

Redstone Rocket

Vol. 36 No. 7

Published in the interest of personnel at Redstone Arsenal Al.

July 15, 1987

Building-by-building asbestos search continues

About a month into a building-by-building search for asbestos, various stages of testing have been conducted in about a dozen buildings on post.

"For the most part, the reaction has been very positive," said Ron Hagler, an environmental engineer in the Environmental Office at the Directorate of Engineering and Housing. "There's been a lot of interest in what we've been doing. People want to cooperate with us, they've been very helpful. In some very isolated cases, we've had very emotional encounters. But that's usually the exception rather than the rule.

"Most people generally seem to be really appreciative that we're out there trying to find the sources of the asbestos," he added.

The testing is being done under contract by Dennison Environmental Inc. of Woburn, Mass. The firm will remove small samples of suspect material, and test to confirm if it contains asbestos. If it does, a warning will be posted in the building and the asbestos removed if it poses a hazard.

The search will involve every one of the more than 1,900 buildings here, including military residences. This building-by-building probe is expected to continue for at least one year. Buildings where maintenance projects are coming up in the near future have been designated to be examined first. Testing in family housing may begin in August.

"It is a requirements-type contract. They do it on our request," Hagler said. "We're trying to set a pace of 100,000 square feet (of building) a week. That would get us to approximately 5 million square feet a year."

Buildings tested for asbestos so far include 4484, 5201, 5435, 3618, 3348 and 3749. Air samples have been conducted in the Rocket Auditorium, building 7120. The Missile Command headquarters, building 5250, is the largest one tested so far. Spot-checks have been done in three civilian personnel buildings (7442, 7444 and 7437) and will be followed up later with whole-building tests.

"We don't have results on all of them yet," Hagler said. Results showed that building 3348 did not have any asbestos. Air sample results were being awaited for 5201 to determine a potential for exposure in that particular building.

Jerry Holton, an environmental protection specialist who works with Hagler, pointed out that asbestos is a breathing hazard. "Just because a building has asbestos in it doesn't mean there's exposure," Holton said. "It's not like radiation; it doesn't sit there and zap you. As long as you don't breathe it, there's no problem. The thrust of the program is to keep loose fibers out of the air where people can breathe it."

A building's risk potential is determined by location



TESTER—Jim Dennison, manager of Dennison Environmental Inc., adjusts a respirator that is normally worn during asbestos testing.

of the asbestos, condition of the material, and contact with people. The goal for the asbestos program here is 20 times more stringent than the standard set by the Occupational Safety and Health Administration. The OSHA standard is .2 fibers per cubic centimeter while the goal here is .01 fibers per cubic centimeter. "We're shooting for the cleanest air possible," Holton said.

The contractor team uses boring and cutting tools to carefully obtain small samples of suspect materials. They will not do anything that will endanger anyone, according to officials. Since they work with the materials close-up, the technicians have breathing masks as protection against the cumulative hazard they face from repeated exposures to asbestos. They

examine items such as pipes, insulation, roofing materials, floor tiles, and acoustical tiles—anyplace where they suspect asbestos.

A mineral substance, asbestos insulates, soundproofs, doesn't burn, is cheap and durable and for these reasons was a popular construction material. Only in recent times has the hazard of asbestos become apparent and the importance of protecting people from exposure to it.

"I think one of the keys is we're actively searching for sources," Holton said. "We're out there, we're looking for this stuff. We're not out there looking for problems. We're out there attempting to avoid problems."

Asbestos fibers in air can damage lungs like smoking

BY SKIP VAUGHN

Asbestos is a mineral that can only cause health problems when its fibers are released in the air in significant concentrations, according to preventive medicine officials.

Generally, the people most susceptible to breathing the fibers are those who work with asbestos each day—such as by applying it to pipes. They normally must take precautions.

But for most people, the chance of significant exposure is considered minimal. "It would be very unusual for you to have an exposure, you'd have to have loose asbestos in the building," said Dr. Irene Roan, chief of Preventive Medicine Service.

Health problems that can result include fibrosis of the lung. This means scarring of the lung which interferes with capacity to take in air. A mesothelioma or cancer on the lining of the lung is also possible but is

rare, according to Dr. Wallace Frierson of preventive medicine.

"Smoking makes asbestos exposure worse because it also damages the lung, with fibrosis and lung cancer," Frierson said. "So it does the same thing that asbestos does. You put the two together and it makes it even worse than either one separately."

Medical effects of asbestos sometimes do not surface for 20 to 30 years. "In other words, there's no acute effects of asbestos," Frierson added.

Widely used in manufacturing and construction, the presence of asbestos in buildings does not necessarily mean people will be exposed to it. "If it's touched or broken or pulled off, that can send asbestos fibers into the air for a short time," Roan said, "and people who might be in the area could be exposed."

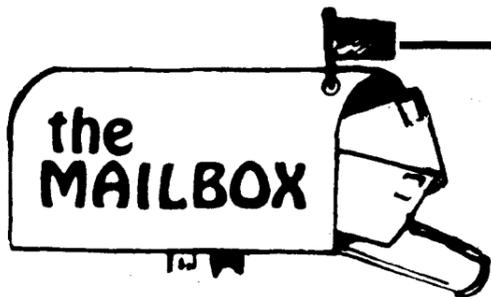
Asbestos can cause serious diseases if the exposure is high enough. "And I'm talking about a daily exposure

over a working life, 20 or 30 years, is when you see significant problems with asbestosis," Roan added.

Research into the widespread mineral has been done by physicians, industrial hygienists, and by engineers in various fields. Various agencies—the National Institute of Occupational Safety and Health, the Occupational Safety and Health Administration, and the Environmental Protection Agency—have set rules and standards for the manufacture and use of asbestos and for protection of workers in the environment.

In its natural form, asbestos is described as a grayish, wooly material. The fibers can be found throughout the world, even in the ice that covers the country of Greenland.

"It's everywhere, and the amount of exposure to people who are not asbestos workers is very tiny and is of no clinical significance," Roan said.



Minor violation

Editor:

With such stinging words as "repulsive" and "audacity" aimed at my "resents ticket" letter printed June 26, I'm compelled to respond.

Some persons, like 1st Sgt. Richard W. Hall, USA (retired), may have gotten the idea from my letter that I justify breaking speed limits. Since I'm identified as a chaplain, I must protect the image of the Army Chaplain Corps as well as my own.

I was not advocating the right to break the speed laws (even on a deserted road). I was not aware I'd exceeded the speed limit for that brief moment until seeing the MP patrol car with the obvious purpose of radar monitoring. My point was made in the letter read with empathy by many who've commented about it to me. My point was that on Memorial Day, the road deserted, the violation small, it would have been polite, appropriate and considerate had the MP's stopped me and reminded me (or any other veteran having inadvertently committed a minor violation) of the obligation to observe the posted speed.

For 1st Sgt. Hall (retired), my hope is that he'll never "inadvertently exceed" any posted speed limit anywhere and that if he ever receives a ticket, he'll pay it cheerfully.

Loren G. Speicher
Chaplain, USAR (Retired)

Sharing history

Editor:

At one time or another everyone is asked "where were you born?" When I am asked that question by fellow employees or current residents of Redstone Arsenal, my reply is "here at Redstone on Madkin Mountain almost directly behind building 5250." I receive looks that range from disbelief to astonishment because very few people now associated with this installation realize that it was once the farmlands that provided the lifeline for hundreds of families.

Despite the fact that I was a preschooler, I vividly remember the day officials went from door to door to serve what amounts to eviction notices to the farmers that occupied this land. It caused unbearable sadness and total mayhem because many of the farmers could not visualize survival outside their lifelong communities.

We greatly appreciate the *Redstone Rocket* for reporting the July Fourth reunion of some of those

farm families. That article made it known to the present Arsenal family a portion of the history of families that occupied this land in the days of yore.

Muzett C. Baxter
TOW Project Office

Engineering file

Editor:

I would like to know why the Engineering Documentation File in building 4488 was dumped into the trash. There must be at least 60 to 70 engineers in this building. It is absolutely essential that they have access to an Engineering Documentation File to perform their duties. There are 30 in this office. It requires one to two weeks to get drawings from the main file in building 4722 by mail. We have a choice to sit and wait or try to find the drawings in another building which has a file. This is a gross waste of time and money! If space is so limited in building 4488 then why not put the drawing file in the cross walk between the wings or in one of the mobile buildings around the building 4488. Surely space could be found in building 4484; since the whole building is a reference file! I guess what really bothers me is that nobody cares if anyone does anything on the Arsenal anymore.

Name withheld by request

Early-out bill

Editor:

Sen. Roth has introduced the early out retirement option Bill again this year. The bill has not received much support in Congress. Sen. Roth has asked those interested in the bill's passage to write their representatives in the House and Senate urging support. The bill would stop the threat of RIF's and afford more promotion opportunity for those not wishing to retire.

Sid Martin
F&A Division
Comptroller

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.

Government can collect student loans

Although many have received the benefits of higher education, there is a lesson which people often seem to forget: pay your student loans.

The federal government, which finances millions of dollars for education, has various means of ensuring payment.

For people who wish to sponge away their financial burdens through bankruptcy, there may be no escape for student loans. Under federal law, educational loans may be automatically non-dischargeable if an individual is filing bankruptcy under Chapter 7 or Chapter 11 unless certain narrow restrictions apply.

Congress has recently enacted another limitation to student loan defenses by establishing that the minority or infant's defense does not exist. Traditionally, most contracts were unenforceable if one of the parties was a minor. In April and later in October of 1986, Congress provided that there is no minority defense for the youthful signer.

Lastly, federally insured student loans do not have to comply with either the Federal Truth in Lending Act (TIL) nor any state disclosure laws. The TIL is a federal act which mandates disclosure of such issues as finance charges. For more information, contact the legal assistance office (876-9015).

(This article was provided by Capt. Paula Ramsbotham, a legal assistance attorney.)

Clarification

A story in last week's *Rocket* indicated that a check from the commissary was presented to Boy Scout Troop 308.

The check is to be shared by all Boy Scout and Girl Scout activities on Redstone.

Federalists pushed for Constitution

The ratification of the Constitution faced considerable ideological debate, both pro and con, among the states.

Two groups, the Federalists and Anti-Federalists, were the main players who took the stage during these debates. The Federalists wanted adoption. They favored a strong national government that served the interests of the public. They included such members as James Madison, Alexander Hamilton and John Jay.

The Anti-Federalists did not want adoption, because they felt the Constitution gave too much power to the federal government. They felt power could be exercised better by the states, who were closer to the public and therefore safer. Their ranks included George Mason and Patrick Henry of Virginia and Luther Martin of Maryland.

Soon after the signing, the 'Anti's' bombarded the public with newspaper articles, mass meetings and pamphlets criticizing and challenging the idea of a federal republic. They feared a creation of a permanent aristocracy, criticized the lack of a bill of rights, and complained that power would lie with the few, instead of the many.

