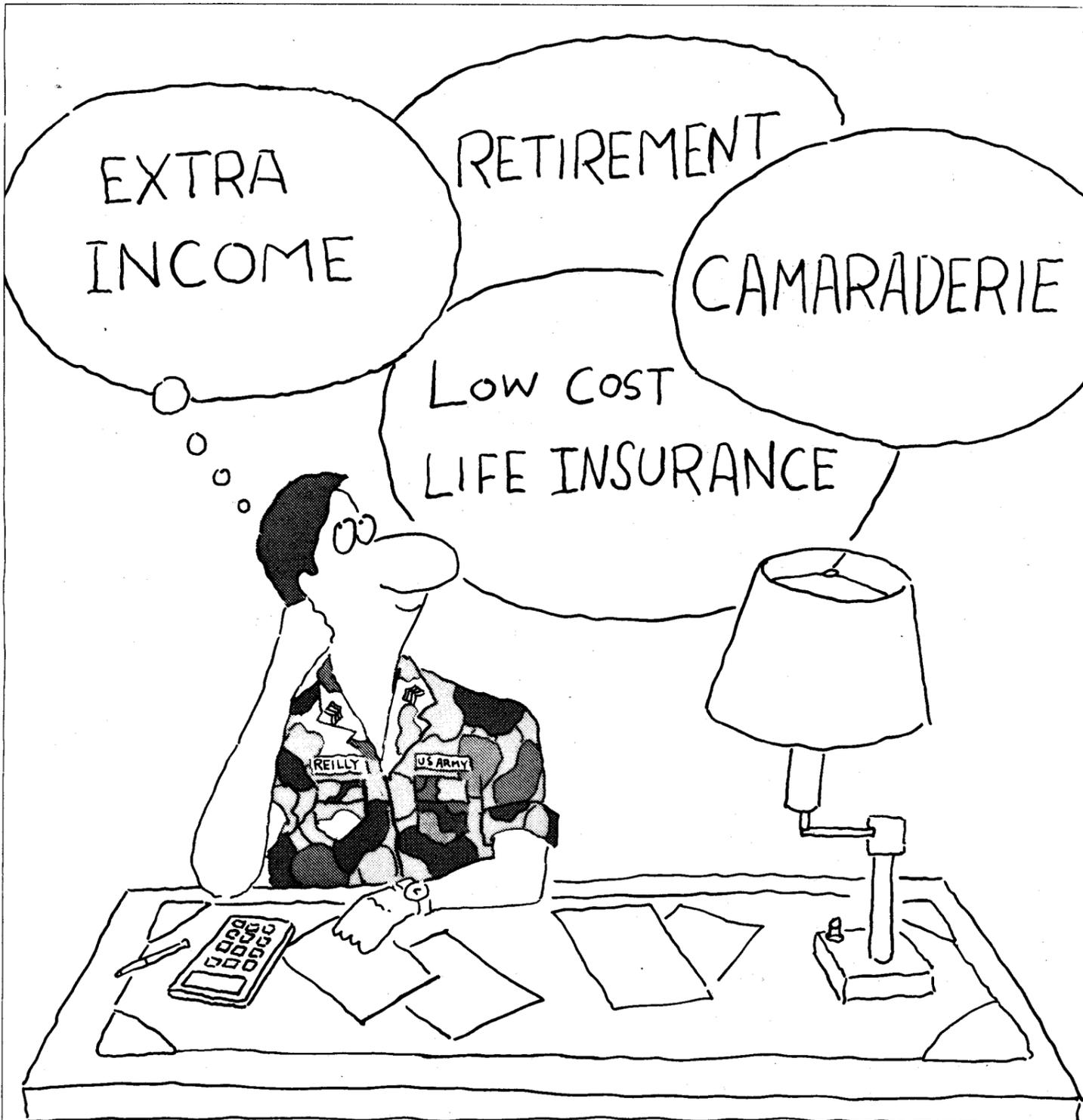
"It is not a problem with the entire 33,000," he added.

A soldier uses the selector switch to fire a single shot or a three-round burst.

If the switch does not function properly, the only problem a soldier has is that he gets a burst of four or five instead of the three-round burst.

If the problem with the selector switch were to occur in the field, no safety problem would exist, Powell explained. "And it can be corrected at the unit level."

The contractor has corrected its production, and has reworked and retested all rifles identified as having faulty parts. (Arnews)



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Worker's idea means cheaper bullets

A Missile Command employee who made it possible for the Army and Marines to buy training rounds at a reduced price has received more than \$5,000 for his suggestion.

Ray Summar is a program analysis officer detailed to the Close Combat Missiles Program Executive Office. When he was working in the Advanced Anti-Tank Weapons System Office, he thought of a way to save the Army and Marines some money when it came to buying AT4 tracer bullets. The bullets are used for training troops to use the anti-armor system.

"There was a contract option to buy additional rounds at a much cheaper cost (this year) than next year," Summar said.

"I suggested that we bring part of the FY '88 requisition forward into '87." His suggestion saved the joint forces \$523,638.

Summar was presented with his suggestion award by Maj. Gen. Thomas Reese, MICOM commander. This was his first adopted suggestion.



SUMMAR

Helicopters grounded to ensure safety

WASHINGTON— The Army issued a Safety of Flight Message Aug. 26 that grounded all AH-64 Apache helicopters.

A precautionary measure, this action was taken following the crash of an Apache for a mechanical failure in the tail rotor swashplate assembly, said Maj. Phil Soucy, an Army spokesman at the Pentagon, and affects all AH-64 aircraft in the Army's inventory.

The crash that prompted the grounding occurred Aug. 21 at Fort Rucker, Ala., killing the instructor pilot and injuring seriously the student pilot.

