

Redstone Rocket

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July 10, 1985

I-565 work begins adjacent to arsenal

Construction workers have begun moving the arsenal's north boundary fence as the first step in building an I-565 segment.

This segment extends from Zierdt road on the arsenal's west boundary eastward about 1½ miles to Indian Creek.

The new interstate highway spur through Huntsville is slicing off a strip of the arsenal about two miles long and 200-250 feet wide bordering Test Area 3 and the ammunition supply point training area.

Before excavating a roadbed, the builders will install a berm of mounded earth 30 feet tall and about 200 feet long to serve as a safety and security shield between the new highway and Test Area 3.

A second I-565 segment scheduled to be put under contract early in 1986 will reach from Indian Creek to beyond Rideout Road. This construction is expected to affect traffic entering and leaving the arsenal at Gate 9 for a period of three years or longer.

Meanwhile, as a prelude to beginning work, builders were given a safety briefing here July 2 to caution them that their path across the arsenal is through an old test range that could contain World War II-vintage unexploded ordnance.

Explained precautions

Experts from the local Explosive Ordnance Detachment showed pictures and actual specimens of the types of ordnance manufactured here during the war

and explained precautions that should be taken should one of the items be discovered. The items include artillery rounds, mortars, grenades and bombs.

Records show about nine acres in the arsenal's northwest corner to have been used for ordnance testing. One document identifies it as "an aerial drop munitions testing" area. It and a much smaller bombing range to the south yielded "75 loads of scrap metal and M50 bombs" in a 1949 clean-up.

Command Historian Mary Cagle said, however, that she could not substantiate that the area was ever an aerial bombing range, either through her documents or through a discussion with an individual who lived and worked nearby during the war.

But based on available information, "we have to consider the whole area to be suspect," said Dave Bryant of Facilities Engineering's master planning group. He is coordinating highway construction with the state for the Army and arranged the safety briefing for builders.

"It's been surface-cleared so chances are there's nothing there," SFC Coy Rose told the builders, but told them to be cautious nonetheless. Rose is with the Explosive Ordnance Detachment here. SSgt. Kevin Valentia assisted Rose in the presentation to the builders.

Rose said an explosives disposal team from Fort McClellan made a "walk-through" of the area recently. "No surface ordnance was located," he said.

He pointed out, though, that a munition dropped

from the air could have buried itself on impact and remained hidden over the years.

He said there is "no particular hazard" to most ordnance the builders might encounter but warned them to get away, warn others and call military police if they found anything. He furnished them a set of identification pictures to post at the construction site to help workers know what to watch for.

Unexploded ordnance has been unearthed on several occasions during excavations at Redstone Arsenal.

Traffic problem

In earlier I-565 developments, state highway officials said interstate construction will snarl traffic at Gate 9 for at least three years, adding to Huntsville's already-considerable traffic problems.

As construction moves east to Jordan Lane, it likely will interfere with traffic using Gate 10 and Gate 8.

With congested roads making travel around Huntsville increasingly more difficult, a state legislator has proposed building a new road along the arsenal's east boundary that would connect with I-565. Rep. Mo Brooks believes the road is needed to open a corridor from points south to burgeoning residential and commercial areas to the northwest which are not easily accessible because of the interposition of Army lands.

Last week, area realtors voiced concerns that property values in Huntsville may drop as people take up residences outside the city rather than fight cross-town traffic to get to employment centers developing in the northwest section.

Redstone's policy on drinking flows toward change

BY SKIP VAUGHN

Like other Army installations, Redstone will discourage service members from drinking alcoholic beverages while on duty.

It will be up to the service members themselves to enforce that policy, however. They and their commanders are the ones who will know when they are on duty. The written policy against on-duty drinking goes into effect Aug. 20.

In a related development, Redstone has requested that service members be excluded from the Alabama

drinking-age rule while on post. The reason is that Tennessee, about a 30-minute drive away, allows a service member with a valid military ID to buy alcoholic beverages. Redstone officials feel that a similar rule should apply here to discourage cross-state drinking and driving. The request was sent to Army Materiel Command for review.

"The new policy is that alcoholic beverages will not be served by the drink on Army installations to service members on duty," said Jack Cornelison, chief of Morale and Welfare Division. This does not restrict package store sales or Post Exchange Shoppette sales of canned beer intended for off duty consumption. "It applies to places like the golf course, bowling alley, the clubs, and the PX snack bar," Cornelison said.

The service member's commander determines whether or not the service member is on duty. The greater responsibility is on the individual, and not the system, to comply with the policy against drinking during that time. "In other words, it's the obligation of the individual to be honest and if he's on duty, he can't drink. It's the bottom line," Cornelison said.

This takes self-discipline, he added. The Army will still have a deterrent in the form of an on-duty impairment standard of .05 blood alcohol level. Violation of the standard could result in administrative actions.

"It should be fully explained to the soldier that the use of alcohol will cause a duty impairment and that it's the self-discipline that they need in order to make this policy work," Cornelison said, "because if they violate the policy, they're on their own and will be subject to whatever disciplinary action is imposed.

"They're called on to be physically fit and mentally alert which requires them to abstain from use (of alcoholic beverages) during their duty hours," he said.

Besides package store sales, the policy also does not affect the sale of alcohol to off-duty service members, or to other authorized patrons such as civilians, family members, retirees and guests attending private functions. Redstone officials plan to ensure that the policy is made known and plan to provide in-house training for people who serve alcohol on post.

The drinking age in Alabama is 21 but the state law

provides that persons age 19 or older by Oct. 1, 1985 can continue to buy and consume alcoholic beverages. Army installations on June 1 began complying with age limits in the states they are located in.

Redstone has requested an "exception to policy to allow facilities on Redstone Arsenal to sell in a controlled environment to all active duty military personnel alcoholic beverages upon presentation of a valid ID card, irregardless of age," Cornelison said. The Army grants exceptions to the state drinking age rule when an installation is within 50 miles or one hour driving time of a neighboring state or border with a lower drinking age.

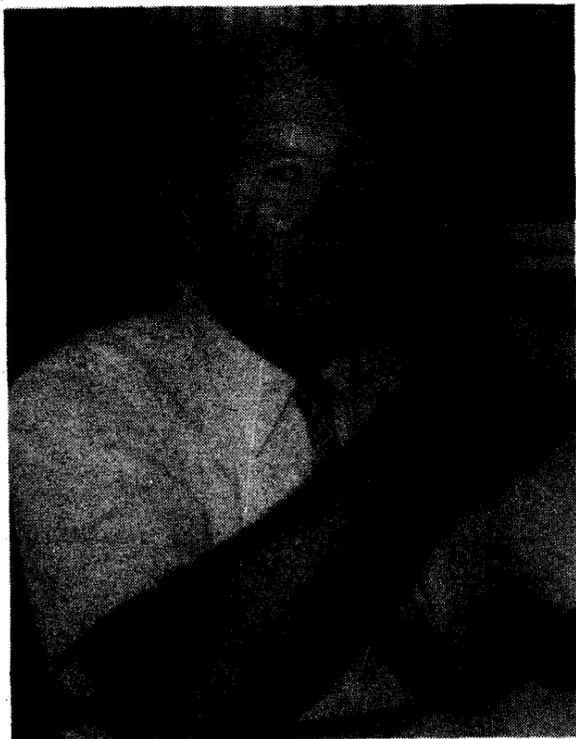
"Tennessee's age policy is 21 years with a military exception upon presentation of a valid military ID card, irregardless of age," Cornelison said. Redstone has asked to be excluded from Alabama state drinking age rules because of its proximity to Tennessee. The request has been forwarded to the Army Materiel Command and is to go from there to the Department of Army. Two installations within AMC have already been approved for exceptions to the drinking age rule—White Sands Missile Range because of proximity to the Mexican border, and Tobyhanna Army Depot because of proximity to New York state.

Brown still hospitalized

A MICOM electronics technician remained hospitalized this week after being struck by a car in a parking lot on post July 1.

Donyeso "Donnie" Brown, 21, of Huntsville was listed Monday in serious but stable condition at Huntsville Hospital. He suffered head injuries when struck by a car driven by his bride of six days. Witnesses to the incident in the south parking lot of McMorro Lab where Brown works told investigators that Marguerite Tate Brown, 21, also of Huntsville, deliberately ran him down.

No charges have been filed. The case is expected to be presented to a federal grand jury that meets the first week of August, according to the staff judge advocate office.

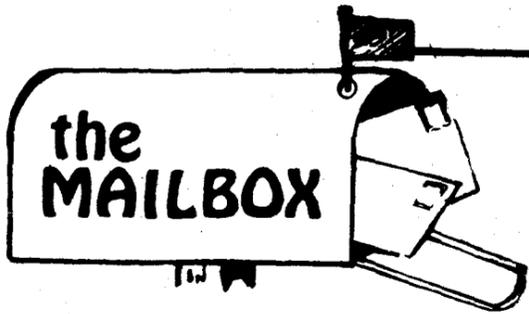


MORALE CHIEF — Jack Cornelison is in charge of the Morale and Welfare Division.

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Saving energy

Editor:

I passed a large poster, in a frame, in the hall of the MLC. It says, "What are you doing to slow the meter. Use energy wisely", and displays a picture of an electric meter.

I would like to congratulate the MLC Energy Conservation Person for getting the poster displayed. If the MLC Energy Conservation Person would just follow through with the remaining part of the job commitment the MLC could conserve.

Most arsenals/posts have a conservation policy of every other light in overhead fixtures will be removed or turned off. Take a walk in the MLC and see if this is being followed.

The air conditioning runs constantly in the MLC. I wonder if this might be caused by the people who try to air condition the outdoors by propping doors open and keeping windows open.

I have tried to bring this to the attention of the responsible person with no success. Maybe someone will take care of it now.

Name withheld by request

Revenge

Editor:

You may want to interview some of the ladies in 4488. RASA has almost all of their toilets apart. Some say (in jest) that it is RASA's revenge for contracting their jobs out.

Name withheld by request

Likes tin village

Editor:

I recently had an opportunity to spend a few days in a remodeled office in Tin Village. Compared to the crowdedness of building 5250, the lack of windows, and not being on ground level, I found it to be much better. It was nice to see the green grass, trees, birds, etc., and also have space and a private office which helps a person to work better. Perhaps the architects could make a life cycle cost (LCC) study to see if it really saves money to have multi-story buildings like the new multi-story building discussed in a previous *Rocket*.

If the cost is about a break-even amount, perhaps a questionnaire for employees' preference would be advisable. Maybe another tin village would be best, but modernized to be earth covered (except for windows) to save energy. Nice evergreen plants could cover the top. Recent studies indicate that the LCC of earth

covered structures are favorable (little external maintenance is required). I hope we don't get a "conventional monster building." I would appreciate an answer.

Name withheld by request

On terrorism

Editor:

Each day of the past 57 years that the good Lord has allowed me to walk this earth, I have done so with that inner satisfaction of being born an American. Nothing has disturbed me more over these long years as the recent rash of hijackings and the taking of hostages.