The Federalists countered these charges by defending the Constitution in a series of letters printed in New York newspapers, entitled "The Federalist." Written under the pseudonym, "Publius," 85 letters appeared between October 1787 to May 1788. These defenders of the proposed Constitution were: Alexander Hamilton, 51 letters; James Madison, 29 letters; and John Jay, five letters.

The aim of The Federalist was to show that a return

to the confederation would again lead to disunity and ineffective central government. They set out to prove that the Constitution would create a government that would preserve civil liberties and look after the various and differing interests of the 13 states. They stressed that the system of checks and balances, representation of the people, and the courts would improve the vision of the popular system of government. Argument was met with counter-argument but when all was said and done the constitution was finally ratified.

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Advertising Offices . 539-3980

The *Redstone Rocket* is published weekly on Wednesday. The publisher will receive editorial content for publication in the *Redstone Rocket* through the Public Affairs Office, Army Missile Command, Redstone Arsenal, AL 35898, Bldg. 5250, Room A-134. Extension 876-1500.

The Advertising office of the *Redstone Rocket* is located at 108-B South Side Square, Huntsville, AL, phone 539-3980. Post Office box 5351, 35805.

Advertising deadline for display and commercial classified is 5 p.m. Friday before the Wednesday publication.

The *Redstone Rocket* is distributed free of cost to personnel at Redstone Arsenal, NASA, and Industrial Park. Huntsville mailing rates off post for the *Rocket* are \$20.00 a year, tax included.

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Law protects people from harassing bill collectors

BY DANNY KELLY

You have watched this scene played out in a thousand TV movies. The small cavalry detachment is hopelessly surrounded by millions of screaming hostiles. The savages are attacking from every direction. Scalps are being taken. There are no prisoners. The cavalymen are all dead shots, but they are low on ammunition. They're tired, wounded, weary and trying not to be scared—and still the enemy comes.

Does this description remind you of anything happening in real life today? It may, if you are having difficulty paying your bills. One recent client of the Financial Planning Office at Army Community Service described his difficulty with creditors and collection agencies as "Custer's Last Stand."

These images of being surrounded by hostile people, of hopelessness, of being under constant attack, and of relentless siege are typical of people experiencing great difficulty with their debt payments. Such people commonly report that they are threatened and pressured by creditors, and that they do not deal with the stress well. "The phone rang constantly. They called me at home. They called at work. It got so bad I was afraid to answer the phone. They began coming to the door. I hid in the bedroom. I stopped opening my mail. Eventually, I stopped leaving the house. I hid all of the time."

There are many reasons for an inability to make credit payments. They are not all bad reasons. But, for whatever reason, not being able to pay bills causes extreme stress. Financial stress is a commonly reported contributor to health problems, divorce, alcoholism, depression, spouse abuse and suicide. Credit payment difficulty is a tragedy of national scope—and it is real at Redstone Arsenal.

When you cannot pay a bill, many businesses will work at collection for only a short time, and then they place the bill with one of many collection agencies. These are businesses which specialize in collecting bad debts for creditor business for a fee—usually a percentage of the amount collected. Collection agencies are the industry "tough guys" they have the time and the inclination to pursue a debt for a long, long time.

In 1977, concerned about increasing evidence of collection agencies and their employees behaving more and more savagely with people who owed money, Congress passed the Fair Debt Collection Practices Act to govern the professional behavior of collection agencies and their employees. This law does not apply to creditors, but collection agencies and debt collectors are regulated. The act was a response to abusive, deceptive and unfair debt collection practices then in use by collectors. Congress found that collection abuse had, indeed, led to personal bankruptcy, marital instability, divorce, loss of jobs and gross invasions of privacy.

Today, with the protection of the Fair Debt Collection Practices Act, people who owe and have trouble

paying have a better chance of reducing the stress of being unable to pay. However, when your unpaid bills are being collected by a professional collector or agency, the key to fair treatment is personal awareness. People who do not know their rights cannot protect their rights. Your responsibility as a debtor is to pay what is owed, obviously; but it is also to be aware of what your rights and protections are under the law.

The vast majority of collection agencies are reputable businessmen who scrupulously obey the law; however, there are some who "stretch" the law a little bit, and there are a few collectors who act as if they had never heard of the law. These unsavory types rely on your ignorance to protect them. In other words, if you want to be treated properly when you owe a back payment or a bill, you will have to insist that the collector obey the law.

Here is a listing of the major aspects of the Fair Debt Collection Practices Act that have been selected as typical of the types of violations that do occur. For a complete readout on the Act, see your Legal Assistance Officer, or come to the Consumer Affairs Office, ACS.

Locating the Consumer/Debtor: Debt collectors may ask others for location information about the debtor. They must identify themselves when doing so, but by name only. The only exception is when the contacted person specifically asks for more information. Even then, a debt collector may give only the name of the agency employing him or her. Collectors may not tell any third party that they are in the debt collection business. Further, a debt collector may only contact a third party one time, unless there is reason to believe the contacted party can give new information about the whereabouts of a debtor. Again, there is an exception: repeated contact can occur when requested by the person contacted. When contacting a third party, debt collectors cannot communicate by post card.

Once a debt collector knows that an attorney represents a debtor regarding a debt, he or she must contact the attorney instead of the debtor, unless the attorney fails to respond.

Communication About the Debt: Unless the consumer/debtor has previously agreed and without a court order, a debt collector may not communicate with a debtor about the debt at any unusual place or time, or at any place or time inconvenient to the debtor if the collector is so advised. Normally, a convenient time is between 8 a.m. and 9 p.m.

Further, a debt collector may not communicate with a debtor at the debtor's place of employment if the collector knows, or has been advised, that the consumer's employer prohibits such contact at work.

Finally, if a debtor notifies a collector in writing that he or she refuses to pay, or wishes not to communicate further, the collector may not communicate further except to advise the debtor that the collector may, or intends, to invoke certain specific remedies.

For the purposes of this law, the term "debtor" or "consumer" applies equally to the debtor, debtor's spouse or debtor's parent, if the debtor is a minor.

Harassment or Abuse: The law prohibits any conduct which has the natural result of harassment, oppression or abuse of any person in connection with collection activity. Six types of behavior were expressly prohibited and are examples of the kinds of behavior Congress was concerned about:

- The threat or use of violence against persons, reputations or property.
- The use of obscene or profane language to abuse the hearer or reader.
- Publication of lists of debtors refusing to pay, except as permitted to credit reporting agencies and other groups.
- The advertisement for sale of any debt in an effort to force payment.
- Causing a telephone to ring repeatedly or continuously, or repetitively engaging any person in telephone conversation with intent to annoy or harass.
- The placement of telephone calls without meaningful disclosure of the caller's identity, except as is permitted in locating the debtor.

False and Misleading Representations: The law contains an extensive listing of prohibited false, misleading and deceptive practices. Generally, the law requires that a collector tell the truth. They may not lie; they may not exaggerate. Real and implied distortions of the truth are not permitted. A collector must, for example, not design forms that have the appearance of legal documents or government forms, as this represents a kind of implied falsehood. A collector may not threaten or imply that legal action is being taken when it is not actually underway. A collector must limit his or her advice to the debtor to what is, or is intended.

Unfair Practices: Congress also prohibited what it called

"unfair and unconscionable" means to collect a debt. Again, it gave examples:

- Collection of amounts in excess of what is permitted by the debt contract and allowed by law.
- The acceptance of a check or other payment instrument postdated by more than five days. A debt collector may accept such a check *only* if the collector gives written notice to the maker that deposit of the check is intended. This notice must be given not fewer than three or more than 10 days before the actual deposit takes place.
- A debt collector may not solicit any postdated check for the purpose of threatening or instituting criminal prosecution.
- A collector may not place collect telephone calls without meaningful disclosure of the true purpose of the call. This would also apply to collect telegrams.
- Taking, or threatening to take, action to

(See Law, cont'd on Page 9)

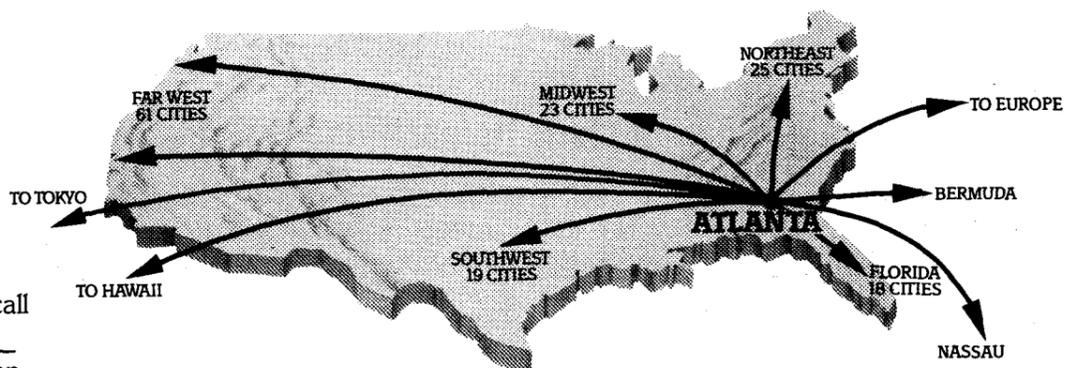
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Common sense can keep the heat from beating you

BY PAM ROGERS

Summer—time to get out and enjoy all those activities you haven't experienced since last year, like sunbathing, picnics, or a hike in the woods. Maybe time to try to get back into shape now that cold weather is over, right?

Well, if you're out of shape or not accustomed to the climate and try strenuous physical activity, or just lie in the sun, you could be dead wrong.

Heat injuries can strike more often than many people expect, especially if they are out of shape, overweight, or not used to the climate, according to Capt. Richard Roche, environmental health officer for Redstone.

Heat stroke, the most serious heat-related injury, can result in death if the victim is not treated in time. All heat injuries should be taken seriously.

Other heat injuries include sunburn, heat cramps and heat exhaustion, with heat exhaustion being the most common.

Heat cramps, caused by excessive loss of salt from sweating, are characterized by hot, moist skin, and a sudden, severe onset of muscle cramps. The best treatment for heat cramps is to give the victim saline water to drink. Saline water can be made by mixing a quarter teaspoon salt with a quart of water. "But don't take salt tablets," Roche said.

Heat exhaustion is characterized by pale, moist skin, headache and weakness. Symptoms can also include rapid breathing, fainting, nausea and vomiting. Victims of heat exhaustion should lie down out of the sun with feet elevated, loosen restrictive clothing, drink saline water and cool down by sprinkling with water or fanning, Roche stated. Heat exhaustion is caused by excessive loss of body fluids.

Heat stroke

The onset of heat stroke is abrupt with a sudden loss of consciousness, convulsions, rapid pulse and breathing, mental disorientation or coma. A victim of heat stroke will have hot, dry skin, because the body's cooling mechanisms have failed. When a person exhibits the symptoms of heat stroke, he should be cooled down immediately, either by immersion in cold water, or by being packed in ice, then taken to a hospital as quickly as possible.