Helicopters away from home base for either training or operations will be allowed a one-time direct flight to the nearest military facility that can provide adequate security for the Apache.

The precautionary measure of grounding the fleet was taken now to ensure the safety of Army personnel.

The Army is investigating the cause of that tail rotor swashplate assembly failure. (Arnews)

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*Figures are estimates only, provided by the U.S. Environmental Protection Agency.

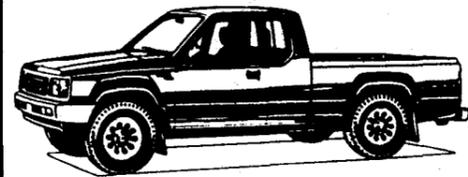


2118 DRAKE AVE. ★ PH. 880-6622

Mitsubishi. Suddenly, the Obvious Choice.



For 1988, Mitsubishi offers a complete line of trucks, vans and sport utility vehicles. From rugged, four-wheel-drive off-road vehicles to tough, sporty pickup trucks, the hardest choice will be which Mitsubishi you want to take home.



SPX MACROCAB

This rugged, roomy SPX MacroCab 4x4 features 2.6-liter, SOHC engine that churns out 109 horsepower. Its four-wheel drive can take you where you want to be, whether your destination is work or play. 19 City 22 Hwy.*



MIGHTY MAX SPORT LONGBED

The four-wheel-drive Mighty Max Sport Longbed features a 2.6-liter, SOHC engine, 5-speed manual overdrive transmission, power-assist vented front disc brakes and a tough, welded double-wall cargo box.
19 City
22 Hwy.*



Bentley Mitsubishi & Bentley Pontiac Will Have A RFCU Representative On Premises September 11th & 12th For Your Convenience!

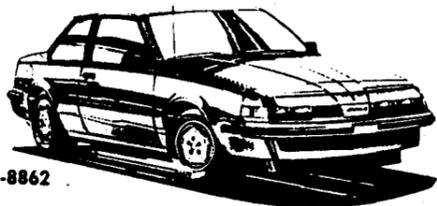


USE REDSTONE FEDERAL'S GREAT RATES PLUS G.M.'S REBATES

PONTIAC WE SELL EXCITEMENT

BEEN BITTEN BY THE "NEW CAR BUG?" WE'VE GOT THE CURE!

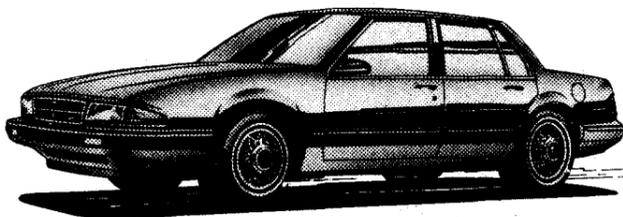
EXTENDED HOURS TO BETTER SERVE CREDIT UNION MEMBERS!



#S-8862

SUNBIRD

With front-wheel drive, rack and pinion steering, and a road-hugging suspension, the 1987 Sunbird is a spirited performer. Available as a coupe, sedan, wagon, hatchback or convertible, there's a style to suit—just about everyone!



PONTIAC BONNEVILLE



FIERO

Standard on Fiero for 1987 liter fuel-injected engine, a 5-speed gearbox, rack and pinion steering and four-wheel power disc brakes.

STARTING AS LOW AS

\$8,696

PRICE INCLUDES GM REBATE

GET THE BIG G.M. REBATES —PLUS— GREAT BENTLEY DISCOUNTS!

STARTING AS LOW AS

\$9,182

PRICE INCLUDES GM REBATE

● OPEN 'TIL 8:00 P.M. FOR YOUR CONVENIENCE ●

BENTLEY PONTIAC

2120 Drake Avenue • 536-2475



A 50 Year Tradition

Two local buying clubs placed off-limits

Soldiers and other military personnel have been told not to do business with two buying clubs in the Huntsville area.

Maj. Gen. Thomas Reese, commander of the Missile Command and Redstone Arsenal, made the decision based on a recommendation by the Armed Forces Disciplinary Control Board to forbid military personnel from transacting business with Century Buyers and Futuristics.

The Armed Forces Disciplinary Control Board is not a punitive body, but a board established on a military installation to protect the interests of service members.

The order does not affect military personnel who had existing contracts with either of the businesses prior to July 21, 1987.

Both businesses offer discounts on merchandise to members who pay a fee for the privilege of making purchases through the club.

The board investigated complaints made by soldiers, and made its recommendation based on findings of misrepresentation, high-pressure selling and alleged violations of the Alabama Deceptive Practices Act. Evidence and testimony were supplied by the Better Business Bureau, Redstone's Provost Marshal Office, and by the Alabama Attorney General's Office. Representatives of both businesses also appeared before the board.

Army regulation does not require evidence of actual illegal activity for the board to recommend off-limits sanctions.

Help build the arc
 Association for Retarded Citizens



AUCTION

Cole's Auctioneers go Anywhere and Sell Anything
SAT. SEPT. 19 10:30 A.M.

72 ACRES—WILL BE OFFERED IN 24, 3 AC MINI FARMS. PROPERTY LOCATED ON LOW GAP ROAD

DIRECTIONS: from New Hope, AL take Old Gurley Pike 2 1/2 miles to Low Gap Road, from Huntsville, AL take 431 South go approximately 12 miles turn left on Cave Springs Road go 2 3/10 miles turn right on Low Gap Road go 2 miles to property. See Auction Signs.