One hundred and eighty years ago in a place on the Mediterranean called Tripoli, a band of bloodthirsty terrorists (then called pirates) decided that a young and struggling nation called America was fair game. They hijacked her sailing ships on the high seas, confiscating the cargo and selling the crew and passengers into slavery. It did not take President Jefferson long to decide what action to take; sending in a detachment of Marines that attacked the pirate stronghold from the desert and the Navy from the sea. The pirates were taken completely by surprise and the Marines exacted a heavy toll in retribution. Although many victims of these hijackings were never rescued or recovered the price the "Bastards of Tripoli" paid was so high they were never a menace again.

Today it is the "Bastards of Beirut" that are demanding tribute. Instead of hijacking great ships on the sea they hijack great ships in the sky and threaten, harass, and kill just for the pleasure of it. We cannot sneak in the Marines as we did in 1805 for the hostages would surely be killed, if not already, but there are other actions we can do, must do if we are going to survive the future.

We deal with our international friends with courtesy and respect but we must also be prepared to deal with our adversaries in the same calculating and cold-blooded manner they display toward us. We have to stop "turning-the-other cheek" for we are about to run out of cheeks. There is more than national pride at stake for they have slapped our face handily and are now ready to start on the other end.

When in the judgment of our leaders and military advisors the time is ripe, retribution should be so swift and so costly to the "Bastards of Beirut" that they will think twice before performing another hijacking. We may not know where this terrorist group is located but we sure know where those that offer sanctuary are!

Bob Masson
Huntsville

Letters to the editor should be signed (name withheld on request) and sent to: The Redstone Rocket, DRSMI-G. Unsigned letters will not be used.

Some workers hit the road every day

Huntsville isn't the only place to live if you work at Redstone Arsenal.

The Finance and Accounting office here mails checks to 28 counties in Alabama and to 18 counties in Tennessee, in an approximately 150 mile radius from Huntsville.

Although more than half of the 10,600 checks go to Madison County, the towns of Athens, Arab, Decatur and Fayetteville, Tenn., have some of the highest populations of Redstone commuters.

Some people like their towns, and have been making the drive for years, but others may have family situations which make it impossible, on a temporary basis, to live closer to work.

Madison County is definitely favored, with a total of 7,928 workers; 828 people commute from Marshall County. Morgan County is another favorite, with 665, and 484 people travel from Limestone County every day. Lincoln County, Tenn. ranks fifth, with 278 commuters.

Rounding out the top 10: 119 workers come from Jackson County, 55 live in Cullman County; Giles County, Tenn. boasts 42 and 35 people drive from Lauderdale County. Number 10 is Franklin County, Tenn. with 25 workers.

Five fined for DUI

Five people were fined in Magistrates Court on post for driving under the influence.

The Staff Judge Advocate Office released the following list of DUI cases heard June 11:

— Glenn R. Bowers, a military retiree, was fined \$500 with \$250 suspended, probation for 90 days, and DUI school.

— Mark E. Craven, of 3100 7th Ave., was fined \$500 with \$250 suspended, probation for two years, and DUI school.

— George W. [Name obscured], of 2904 Hood Road, was fined \$500 with \$250 suspended, probation for 90 days, and DUI school.

— Pvt. Maribeth Finney of A Company, was fined \$500 with \$250 suspended, probation for 90 days, and DUI school.

— Louis P. Rookis Jr., of 601 South 72nd St., Birmingham, was fined \$500 with \$250 suspended, probation for two years, and DUI school.

Each person was additionally assessed a \$25 fee. Anyone found guilty or who pleads guilty in Magistrates Court is assessed \$25 per charge to the victims restitution fund in addition to any other fine.

THE REDSTONE ROCKET

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Changes planned to improve M1 Abrams tank

BY BOB LESSELS

ABERDEEN PROVING GROUND, Md. — The Army feels its M1 Abrams main battle tank is the best in the world— and the engineers at the Army's Combat Systems Test Activity (CSTA) here are working to make it even better.

According to Ted Wheeler, acting chief of CSTA's Tracked Vehicle Branch, and Michael P. Dillen, senior test director for the M1 tank improvement program, a variety of changes are being incorporated into the combat vehicle's design.

"One of our major concerns," Wheeler said, "in-

volves improving the life span of the tank's tracks for a reduction in field operating and support costs. The old T156 tracks were good for about 600 to 1100 miles, depending on terrain and weather conditions, before the rubber pads wore out. A prototype design (XT158H) track was tested and determined to offer potential for reducing life cycle cost. This track is currently being subjected to additional improvements for both the track pin and bushing area prior to the future qualification test. Projected future improvements to the XT158H tracks include more resilient, two-bolt center guide horns and new split-end connectors for the tracks."

Wheeler said the new track design is slated to compete against a West German design, the Diehl D57ON, which is similar to the tracks used on the West German Leopard main battle tank. Seven improved M1 tanks were scheduled to begin comparison testing in June.

The improved M1 features a lower final drive ratio. The earlier M1s had a 4.30 to 1 final drive ratio while the improved M1 has a ratio of 4.67 to 1. The improved M1 retains the same rapid acceleration from 1-20 mph. However, its top speed has been reduced to 41.5 mph from 45 mph.

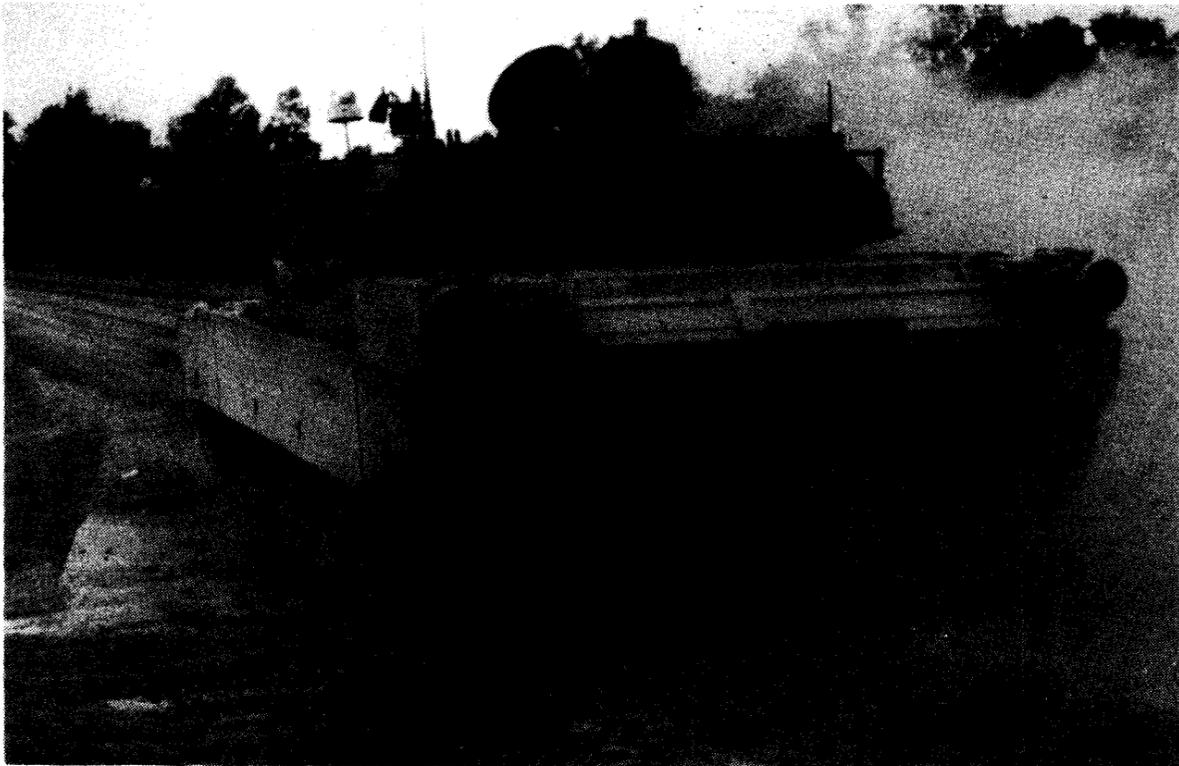
Dillen said, "We've also made the transmission stronger with improvements to the transmission clutch design. The suspension also has been redesigned to accommodate the modifications which have increased the tank's weight.

"We've reindexed the torsion bars to maintain the same ground clearance as on the earlier M1s, increased the damping rate of the shock absorbers, and we've strengthened the compensating idler arm," he said.

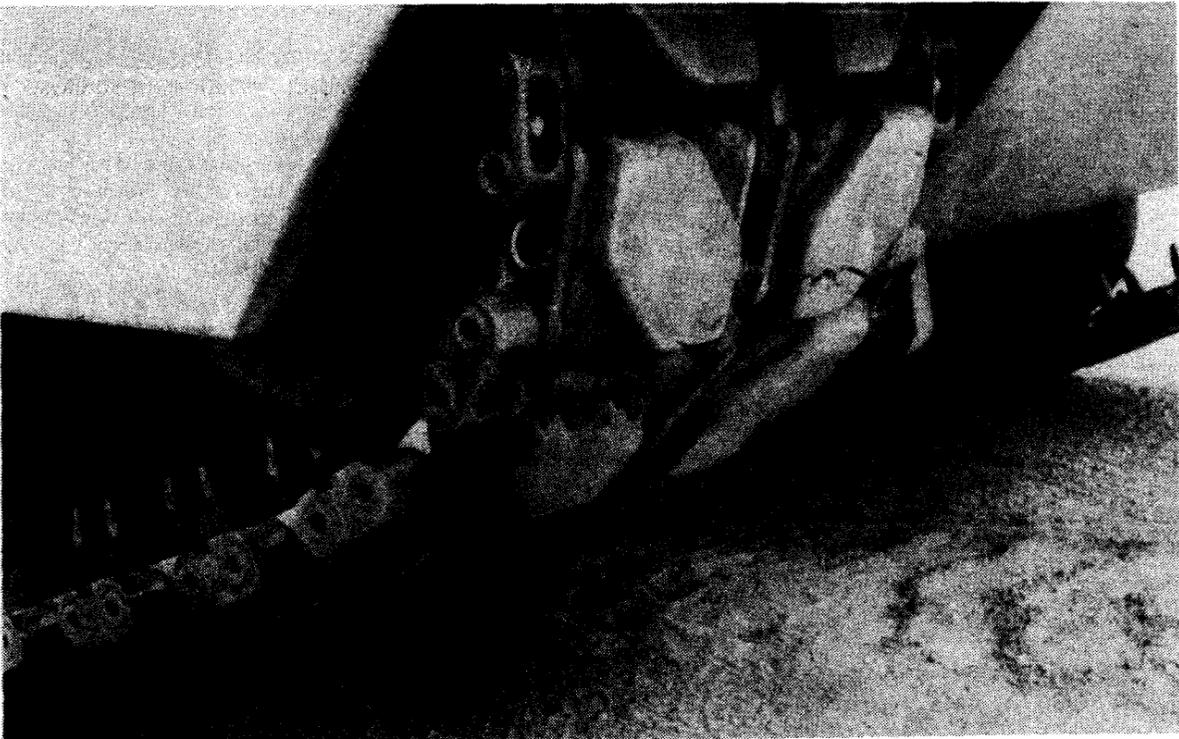
Stowage on the tank also has been improved through addition of a rear stowage bustle on the back of the turret. The stowage bustle is detachable to facilitate easy repair and transportation of the tank, Wheeler said.