Overexposure to sun can cause first- and second-degree burns. Roche recommends treating sunburn with a topical anesthetic and avoiding exposure to sun until the burn heals.

What's the most important thing to remember when you're outside and the temperature is climbing?

"Drink plenty of water, and avoid alcohol," Roche suggested. Alcohol, along with carbonated beverages and excessive amounts of coffee can compound the effects of heat by dehydrating the body, he said. Eating a balanced diet and avoiding junk food will provide an adequate amount of salt.

Another important consideration for dealing with heat is to make sure you stay in good physical shape all year-round, Roche said.

"It's important to have physical fitness. If you stay in shape, you'll sweat better, and be better off," he said.

The type of clothing you wear can determine how cool you'll be. Loose-fitting clothing allows air to circulate, thereby evaporating perspiration more effectively.

Temperature index

Although heat injuries can occur at any temperature, it's a good idea to be careful once the thermometer reaches 76 degrees, Roche advised.

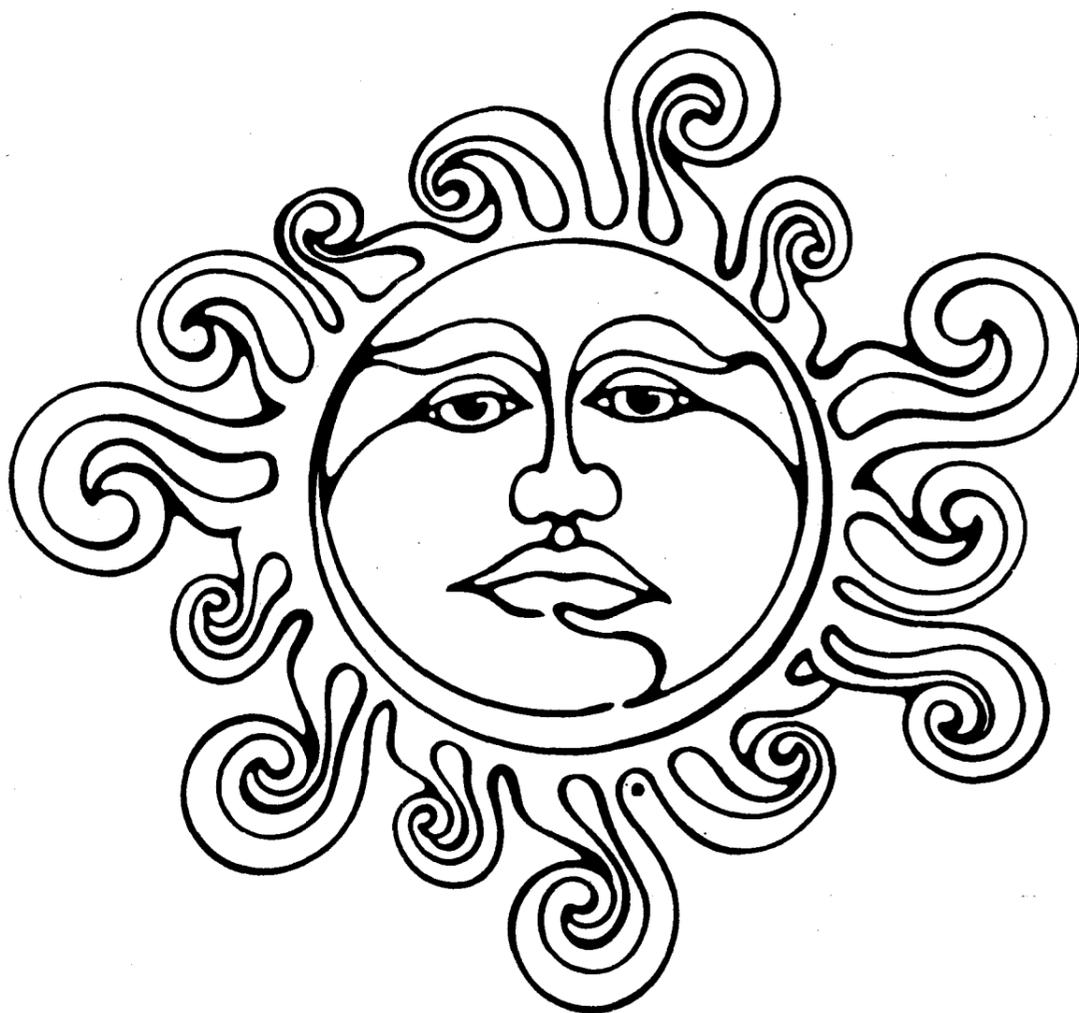
Heat stress conditions can be determined by a Wet Bulb Globe Temperature Index. A mechanical device is used to combine air temperature, humidity, radia-

tion and wind speed into a single value which can be used as a guide to outdoor activity.

The index is divided into four categories, with guidelines for people who are acclimatized and not acclimatized in each category. When the WBGT index reaches 82, people who are used to the climate can go about their usual activities, but those who have not yet become acclimatized should take it easy. At 85, non-acclimatized people should avoid intense physical activity, and acclimatized people should use discretion in outdoor activities. At 88, those who aren't used to the climate should avoid all physical activities. At 90, nobody should engage in activities that aren't necessary.

The best way to prevent heat injuries is just plain old common sense.

"Often people who have heat injuries are working hard and not taking care of themselves. They may have a macho image—push themselves until they keel over," Roche said.



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Pets can suffer heat exhaustion, too

BY RUTH MECHAM

The hot, humid days of summer can cause serious health problems for pets.

One of the most common pet problems is heat exhaustion or heat stroke, according to Capt. Bernard Singleton, a veterinarian assigned to Fort McClellan who makes weekly trips to Redstone Arsenal.

"If it is between 80 and 90 degrees outside, the temperature inside a vehicle could exceed 120 degrees in just 30 minutes. It's like putting something in a pressure cooker," Singleton said.

Dogs and cats don't have sweat glands like humans and the only way they can keep cool is by panting. A pet can develop heat exhaustion in as little as 15 minutes.

"Unless you have a need to travel with your pet, be kind and leave it at home in a cool place, with plenty of water," Singleton said.

Redstone has a regulation that forbids leaving pets unattended in cars or shelters in inclement weather. "People think that applies to cold weather, however, it applies to hot weather as well," Singleton said.

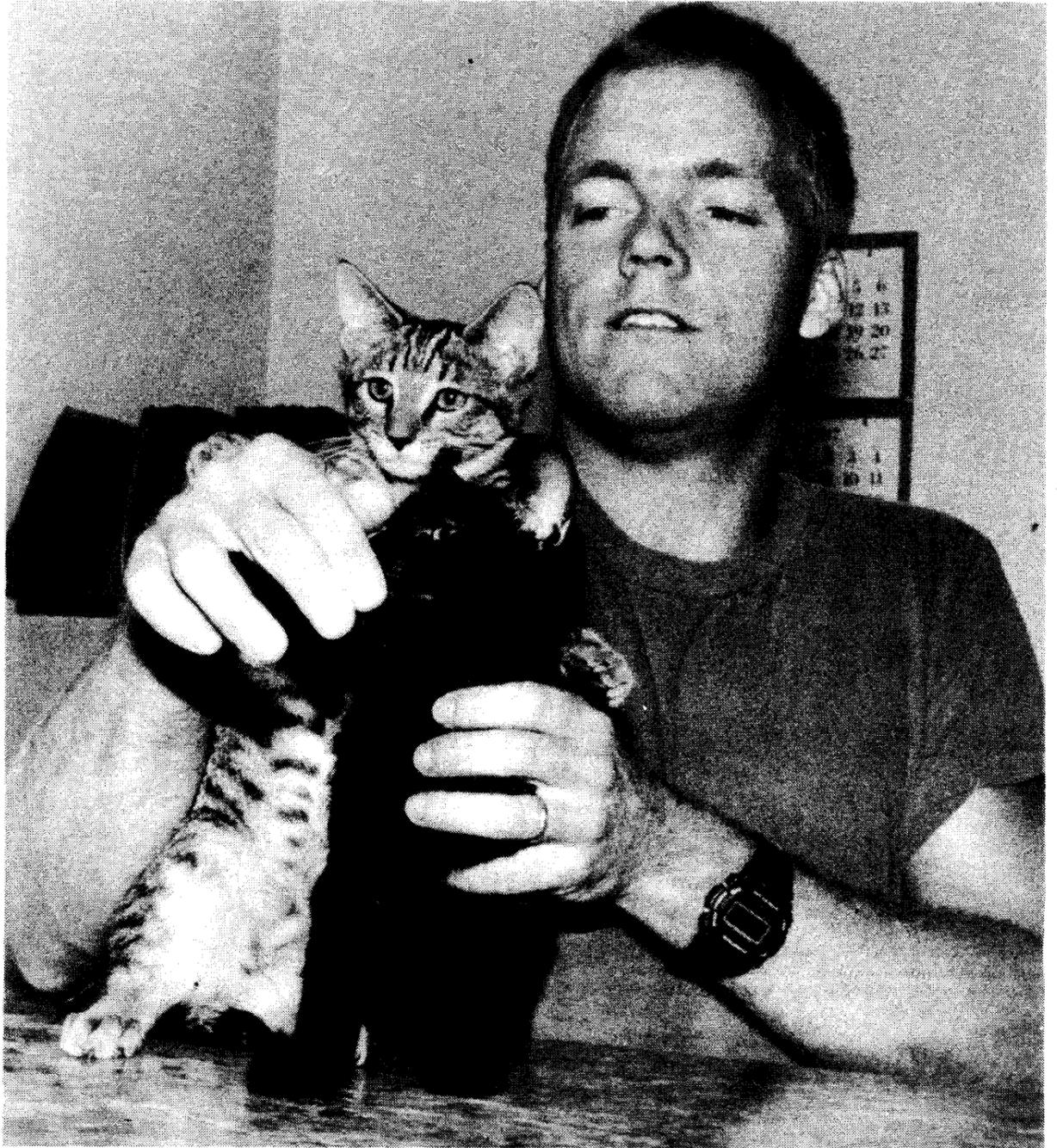
Symptoms of heat exhaustion include increased body temperature, coma, vomiting and trembling. Any pet can suffer heat stroke; the most common sufferers are cats and dogs, according to Singleton.

"Cooling the pet off is the best help for your pet if it experiences heat stroke. Use tap water and simply cool the pet off. If the animal has gone into a coma, cool it down and get it to a vet," he advised.

Another concern common to this area is fleas and ticks. "This area is so bad it is hard to control them. Pet owners need to remember to treat the animal and the environment at the same time. You can't get rid of them totally, it does help to control the pet and the environment by using flea control products," Singleton said.

"Conditions for fleas, ticks and heat exhaustion are worse in this area, the hot humid months are longer and we really don't have hard winters," he said.

Pet owners should have dogs checked once a year for heart worms and maintain them on heart worm preventative medications. Mosquitoes transmit the larva that infects dogs with heart worms. This area has a lot of mosquitoes year-round so pet owners are advised to keep animals on heart worm medications.