This is a beautiful 72 acres of rich farm land all open with approximately 1500 feet of paved road frontage has been subdivided into 3 acre mini farms and beautiful home sites. This property will be offered in 3 acre mini farms and as a whole. Pre-inspection invited. Plats available. Sale will be held on premises under Cole Auction Tent. Immediate possession.

TERMS: 20% Down day of sale, Balance due in 30 days. Short term financing available.

Auctioneers: Arthur L. Cole #SL617

COLE AUCTION CO., INC.

LICENSED BONDED INSURED
 4222 Oakwood Ave., N.W. Huntsville, AL 35810 (205) 539-0626

AFFORDABLE Chinese BUFFET

Finest Chinese Buffet in town. Why not give us a try! You'll get a whole lot for a little money.
 You'll Be Satisfied!

ALSO NOW SERVING MONDAY EVENING BUFFET

DINNER EVERY EVENING 5 to 9 LUNCH SUN. through FRI. 11 to 2

BAMBOO GARDEN 551-0914 or 534-9385
 Chinese Restaurant 2703 University Dr.

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AMERICAN CANCER SOCIETY

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"Pick a big winner."

Kodak
 PERSONALIZED
Poster prints

Special savings
 on poster prints.

20" x 30" only
\$11.96

12" x 18" only
\$9.71

Offer good only 1 September - 30 September, 1987.

Turn your own 35 mm negatives or slides into great, big, beautiful posters. Think of the fun you'll have with giant color posters of you, your friends, and your family. They're great for gift giving, decorating your home and office, dressing up a dorm room, or showing someone you care in a big way.

This ad was neither paid for, nor sponsored in whole or in part, by the Exchange service.

Kodak... serving
 the military
 worldwide.



A10-411MZ

© Eastman Kodak Company, 1987

AUCTION

Cole's Auctioneers go Anywhere and Sell Anything
SAT. SEPT. 19—2:00 PM
2004 HILL ST—HUNTSVILLE, ALA
ESTATE OF THE LATE REV. J. OTIS KING
FOR DIVISION UNTO THE HEIRS

Hill Street is located North of Oakwood Ave, NW on a hill directly behind Bell Bros. Auto Parts.

3 Bedroom Frame House with 2 Baths — Great Room — Dining Room — Eat-in Kitchen and Carport with Electric Heat and Window Air condition unit also Electric Range and Oven. Lot Size 100x150 feet. Immediate possession.

HOUSEHOLD FURNISHINGS
 Bedroom and Livingroom Furniture — Couches — Tables — Desk and Chair — Portable Fireplace — Kitchenette — Radio Equipment — 1975 Ford LTD Automobile and many other items not listed. Sale will be held on premises, Pre-Inspection invited. See Auction Signs.

TERMS: on real estate 20% Down day of sale, Balance due in 30 days, Car and household furnishings will be cash on day of sale.

Auctioneers: Arthur L. Cole #SL617

COLE AUCTION CO., INC.

LICENSED BONDED INSURED
 4222 Oakwood Ave., N.W. Huntsville, AL 35810 (205) 539-0626

REGISTER & VOTE!



Auto Shack



Case Price **9.48**
Mail-In Rebate **-3.60**
Final Cost **5.88**
Case Purchase Required for Rebate.

Quaker State 10W-30, 10W-40 or 30HD
Sale Price - 79¢ Qt.
Limit 1 case.
Reg. price thereafter.

AFTER REBATE
49¢ QT.

55 Month Battery
No exchange required.
40 Month - \$29.88
70 Month - \$45.88
84 Month - \$54.88

36⁸⁸

Kendall 10W-40
Sale Price - 64¢ Qt.
Limit 1 case.
Reg. price thereafter.

Case Price **7.68**
Mail-In Rebate **-3.00**
Final Cost **4.68**
Case Purchase Required for Rebate.

AFTER REBATE
39¢ QT.

THE BEST PARTS IN AUTO PARTS.

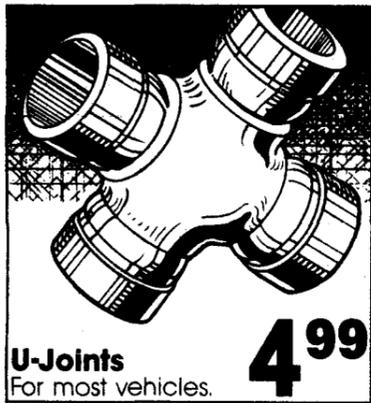


LIFETIME WARRANTY
New Water Pumps
For most domestics and imports.
Prices vary by application.

Example: For most '60-'83 Chrysler 6 cylinders #PC546. **18⁹⁹** WITH EXCH.

Remanufactured Water Pumps
One-Year Warranty.
Prices vary by application.

Example: For most '60-'83 Chrysler 6 cylinders #1349. **12⁹⁹** WITH EXCH.



U-Joints
For most vehicles. **4⁹⁹**



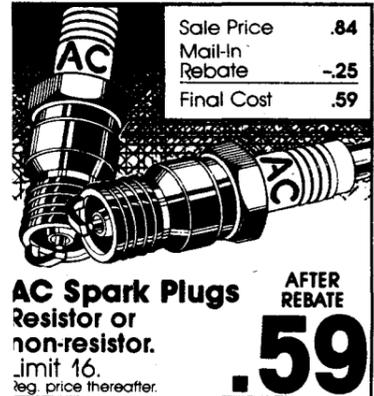
LIFETIME WARRANTY
New Fuel Pumps
Fits most '69-'85 Chevy 350 V-8's. #40725.
Prices vary by application. **9⁹⁹**



LIFETIME WARRANTY
Clutch Discs & Pressure Plates
Fits '62-'78 Ford and Mercury. #P893. #CA465.
Prices vary by application. **21⁹⁹**