"We feel the changes we're testing on the M1 will greatly enhance its survivability, durability and reliability," Wheeler said. "The tank will be easier to maintain and will require less time for maintenance, thereby increasing the number of M1s available at any one time to unit commanders. With fewer tanks undergoing repair, more are available for combat operations."

All of the M1s now in production at the Army's tank plants at Lima, Ohio, and Warren, Mich., embody the full range of improvements tested by CSTA, and future improvements should further enhance the Army's newest main battle tank. (Bob Lessels is with the public affairs office for the Army Test and Evaluation Command, Aberdeen Proving Ground, Md.)



MAKING THE BEST BETTER — An improved M1 Abrams main battle tank is shown during tests on the Munson Test Course. The rear of the turret shows the new mounting brackets for a newly designed stowage rack which will be incorporated into the vehicles' improvements.



TRACK WEAR — Tests are to begin soon at APG, Md., to find a more durable track pad for the M1 Abrams main battle tank. The older T156 track, shown here following hundreds of miles of operation on the Munson Test Course, may be replaced by either of two more durable contenders.

Youth soccer program adds girls team

An all-girls soccer team will be a new feature of Redstone's youth soccer program.

This is for girls in the under-12, under-14 or under-16 age groups.

Those interested can sign up at the Youth Activities building, July 15 through Aug. 10 from 8 a.m. to 8 p.m. "Our major registration will be held at the Bicentennial Chapel on the 10th of August from 10 a.m. till 4 p.m.," said Mona Lafferty, public relations person for the youth soccer program.

"So don't be left out. Sign up early and come out and join in our fun," she added. For more information call 876-KIDS.



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Creative commissary service gives patrons satisfaction

BY PAM ROGERS

Going to the commissary may have been a little bit like going to a farmers market for customers who took advantage of last week's sidewalk sale.

That's what Carolyn Medly, produce manager thinks. People really seemed to enjoy the sale, which featured watermelons, cantaloupes, grapes, peaches, nectarines and honeydew melons.

"It's been a lot of fun— we've been working 12-hour days. It's been hard work, but fun," she said. The sale was quite a success. Over 2500 watermelons were sold in four days.

The sale is one way the commissary is striving to serve its customers. More sidewalk sales are planned, and other conveniences are already available, including a flower shop, and a phone-in meat and deli service.

"Not many people know about the phone in service yet, but those who do use it regularly," said Jim Wolfe, deputy commissary officer. Customers who have a need for a particular cut or quantity of meat, or who need party trays can order them by phone. The number for the service is 876-6619.

The deli at the commissary has won an award for outstanding customer service from its parent company



OUTDOOR MARKET — Carolyn Medly, produce manager, arranges stock for sidewalk sale.

for the second year in a row. Elizabeth Barnes, deli manager, says she believes they received the prize because the deli stocks what the customers ask for.

"We have special promotions, and make special efforts for our patrons— and we have a friendly staff," she said. The imported cheeses they sell cost much less than those sold downtown, said Barnes.

The next sidewalk sale will feature frozen food and "Cherry Coke," a new soft drink from the Coca Cola company, reminiscent of the popular fountain drink of the 1950s. The Redstone commissary will be the first store in the Huntsville area to sell the new drink, Wolfe said. There will probably be another "farmer's market" this fall, he said.



GOOD EATING — Capt. Shannon Johnson and son Curtis, 4, test a watermelon during a sidewalk sale at the commissary.

Identification card must be current

One aspect of commissary shopping, the identification card check, is unpleasant for some people, but necessary for continued benefits.

"Even soldiers in uniform must show their cards, and there's some reluctance there," said Bill Penney, Redstone's commissary officer.

The cards, which also must be shown when a customer writes a check, are for the protection of everyone who is authorized to use the commissary.

Employees of the commissary are instructed to keep cards that appear to have been altered, or are out of date, so it helps to keep your identification card current and in good condition.

Low commissary prices are attractive to people who are not authorized to use the facility, but you should never loan your card to anyone else. It could lead to revocation of your benefits, and could endanger others' future benefits.

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Civilian recreation area offers variety of features

BY SKIP VAUGHN

This is the busy time of year for the civilian recreation area on post by the Tennessee River.

There are softball games, picnics (including the big MICOM Family Picnic this past weekend), and other get-togethers for civilian workers, their family members and guests.

"I think this area out here is the nicest area on the Tennessee River and, in the future, we are planning to expand and improve," says Robert Sawada, director of the civilian recreation area.

Its features include six pavilions, each with about six to 10 picnic tables; two boat launch facilities; two ballfields which, like the pavilions, are on a reservation basis; and 25-30 picnic tables along the riverbank which do not require reservations. Equipment available for check-out from Sawada at the office includes volleyball, softball, soccer and horseshoe items.

The Rustic Lodge, overlooking the area, can be reserved for 50 cents per person.

Other features at the civilian rec area include two barbecue pits which are about three and a half by six feet; and two outside bathrooms. A portable smoker grill is for use at the lodge and the recreation area.

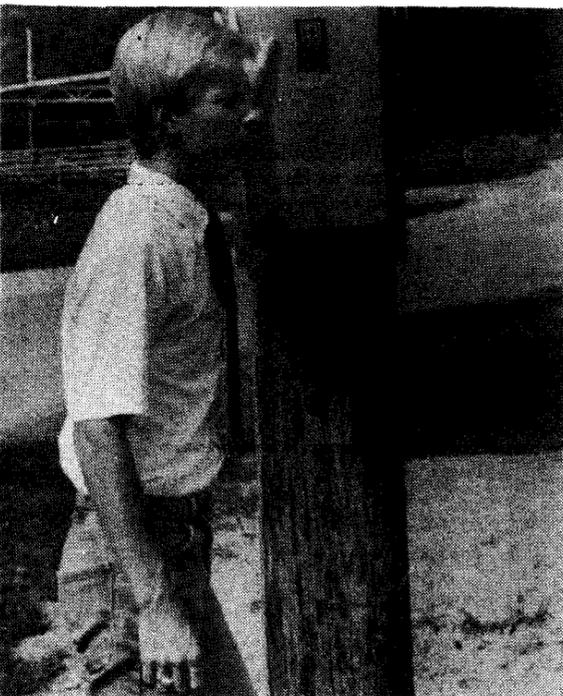
"We have three fish fryers (for check-out)," Sawada says. "The fish fryers are \$5 a piece for one day and that includes the burner, the cooking pot, and butane gas."

There is no charge for checking out the four sets of volleyballs and nets, the soccer ball, three footballs, four sets of horseshoes, and four sets of softball bats and balls.

Vending machines are located on the west side of the office building. "We have a Pepsi machine and a cold beer machine, canned beer," Sawada says. "The beer machine's primarily for picnickers using the area and then I check IDs to make sure they're of age and they're also a government employee."



FOR CHECK-OUT — Equipment available for check-out at the recreation area includes fish fryers, volleyballs and nets, footballs, and a soccer ball.



REC AREA — Robert Sawada, director, looks over the civilian recreation area.

Civil service employees, their family members and guests can use the recreation area. By regulation, as of Dec. 1, 1984, contractors have to be guests of government workers, according to Sawada. Before then they could use the area and reserve the lodge just like civil service employees. When someone brings more than four guests, there is a 50 cent per person charge, Sawada says.

The rec area office is open Tuesday through Sunday, and closed on Monday. Sawada usually works eight hours a day but says he will stay longer "if I have picnic functions, people that have the pavilions reserved, or I have a large crowd of people out here." (The beer machine is locked when the office is closed.) The rec area is open from 5 a.m. to 8 p.m. seven days a week before closing during the winter.

"Basically my job involves taking reservations for the recreation area and the Rustic Lodge; making repairs or calling in repairs; checking out equipment to people using the recreation area; checking out keys for the Rustic Lodge and collecting all dues (charged to users)," Sawada says. "I also take reservations for the ballfields and help organize picnics with individuals for the recreation area and the lodge; also foreseeing

equipment is kept in proper working order, and that beverage machines are filled regularly."

The single 22-year-old was born in West Germany and raised in Huntsville. His father, Robert Sawada, retired from the Army as a master sergeant in 1971 and now works with the Propulsion Directorate here. "See that's where we get confused," the son says with a laugh. "I'm actually Robert George Sawada." His mother Dorthea works part-time at a jewelry store. His sister Maria, 26, is a fashion merchandising agent in Clarkston, Ga., a suburb of Atlanta.

Sawada has worked for the Civilian Welfare Fund Council the past three years. "The Civilian Welfare Fund has donated a lot of time and a lot of money for improvements and for recreation for civil service employees," he says, "and I feel that the civil service employees on Redstone Arsenal are really fortunate to have the fine facility for outdoor activities — for picnics, sports and boating and relaxing, fishing." All that's required to fish from the rec area on the river is an Alabama state fishing license.

For recreation reservations, call 876-6862. Sawada's office has a recorder for taping messages and he tries to return calls the same day.



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Announcements

Water safety course

A free water safety course will be offered here June 15-17. Taught by the Red Cross, the course stresses "non-swimming rescues" so that people are taught to deal with water emergencies even if they cannot swim. The four-hour course will be offered on June 15 at the NCO Club pool from 11 a.m. to 3 p.m., on June 16 at the Goss Road pool from 11 a.m. to 3 p.m. and on June 17 at the Vincent Drive pool from 4-8 p.m. The course is being offered as part of a Red Cross "Waterproof Madison County" campaign. The Red Cross wants to administer it to 1,000 people during the campaign. The Redstone Officers Wives Club and Huntsville Board of Realtors are underwriting the course. For information call 536-0084.

Learning center

A 25-hour videotape course entitled "Effective Writing for Executives" is offered at the Learning Resource Center. This course is designed to teach business and government professionals how to improve their written communication skills. These topics are covered: writing for results, purpose and audience, effective organization, review and rewrite, effective language and effective editing. For more information call 876-1061/1416 or send a DD form 1556 to building 7446, AMSMI-JT/LRC, Attn: Learning Resource Center.

Toastmasters

Mason-Dixon Toastmasters meets each Monday, 6:30 p.m. at Shoneys West, Governors Drive. The public is invited. For more information call 533-3272.

Bake sale

The youth soccer program here will have a donation bake sale at the Post Exchange from 9 a.m. to 4 p.m. Saturday, July 13.

Flea market

Spaces are now on sale for the Army Community Service flea market scheduled Aug. 3. Cost is \$5 per space. This is on a first-come, first-serve basis. For more information call 876-2859.

Blood drive winners

Here are the winners of the April blood drive: 1-50 category, Systems Integration Office, coordinator Betty Hunt; 51-100 category, Guidance & Control Directorate, coordinator Peggy Campbell; 101-200, Supply Division (RASA), Teresa Sharp; 201-400, Finance & Accounting Division, Brenda Ellison; and 401-over, Missile Logistics Center, Cindy McDougal. Total collection for April was 805, the previous month collection was 820. Collection at Redstone for April was 512 while collection at the Red Cross Chapter House from MICOM, OMMCS, NASA and BMDSOM was 293.