NEEDS HOME— The tabby has already found a home, but the black, female kitten Sgt. Steven Milks is holding needs a loving family. Milks says she is gentle, loving, and about 5 months old.

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Procurement worker spells relief: s-u-g-g-e-s-t

BY RUTH MECHAM

Tim Magnusson was no computer expert but he knew there had to be a better way to close contracts.

So, he made a suggestion that wound up benefitting the government and himself.

Magnusson, a contract specialist in the repair parts division of the Procurement Directorate, has saved the government more than \$40,000 a year by suggesting a way to make closing contracts simpler. And he is to receive a \$2,103 award for his idea.

"There was a concern with the length of time in closing contracts. Computer generated listings on contracts had been checked by procurement clerks to see which contracts had been paid and which ones had not. By suggesting that the two systems, finance records and procurement records, check themselves (as) opposed to it being done manually: the contracting officer can now make, by looking at the one system, recommendations to the Defense Contract Administration Services Region for closing accounts," Magnusson said.

Before Magnusson's suggestion, it took 10 people about 20 hours per pay period to do this work.

"The best thing about my suggestion is relief. Someone does not have to do what I did and time can be better spent doing other things. We are now able to make the computer work for us instead of us working for it," he said.

Magnusson, 26, graduated from the University of Alabama in 1982 with a bachelor's degree in communications. He majored in advertising and minored

in marketing. He came to work at the arsenal after graduation and shortly thereafter was selected as a para-trainee in the procurement directorate.



MAGNUSSON

When Magnusson isn't working in procurement he and wife Marsha enjoy their home. Camping and tennis are his hobbies and come August he turns into a football junkie. He enjoys keeping track of his favorite team, Alabama's Crimson Tide.

For Magnusson, the suggestion program is more than just a way to make money. "A lot of ideas come out of the suggestion program which benefit everyone. By allowing people to make suggestions, the government benefits by saving money and boosting productivity," he said.

Magnusson, who admits he is not a computer-oriented or technical person, thinks it would be interesting to see how many people do something in their jobs just because it has *always* been done that way. "If a person can think of a way to make their job easier they should make their suggestions known," he said.

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Educational benefits for soldiers vary, can be confusing

BY PAM ROGERS

Soldiers— have you checked your contract for educational benefits lately? Compared it with what your buddies have? Confused? Well, join the club.

Janeen Rosenberg, a guidance counselor at the Army Education Center here, said she's seeing an average of two soldiers per day who have the wrong information about their Veterans Administration education benefits.

For the most part, soldiers are confused because there are three separate programs in effect, along with several recruiting incentive programs, she said. Soldiers who joined at different times, or in different parts of the country, will get different benefits.

"Do not try to compare programs with your neighbors. You can join the Army on the same day, at the same time, with the same MOS, but in two different locations, and be eligible for two totally different programs," she said.

Here's how Rosenberg explained the basic benefits:

First, there's the Old GI Bill. It covers soldiers who joined the Army between Jan. 31, 1955 and Dec. 31, 1976. If those soldiers get out of the Army before June

30, 1988, their benefits will expire Dec. 31 1989. After that date, they get nothing in the way of educational benefits.

But, if these people stay on active duty beyond June 30, 1988, and they have had no breaks in service since Oct. 19, 1984, then they will be automatically converted to the New GI Bill beginning Jan. 1, 1990. They make no contributions— it's free. The benefits are good for another 10 years.

VEAP

Next, there's the Veterans Education Assistance Program (VEAP), for soldiers who joined between Jan. 1, 1977 and June 30, 1985.

"These people were asked to make a voluntary contribution into the program, anywhere from \$25 to \$100 per month, up to a maximum time of 36 months. The person had to put money into the program by July 1, 1985," Rosenberg said. Soldiers had another chance to contribute to VEAP from Oct. 29, 1986 until March 31, 1987.

The third program was called, until recently, the New GI Bill. It's a different New GI Bill from the one mentioned above. It's now a permanent GI bill since President Reagan signed legislation June 1. Its name is now the Montgomery GI Bill, and it covers soldiers who joined on or after July 1, 1985.

Under the Montgomery GI Bill, soldiers are given two weeks after they enlist to disenroll from the program. In other words, coverage is automatic. Also automatic is a \$100 per month deduction from the soldiers' paychecks. The deduction is carried out for a period of 12 months, Rosenberg said. Unlike VEAP, the money deducted cannot be recovered, except as benefits, and deductions cannot be stopped after a soldier has been in the Army two weeks.

According to Rosenberg, the Montgomery GI bill method of collecting money was started because VEAP was an unpopular program.

"They realized it was an absurd request to ask

young soldiers to make voluntary contributions to the program. It just wasn't working. So they did a reversal. They decided to automatically take out the money," she said.

Recruiting incentives

Next is the group of various recruiting incentive programs. They began in fiscal year 1981, and include the Army College Fund, the Mini-GI Bill, Ultra VEAP, Non-contributory VEAP, and the Loan Repayment Program. They all carry different benefits.

"If you joined the service from FY '81 on, it is imperative that you take a look at the educational contract you signed upon joining the service. That's the ticket to educational benefits. A copy should be in your 201 file at MILPO in building 3710. Bring it to the Education Center or to the JAG office for interpretation," Rosenberg said.

"I'm very concerned about reaching those people who are planning to get out of the service before June 30, 1988, and making sure they understand their benefits expire Dec. 31, 1989 and they wouldn't be eligible for conversion. The amount of money they would receive is substantially more, and they can use it for the next 10 years," she said.

Soldiers affected by the Old GI Bill, New GI Bill and the Montgomery GI Bill will receive counseling from the Education Center. Each soldier will have two chances to attend one of the sessions, which will be scheduled later this summer.

In the meantime, soldiers with questions should visit the Education Center in building 3222 on Snooper Road. Be sure to bring a copy of your educational benefits contract. Members of the Reserve and National Guard have different benefits, so if you're a guard or reserve member, be sure to visit the center.

The Army is taking suggestions on how to improve the Montgomery GI Bill. If you have a suggestion, turn it in to the Education Center no later than July 22. Hours of the center are 7:30 a.m. until 4:15 p.m.

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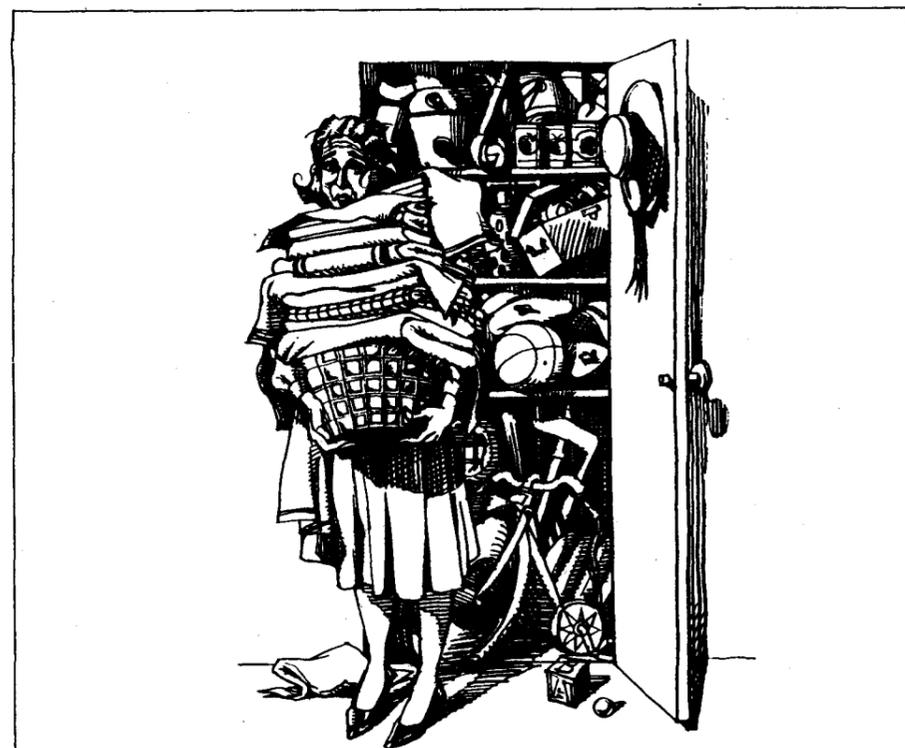
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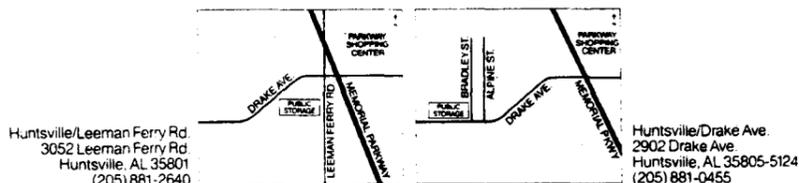


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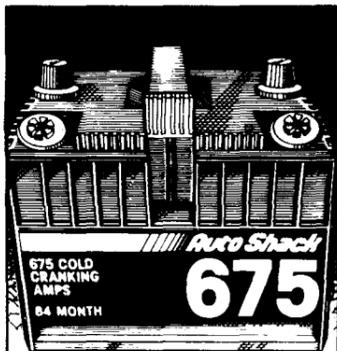
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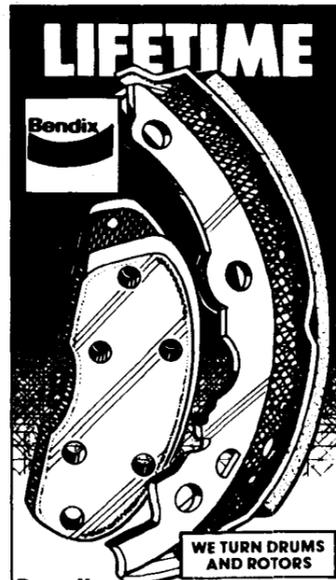
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Artificial intelligence lets computers think

By Tom Joyce
American Forces Press Service

There is nothing else quite like the human brain. It can store a thousand times more information than any computer mankind could ever hope to build. It allows us to blend information and make split-second decisions. But there is a limit to how much information most people can absorb at one time to make those decisions.

Creating an artificial human with the ability to think has not only been the subject of many a Hollywood movie script, but also of serious scientists. Although the term "artificial intelligence" is just now coming into the vocabulary of the average American, serious work has been done in the field since the late 1950s.

Larry Porter is an electronics engineer at one of Aeronautical Systems Division's four Air Force Wright Aeronautical Laboratories at Wright-Patterson Air Force Base, Ohio. Each laboratory is devoted to research and development of advanced aerospace technology. Porter said artificial intelligence not only will play a major role in aircraft operations, but eventually will touch some aspect of each of our lives.

Today, artificial intelligence takes the form of "expert" systems or computer software that mimic the knowledge and thought processes of human experts.