Remanufactured Distributors
Fits '57-'74 Chevy V-8. #45109.
Prices vary by application. **27⁹⁵**



Sale Price .84
Mail-In Rebate -.25
Final Cost .59
AC Spark Plugs
Resistor or non-resistor.
Limit 16.
Reg. price thereafter. **.59** AFTER REBATE



Armor All Protectant
4 oz. Limit 2.
Reg. price thereafter. **.98**



Sale Price 1.59
Mail-In Rebate -1.00
Final Cost .59
STP Engine Degreaser
16 oz. Limit 2.
Reg. price thereafter. **.59** AFTER REBATE

LIFETIME WARRANTY
42,000 Parts

- Duralast Starters
- Duralast Alternators
- Duralast Shocks
- Duralast Clutches
- SKF Water Pumps
- Bendix Brakes
- Bendix Master Cylinders
- TRW Chassis Parts
- Maremont Mufflers
- Fuel Pumps
- Radiators
- Distributors
- Blower Motors
- C-V Joints & U-Joints

...AND MANY MORE!

IBM's
IBM Typewriters \$50.00
IBM (ball type) With Lift Off Correction Tab \$150
Call 881-5510

A Beautiful Luxury Apartment, Two Bedrooms, Two Baths, All Appliances, Laundry Room With Washer And Dryer, Fireplace, Lots of Hidden Storage, Walk-In Closet, Quiet Area Near Mt. Gap School, 1.8 Miles From Arsenal. \$475 Per Month. C & V Properties 882-1949

MINI FARM
Only 4 Miles From Guntersville State Park Lodge. 17 Acres, Barn, Stocked Pond, Paved Road, City Water, Cable TV, Only \$18,999. Some Owner Financing Available. Please Call 593-6188.

FOUR GREAT NAMES That Go Together!

- Airstream
- Holiday Rambler
- Winnebago
- Madison Travel Trailer

Serving You With More Since '64
MADISON TRAVEL TRAILERS
1707 Jordan Lane
837-3882

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Sharp. Northwest.
2626 Scenic View Drive.
3 Bedrooms, 1 1/2 Baths
Den, Carpeted, Fans
Central Heat & Air
\$450 Per Month
Plus \$450 Deposit
Plus Lease
Call 895-9888
After 5 & Weekends

Children's House of Montessori
2605 Leeman Ferry Rd.
HUNTSVILLE
Ages 2 1/2-5th Grade
6:30 a.m.-5:30 p.m.
539-5161
Summer Swimming

Madison Montessori Academy
Ages 2 1/2-5th Grade
6:30 a.m.-5:30 p.m.
533-4229
7887 Highway 72 West
12 Acres Between Wall-Triana & Hughes Road
Summer Swimming

HUNTSVILLE—OPEN 8AM-MIDNITE MON.-SAT., 9-6 SUN.
3210 Governors Drive 533-3727
1/2 block West of Triana

HUNTSVILLE—OPEN 8AM-9PM MON.-SAT., 9-6 SUN.
Hwy. 72 at North Memorial Pky. 852-7920
7540 S. Memorial Pky. at Byrd Spring Rd. 882-1800

FAYETTEVILLE—OPEN 7AM-8PM MON.-SAT., 9-6 SUN.
105 Hedgemont 433-1695
at College



OPEN NIGHTS AND SUNDAYS



Announcements

Planetarium program

A program to inform people about the stars, planets, and galaxies will be held at 7:30 p.m. Saturday, Sept. 12 at the Von Braun Astronomical Society Planetarium in the Monte Sano State Park in Huntsville. Observation of the night sky through the telescope will follow this program. Admission is \$1 per person; VBAS members are admitted free with their membership card. For more information or to reserve a space for a group, call 539-0316.

Civilian counseling

A briefing is presented regularly to keep supervisors of Army civilian workers informed on the services available to assist employees who may be having personal problems which impact job performance or attendance. The presentation covers the Employee Counseling Services program as provided in Army Regulation 600-85, the Federal Personnel Manual, and the determination of the Merit System Protection Board. AMC and MICOM policy is that at least 80 percent of all supervisors should participate in this training during each fiscal year. Other employees are encouraged to attend and to become familiar with the provisions of this program. The next scheduled session will be conducted 8:30-10 a.m. Sept. 15 in the first floor conference room, A-115, of building 5250.

Chapel events

The Catholic Parish Registration takes place after all Masses on Sept. 13; all Catholic families are encouraged to participate. Protestant Women of the Chapel begins its six-week study of the book entitled "Walking In The Spirit" at 9:30 a.m. Sept. 14 at Bicentennial Chapel; the book will be available at the first meeting; the group will meet each Monday at the same time through Oct. 19.

ACS volunteers

Army Community Service will hold a volunteer orientation at 9 a.m. Sept. 17 at ACS building 3491 on Honest John Road. This orientation will explain in depth the Volunteer Program and services provided by ACS. For more information, call 876-2859/5397.

Reaffirmation ceremony

Soldiers of the 73rd Ordnance Battalion will reaffirm their oath of allegiance to the country and Constitution in a ceremony set for 4:30 p.m. Sept. 10 on the parade field behind the Post Chapel on Patton Road. Ola L. Mize—who is a retired colonel, a native of Gadsden, Ala., and a Medal of Honor recipient of the Korean War—is scheduled to join in the reaffirmation ceremony which is among several local events celebrating the bicentennial of the Constitution.