Quarters security

Redstone residents should notify their area coordinator when they plan to be away for an extended period of time, whether on leave or TDY. Military police will check the quarters periodically while residents are away. During such absences, services such as mail, and other deliveries, should be stopped.

Blood program schedule

The July blood program schedule is as follows: July 9 from 9 a.m. to 3 p.m., building 4665 (McDonnell Douglas); July 12 from 7:30 a.m. to 12:30 p.m., building 4488; July 17 from 9 a.m. to noon, building 3711 (Recreation Center); July 18 from 7:30 a.m. to noon, Thiokol (Bus); July 19 from 7 a.m. to 1 p.m., 5681 (Bus); July 20 from 8 a.m. to noon, 3480 south (6th Student Company); July 26 from 7:30 a.m. to 12:30 p.m., 4505 (Bus); and July 27 from 7 a.m. to noon, 3480 south (8th Student Company). For more information call Naomi Whitaker, arsenal blood program coordinator, 876-3124/2759.

Korean Mass

A Mass in Korean, followed by a potluck supper is planned for July 13, 6:30 p.m., at the Post Chapel.

Economy couples

The Economy couples club, for all E-1s through E-4s who are married and live off post will meet July 14 at 4 p.m., at the Post Chapel. Spouses and children are invited.

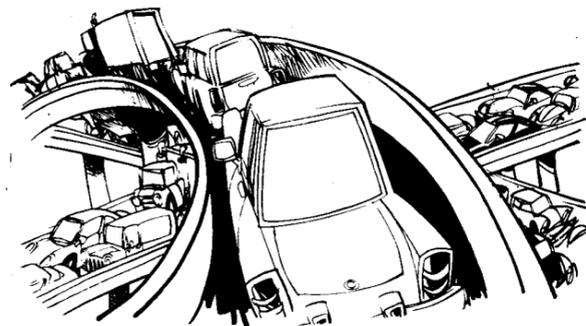
Commodore users

The Commodore Users Group (HACKS) will meet at 7 p.m. July 18 in the Whitesburg Baptist Church Fellowship Hall. Everyone is welcome. For more information call Rusty Foster 852-9624.

Exchange birthday

The Army and Air Force Exchange Service is 90 years old this July. To celebrate, the Redstone Arsenal Exchange will have an anniversary sale from July 10-16. Besides free refreshments the exchange will give away balloons. Customers can expect bargains in clothing, jewelry, watches, luggage, records and tapes, sporting goods and tires. The exchange snackbar will observe the event with an anniversary lunch highlighting the "aafesburger." Exchange concessions will also offer 15 percent discount coupons at beauty, optical, flower and laundry/dry cleaning shops.

Carpool Hotline



Call 876-1500 to place your free carpool ad.

Athens

Carpool members wanted from Athens to 4488 or vicinity, hours 7-3:30. Claire Bumgardner 876-7343.

Decatur

Carpool members wanted from Decatur to school area near Martin Rd. or Patton Rd., hours flexible. Dottie Lee 876-1621.

Recreation Center

Tonight— Ping Pong tourney at 7:00. Thursday— Bingo at 7 p.m. Friday— Ripley's Believe it or Not! at 7 p.m. Saturday— Risk Contest at 2:30 p.m. Ice cream sundaes at 3 p.m. Sunday— Live Cherokee Indian Show at 2 p.m. Monday— Trivia Quiz and refreshments at 7 p.m. Tuesday— Pool tourney at 7 p.m. computer club at 7 p.m.

ACS birthday

The 20th birthday of Army Community Service will be celebrated on July 24. A ceremony is set for 1:00 that afternoon in building 3491. The scheduled speaker is Col. Bob O'Donnell, the Missile Command's chief of staff. After the ceremony, cake and punch will be served. ACS will also have an open house until 3 p.m. All interested persons are invited to attend.

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1971 Mercedes 4 dr	18630A
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Wall gets third star, new command

Lt. Gen. John F. Wall received the third star for his new rank of lieutenant general July 1. He was promoted by Army Chief of Staff Gen. John A. Wickham Jr. in a ceremony at the Pentagon.

Formerly director of civil works for the Corps of Engineers, Wall also assumed the new position of commander, U.S. Army Strategic Defense Command. The command consists of the same elements which were previously designated as the Army's Ballistic Missile Defense Organization.

Those elements are the headquarters in Arlington, Va., the Advanced Technology Center and the Systems Command in Huntsville, Ala. (where the majority of the more than 900 personnel are located), and the Kwajalein Missile Range in the Marshall Islands of the Pacific.

The Army program which Wall now directs is a key part of the U.S. Strategic Defense Initiative which was launched by President Reagan in March 1983 to develop sound technical options for future decisions as to whether the United States should proceed with development of an effective defense against strategic nuclear missiles.

In recent previous assignments, Wall served as commander and division engineer of the Corps' South Atlantic Division in Atlanta; and as commander of the Near East Project Office in Tel Aviv with responsibility for constructing two Israeli Air Bases to help meet the U.S. commitment under the Camp David Accord; and as research associate with the "Plowshare Pro-



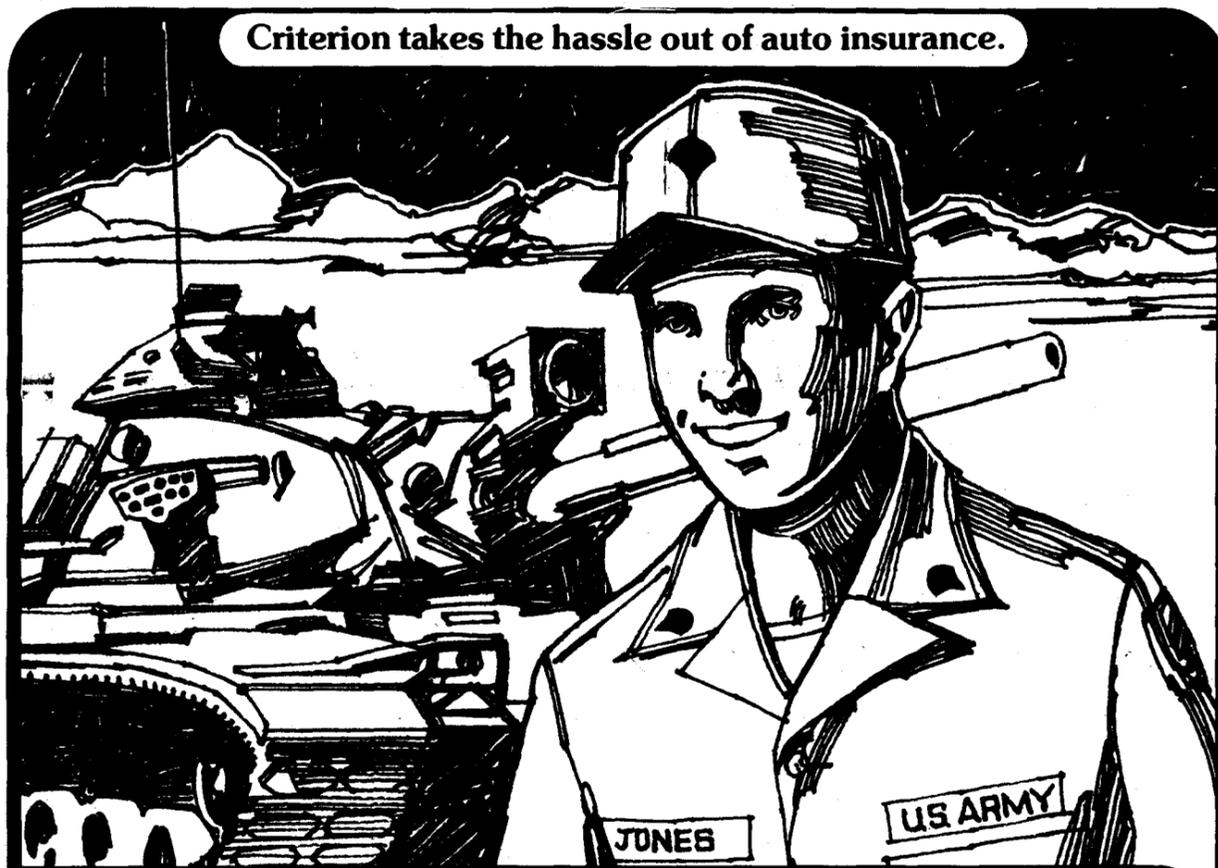
WALL

gram" at Lawrence Radiation Laboratory, Livermore, Calif.

A 1956 graduate of the U.S. Military Academy at West Point, Wall received a master of science degree in civil engineering from Princeton University and a Ph.D. in civil and environmental engineering from Cornell University. He has also received a law degree from the National Law Center at The George Washington University, and is a graduate of the Army Command and General Staff College and the Army War College.

He is an Army aviator and qualified parachutist. A native of Boise, Idaho, Wall and his wife, Suzanne, have three sons.

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B Company shooters win

A team from B Company won a trap and skeet shooting competition held at Outdoor Recreation.

The B Company shooters scored 726 out of a possible 2500 (the four top individual scores were added for each company and the fifth member's score was dropped). Members of the winning team were James Morrow, John Brown, Jack Rawlins, John Murphy and Randy Laster.

MEDDAC took second place with a score of 646 while 6th Student Company placed third with 598. Members of MEDDAC's team included Arthur Bailey, Walter Graves, Mark Perry, Wade Mills and Anthony Tassinari. Individual honors went to Bailey, who shot 107 out of 125 in skeet, and Graves, who shot 91 out of 125 in trap.

Trophies were presented to team and individual winners of the competition for Redstone military units. For information on joining the trap and skeet league call Shelby Williams 876-4868 at Outdoor Recreation (building 5127).

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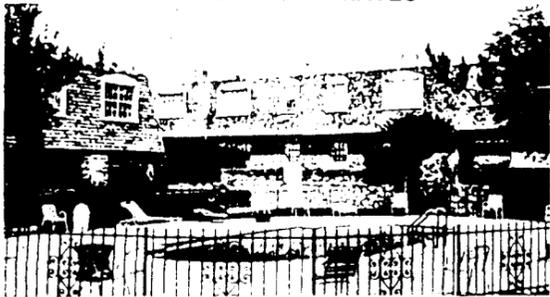
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This month in history

- 44 years ago:** The Office of the Quartermaster General issued the original construction authorization for the Huntsville Arsenal (July 1941).
- 42 years ago:** Redstone Arsenal won its second Army-Navy "E" Production Award for high achievements in the manufacture of war material (July 17, 1943).
- 36 years ago:** The Huntsville Arsenal ceased to exist as a separate Chemical Corps installation (July 1, 1949). Acting in a caretaker capacity, Redstone Arsenal, with 450 former Chemical Corps personnel, proceeded with the disposal of surplus and salvage property and the transfer of installed property to the District Engineer for disposal action. (Nine months later, the "For Sale" sign was removed and the Huntsville Arsenal installation was consolidated with Redstone Arsenal.)
- 34 years ago:** Following the entry of the United States into the Korean War in August 1950, the four ammunition production lines not occupied by Thiokol and Rohm & Haas were reactivated from standby status and resumed production (July 1951).
- 29 years ago:** The Ammunition Division—Redstone Arsenal's oldest mission agency—was abolished (July 1, 1956). Between July 1951 and July 1956, the division's four production lines produced 38,740,968 complete round of chemical artillery ammunition. The arsenal's ammunition loading mission was transferred to the Lone Star Ordnance Plant.
- 27 years ago:** A Jupiter C missile placed Explorer IV in orbit (July 26, 1958).
- 26 years ago:** The first Lacrosse battalion was activated at Fort Sill, Okla. (July 1, 1959).
- 25 years ago:** Formal ceremonies held at Building 4488 marked the official transfer of ABMA's space-related missions to NASA and the opening NASA's George C. Marshall Space Flight Center at Redstone Arsenal (July 1, 1960).
- 16 years ago:** The last Hawk unit was withdrawn from Vietnam (July 1969).
- 12 years ago:** The installation railway system was discontinued and approved for disposal (July 1973).
- 8 years ago:** The Sergeant weapon system was declared obsolete (July 18, 1977).
- 6 years ago:** The Missile Materiel Readiness Command and Missile Research and Development Command were abolished and their missions and personnel were merged into the reactivated Missile Command (July 1, 1979).