"Computers today are very rigid," explained Porter. "That is, they will do only what you tell them to. They have very low intelligence. Artificial intelligence attempts to re-create the human thought process so a computer can make decisions as a human would."

The real breakthrough in this effort came in the mid-1970s, said Porter, when expert systems were first tested. Scientists discovered they could interview a person who is an expert in a particular field, computer-code that person's expertise and use it to aid in decision making.

There are now more than 600 systems of this type being used in medicine, oil exploration, maintenance and other fields.

"One early expert system is being used to aid physicians to diagnose and select therapies for patients with blood diseases," said Porter. "It carries on an interactive dialogue with the physician and is capable of explaining its reasoning."

The Department of Defense is involved in research to make the best use of expert systems. The Aeronautical Systems Division has several ongoing programs to take advantage of artificial intelligence. They are expected to improve operational performance of weapon systems, reduce their development and manufacturing time and costs, and make future systems more efficient.

(See Intelligence, cont'd on Page 10)



SNOW IN JULY?— The Rocket received several frantic calls last Friday about snow blowing out of this air conditioning unit at building 4488. The "snow" is actually bubbles resulting from detergent used to clean the system.

Law

(Cont'd from Page 3)

dispossess or disable property unless there is a contractual right to dispossession, immediate intention to take the action, and it is permitted by law.

- The use of any language or symbol on any mail or telegram which indicates that the communicator is in the debt collection business.

Collection Procedure: Congress further set procedures which collectors must follow. Within five days of the first communication with a debtor, a collector must provide full details of the debt, including the amount owed, amount owed originally, the name of the creditor, and certain rights available to the debtor. These rights are:

- That if the debtor notifies the collector within 30 days that he or she disputes the validity of the debt, the debt collector may not assume the debt is valid.

- That if such a dispute exists, the debt collector must obtain verification of the debt, or a copy of a court judgment, and provide it to the debtor.

- That if a debtor makes a written request within 30 days, the debt collector must provide the debtor with the original creditor's name and address, if it is different from that of the current creditor.

A debtor who disputes a debt, or who requests the name of the original creditor, must be left alone until

such verification of the debt or the requested information has been provided.

Finally, the law provides that, if a collector takes a debtor to court, this must be done either where the debtor resides or where the debtor signed the original agreement to pay. This means that you cannot be sued in Atlanta over a debt you made in Kansas City when you currently reside at Redstone Arsenal.

The Fair Debt Collection Practices Act is not "old hat." Violations of this law can, and do, occur daily. While most collectors comply with its provisions, some do not. Consumers who are informed about their rights under this law do not get abused. They are able to successfully defend their rights and to insist on considerate treatment.

In recent months there have been violations of this law involving soldiers and their families on Redstone Arsenal. Here are some actual examples:

- There have been numerous instances where collectors have requested postdated checks to pay bills. These checks have been deposited without the required written notification. Often, such checks bounce. Frequently, then, collectors will insist that a soldier redeem the "bad" check, or else...

- There have been instances where collectors have threatened or attempted criminal prosecutions over unpaid bills.

- Telephone abuse is very frequent. There have been instances of harassment through repeated telephone calls to the same person on the same subject within a 24-hour period.

In most cases, the victims of these acts were frightened, severely depressed and miserable—but, seldom did the victim become angry. They weren't angry because they were not aware that such practice is illegal.

If you feel that a collector has violated your rights and protections under the Fair Debt Collection Practices Act, you should seek assistance at once. The Redstone Arsenal office of the Staff Judge Advocate, Legal Assistance Branch, can give you good advice on your rights and protections. They may not be able to represent you, but they will steer you in the right direction. You can call 876-9015 for an appointment.

The Financial Planning/Consumer Affairs Office, ACS, can assist you also. We will be happy to advise you about your consumer rights and how you can enforce them effectively. Often, we can be a great help in working with collectors and creditors to resolve the original problem—the bill. We can help you get back on your feet again. Call us at 876-2859. We can help.

(Kelly is a financial planning and consumer affairs specialist at Army Community Service.)

Intelligence

(Cont'd from Page 9)

One artificial intelligence program now in development will eventually monitor more than 19,000 separate potential fault points in the B-1B bomber's avionics, flight control and propulsion systems. When the aircraft returns for maintenance, the central integrated test system will already have located problems behind any faults that register.

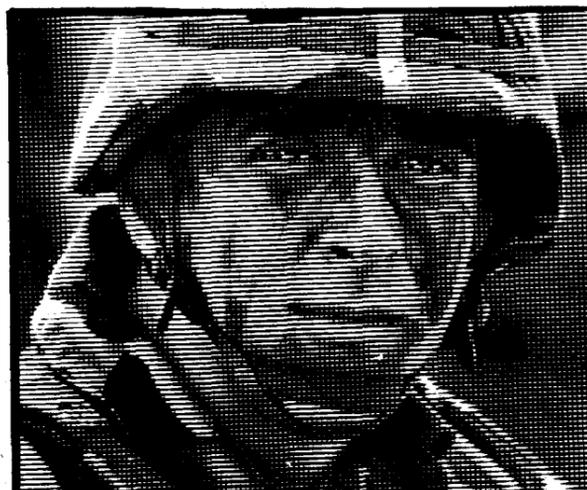
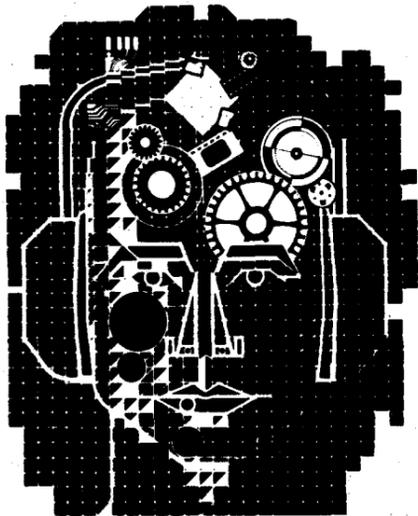
But don't expect to find a thinking robot under your Christmas tree any time soon. Even though great strides have been made in the field in recent years, Porter said there is a lot of research still to be done.

"For one thing, the systems in which we expect to use artificial intelligence will be required to make split-second decisions," said Porter. Computers that can make decisions in almost real time do not exist. "We're still working on that," he said.

Also, current expert systems generally function on information taken from only one person. "How do you code information from 70 different experts — many of whom disagree?" Porter said. "And how do you provide a system that will take

information by sight and voice and use it to make decisions?" Those research and development programs are in their infancy.

"But along each step of the way, the main focus of this research will continue to be helping the human, not replacing him," said Porter.



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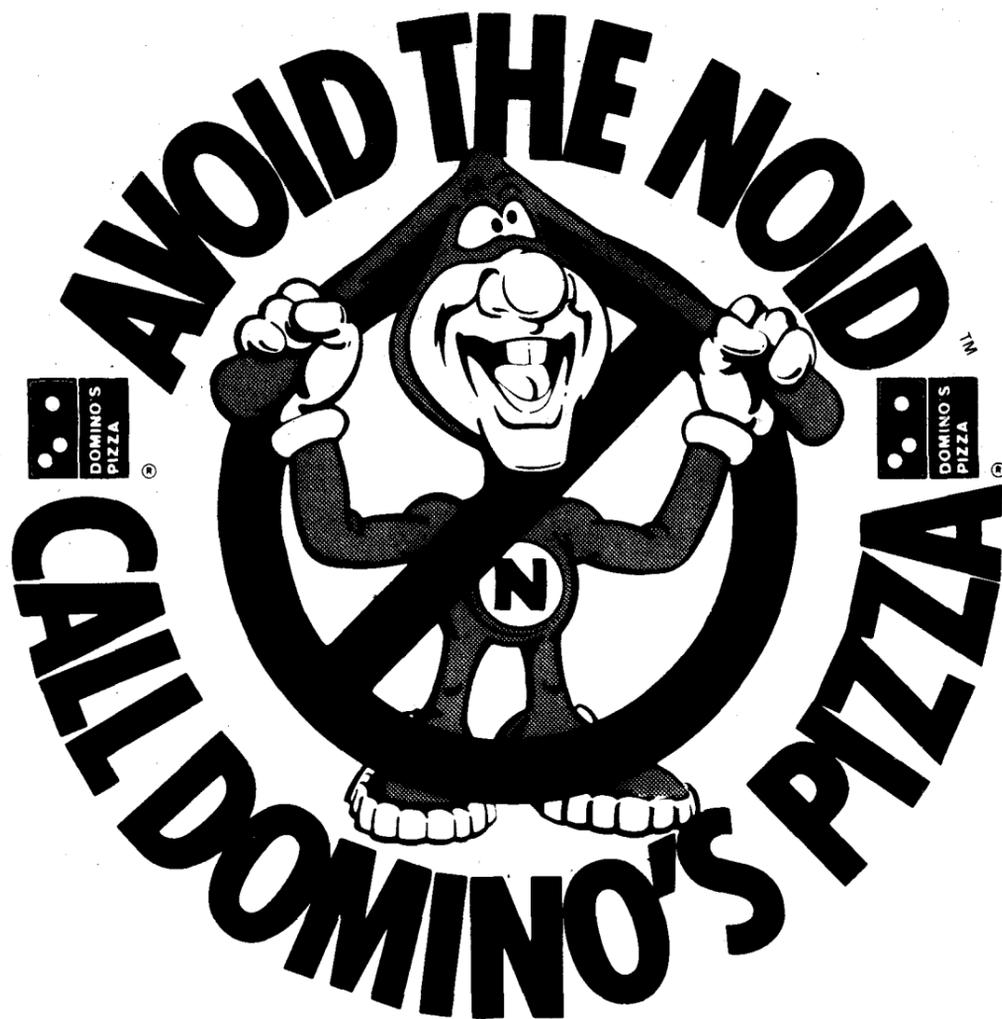
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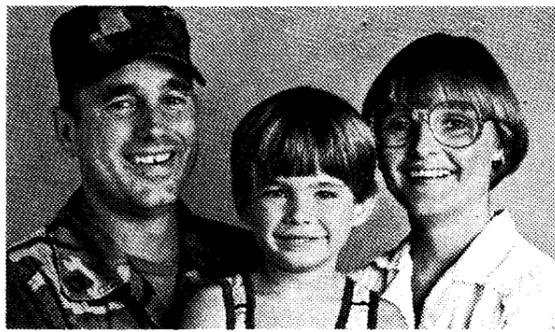




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"Connie and I feel that the Army's really come a long way in housing and, you know, in taking care of its people."

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**ARMY FAMILY.
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Family member jobs coordinator wants to expand options

BY PAM ROGERS

The new coordinator of Army Community Service's Family Member Employment Program knows firsthand some of the problems experienced by Army families who must move from place to place.

Nancy Dudney was once an Army wife, but she and her husband, Richard, have lived in the Huntsville area for the last 15 years.

"I remember what it was like. It seems like the problems haven't changed, but people now have more resources," she said. In the days Dudney was an Army wife, there was no ACS, no Family Member Employment Program.