Dental appointments

The Dental Activity says active duty personnel, their family members and military retirees and their family members are encouraged to seek routine dental care at this time. Waiting time for appointments after the examination appointment is minimal. All eligible patients can receive examinations on a walk-in basis according to the following schedule: active duty, 7:30-9 a.m.; exam hours for family members and retired military personnel have been extended to 9-10:30 a.m. and 12:30-2:30 p.m. Monday through Friday. Space-required care is provided for all active duty military. Active duty family members, retirees and their family members are provided care on a space available basis. Priority of care is divided into three categories with active duty receiving first priority, family members of active duty second, and retired military and their family members third. For more information about dental care, call 876-2616/1643 from 7:30 a.m. to 4:30 p.m. Monday through Friday.

Officers bowling

The Monday Night Officers Mixed Doubles League is looking for individuals or couples interested in joining for the 1987-88 season. Active duty or retired officers and their family members are eligible. The league bowls at 6:30 p.m. each Monday at Redstone Lanes. Team formats permit some flexibility in TDY requirements. If interested, call Anne Lapointe 534-2923 or Betty Barnett 876-1959/2363.

CWF basketball

The Civilian Welfare Fund basketball league will have a meeting 1:30 p.m. Friday, Sept. 11 at the old post gym, building 5663. Topics are to include the 34-years-and-under men's league, the 35-years-and-over men's league, and the women's league; election of officers; budget, roster of teams and practice schedules. Coaches from all three leagues should attend. For more information, call Earl Fitchard 876-7842 or Leonard Luqman 876-8410.

Hispanic week

The annual Hispanic Heritage Week will be observed here Sept. 14-18 with displays and a variety of activities. On Sept. 16 a luncheon will be held from 11:30 a.m. to 1 p.m. at the NCO Club. Scheduled speaker is Alfonso J. Ludi, director, affirmative action and program evaluation division, NASA headquarters, Washington, D.C. Hispanic food will be served at dining facilities one, two and three on Sept. 17 from 11:30 a.m. to 1 p.m. for all military members. On Sept. 18 from 6:30-10 p.m., a Luau/Pot Luck is scheduled at the Recreation Center and will include a meal and variety of entertainment concluding with a dance.

Runners wanted

A team is forming for active duty Army personnel interested in representing Redstone Arsenal at a demanding 10-mile run in Washington, D.C. on Oct. 11. Wanted are soldiers who are committed to running and able to complete 10 miles in around 61 minutes or less. Contact Sp4 Greg Patrick, headquarters 832nd Ordnance Battalion, at 876-1049/6545 for more information. Only permanent party personnel are eligible. Patrick said sponsorship from a local organization looks very promising (all expenses paid). Only three positions remain vacant on the team. The team must be organized as soon as possible.

Five-mile run

Headquarters and Headquarters Company will sponsor a five-mile run on post Saturday, Sept. 12 at 8 a.m. The run will start and end in front of HHC barracks, located on the east end of building 3434 on Honest John Road. There will be three age categories for both males and females. Male age groups include 20 and under, 21 to 30, and 30 and over. Female age groups include 24 and under, 25-30, and 31 and over. Trophies will be awarded for those placing first, second or third in each age group. There will also be team competition; the team with the best average time for its five members will win. Right after the five-mile race gets underway, a one-mile fun run will start. Anyone interested in participating in either run can fill out an application the morning of the run; registration that morning starts at 7. There is no registration fee. Participants can pay \$5 if they want a T-shirt. For more information, call 1st Lt. Ollie Hall 876-5710/4850.

Sci-fi group

North Alabama Science Fiction Association will meet at 7 p.m. Sept. 19 at the First American Federal Savings and Loan, 4008 University Drive NW. There will be an auction of science fiction items. For more information, call Jack Lundy 876-9414/9415.

MMM careerists

The Army's annual Materiel Maintenance Management career program screening panel will convene Oct. 20-30 to evaluate employees who are interested in and eligible for referral to positions at grades GS/GM-13 through GS/GM-15. Initial submissions and defer options can be exercised for this panel. No change submissions are no longer required. Send original and five copies of MMMCP career appraisal to AMSMI-LC-ME, Janice Perry, building 5681, by Sept. 25. For more information call Perry 876-4580.

OMMCS hail/farewell

The OMMCS hail and farewell is set for 5:30-8:30 p.m. Friday, Sept. 18 at the Officers Club. The 1950s and '60s era will be the theme wear "your favorite 'Happy Days' outfit." Hors d'oeuvres and entertainment will be provided. OMMCS's departees and new arrivals will be acknowledged. Officers/warrant officers, student officers (allied included), sergeants major, and civilians (GS-9 and above) and their spouses or guests are invited. Cost is \$5 per person. For more information call Capt. Joe Biggers, of land combat training department, at 876-6565 or Capt. Corey Jackson, of air defense training department, at 876-3828.

Union meeting

The regular membership meeting of AFGE Local 1858 will be held Monday, Sept. 14 at 5:30 p.m. in the auditorium of building 5250 (room A-115). For more information call 876-4880.

Engineers group

The Institute of Electrical and Electronics Engineers will meet on Friday night, Sept. 11 at the Officers Club. Social is set for 7:15 with dinner at 7:30. Scheduled speaker Sen. Richard Shelby, D-Ala., is to discuss "The Electronic Role in the Post Industrial Revolution." For reservations, call Willy Albanes 883-1169.

Tuesday night bowling

The Redstone Arsenal Tuesday Nite Mens League is looking for additional teams for the 1987-88 bowling season. This league is open to active and retired military personnel. The league bowls on Tuesday nights at 7:30 starting on Sept. 15. If interested call Paul Eickholt 876-7060 or 880-2265, or call William F. Wilson 876-2525/4739.



Call 876-1500 to place your free carpool ad.

Park City/Hazel Green

Carpool wanted from Park City/Hazel Green area to 3658 area, hours 7-3:30. Paul Carr 876-4118.