Compiled by Mary T. Cagle, Command Historian

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Allied detachment students grow international garden

BY CINDY WATSON

Members of the OMMCS Allied Student Training Detachment have created an "international garden" that has added a touch of home and bright color to their surroundings.

"At my home it is a tradition to have a garden around your building," said SSgt. Obwuono Owino of Kenya. In Kenya, he said, flowers indicate you are "clean-hearted" and indicate to others that they are welcome in your home. "To me it is a traditional natural welcome to have flowers in front of a building," he said.

Another Kenyan, SSgt. Gideon Githecha, pointed out that gardening is a way of life in his country. "It means everything to have a garden for food to survive. It is also a way to display yourself to other people.

"I have a home here, it is a sign of living properly the same as at home," he said, adding, "Flowers are our friends and companions."

The allied students planted their garden as a spring clean-up project, as did several of the other military units on post.

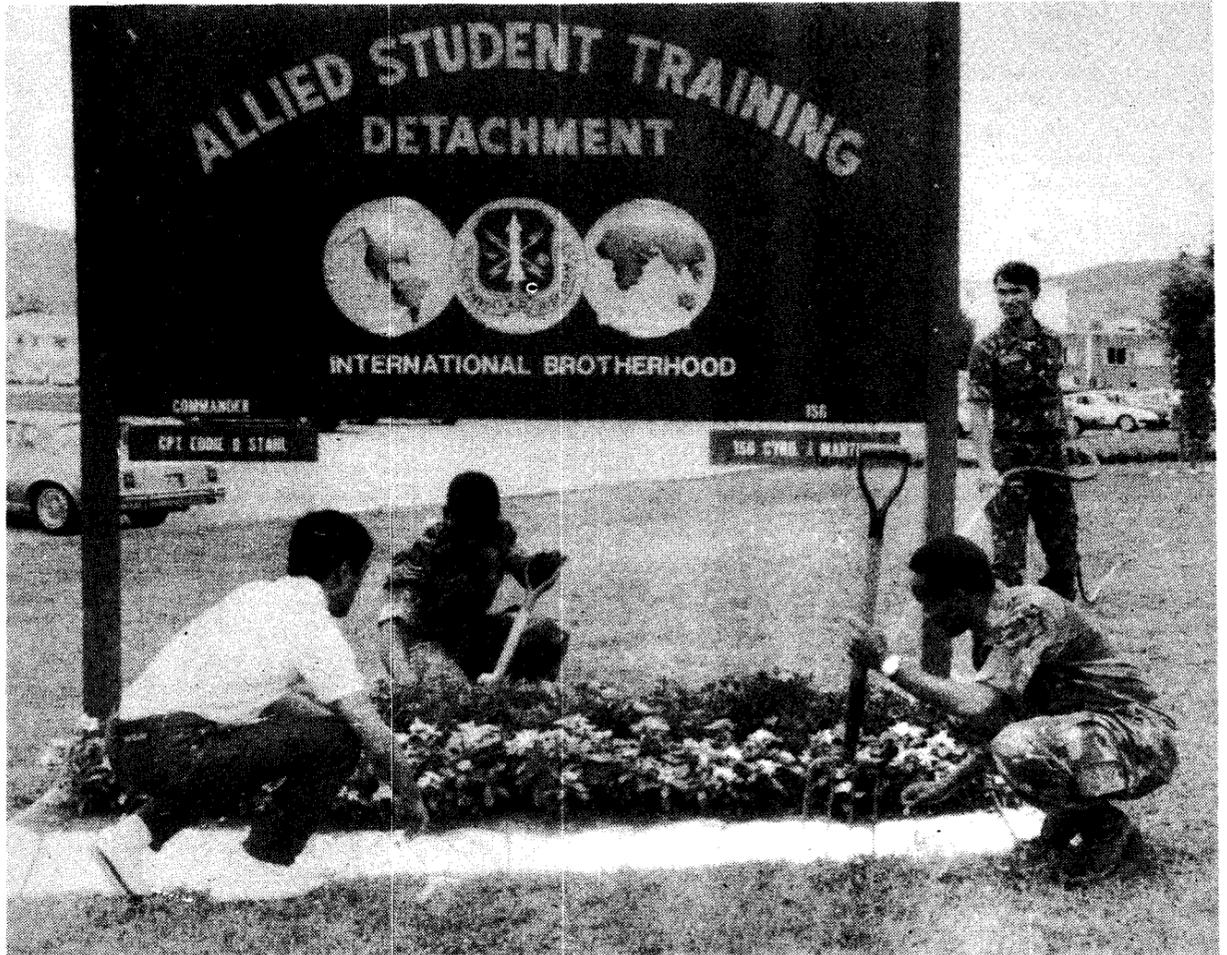
The students' garden contains chrysanthemums, elephant ears, coleuses, corn, sunflowers and others.

To MSgt. Ahmad Magboul of Jordan, the allied students' international garden is "a mirror reflecting to everybody that when the world joins together it can do a lot of good things."

From combining "different ideas on gardening from different parts of the world, the flowers have grown faster than normal," says 2nd Lt. Packdee Tong-On of Thailand, who spends his free time working the garden.

"For me, growing is easy," he said. "I take care of plants daily. I water and weed the garden, I see if it needs fertilizer and if the soil is too hard I work it."

Tong-On, 37, has been growing things all his life. "I am from a poor farming family," he said. In Thailand, the family garden was a source of food and also provided income. "If the plants and vegetables sold I could get shoes and clothes to go to school in," he recalled.



AT GARDEN — Manicuring the flower garden are, from left, Ahmad Magboul, Obwuono Owino, Gideon Githecha, and (standing) Packdee Tong-on.

He enjoys working in a garden. "It's not hard work for me," he said. "People get exercise from running, I get exercise from gardening. I get exercise in my mind also.

"I believe we have a relationship with a flower the

same as we have with our children. I compare my daughter to a flower. Since I am away from my daughter the flowers I have grown here have become like my daughter. I watch them grow."

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BUS LOG 323	TRANS, HAND, STOR & PACK	3	TR	1600-1730	VB 221
BUS LOG 333	CONFIGURATION MANAGEMENT	3	MW	1730-1900	VB 221
BUS LOG 409	INTERNATIONAL LOGISTICS	3	TR	1900-2030	MFA 200
BUS LOG 415	LOG SUP ANAL MAT ACQ	3	MW	1600-1730	EHS 004
BUS LOG 427	QUALITY CONTROL	3	MW	1600-1730	EHS 007
BUS WG 430	INV MGT & PRO CONTR	3	MW	1900-2030	EHS 004
BUS PRO 311	INTRO TO PROCUREMENT	3	MW	1900-2030	EHS 002
BUS PRO 407	ADV PROCUREMENT	3	TR	1900-2030	CCN 226
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A fish story

Sergeant says 'Oscar' has personality

BY CINDY WATSON

It sounds a little fishy when someone claims his fish watches television and wags its tail at mealtime.

But don't tell that to SFC Willard Blanks, operations sergeant of the vehicle maintenance section of the Ordnance Missile and Munitions Center and School. The animal lover says his fish has a special extra sense.

"He has a personality. He watches television, knows when I am going to feed him, comes to the part of the tank I am sitting closest to and when you put a microphone next to the tank he will act like he is singing into it," Blanks says.

This is hard to believe unless one sees the Oscar fish, appropriately named "Oscar," in action.

"He reacts like a puppy when I feed him," Blanks says. "He wags his tail and swims the length of the tank splashing the water."

Noticing that his fish had this personality was more or less a shock to the sergeant, too. "About two years ago I came in for lunch, I sat down by the fish tank and asked Oscar if my wife had made a long-distance phone call. I told the fish to open his mouth once for yes and twice for no. He opened his mouth once so I asked my wife if she had made the call, she said yes," he recalls.

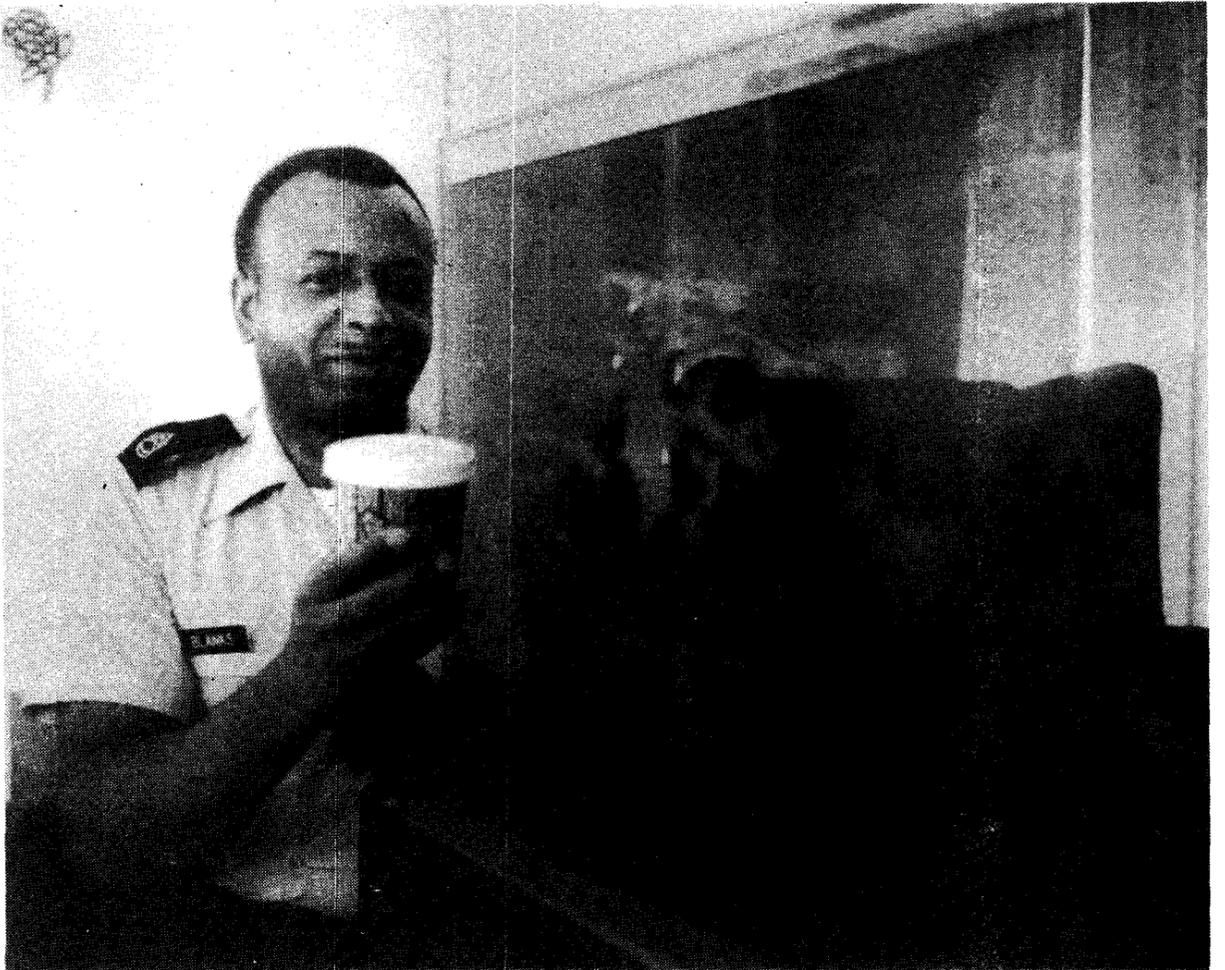
From that time on, Oscar became known as a fish with a personality.