"The only resource we had was the American Red Cross— if we were lucky enough to have a representative on post.

"I think the military is becoming more conscious of the needs of military families, and trying to make provisions for that," she said.

Dudney feels comfortable in her role as a proponent for job seekers. She spent eight years working at the Voluntary Action Center, counseling people on job opportunities in volunteer areas, and another two years as a counselor at the Redstone branch of Columbia College.

She realizes that people who come to her office for help may need different things.

"Some just need to talk. They're feeling bad about their experience in job hunting," she said.

She stressed that it's not the mission of her office to place people in jobs, but to help them find jobs. It's strictly a referral service.

"The office helps the clients think creatively, improve their chances, and if there is an opening in their particular skill, they're referred," she said.

"Another thing that helps me relate and understand (military families) is that I went to school with military people at UAH and on post," she said. Dudney has a bachelor's degree in business from Columbia College.

"As a counselor at Columbia, I met military students on a day-to-day basis. It really gives me insight into their concerns and the other things they have to contend with," she said.

Even though she's only been with the program for about a month, Dudney believes she has already pinpointed one of the biggest problems job hunters face.

"Mostly, they don't know where to go, or how to even begin looking for a job. What I hope I can do is steer them to a job," she said.

She also wants to help people broaden their searches.

"A lot, understandably, would like to be employed here on the arsenal. This is their community. But there just are not enough jobs. I want to give them every opportunity to get a job here, but I would like for them to consider things off post. It's very limiting to say, 'I only want to work on post.' I hope I can expand their horizons."

Although Dudney deals mainly with private sector employment opportunities, her office is just one component of the Civilian Personnel Office's One-Stop Employment Center. Her clients only need to step across the hall to find out about federal, non-appropriated fund and state jobs.



DUDNEY

One of Dudney's goals is to increase the number of employers who participate in the program.

"I want to increase the listings of private sector jobs. I would like to have more specific referrals," she said.

Most importantly, she wants her clients to feel their visit to the office is time well-spent.

"I want people who come here to be glad they did—to feel they were helped."



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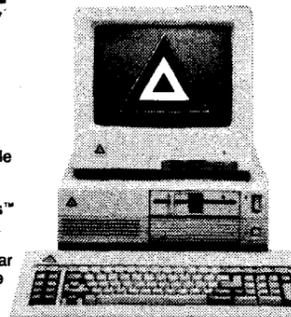
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Kitchen can make home for pests

By Corinne P. Earnest

Maintenance and Modernization Supervisor (Magazine)

Many people unknowingly bring home bugs when they bring home the bacon.

Typically, pantry pests cannot be seen in food products or on packaging. That's because they are usually in the larvae stage when foods are purchased, and consequently are practically invisible. Once home, however, in the warm, dry environment of the kitchen, the insect eggs hatch and bore their way out of packages and into others, contaminating the entire pantry.

This problem isn't unique to public or multi-family housing such as Army family housing or barracks. Householders in virtually every living situation bring home unwanted pests with the groceries. When they store these groceries any length of time, the problem can get out of hand, and in multi-family housing, pests may actually spread from one heavily infested unit to another.

Types of pests vary from one locale to another. They include various moths, beetles, ants, grubs, and roaches. Many of these are content with dry food stuffs such as flour, crackers, and cookies. This means they may not leave cupboards to seek water, but stay hidden in dark cabinet interiors, breeding hordes of new pests. Once foods are con-

taminated, it can be very difficult to contain pests without emptying the entire pantry and starting fresh.

Controlling pests requires the cooperation of all residents. They must be willing to throw away food — some of which may not appear contaminated, but which was stored with foods that are. Some residents may be reluctant to do this. That's understandable, but they need to remember that any new food brought into the home may become infested, so if they don't discard old food, at the very least, they should keep it separate.

The first step in ridding kitchens of pests is to toss obviously contaminated food away. If some food packages have been recently purchased and appear to be all right, they should be sealed in plastic bags and stored away from extermination areas.

Next, food storage areas should be thoroughly cleaned with detergents and disinfectants. Be sure to follow directions on disinfectant labels. It is against the law to violate these instructions, and the active ingredients of some disinfectants may be neutralized if you stray from proper usage. For instance, too hot or too cold water temperatures, or too much water may ruin the disinfectant's effectiveness.

Always use clean equipment to apply disinfectants. Also, allow the disinfectant to sit on the treated surface long enough to do some good — usually about five minutes before rinsing. Be sure to treat corners and cracks thoroughly. Use a fresh solution for each infected area and from one unit to another.

Residents with large families may be tempted to store large quantities of food, but again, discourage this practice for at least a month after disinfecting. Also, use of shelf papers in food storage areas should be stopped. These papers often provide ideal habitat under which pests live and breed.

If the problem persists, start over again — removing food from shelves, cleaning, and disinfecting. This time, however, leave a residual insecticide, especially in corners and cracks.

Finally, residents must practice good housekeeping habits, immediately wiping up spills in cupboards and on countertops, and keeping kitchens generally clean. As an added incentive, residents should remember the cost of throwing away otherwise good food should it become infested.

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Rapid delivery discount

USAir recently joined Greyhound Lines in offering discount rates on rapid package delivery service, according to Jeanie Bell, traffic management specialist with the Military Traffic Management Command.

USAir's 50 percent discount on Packages Delivered Quick service for active-duty service members and their families began June 1.

USAir will deliver packages weighing up to 50 pounds for \$23 and from 51 to 70 pounds for \$33 at the new military discount rate. The normal rates are \$47 and \$67, respectively. The packages must measure not more than 90 inches in combined length width and height, with no dimension more than 48 inches.

Small parcels may be bound together and sent as one PDQ. The military discount will not apply to official military business or small animal shipments.

To qualify for the discount, military people

must present a valid green active-duty identification card, a tan uniformed services dependent ID card marked "active," or discharge papers within seven days of discharge to the USAir agent when shipping PDQ service.

The discount rate will also apply to anyone shipping packages to servicemembers and their families. The same identification requirements will apply when the packages are claimed.

USAir's PDQ service offers same day, airport-to-airport package delivery to more than 140 USAir and Allegheny Commuter cities in the United States.

PDQ service is available at any USAir or Allegheny Commuter airport ticket counter for packages presented at least 30 minutes before flight departure, or 60 minutes before departure at any USAir freight office. PDQ shipments must be picked up at the USAir/Allegheny Commuter baggage claim office. (TRADOC News Service)

Hunting program seeks volunteers

Persons interested in serving as volunteer workers in the Outdoor Recreation Center during the 1987-88 hunting season should apply in writing during the period Aug. 1-14.

Hunting program volunteers assist mainly in processing hunters checking through the recreation center during early morning hours on weekends in the gun deer season.

Volunteers work under the direction of the center staff. Those interested should apply in writing at the recreation center stating their qualifications and availability.

Active duty and retired military personnel and civilians eligible to hunt on the arsenal may apply.

Volunteers receive special hunting privileges in return for their help.

Contact Shelby Williams, outdoor recreation director, at 876-6854 for further information.

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Athletics lead at end of first round

At 14-2, the Athletics finished with the best record for the first round of the civilian softball league season.

The Cougars and Stallions finished with 13-3 records. Next best were the MSIC-1 team, T&E, and RADS, all at 11-5:

In games last week, Doug Turbeville homered to help T&E to a 8-7 win over MSIC-1.

Joe Carter homered and drove in three runs as the Athletics blanked SEPD 16-0. Kurt Wheat also drove in three runs while Bob Johnson delivered two. James Fletcher brought in a run, and Ricky Prince contributed two hits.

In other action, T&E whipped Servicemaster 26-7, Redrocks beat the MSIC-1 team 13-9, Patriot clubbed SEPD 13-4, and SEPD defeated Servicemaster 13-6. Also, it was the Stallions over T&E, MED over Hawaiianoids, CPO over COE, and MED over CPO; scores were unavailable for these contests.

Here are the final standings for the first round as reported Friday, July 10: Athletics, 14-2; Cougars, 13-3; Stallions, 13-3; MSIC-1, 11-5; T&E, 11-5; RADS, 11-5; MED, 10-6; Patriot, 9-7; Thiokol, 8-8; Hawaiianoids, 7-9; CPO, 6-10; Pershing, 6-10; SEPD, 5-11; COE, 5-11; Redrocks, 5-11; Servicemaster, 1-15; and MSIC-2, 1-15.

Twenty years ago, leukemia* killed enough people to fill the Houston Astrodome.

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For more information, including the free booklet "What Everyone Should Know About Leukemia," write to: Leukemia Society of America, 733 Third Avenue, New York, N.Y. 10017

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Announcements



Top graduates

The following servicemembers received Honor or Distinguished graduate awards at OMMCS June 22-26: PFC Robert R. Seymour Jr., distinguished, Pvt. Daniel T. Miller, honor, Pvt. Ruben Garza, honor, Chaparral/Redeye Repairer; Pvt. Steven M. Schulte, distinguished, PFC Stanley C. Heston, honor, Sp4 Glenn E. Barnes, honor, Tow/Dragon Repairer; Pvt. Michael R. Quintana, distinguished, Sp4 Nathaniel Keitt, honor, Sp4 Joseph T. Haddakin, honor, BFVS Tow/Dragon Repairer; Sgt. Ruth A. Fisher, distinguished, PFC Sherry L. Harmon, distinguished, BFVS Tow/Dragon Repairer; 2nd Lt. Richard S. Poirer, distinguished, 2nd Lt. Bradley T. Wolf, honor, 2nd Lt. Herbert M. Morris, honor, 2nd Lt. Mack D. Hagin, honor, 1st Lt. Brent J. Gutierrez, honor, Ordnance Munitions Materiel Management OBC; Pvt. Anthony J. Kroes, distinguished, and PFC Phillip M. Terna, honor, Explosive Ordnance Disposal Specialist.

Immunization clinic

The Immunization Clinic at Fox Army Community Hospital is closed Thursday afternoons due to the increasing demand for skin testing and allergy testing. Thursday afternoon closures are the only change in hours. Hospital officials request that people keep this in mind when coming to the hospital for allergy/immunization shots.

Found property

A boys bicycle has been found. To identify and claim it, contact the Provost Marshal Office, Investigations Branch, building 3649 (phone 876-2090/3449).

Rental vehicles

Travelers whose travel orders authorize the rental of a commercial vehicle should go through the Transportation Branch (SATO) for reservations, according to Finance & Accounting officials. SATO will then make rental car reservations at the same time as they make airline reservations. The Transportation Request (TR) will reflect the name of the rental car agency, confirmation number and the rate that is confirmed for the vehicle. Upon settlement of the travel claim the Finance & Accounting Office will compare the rates shown on the TR with the rental car receipts turned in with the travel claim. The amount paid will be the amount shown on the TR or the amount claimed on the travel claim, whichever is less. Travelers who are charged a higher rate than that shown on the TR can be reimbursed at the higher rate if a full explanation of the circumstances is noted on the travel claim. In situations where the charge was higher than stated on the TR and there was no change of car model or rental car agency from that shown on the TR, no additional statement is required and full reimbursement will be made.