Guntersville/Albertville

Carpool member wanted Guntersville/Albertville area to SDC, hours 7-4:30. Byron Smith 895-4130.

Best yards

Yard of the Month winners for August are: best single unit, Lt. Col. and Mrs. Edy A. Smith, 39 Ripley Drive, and SFC and Mrs. Emmanuel Tyndall, 1379-A Lance Drive. Best multi-unit awards went to Capt. and Mrs. Robert H. Miller, 468-B Tripp Drive, and SSgt. and Mrs. Pedro Santana-Rivera, 1407-A Spartan Drive. Winners receive a certificate of appreciation, two free dinners, a color photograph of the ceremony and display of the Yard of the Month sign for one month. Receiving honorable mention were Col. William J. Schumacher, 495 Cooke Drive, and SFC Mark A. Sommer, 1346-B Hermes Road. The winning troop unit of the month is the OMMCS NCO Academy with honorable mention going to C Company, 832nd Ordnance Battalion, 269th Ordnance Brigade. The winning unit receives a certificate of appreciation, a color photograph of the awards ceremony, display of the Unit Yard of the Month sign for one month, and a \$200 check from the Morale and Welfare Support Fund.

Retirees' picnic

A MICOM retirees' picnic for supply and maintenance oldtimers will be held Sept. 12 from 10:30 a.m. until, at the Rustic Lodge on post. "Bring your drinks and picnic lunch; renew old friendships; and we need you to make the day," says James S. Kelly Jr., a member of the coordinating committee. For more information, call 852-1466.

Alcoholism seminar

A free public seminar on "Alcoholism" will be held at 7:30 p.m. Tuesday, Sept. 15 in the University of Alabama in Huntsville's Clinical Science Center lecture hall. It will be given by Dr. Harold Moessner, an associate professor of family medicine at the UAH School of Primary Medical Care. The lecture hall is located at Governors Drive and Gallatin Street across from Huntsville Hospital; the parking lot is entered from Gallatin Street. For more information, call the UAH School of Primary Medical Care communications office 536-5511 (extension 477).

Motorcycle safety

All motorcycle owners operating motorcycles on Redstone Arsenal are required to possess a card indicating they have completed the Better Biking Course, according to the Education Center. The center is offering a course on Sept. 19; call 876-9761 to reserve a space (you will be provided course details when you call).

Carpool Hotline

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 newspaper 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.

FOR SALE: One bedroom flat at Beautiful Plantation South. \$48,900. Seller pays 5 percent toward closings. Includes brand new washer and dryer. Convenient to Redstone Arsenal. Call 882-4572.

FOR SALE: Rowing machine \$50. Child's wooden table and two chairs \$15. Large mahogany office desk \$30. Large darkwood china cabinet with lighted hutch and cross-hatch glass doors \$250. Call 830-2711.

FOR RENT: Clean, one bedroom, one bath apartment near Five Points in Northeast Huntsville. Includes refrigerator, new range and carpet, tiled bath, ceiling fan and new window-unit heat pump. The inside is freshly painted and has cable hook-ups. A bargain at \$250 a month. Call 539-0545 or 533-7579.

FOR SALE: 20 miles north of Huntsville, 1/2 mile east of Ardmore, TN, brick rancher 2,000 square feet of living space includes four bedrooms, 2 1/2 baths, kitchen/den combination with fireplace and built-in bookcases, living room, and utility room. Carport and a separate four bay garage. TVA approved insulation. Situated on 8 acres, mostly open. Call 615-427-6220 after 5 p.m. and weekends.

FOR SALE: Viper hightop fiberglass camper shell with sofa/bed/table insert for short wheel base truck. Sofa converts into bed or tabletop with storage below, \$750 for both. Two 1985 Honda 125 three-wheelers, garage kept, good condition, electric start, racks on back, \$500 each. Sears Kenmore washer and dryer, \$75 each. Call 859-3423 after 5 p.m.

IBM's
IBM Typewriters \$50.00
IBM (ball type) With Lift
Off Correction Tab \$150
Call 881-5510

FOR SALE: 1985 Camaro, dark blue with tan interior, air, AM/FM cassette, power steering, brakes, V-6 auto, 51,000 miles. \$500 and take up payments of \$245 per month (30 months) or \$7,250. Call 778-7149.

FOR SALE BY OWNER: 1983 Toyota Supra, loaded with extras, including sunroof, cruise, trip computer, electric windows. NADA book price \$9,500. Asking \$8,500 will consider trade for pickup. Completely remodeled two bedroom house in Decatur, large lot, bank appraisal \$27,000 will sell for \$26,000. Excellent first home or rental property. Owner will assist in financing. Beautiful area rug, wool, size 6x9 asking \$300 must see to appreciate. 1980 Suzuki 850 Shaft Drive, fairing, radio and cassette, excellent street bike, priced when shown. Call 837-4441.

GARAGE SALE: Beige sofa \$100. Four wooden bar stools \$50 each. Nick-nacks, lamps \$2.50 and up. Double bed headboard \$35. Two new twin bed frames \$15 each. Artificial flowers, books and some clothing \$2.25 and up. September 11th and 12th, from 0900-1600, 207 Collins Lane, Meridianville, cll 828-6885.

FOR SALE: 1970 VW Beetle, new rebuilt engine, new tires, new brakes, new paint, \$1195. Call 776-9486 after 3 p.m.

FOR SALE: Refrigerator \$125. Air Conditioner \$125. Dryer \$125. Freezer \$150. Antique metal bed \$50. Antique delivery bike \$100. Call 533-3697.