"He watched the entire Super Bowl this last time when the Dolphins and 49ers played. He was for the Dolphins, but when they lost he swam to the back of the tank with his head away from the television," Blanks says.

The whole family has high regard for this fish. "He is some kind of fish," says Shirley, the sergeant's wife. "The way Clarence talks to it, and the response, I just can't believe it."

This attachment may have to be broken if Blanks does not get to take his fish to Germany in August.

"I plan to ship Oscar to Germany but if that is not possible, I will find someone to keep him," he says.



PET — Blanks says his fish likes television and "sings."

"It will have to be someone who cares about fish. I would personally interview the person."

"I feel if I leave him behind he would not survive. That fish is really attached to me."

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Building dedicated for organization day

The Test, Measurement, and Diagnostic Equipment Support Group here held its annual organization day ceremony last Wednesday, which included a ribbon cutting for their new metrology laboratory annex.

Guest speaker for the ceremony was Michael Sandusky, deputy executive director of TMDE in Alexandria, Va.

The new annex will provide almost 19,000 square feet of specially-designed space for environmental and reliability testing, as well as research involving far-infrared lasers, millimeter waves, electro-optics, radiometry, prototype development, and dynamic evaluation. The Systems Engineering and Requirements Division and the Systems Analysis Division of TMDE will also be housed in the building.

Col. James Edge, commander of the TMDE Support Group, Paul Hancock, facilities engineer, and Sandusky dedicated the new building.

Major Fecteau, leader of the electro-optics and laser measurements group at TMDE said his group's work will be profoundly affected by the new building.

"Before, we were spread out in two locations, with a third location for office space. We only had 2,000 square feet of laboratory space, and we were very cramped. Now we have 3,000 square feet, which is adequate. I expect a significant improvement in efficiency. We only have six people, and we were split between two buildings, so we spent a great deal of time moving equipment between buildings," said Fecteau.

He added that the consolidation of the activity into one space will provide the greatest single advantage, both in terms of productivity and morale.

Following the ceremony, a picnic for TMDE Support Group workers and their families was held at the civilian recreation area.

Entries sought for voter slogan contest

The Federal Voting Assistance Program's 1986 slogan contest is underway.

Anyone may enter the contest. The winning slogan will be a part of the 1986 media campaign to increase voter awareness among U.S. citizens and will appear on posters, voter manuals, publications and other media materials.

A panel of judges will select the 1986 slogan and its originator will receive a certificate of recognition from the secretary of defense. A second place finisher,

honorable mentions and the military service with the best percentage of individual participations will also be recognized.

Those wishing to participate in the contest can send their slogans (art work may be included but is not necessary for consideration) to the Office of the Secretary of Defense, Room 1B457, The Pentagon, Washington, D.C. 20301. Slogans must be submitted by Sept. 6. For more information call Autovon 225-0663.

G.E. to make cases for Patriot missiles

EVENDALE, OHIO — The General Electric Aircraft Engine Business Group has won a contract with Raytheon Company of Lexington, Mass., to manufacture rocket cases for the Army's Patriot Air Defense Missile.

Raytheon is the prime contractor for the Patriot system.

The contract, to be renewed annually, represents 75 percent of the fiscal 1985 case buy and is the biggest contract to date on cases for the Patriot. The split, with 25 percent awarded to Kaiser Aerospace, is consistent with the Army's policy of dual sourcing.

Aircraft Engine Business Group's Marine and Industrial Engines and Service Division is manufacturing the cases at Evendale in its rocket case operation. Some laboratory and metrology services are provided by the jet engine production division. Rocket cases are high strength pressure vessels filled with a solid propellant which make up the propulsion section of the missile.

Currently the Army's primary air defense priority, the Patriot will also be deployed by NATO and Japan.

Under the current contract, General Electric will deliver 375 rocket cases in fiscal 1986. The Patriot program is projected to total 6,000 missiles, with production continuing into the early 1990's.

General Electric began its involvement in the Patriot case development in the early 1970's and entered prototype production in 1979.

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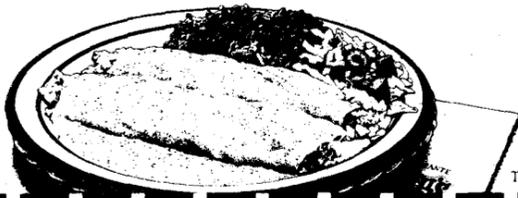


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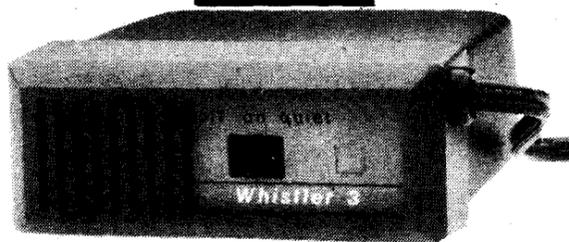
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Safety is an important part of working with lasers

BY PAM ROGERS

To many people, lasers still bring to mind images of Buck Rogers and "Star Wars," but for some Redstone workers, lasers are an everyday part of the job. In fact, almost everyone who shops for groceries has seen them in action, although they might not realize it.

Lasers are divided into four categories, according to their hazard level, said Jay Henson, acting laser safety officer for the missile command.

The scale begins with level one, or "eye safe" lasers, considered to be non-hazardous. One of their applications is for universal product code scanners in grocery store check-out counters.

Level two lasers are potentially hazardous to eyes. "A normal person would blink before it could cause damage. You'd have to force yourself to stare into the laser for a long period of time before it would damage your eyes," said Henson. Lasers of this level are used in optical alignment applications and for aiming devices. Henson said quite a few are used here for optics work.

More-severe eye damage can be caused by level three lasers. "They are powerful enough to cause eye damage before the normal person can blink," Henson said.

"Many more restrictions are needed with these lasers, like protective goggles, locked doors and warning signs," he said.

Level three lasers can cause damage even when reflected from a shiny surface, like a mirror.

Most hazardous are the level four lasers, which can cause severe eye damage, and depending on the wavelength, can even burn skin. Injuries can occur from looking directly into the beam, or looking at a reflection from any smooth surface.

Safety precautions for levels one and two are not very stringent, and there are signs in the area telling of their use. Precautions for lasers at levels three and four are much more restrictive, and involve the use of laser goggles, limited access to the laser area, and devices which turn the laser off if the door to the chamber is open.

People who work with lasers at levels three and four must undergo pre-employment eye examinations to determine visual acuity and the current physical condition of their eyes, as well as a termination exam to rule out any laser damage, said Henson.

Although there has been one incident here involving a worker who received eye damage from crossing the path of a high-energy laser, precautions and



SAFETY MEASURES — Patti Hayes wears protective goggles while working with a helium-neon laser in the Research Directorate.

knowledge on the part of people who work with the lasers insures their safe use.

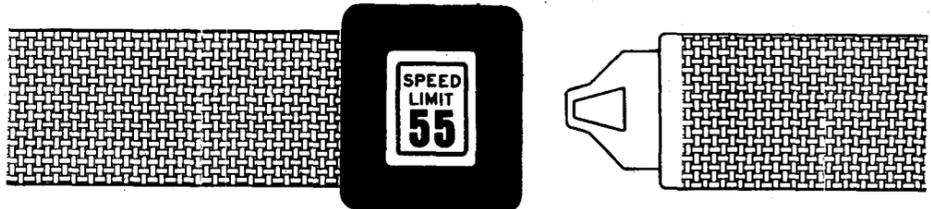
"We're dealing with scientists and engineers who are well versed in the field—they know the hazards," he said.

Marvin Posey, a training instructor with the electronics and technical training department of the Ordnance Missile and Munitions Center and School

teaches a course on lasers and their applications to permanent party military and civilian school personnel.

"There are standard precautions about working with lasers that we teach to our students," he said.

He teaches his students to operate lasers only in their designated areas, and to avoid looking directly at the beam or its reflection.



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Special Forces get new assault rations

WASHINGTON — Soldiers will be eating a new menu of field rations within the next two years.

A new assault food packet has been developed to provide Special Forces, reconnaissance and similar units a balanced meal for up to 10 days, said Lt. Col. William K. Huff, chief of the Army's Food Services Office.

The assault packet, which has been successfully tested by Army Rangers and Special Forces, comes in six varieties. Each packet contains a dehydrated entree, two cereal bars, a beverage bar, a snack, and confectionary items. The entrees feature chicken, beef and pork. All foods can be eaten either dry or reconstituted.

Although production of the assault packet will begin in fiscal year 1986, they will not be fully introduced for field use until the long-range patrol packets currently being served are used up. (Arnews)

Infante gets Bliss job; Fiorentino returning

Brig. Gen. Donald R. Infante will become commanding general of the Air Defense Artillery Center and commandant of the Air Defense Artillery School at Fort Bliss in August.

Infante, now air defense program manager at MICOM, was nominated for promotion to major general two weeks ago.

The Army announced his new assignment July 2 and named Brig. Gen. William J. Fiorentino, former Pershing project manager here, to succeed him. Fiorentino is now at Fort Leavenworth heading a six month study on the Army's future mission in space.

Raymond C. Hase Jr., Infante's deputy, will act as air defense program manager until Fiorentino arrives.

Former MICOM officers selected for second star

Five former MICOM officers were among 36 Army generals who have been selected for promotion.