Sci-fi group

North Alabama Science Fiction Association will have its monthly meeting at 6 p.m. July 18 at First American Federal Savings and Loan, 4008 University Drive NW. For more information call Jack Lundy 876-9414/9415.

Handbell choir

The Heritage Ringers, a non-profit community concert handbell choir, is holding auditions for the 1987/88 concert season. For more information call Dr. Stanley R. McDaniel 536-3354.

Army Learning Center

The following computer-based, self-paced courses are offered at the Army Learning Center. "Ada Programming Fundamentals Curriculum" covers the following courses: Ada Overview— provides an introduction to the Defense Department's new standard programming language, Ada; Ada Programming: Fundamentals— trains programmers in the basics of the Ada language and effective design and development methods. "Computer Literacy Curriculum," is twenty-one short, independent courses which address computer literacy topics ranging from basic computing concepts to the impact of computers in society. For more information call 876-1061/1416. To enroll in these courses, send a DD Form 1556 to building 7446, AMSMI-CP-TC/ALC, Attn: Army Learning Center.

Smoking cessation

The School of Primary Medical Care at the University of Alabama in Huntsville will sponsor a smoking cessation lecture by Dr. John B. Hopkins Tuesday, July 21 at 7:30 p.m. in the UAH Clinical Science Center Lecture Hall at Governors Drive and Gallatin Street, across the street from Huntsville Hospital. For more information call 536-5511.

ACS birthday

Redstone's Army Community Service office will celebrate the 22nd birthday of ACS with a party July 21 at building 3491 from 1 until 3 p.m. The party will feature cake, punch, an open house and the naming of winners in the ACS Slogan Contest. The entire Redstone community is invited.



American Red Cross

Red Cross blood winners

Here are the winners of the May Red Cross blood drive. Competition Management Office, 1-50 category, Jan Dill, coordinator; Chapparral/FAAR Project Office, 51-100 category, Ruth Burton, coordinator; Multiple Launch Rocket System Project Office, 101-200 category, Virginia Bagwell, coordinator; Missile and Space Intelligence Center, 210-400 category, Bertiera Humphrey, coordinator; Procurement Directorate, 400 and over category, Mallory Murray, coordinator.



Women's support group

A women's support group focusing on issues relating to domestic violence meets Mondays at 7 p.m. at the Girl's Club at 1216 Meridian Street.

Muscular dystrophy association

Service Merchandise of Huntsville will hold "Diamond Digs" to benefit the Muscular Dystrophy Association. The "dig" will consist of a freezer filled with ice cubes, 50 of which will contain cubic zircons and two of which will contain quarter-carat diamonds. An ice cube can be chosen for a \$1 donation. The store in Madison Plaza will hold their event July 17, and the South Memorial Parkway store will hold theirs July 18. Store hours are 10 a.m. to 8 p.m. For more information call Mr. Cooley 534-5674 or Mr. Manley 830-5572.



Hospital clinic

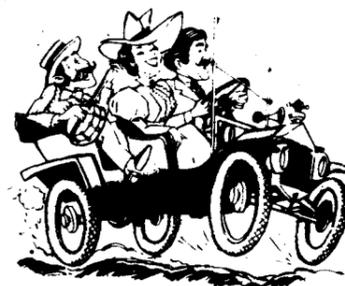
Here are the appointment scheduling times for the Medical Surgical Clinic located at Fox Army Community Hospital: 8 a.m. until noon, and 1-3:30 p.m.

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maximum protection against viscosity and thermal breakdown

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69¢ **89¢** qt

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20W/50

SOLDER SEAL/GUNK ASSORTED PRODUCTS



#MF-2 5 Minute Motor Flush cleans engine
M19-15 Motor Medic #1 Oil Treatment
M48-14 Carb Medic carburetor, valve and choke cleaner

49¢ net after rebate

1.49 sale price
- 1.00 mail-in rebate*



#EB-1 Engine Cleaner removes grease & grime
M10-66 Lan-Lin Hand Cleaner

49¢ net after rebate

.99¢ sale price
- .50¢ mail-in rebate*

LIMIT 6 each

*Limit one coupon per product.

GUARDIAN PREMIUM BRAKE SHOES



10.99 each

All 62 series in normal stock

PREMIUM AUTO OR TRUCK BRAKE SHOES

10.99 each with trade-in

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RAIN DANCE CAR WAX



3.99 net after rebate

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#0241N - liquid or 0245N - paste
Keeps on beading wash after wash
*See specially marked packages for rebate information.

LIMIT 6

CAROL CABLE 8' BOOSTER CABLES



4.88 each

#BC-108P

10 gauge tangle proof cables

12' BOOSTER CABLES

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#20812

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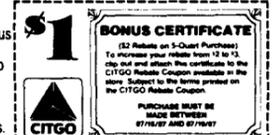
2.99 net each after rebate

4.45 sale price on 5 qts
- 2.00 mail-in rebate
- 1.00 Bonus Certificate on 5 qts*

LIMIT 12 at sale price

ATF-FA or DEXRON II

*Receive a 1.00 bonus rebate when you purchase 5 qts Citgo ATF & include the bonus certificate with your mail-in rebate - limit 5 qts.



STP LEAD SUBSTITUTE



69¢ net after rebate

1.19 sale price
- .50¢ mail-in rebate*

Prevents power loss for low lead regular gas.

*Limit one coupon per household.

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1.69 each

4 oz tube

Automotive diesel fuel conditioner
Anti-bacterial

WELLS PCV VALVES



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1.25 net after rebate

C or D - twin pack, AA - 4 pack

2.00 sale price
- .75¢ mail-in rebate*

*Limit one coupon per household.

NGK SPARK PLUGS



99¢ each non-resistor

1.19 each resistor or dual electrode

Sold in sets of 4, 6 or 8 only

LIMIT 16

PENTRON 2" AMP BAR GAUGE



12.88 each

#CP-8040

2" OIL PRESSURE OR WATER/OIL/TEMP BAR GAUGE

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For most cars & light trucks

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3.97 each set

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29.99 each

#242010 - moderate driving or warmer climate

39.99 each

#242016 - severe driving/towing or hot climate

WELLS CHROME TRAILER CONNECTOR



5.49 each

#TC11BP

Die-cast plug and socket with brass contacts.

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37.99 each

#6782

For small block Chevy
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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: 1980 Pontiac Bonneville station wagon with air conditioning and power steering, brakes, windows and door locks. Good condition. Call SFC Alfred Hammond 830-2908 after 7 p.m.

MOVING SALE: Cocktail table, \$30. Book case, \$25. Twin antique white bed complete \$50. draperies, bedspreads, sheets twin and full sizes. Boys sizes 10-18 clothing, jackets, girls and women's coats. Girls teen sizes 3, 4, 5; juniors 7-12; women's sizes 10, 12, 14. Miscellaneous items. 1973 Volvo wagon, good condition, \$2,000 or best offer. Call 721-1931 after 5 p.m.

FOR SALE: 1969 Continental Mark III. PS, PB, PW, dual power seats, cruise, climate control. Air conditioning, AM/FM stereo, power antenna, leather, taillight monitors. Drives and runs well. Asking \$2,000. Call 837-2507, 880-1443 or 355-5762.

FOR SALE: 1986 Ford T Bird, turbo, low mileage, all the extras. White with red leather interior, \$11,000. Call 880-1714.

FOR SALE: 1983 Honda Nighthawk 650 motorcycle. Has a 1986 engine, and is in very good condition. Make offer. Call 878-9483 after 5 p.m.

FOR SALE: 1985 Honda Accord hatchback, five speed. Air conditioning 19,000 miles; tinted windows; AM/FM digital cassette. Excellent condition. Redstone will loan \$8,350. Sell for \$7,250. Call Frank Mountford 895-9569.

FOR SALE: 1987 Nissan Sentra, two-door hatchback, five speed. AM/FM cassette, air, low miles, under warranty. Asking \$7,200, or best offer. Call 852-4543.

WANTED: Redstone Arsenal resident teen-ager willing to cut grass and run weed eater every other weekend at RSA quarters, 1234-A Nike, for \$10 each time. Small yard. Call Susan Hartman 830-9120 after 5 p.m. or on the weekend.

FOR SALE: Two brand new, homemade patchwork quilts, \$50 each. Also 1970 Opel; look and make an offer. Call 830-5924.

FOR SALE: 1986 White Monte Carlo SS. Loaded except for T-tops. \$13,000 or make an offer. Call 532-7787 or 534-5830 and ask for Aileen.

PRICE REDUCED: 200 large gray rocks, \$40.00, will sell-100. Solid Walnut table and six chairs, in good condition, \$250. Phone 536-4547.

FOR SALE: 1986 T-Bird Turbo Coupe, low miles, all options, no down payment, assume loan for qualified buyer.

FOR SALE: HD Superglide, engine and trans rebuilt. Lots of custom extras and new paint. \$2300. Call 880-1714 after 5 p.m. (Pete).

FOR SALE: A digital Decscope VT 50 Computer. \$50. Call after 5 p.m. 533-7681.

FOR SALE: 1975 H-D Superglide. Rebuilt engine and trans. New paint, lots of custom work. \$2,400 call 880-1714.

FOR SALE: 1983 14x60 Centennial mobile home. Two bedrooms (front and rear), one bath, all electric, a/c, storm windows, refrigerator, range, located in very nice park, convenient to Redstone Arsenal and Madison Square Mall. \$8500 call 830-4831.

CORVETTE FOR SALE: 1981 white with black interior. T-tops, Kenwood High Power Stereo, new Eagle GT's, automatic, 42,000 miles, asking \$10,300. Selling because I'm building a house and have another car. 852-3181.

FOR SALE: Lightweight utility trailer with 4.80-8 wheels, also trailer with 5x8 foot signboard. Call Gary at 851-9626 or 895-5638.

HOUSE FOR SALE: 3 bedroom, 1 bath, fenced back yard, central heat and air, stove, refrigerator and dishwasher, \$40,000 or assume loan and equity of \$15,000. Owner finance large part of equity. 881-3061.

HOUSE FOR SALE: Southwest, close to Arsenal, 2 bedroom, 1 bath, central gas heat and air. Corner lot with big yard. Carport and utility room. Refrigerator, stove, garbage disposal, washer, and dryer. \$42,500 or equity and assume loan. Owner finance part of equity. 881-3061.

FOR SALE: 1978 Mercury Coupe XL, new top, custom wheels, all power, cruise, 98K miles, new tires, midnight blue with tan interior, 1 owner, must sell. Call Lester Young 859-4762. \$3300 asking price, nice 2nd car. Must sell, moving to KMR.

FOR SALE: CFA Reg. Persian Kittens. Excellent Pedigree. Gray \$175.00, white \$250. 536-9713.