FOR SALE: Two Hondas. 1984 Honda CRX, five-speed, air conditioning, AM/FM stereo cassette, cruise, shade kit, 46,000 miles, well maintained, asking \$5,900. 1985 Accord, two-door, five-speed, air conditioning, AM/FM stereo cassette, cruise, 30,000 miles, well maintained, asking \$7,500. Call 881-9501.

SEWING: "Hate to mend those zip pers or sew the hem and put pockets back on your favorite shirt or pants? Then allow me. I charge reasonable rates." Call 721-0203.

FOR RENT: Well-equipped condominium in Destin, Fla. Sleeps six. Six-hour drive. Linens and cleanup. Microwave, dishwasher, cable TV. Three swimming pools and tennis courts. Short walk to beach. Beautiful view of stocked fishing lake from Fla. room. \$50 a night, \$300 a week. Call 881-9134.

FOR SALE: 1982 Firebird Coupe two-door sedan. 305 V8 automatic transmission. Power brakes, steering, windows, locks and deck lid. Electric mirrors. Tilt, T-top, AM/FM stereo. Goodyear Eagle GT's with mags. 55,000 actual miles. Excellent condition. Call 881-9134.

FOR SALE: 1974 Cadillac Seville, four-door. Gold in color. Asking \$1,295 or best offer. Call 536-3362 after 3 p.m.

FOR SALE: 1983 Chevrolet pickup truck. Beige. 5-10, six cylinder automatic. Fully loaded. Asking \$2,600. Call 536-3362 after 3 p.m.

FOR SALE: 1975, 12-by-70 mobile home. Three bedrooms, two baths, all electric. Has some furniture. Set up on a nice lot. Asking \$7,000. Call 881-7859 after 5 p.m.

FOR SALE: 1981 customized Ford van, one owner, 54,000 miles. Loaded, with twin air, excellent condition. \$7,500 firm. Call 881-4042 after 6 p.m.

FOR SALE: Investment property or family home. Brick rancher in Sherwood Park, close to Space and Rocket Center, Research Park and Madison Square Mall. Large formal living room/dining room combination, family room off eat-in kitchen with breakfast bar, 1-3/4 baths, large utility room with storage space and washer/dryer connections. Call 772-8684 after 4 p.m.

FOR SALE: Two royal blue sofa chairs, contemporary style, very good condition, \$25 each. Two 45" tall lamps, red, olive green and black, \$10 each. Two 39" tall lamps, olive green and gold, \$15 each. Call 852-3495.

FOR SALE: Camear flash light \$25. Minolta Autopack Super 8-D6 movie camera 1 to 8 zoom, \$69. Table lamps, wood base with shades, \$19 each. Metal plant stand, \$8. Plastic molded chairs, \$6 each. Light fixture, ceiling, \$5. Hanging, \$39. File cabinet with combination safe, \$59. Electric lawn mower, \$59. Big wheel, \$9. Assorted toys, \$2 each. Decorative shower curtain rods, \$5 each. Electric edger, \$29. Sears vacuum cleaner, canister with all attachments, \$49. Murray self propelled, rear bagger lawn mower, \$99. Call 883-6951.

FOR SALE: 1969 Dodge Dart, classic, two door, 175 slant 6, new radials, excellent condition, plus many spare parts, \$775 or best offer. Call 852-5884.

FOR SALE: 1981 Honda CB900, fairing, radio, and bags, very clean. \$1,450. Call 852-1137.

FOR SALE: 1984 Chaparral boat, 172 140 Mercury inboard/outboard, AM/FM cassette, Dilly trailer, ski vest, new battery, new prop, all safety equipment, ready for the water. \$7,500 firm. Call 828-5553.

FOR SALE: Rental property, NW, three bedroom, one bath, central heat and air, fenced backyard. Rented for \$345 (year lease). Payments \$294. Assumable loan Equity \$15,000, owner financing on part of equity. Rental house investment, two bedrooms, one bath, located in SW, close to Arsenal. Rented for \$375 per month. Payments \$264. Central heat and air, washer, dryer, refrigerator. Assumable loan, equity of \$18,000. Owner financing part of equity. Call 881-3061.

FOR SALE: 1980 Mariner, 80 HP, 1979 Fox boat 15 1/2, fully equipped, fish or ski, drive on trailer, \$2,700 or best offer. Call 881-2896 or 881-6531.

FOR SALE: Pool table, regulation size, one inch slate, with accessories, \$500. Call 883-5210.

FOR SALE: 17 inch SST Prop for large outboard engine, \$165. Call 721-9506 after 5 p.m.

FOR SALE: 1986 Toyota 4-Runner, four wheel drive, air, AM/FM, power steering, running sideboards, Alta pack, alloy wheels, extended warranty, like new, \$13,500. Call 859-2421.

FOR SALE: Conveniently located three bedroom brick house at 370 Jack Coleman Drive, close to Arsenal and Research Park, 1,650 square feet, large fenced back yard, nice neighborhood. Call 539-8304 for appointment.

FOR SALE: Nice brick condo with two bedrooms, 1 1/2 baths, ceiling fans, mini-blinds, throughout, patio, sundeck and furnished kitchen, five years old and very clean. Payments approximately \$385 monthly. Price \$41,900. Call 772-6274 or 882-1178.

AUCTION

Cole's Auctioneers go Anywhere and Sell Anything

SAT. SEPT. 12-10:30 A.M.

56.24 ACRES COMMERCIAL PROPERTY
LOCATED ON NICK FITCHAERD RD.
HUNTSVILLE, AL

DIRECTIONS: Take Jordan Lane go 2 Miles North of Sparkman Dr., turn left on Dan Tibbs Rd., go to Nick Fitchaerd Rd., turn left to property. SEE AUCTION SIGNS.