Chosen in Washington to receive the second star were the following:

— Brig. Gen. James C. Cercy, commanding general of the Electronic Research and Development Command at Adelphi, Md. He served here as a colonel.

— Brig. Gen. Donald R. Infante, the Missile Command's air defense program manager and former Patriot project manager.

— Brig. Gen. Thomas Reese, former deputy commander for research and development. Reese is currently assistant division commander, 5th Infantry Division (mechanized) at Fort Polk, La.

— Brig. Gen. Lynn Stevens, project manager here for both Hawk and U.S. Roland, who is now director of materiel plans and programs, office of the deputy chief of staff for research, development and acquisition.

— Brig. Gen. August Cianciolo, former MLRS project manager who is deputy director of weapon systems, DCSRADA.

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Command group changes made

Maj. Gen. Jerry Max Bunyard announced changes in the MICOM command group last week, naming Brig. Gen. John S. Drosdeck as the command's single deputy commanding general.

MICOM had operated for several years in a two-deputy alignment with one general officer directing research, development and acquisition and a second directing procurement and readiness functions.

Since Brig. Gen. Thomas Reese was reassigned elsewhere several months ago, Hoyt Harris, director of the System Engineering and Production Directorate, had been acting as deputy for research, development and acquisition.

Bunyard said Harris would continue in that assignment overseeing research, development, test and

evaluation programs, the Research, Development and Engineering Center and the System Engineering and Production Directorate.

Ernest A. Young will be deputy for procurement, readiness and resource management. He will oversee the Missile Logistics Center, Missile Systems Readiness Directorate, Battlefield Automation Management Directorate, Product Assurance Directorate, Security Assistance Management Directorate, Procurement Directorate, Information Management Directorate, Competition Management Office, Integrated Logistics Support Office and related programs.

Harris and Young are members of the Senior Executive Service.

Lock your bike!

Bicycle larcenies will be on the increase during the summer months, say security officials here.

They urge military families to protect bikes by using a little common sense. A few steps that will make a bike more difficult to steal and easier to trace include securing it when its not being used (even at home), inscribing an identifying number (like a social security number) on the bike, recording the serial number, parking in designated areas, and most importantly, registering the bicycle.

Bike registration is mandatory for all bicycles operated on Redstone Arsenal. Owners may register their bikes at building 3423 during normal duty hours.

Children are out of doors more during the summer months, so parents should be sure their kids know effective security measures for their bikes, security officials say.

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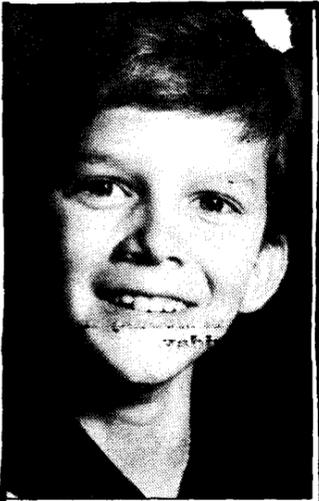
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Dessert judging is picnic feature

Shared desserts that will compete for ribbons will be a feature of the Ballistic Missile Defense Organization's family picnic scheduled July 13.

Each family attending is asked to bring a dessert to share. The desserts will be judged and ribbons awarded for the best.

The picnic will kick off at 11 a.m. at the civilian recreation area with something for everyone. Featured activities include volleyball and softball with awards presented to the winners, horseshoes, a dunking booth and other traditional picnic projects.

For children in different age groups there will be competitive games including a water balloon toss, sack races and three-legged races.

There will be a tug-of-war between directorates and bingo for those who wish to play.

Food will be served from noon till 2 p.m. The menu will include hamburgers, hot dogs, baked beans, chips and drinks. Tickets are \$2 for BMD employees, \$1 for spouse, \$3 (maximum) for each family and \$2 for each adult guest.

For more information call 895-4574 or 895-3280.

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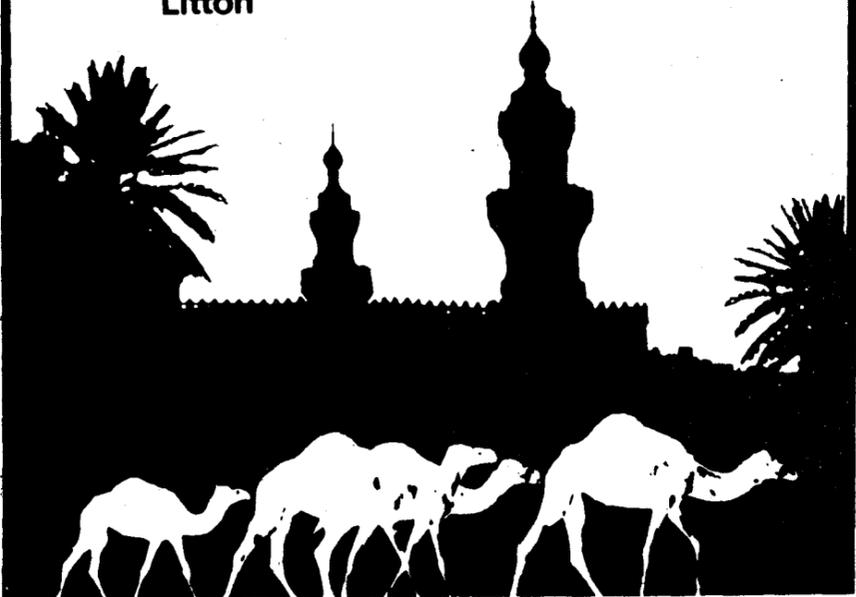
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Test program speeds survivor information

WASHINGTON — Family members of deceased soldiers will have faster and easier access to information concerning survivor benefits under a test program recently developed by the Army.

The Military Personnel Center's Casualty and Memorial Affairs Operations Center has joined with the privately organized Army Mutual Aid Association to provide a computer estimate of the social security and veteran's benefits a survivor is entitled to receive, according to Col. Tony DeBerardino, the center's director.

"We are borrowing on the expertise of the AMAA for the benefit of the total Army," DeBerardino said. "Survivors will still have to apply for benefits, but they will have the piece of mind gained by knowing early what benefits they are entitled to receive," he said. Survivor assistance officers will contact the AMAA to receive the initial benefits estimate, according to DeBerardino.

Before the test program, survivors had to make visits to the local Veterans Administration or Social Security Office, sometimes three or four weeks after their sponsor's death, to find out about their benefits.

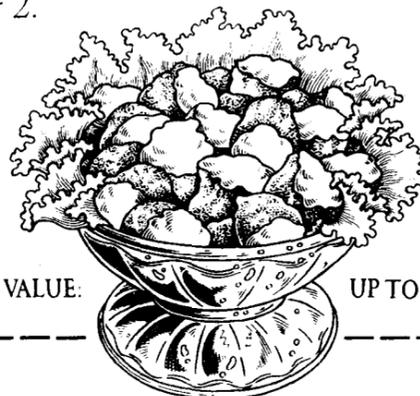
The test is scheduled to continue through the summer. (Arnews)



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For Sale: electric guitar, fender lead 111. New condition, \$350, 830-9195.

For Sale: 1979 Fiat Brava, 5 speed, air condition, am/fm stereo, sunroof, new radials, \$1800 call 876-9406 or 1-728-2349 after 5.

1979 Honda Accord Hatchback, 62,000 miles, air conditioning, automatic, transmission \$3,350, call 883-1012.

For sale: 1978 Toyota Corolla Deluxe, automatic, 73,000 miles, great running condition (25 mpg city/30 mpg, highway) \$1800 or best offer. Call Yolanda at 876-1727 (w), or 881-2162 (h).

For sale: Fiberglass car carrier, \$7500 4 dr., dresser, pine, 2 dr, cedar lined \$70. For more information call 830-0540 after 5 pm.

Garage sale Saturday, 13 July, 8 am-4 pm at 4020 Sewall dr. Huntsville.

For sale: 82 Olds Cutlass Cierra, 2 dr., extra clean, 39K miles, auto, p/s, p/b, air, am/fm stereo/cassette, cruise control, tilt wheel, bucket seats, RSFCU will loan \$6K first \$5800 takes, beautiful executive car! 876-3587 Jennifer, 883-7027 eve/weekends.

Wanted: One or two responsible female room-mates to share a brand new 3 bedroom, energy efficient apartment in Madison. Ready to move into in September but need to secure lease now! Must be non-smoker and fairly neat. Please reply ASAP. If interested call Becky; 876-9633 during work hours and 837-4766 after 4:30 pm.

Sale: Furniture, 2 chairs, 1 maple early American, 1 traditional easy, \$50 each, love seat, traditional, \$100, 2 old lamps, \$20 each, sewing machine with cabinet \$60, call 539-8964 after 5 pm.

For Sale: Mahogany Duncan FYFEE Dining Room table with four chairs, approx. 30 years old. \$300, 586-3585 (Arab).

2 Royal blue shag carpets. Each 6' x 9'. \$30 each. Like new screens, all measure 3/4 wider and longer than the following measurements. 6-35" x 38", 2-35 x 74, 4-23 x 74, 12-35 x 54, 2-39 x 54, 1-27 x 38, 2-23 x 54, 5-39 x 74. \$2.50 for each screen. Call 883-5300.

1981 Olds Cutlass Diesel, am/fm stereo, Londau top, cruise control tilt steering wheel, air conditioned power steering & brakes, good tires excellent MPG and real clean. \$3800. Call after 4 pm, at 881-3315.

Boat for sale: Sabercraft fiberglass 20 ft., deep "V" hull with closed bow & stowage hatch. Real glass windshield & side glass panels. Canvas covered (convertible) cabin with open aft deck area. High sides promote safety, current uscg safety inspection. Includes 85 hp mercury 6 cyl, outboard engine with remote control & safety kill switch, 18 gal, built-in gas tank with 6 gallon aux tank. Upholstered seats for seven like new condition. also included are life jackets, emergency flares, anchor, extra prop and complete water skiing equipment, heavy duty hoiscraw trailer also included for the reasonable price of \$2800 which is not negotiable. Phone 881-3315 after 4 pm, or anytime on weekends.

Beginning racquetball player wants opponent/teacher. Object to play/learn racquetball on Tuesday and Thursday. Telephone 852-8708 after 6 pm.

For sale: 1978 Toyota Corolla Deluxe. Automatic, am/fm cassette player, new interior, 74,000 miles, great running condition (25 mpg city, 30 highway), 1 owner, \$1800 firm. Call Yolanda 876-1727(w), 881-2162(h). First potential buyer couldn't get loan approved, still for sale.

Long hair Dachshund puppies for sale, male and female had shots and denormed red and black with german papers call 852-3809.

Man's valet chair \$15. Call 883-5300.