FOR SALE: 1985 Dodge Ramcharger V8/318 engine, A/C, AM/FM/cass., 27,500 miles. \$8950. 883-7043 after 5:00 p.m.

FOR SALE: 1979 Mercedes 240-D, 4-5p., all power, dove gray with blue leather interior, new tires, must sell. \$8,300 obo. Be serious. Call Lester Young 859-4762 after 5 p.m. 235K miles but new motor/transmission. Must sell, moving to KMR.

FOR SALE: Custom made utility/car hauler trailer, dual tandem axles, 16 ft. long, wired for electric brakes. Extra heavy construction gauge angle iron, bed has 2x8 ft. boards. Paid \$750, asking \$625. Must sell, moving to KMR. Call Lester Young at 859-4762 after 5 p.m.

BY OWNER: No Points, downpayment, prepaids, M.I.P. or Agents Free. Buy our equity \$32,000. 4 bedrooms, 2 baths, fireplace, oak cabinets, 1,962 sq. ft. near Arsenal, landscaping, fenced. Monthly payments \$461.25. Mortgage balance \$42,100. Call 882-0636.

FOR SALE: Air conditioner, Kelvinator 10,000 BTU's almost new used only 2 mos., \$235. Call 859-5395.

FOR SALE: Set Army Dress Blues enlisted jacket 38 Reg., 32x32 pants, \$75. Call 859-5395.

FOR SALE: 14 ft. Bass Boat with 90 HP Johnson Motor & Depth Finder \$1,175.00. Phone Home 772-3244.

FOR SALE: Trumpet, Bach Stradivarius, newly re-silvered and re-conditioned, like new, \$550. Call 883-1089 after 5 p.m.

FOR SALE: Zenith B/W TV \$50; Honda Motor Bicycle \$175; Genuine Kikuya Company Hibachi Pot \$40; Authentic Pachinko Pinball Machine \$25; Llama/Alpaca 4x6 Rug \$150; Turkish Oriental Rug (red design) \$325; JVC Nivico 8 track player \$40; call 882-0244 after 5:30 please.

FOR SALE: 6 pc. livingroom suit for \$200. A couch & chair for \$100. A Kraco in-dash/under-dash car cassette player w/AM-FM stereo radio and 2 Kraco speakers \$75. Matching bedspread & curtains (green & gold) \$35. King size water bed w/book shelf headboard \$200. Call 533-7681 after 5 p.m.

FOR SALE: 1981 Suzuki GSE 1100 motorcycle. \$1,500 or negotiable. Call Johnny Fox 837-6716.

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New listing, this one is a real beauty. 3 bedroom brick, 1-3/4 baths, family room, free standing stove, deck, beautiful lawn, 2 car garage, close to RSA, Research Park, and Madison. \$82,500.00. 539-0321 or 539-1055.

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SOUTHEASTERN INSTITUTE OF TECHNOLOGY

AN INDEPENDENT PROFESSIONAL SCHOOL OF ENGINEERING, MANAGEMENT, AND APPLIED SCIENCE

COURSE OFFERINGS — EARLY FALL TERM 1987

DATES: MW sessions Aug. 31 - Oct. 26; TT sessions Sept. 1 - Oct. 22; Sat. sessions Sept. 12 - Oct. 24. Holiday Sept. 7.

REGISTRATION: Continuous through first session. Reservations are required (telephone 837-9726 or 837-9769).

FEES: Full-term 300/600 level: \$270 tuition per course plus \$5 registration, or as noted. 700-level: \$120 per credit. Application (one-time): \$5 special (non-degree); \$25 regular. Textbooks additional.

FINANCIAL ASSISTANCE: Approved for tuition assistance from most governmental and industrial organizations; limited VA assistance. Half-tuition scholarships are available from Southeastern for qualified attendees. NOTE: Most training offices require assistance requests 30 days prior to course start.

INFORMATION: Telephone (205) 837-9726/837-9769 or write P.O. Box 1485; Huntsville, AL 35807.

11-571 RADAR SYSTEMS MW 4:30-6:40 p.m.
An introduction to the theory, functions, and applications of modern radar systems. Background: basic knowledge of signal analysis. Instructor: Stephen M. Gilbert, Ph.D.; Dynetics, Inc.

11-631 COMMUNICATION SYSTEMS MW 6:50-9:00 p.m.
A study of modern communication systems for analog and digital transmission, emphasizing RF channels. Background: knowledge of signal mathematics. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.

14-506 APPLIED AERODYNAMICS MW 4:30-6:40 p.m.
An introduction to aerodynamics with applications in atmospheric flight of aircraft and missiles. Background: basic knowledge of fluid-thermodynamics. Instructor: Terry F. Greenwood, Ph.D.; NASA Marshall Space Flight Center.

14-541 TACTICAL MISSILE SIMULATION TT 6:50-9:00 p.m.
A study of 6-D simulation development for tactical missiles. Background: basic knowledge of controls and modeling desirable. Instructor: Charles W. McKerley, M.S.E.; Nichols Research Corporation.

17-506 STRUCTURED PROGRAMMING (PASCAL) MW 4:30-6:50 p.m.
A study of stepwise algorithm development and programming in Pascal and Fortran. Background: basic knowledge of programming. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

17-512 SYSTEM SOFTWARE Sat. 8:00-12:00 noon
An examination of assemblers, loaders, macro processors, compilers, and operating systems. Background: good knowledge of programming. Instructor: Bobby C. Hodges, M.S.E.; NASA Marshall Space Flight Center.

17-635 FIFTH-GENERATION LANGUAGES TT 6:50-9:00 p.m.
An examination of programming languages for artificial intelligence applications. Background: knowledge of programming and data structures; AI desirable. Instructor: Robert R. Covelli, S.M.; John M. Coeckerham & Associates.

17-647 RELIABLE COMPUTING TT 4:30-6:40 p.m.
An examination of hardware and software techniques for highly reliable computing. Background: knowledge of computers and software. Instructor: J. B. White, Ph.D.; General Electric Military Data & Information Systems.

21-541 BEHAVIOR IN ORGANIZATIONS Sat. 8:00-12:00 noon
A study of the behavior of individuals and groups in the work environment. Background: basic knowledge of management; psychology desirable. Instructor: Walter W. Tribble, D.Mgt.; U.S. Army Missile Command.

24-531 BUDGETING AND FINANCING MW 4:30-6:40 p.m.
A study of the theory and techniques of budgeting and financial management in organizations. Background: basic knowledge of accounting desirable. Instructor: Richard H. Shuford, Jr., D.B.A.; Management Consultant.

24-552 CONTRACTS ADMINISTRATION MW 6:50-9:00 p.m.
An introduction to contracts administration emphasizing contracting by and with the Federal government. No particular background required. Instructor: Eugene R. Andrzejewski, M.B.A.; Teledyne Brown Engineering.

27-671 R&D MANAGEMENT TT 4:30-6:40 p.m.
A seminar on management problems in research and development organizations. Background: studies or experience in management. Instructor: Julian S. Kobler, J.D., D.Sc.; Management Consultant.

31-505 STATISTICS AND PROBABILITY TT 6:50-9:00 p.m.
A study of fundamental statistics and probability with managerial and engineering applications. Background: knowledge of basic mathematics. Instructor: Leonard W. Howell, Ph.D.; NASA Marshall Space Flight Center.

31-541 ADVANCED ANALYSIS TECHNIQUES I MW 6:50-9:00 p.m.
A study of Fourier methods, partial differential equations, and special functions; fundamentals review. Background: basic knowledge of diff. equations. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Inst. of Technology.

34-544 LASER DEVICES AND APPLICATIONS TT 4:30-6:50 p.m.
An introduction to laser theory, devices, characteristics, and applications. Background: basic knowledge of optics desirable. Instructor: Neil E. Chatterton, Ph.D.; Teledyne Brown Engineering.

SHORT-TERM COURSE

RADAR PRINCIPLES AND APPLICATIONS Oct. (TBA) 8:00-12:00 noon
An intensive introduction to radar theory with applications in tactical and strategic defense systems. Primarily for non-radar engineers, system analysts, and technical managers. Instructor: Stephen M. Gilbert, Ph.D.; Dynetics, Inc. Fee: \$450.

CAREER ADVANCEMENT OPPORTUNITIES

If you are a professional working in engineering, management, or applied science, Southeastern provides an excellent selection of courses for updating and career development. The offerings may be taken as continuing education or used in the development of advanced degrees. Our faculty members are all professional practitioners, and this is our key to relevance: instructors who practice what they teach!

Southeastern is now entering its 12th year of service to this community. We have thousands of very satisfied customers, and our graduates are found in key positions throughout industrial, governmental, and business organizations. Let us show how we can be of assistance to you.

During the 1987-88 academic year, Southeastern will offer full programs in all areas of specialization. Most courses are given during evening hours, but full curricula in business administration and applications programming will be offered on Saturday mornings.

TECHNICAL AND MANAGEMENT PROGRAMS

Southeastern offers specializations in the following areas for professional programs at the master's level:

- Applications Programming
- Applied Mathematics
- Business Management
- Computer Engineering
- Contracts Management
- Defense Systems
- Electronic Systems
- Electro-Optical Systems
- Engineering Management
- Human Systems
- Intelligent Systems
- Missile Systems
- Operations Research
- Radar Systems
- Signal Processing
- Software Engineering
- Space Systems
- Systems Engineering
- Systems Management
- Telecommunication Systems

At the doctoral level, professional specializations are available in the following areas:

- Computer and Software Systems
- Defense Management and Technologies
- Management and Business Systems
- Missile and Space Systems
- Optical and Electro-Optical Systems
- Research and Engineering Management
- Sensor Systems and Signal Processing
- Systems Engineering and Analysis

For persons with considerable prior studies toward the doctorate, other specializations might be developed for degree-completion programs.

WIDE SELECTION IN COMPUTERS AND SOFTWARE

An outstanding selection of courses is offered by Southeastern for master's and doctoral programs in computers and software. The master's degree may be earned with specializations in applications programming, computer engineering, intelligent systems, and software engineering. The doctorate involves advanced courses in these same areas.

For persons desiring a firm background in professional-level programming, a series of Saturday morning courses will be presented. For admission, a degree (in any field) and a basic knowledge of programming is required.

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For capable, experienced adults who have a considerable amount of prior undergraduate study, Southeastern offers a program allowing direct entrance into professional graduate study, culminating in the simultaneous award of a master's degree and a related bachelor's degree. For entrance, persons must have at least seven years experience, including several years in a position of senior responsibility, and 75-90 semester hours of college credit.

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Southeastern Institute of Technology is an independent, nonprofit institution of higher education, providing continuing education and professional degree programs for mature, working adults. Fully approved by the Alabama Department of Education, Southeastern offers programs leading to the following degrees:

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Southeastern's central facilities are located at 200 Sparkman Drive, Cummings Research Park. The mailing address is P.O. Box 1485, Huntsville, AL 35807. For additional information, telephone

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Southeastern Institute of Technology admits attendees of any age, sex, race, color, or national and ethnic origin.