Property located 1 1/2 miles from Huntsville City limits and 3 miles Northeast of New Madison Mall and 1/2 mile North of the proposed Rideout Road and 300 feet North of Herman Plumber Rd.

TRACT # 10 contains 6.18 acres - Tract # 11 contains 6.18 acres - TRACT #12 contains 6.18 acres - TRACT # 13A contains 5.63 acres - TRACT # 13B contains 5.57 acres - TRACT # 14 contains 13.3 acres - TRACT #14 and 15 has approximately four to five hundred thousand yards of fill dirt. 1500' paved road frontage, city water and electricity. Sale will be held on premises under the Auction tent. This is a beautiful tract of land well located for any use.

Pre inspection invited - Plats available.
TERMS: 15% Down day of sale, Balance due in 30 days. Financing available to qualified buyers.

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Blue With Doe Skin Leather Interior, Low Mileage, One Owner, Fully Equipped, One Of The Nicest In The Area, And, Of Course, Full Books And Service Records.



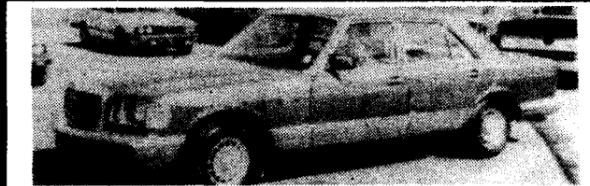
1984 MERCEDES BENZ 300D

Midnight Blue With Palomino Interior, One Owner, Local Vehicle, Power Sunroof, Climate Control, AM/FM Cassette, Full Books And Service Records.



1984 XJ6 JAGUAR

Silver With Blue Leather Interior, Sunroof, AM/FM Cassette, Alloy Wheels, Very Clean, One Owner, Local Vehicle, Books And Service Records. Priced To Sell.



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Lapis Blue With Cream Beige Leather Interior, Power Sunroof, AM/FM Cassette, Climate Control, Books, Up To Date Service. This Vehicle Is A Very Clean Fully Equipped Auto.



1984 BMW 533i

Black With Black Leather Interior, Power Sunroof, AM/FM Cassette, Fully Equipped With Good Mileage



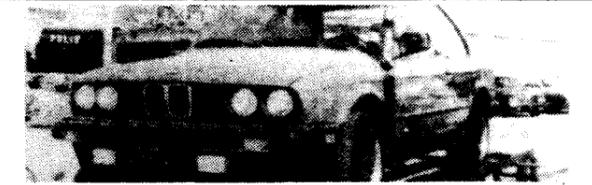
1983 MERCEDES BENZ 380SL

Midnight Blue With Palomino Leather, Both Tops, AM/FM Cassette, Climate Control, Good Mileage, Very Clean Southern Car. Priced To Sell!!



1987 BMW 325ES

White With Black Leather Interior, Local One Owner, 4,000 Miles, BBS Wheels, All Available Options, Full Books And Service Records, Showroom New!



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Cinnabar Red With Black Leather Interior, BBS Wheels, Spoiler Kit, Sunroof, AM/FM Cassette, Built In Radar Detector, And Much Much More. Don't Miss This One!



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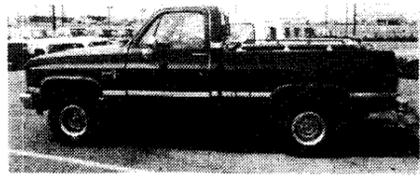
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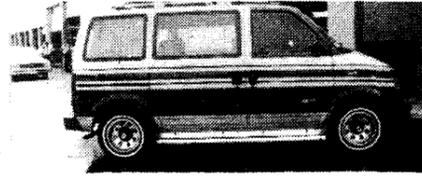
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USA



1986 FORD F350 \$19,995
Dooley loaded, extra clean, customized



1987 CHEVY SILVERADO 4x4 ... SHARP!
Full Power, Air



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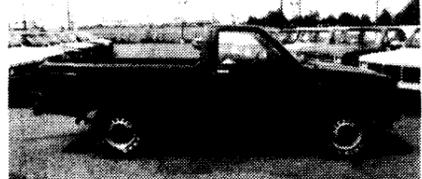
1986 CHEVY G20 VAN \$16,995
Conversion, hightop, dual air, loaded with all the extras, like new!



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1986 CHEVY S10 4x4 \$9,755
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1978 DODGE ASPEN \$1,975
Automatic, air, extra clean



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Automatic, air, power steering, power brakes



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Classic four door sedan, loaded with options



1987 CHEVY SPRINT \$5,975
Low mileage, like new!



1985 PONTIAC SUNBIRD \$5,875
Full power, air, sharp!



1986 CHEVY IROC Z \$12,995
Five speed, air, plus much more!



1985 CHEVY CAMARO \$8,275
Automatic, air, low miles, very clean



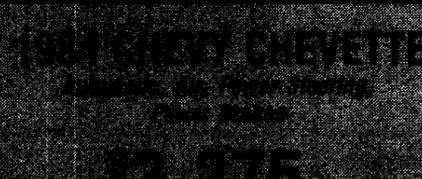
1982 FORD ESCORT \$2,375
Four speed, air



1986 CHEVY CAVALIER \$6,975
Automatic, air, AM/FM cassette



1986 MERCURY COUGAR
XR7, Loaded With Options
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Automatic, Long Wheel Base
\$3,975



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The New Look
\$1,785



1986 BUICK LeSABRE
\$495



1985 CHEVY S10
Automatic, Air
\$6,475



1986 FORD TAURUS
GL, Automatic, Air
\$9,795



1986 FORD TAURUS
GL, Automatic, Air
\$2,995