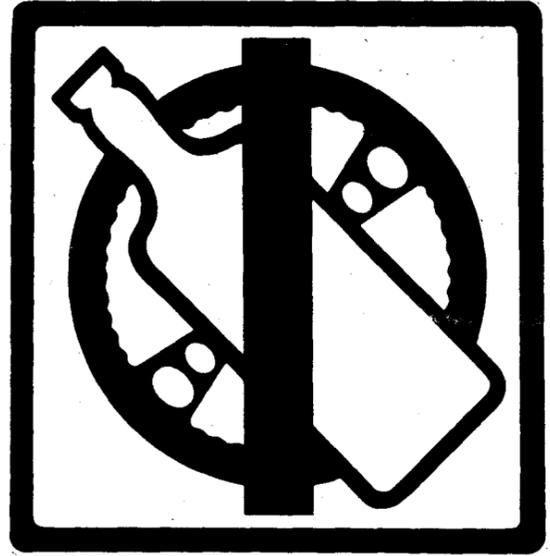
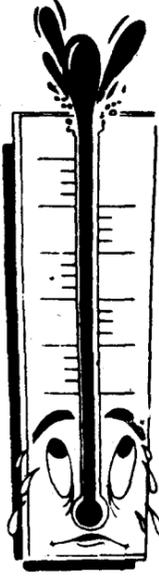
1984 Z-28, 5.0 H.O. engine 5 speed, 1-tops, charcoal gray, under warranty, all extras, asking payoff of \$12,300, Call 837-6690 or 876-7653 (Sharon).

For Sale Cedar House Ranch Style

3 Bedrooms, greatroom, with fireplace, fully carpeted, inside garage, 2 complete baths, garbage disposal, dishwasher, all electric, kitchen, paddle fans throughout house, screened porch, fenced back yard. Nice area, quiet, VA approved! Equity sale only. Will Consider second mortgage.

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After 3, ask for Ms. Brown

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ARDEN PLACE New Brick Apartments 3007 Hood Road

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All apartments have fully equipped kitchens to include front-free refrigerator, garbage disposal and dishwasher. Ample cabinet space and mini-blinds. Dining room with chandelier and designer wallpaper, good closet space, and plush carpeting. This quiet tree-lined apartment complex has central heat and air, on-site laundry facilities, and walking distance to Braham Springs Park. The Park has fishing lake, tennis courts, year-round pool, and amusement park provided by the City of Huntsville, available for all to enjoy.

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Unfurnished, water and basic cable paid by complex

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207V BLACKWALL		207V RAISED WHITE LETTER		108V BLACKWALL	
Size	Price Each	Size	Price Each	Size	Price Each
P185/70R13	57.00	P175/70R13	58.50	P155/80R12	39.00
P185/70R14	59.50	P185/70R13	63.50	P155/80R13	42.00
P195/70R14	63.50	P185/70R14	66.00	P165/80R13	45.00
P205/70R14	65.50	P195/70R14	69.50	P165/80R15	48.00
		P205/70R14	73.50		

108V Whitewall	
P155/80R12	44.00
P155/80R13	47.00
P165/80R12	51.00
P175/80R13	55.00
P185/80R13	59.00
P175/80R14	56.00
P185/80R14	59.00
P165/80R15	53.00

116V STEEL BELTED RADIAL	
P165/70R13BW	44.00
P175/70R13BW	48.00
P185/70R13BW	49.00
185/70SR13WW	53.00
185/70SR14WW	58.00
195/70SR14BW	64.00

113V STEEL BELTED RADIAL BLACKWALL	
155SR13	39.00
175/70SR13	47.00
185/70SR14	52.00

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<p>AIR CONDITIONER SERVICE Up To \$12.95 1 Lb. Freon</p>	<p>OIL CHANGE, FILTER & LUBE \$13.50</p>

SOUTHEASTERN INSTITUTE OF TECHNOLOGY

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

COURSE OFFERINGS — EARLY FALL TERM 1985

DATES: MW sessions Sept. 4-Oct. 28; TT sessions Sept. 3-Oct. 24; Sat. sessions Sept. 7-Oct. 26.

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

FEES: Full-term 300/600 level: \$225 tuition per course plus \$5 registration, or as noted. 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 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 circuits and signals. Instructor: Stephen M. Gilbert; Ph.D.; Dynetics, Inc.

11-581 SIGNAL PROCESSING TT 4:30-6:40 p.m.
A study of signal characteristics, detection and estimation, and processing techniques. Background: basic knowledge of signals and higher mathematics. Instructor: Mervin C. Budge/ Ph.D.; Dynetics, Inc.

11-617 MILLIMETER-WAVE SYSTEMS MW 6:50-9:00 p.m.
An examination of millimeter-wave devices and systems, emphasizing characteristics and applications. Background: basic knowledge of electromagnetics. Instructor: Vernon W. Ramsey; Ph.D.; Boeing Military Airplane Co.

14-301 ENGINEERING MECHANICS Sat. 8:00-12:00 noon
A concentrated introduction to statics, kinematics, and dynamics with engineering applications. Background: basic knowledge of calculus. Instructor: Geoffrey L. Hearne; M.S.E.; Teledyne Brown Engineering.

14-571 ROCKET PROPULSION SYSTEMS MW 4:30-6:40 p.m.
An introduction to the theory and hardware of solid and liquid rocket propulsion systems. Background: basic knowledge of thermodynamics. Instructor: Robert B. Kruse; Ph.D.; Morton-Thiokol Corporation.

14-621 HYPersonic AERODYNAMICS MW 4:30-6:40 p.m.
A study of hypersonic, compressible flow around bodies with applications to missiles and reentry vehicles. Background: knowledge of aerodynamics. Instructor: Richard D. Kramer; Ph.D.; Spectra Research Systems.

17-301 COMPUTER PROGRAMMING MW 6:50-9:00 p.m.
An introduction to computer programming using Fortran. Background: basic knowledge of college mathematics. Instructor: Robert R. Covelli; S.M.; John M. Cockerham and Associates, Inc.

17-309 PROGRAMMING LABORATORY *TT 6:50-9:00 p.m.
Hands-on practice using advanced personal computers. Choice of languages. Credit 1.5 units; fee \$120. (*) Primarily hours arranged. Instructor: John L. Montgomery, B.S.M.E.; Dynetics, Inc.; Consultant.

17-514 DATA STRUCTURES AND ALGORITHMS Sat. 8:00-12:00 noon
A study of data structures and algorithms as tools for program design. Background: basic knowledge of programming; Pascal desirable. Instructor: Robert R. Covelli; S.M.; John M. Cockerham and Associates, Inc.

17-551 MICROPROCESSOR SYSTEMS TT 4:30-6:40 p.m.
An introduction to the hardware, software, and system applications of microprocessors. Background: basic knowledge of electronics and programming. Instructor: J.B. White; Ph.D.; General Electric Company.

17-622 ADVANCED PROGRAMMING: ADA TT 4:30-6:40 p.m.
An examination of the development, structure, and applications of the Ada language. Background: knowledge of high-level programming; Pascal desirable. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

17-631 ARTIFICIAL INTELLIGENCE TT 6:50-9:00 p.m.
An examination of the theory and applications of intelligent computer systems. Background: knowledge of computer systems and programming. Instructor: Virginia P. Kobler; Ph.D.; U.S. Army BMD System Command.

21-641 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.

21-654 REGULATION OF PERSONNEL MW 4:30-6:40 p.m.
A study of federal regulations relating to personnel and human resources management. Background: basic knowledge of management. Instructor: John A. Logan; M.Sc.Mgt.; Teledyne Brown Engineering.

24-552 CONTRACTS ADMINISTRATION TT 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.

24-632 DECISION ACCOUNTING MW 4:30-6:40 p.m.
An examination of accounting information for managerial decision-making. Background: basic knowledge of accounting desirable. Instructor: Richard H. Shuford, Jr., D.B.A.; Business and Economics Consultant.

27-624 SYSTEMS ENGINEERING TT 4:30-6:40 p.m.
An examination of the study, planning, and design processes in system development. Background: basic knowledge of quantitative methods. Instructor: Thomas P. Tytula; Ph.D.; U.S. Army Missile Command.

27-631 NATIONAL SECURITY ENVIRONMENT TT 6:50-9:00 p.m.

A seminar on policies, planning, and strategic implementation of national security. Background: basic knowledge of defense functions. Instructor: Melvin G. Bowling; M.P.A.; Teledyne Brown Engineering; MG USAF (ret.).

31-303 ELEMENTS OF CALCULUS MW 4:30-6:40 p.m.

A concentrated introduction to calculus and analytical geometry with applications. Background: knowledge of algebra and trigonometry. Instructor: Raymond C. Watson, Jr.; Ph.D.; Southeastern Institute of Technology.

31-505 STATISTICS AND PROBABILITY TT 4:30-6:40 p.m.

A study of fundamental statistics and probability with managerial and engineering applications. Background: knowledge of basic mathematics. Instructor: Mario H. Rheinfurth; M.S.; NASA Marshall Space Flight Center.

34-541 OPTICS AND ELECTRO-OPTICS TT 6:50-9:00 p.m.

A study of contemporary optics with applications in electro-optical devices. Background: knowledge of physics and mathematics. Instructor: Charles L. Wyman; Ph.D.; NASA Marshall Space Flight Center.

34-664 NUCLEAR EFFECTS ON SENSORS MW 6:50-9:00 p.m.

A study of nuclear atmospheric detonations and optical and radar sensor responses. Background: knowledge of physics and mathematics. Instructor: Timothy L. Stephens; Ph.D.; Physical Research, Inc.

SPECIAL COURSE

11-591 RADAR PRINCIPLES Sept. 23-27; 8:00-12:00 noon

An overview of modern radar theory and applications, primarily for engineers and managers involved in radar-related projects. Not available for academic credit. Instructor: Stephen M. Gilbert; Ph.D.; Dynetics, Inc. Fee: \$350.

DEFENSE MANAGEMENT AND TECHNOLOGIES

A program leading to the Doctor of Science (D.Sc.) degree with a specialization in Defense Management and Technologies is now available from Southeastern Institute of Technology. The program is for senior personnel in industrial and governmental organizations and involves a detailed examination of the environment, economics, functions, and technologies of the U.S. defense system.

SPECIAL BACKGROUND/REFRESHER COURSES

For individuals needing fundamental technical courses, as refreshers or background for further study, Southeastern has planned a full set of offerings for Saturday mornings. During the Early Fall Term, Engineering Mechanics (14-301) will be offered, followed by Materials and Mechanics; Electrical Circuits; Microelectronic Systems; Circuits, Systems, and Signals; and Fluid-Thermodynamics. Special courses in Computer Programming and in Calculus will also be available.

COMPUTERS AND SOFTWARE

Responding to the extensive computer-related activities in Huntsville, Southeastern has developed an outstanding program of offerings in computers and software systems. Courses are available that can serve needs ranging from literacy to the most advanced professional level.

There are entry-level courses primarily for persons holding degrees and desiring a basic knowledge of programming. Several of the beginning and intermediate courses can be used to earn a certificate in programming for career redirection or entry into a graduate program. At the master's level, SIT offers professional degrees in applications programming, software systems, and computer systems. At the most advanced level, doctoral programs are available emphasizing both hardware and software.

M.B.A. PROVIDES MANY OPTIONS

The Master of Business Administration (M.B.A.) curriculum now includes a number of support options. In addition to business management and general management, available options include information management, industrial management, and contracts management.

A full M.B.A. curriculum will be offered on Saturday mornings as well as weekday evenings. With the accelerated schedules of Southeastern, the program can easily be completed in 24 months or less while continuing with regular employment.

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