

The Redstone Rocket

Vol. 32 No. 9

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July 27, 1983



PATRIOT QUILT—A colorful quilt bearing the emblem of the newest member of the MICOM family is displayed by members of the Patriot wives group who recently presented it to the project office. The story behind the quilt is

written up in today's Rocket along with feature articles on the missile project which became a part of MICOM yesterday. Patriot wives shown with the quilt are, from left, Diana Brown, Gudrun Muller, Ann Marnell, Lieke Van de

Kraatz, Geni Curtze, Martha Oldacre, Celia Bunyard, Maria Kilgore, Pat Neely, Jackie Simpson, Ranata Lemmer, Ruth Taylor and Shirley Bouknight.

Patriot becomes part of MICOM again

BY ED PETERS

The welcoming of Patriot into the MICOM family is like a homecoming in some respects.

The big budget air defense missile project located in Research Park became a part of MICOM yesterday, July 26.

Patriot project was originally formed in MICOM in 1965 but later was made a separate activity reporting directly to DARCOM headquarters. In 1976 the project was moved from arsenal building 4488 to Research Park.

Currently the project has 187 civilian workers and 46 military personnel. There are several field offices: at the prime contractor's plant, Raytheon in Andover, Mass.; in Orlando, Fla. at Martin Marietta, a major subcontractor, and at Fort Bliss, Texas; Lettinkenny Army Depot, Pa., and White Sands Missile Range, N.M. A European support office is located in Germany.

The thrust of activity in the project presently is toward fielding the missile in Europe in early 1984.

"The next few months are going to be very hectic months and we will be doing all the necessary activities to pull together all that has to be done to get the equipment to Europe," said Alfred D. Reeder, Patriot assistant project manager for program and acquisition management. "That's going to be a tremendous task. There are as many as 200 items other than Patriot peculiar items that have to be pulled together to deploy the system. So there's a lot of work ahead of us to get Patriot to Europe in the early '84 time frame."

Reeder is one of six assistant project managers with the Patriot system. His group of procurement specialists, operations research analysts, budget and program analysts and industrial engineers handles

the project's business management activities and is responsible for all contracting aspects of the multi-billion dollar program.

An assistant project manager for readiness, Col. Carl Neel, Jr. pulls together everything necessary for the complex system's field readiness. His group looks at the system item by item to see that milestones for fielding the system are met, and coordinates the activities of the numerous commands and organizations that provide hardware, training and other support.

Logistics-type functions geared to insuring that the system is deployment-ready are the responsibility of the assistant project manager for support, Alan Compton. His group's involvement includes repair parts, reliability and maintainability, product assurance and troop training.

A.Q. Oldacre, assistant project manager for international operations, handles foreign military sales matters. Many of the NATO countries plus Japan have indicated an interest in purchasing Patriot. Its foreign military sales potential is equal in volume to what the U.S. will buy.

James D. Brower, assistant project manager for systems, oversees testing for the Patriot system. His group also manages the research and development effort to improve Patriot to meet the threat of future years.

The assistant project manager for production, Dr. Larry O. Daniel, is responsible for the production program at contractor plants and government agencies. The group's production engineers monitor the Patriot production program and act as trouble

(Continued on Page 12)

Command marks three events July 26

Three signal events were marked at MICOM yesterday.

Maj. Gen. Jerry Max Bunyard assumed command of MICOM, a third star was pinned on his predecessor Maj. Gen. Robert L. Moore and Patriot project became a part of the Missile Command after a number of years as a separate activity.

Bunyard, 52, assumed command from Moore in a traditional ceremony in front of MICOM headquarters building. Bunyard had been Patriot project manager in Research Park since November 1980. At MICOM he will lead more than 8,000 Army civilian workers and soldiers managing missile and rocket programs.

Moore's promotion to lieutenant general marks the first time a senior commander at Redstone has made three-star rank at the installation. His new assignment will be at DARCOM as deputy commanding general for research, development and acquisition. Moore, 53, has commanded MICOM since summer 1980.

DARCOM commander Gen. Donald R. Keith participated in the ceremonies which were open to arsenal workers and members of the local community.

The event also featured a MICOM color guard, the 313th Army Band from Birmingham and displays of missiles and equipment.

Letters

Slow moving

Editor:

Each morning on the way to work we are held up by slow moving traffic going north on Patton or on other roads. The cause of the traffic jam seems to always be an FE work truck going about 15 miles below the posted speed limit. We see these same vehicles going the opposite direction at quitting time and they are going about 10 miles over the posted limit. I guess the theory is the quicker they get to a job the sooner they have to start working.

You guys need to wise up. We barely won over the contractor's bid and that is still up in the air. Your goofing off on the way to jobs only increases government costs and, in the long run, may increase them enough that contracting out will be the answer.

Name withheld by request

Animal abuse

Editor:

The Redstone arsenal military community should emphasize the prevention of animal abuse. Almost daily, on Redstone Arsenal, I witness a dog abuse. In most cases, I think pet owners don't realize that they are abusing their pet; and, in other instances, the owners just don't care.

Several times I have notified the Military Police of a dog being kept in a car. Pet owners must realize that, like a human, cats and dogs cannot endure extremely hot temperatures. With an outside temperature reading of 70 degrees Fahrenheit, it takes only 15-20 minutes for the inside temperature of a car (with windows open) to reach 120 degrees Fahrenheit; and, with an outside temperature of 85 degrees and higher, it takes only a few minutes for the inside temperature of a car to reach 120 degrees Fahrenheit or higher. This also applies to dog houses kept in direct sunlight.

I sympathize for the dogs kept in yards without protection from the hot summer sun and for the cats and dogs kept outside in freezing temperatures. Pet owners should keep the dog near a tree, place plywood against the fence, or do anything else that would provide the dog with some shade. Dogs should also be provided with plenty of drinking water. Dogs require much more water than humans. Also, although winter is months away, it is important that pet owners are informed that freezing temperatures can give cats and dogs frostbite. Most common areas for frostbite are the ears and paws.

Occasionally I see a dog being transported in the open part of a truck, which is dangerous. The dog could be thrown about or out the truck should the truck hit a bump or slam on the brakes.

It is not unusual to see a dog running with its owner, and I am not disagreeing with it if the dog has had the opportunity to build up to the owner's exer-

cise level. Dogs can get pulled muscles, sprained legs, sore joints, and blistered paws from the hot ground surface. Owners should train their dog, don't strain.

It is disheartening to see a pet being punished with excessive and forceful blows to the body. Shaking the pet by the collar or tapping him on the nose immediately after his misbehavior is all that is required for the pet to realize he has done something wrong. If punishment is given long after his misbehavior, the pet will not know why he is being punished. As a result of severe punishment, pets will become afraid of people and may bite as a means of self-protection.

Finally, pet owners should keep a name tag (with address and telephone number of owner on it) and a current rabies tag on their pet, not in a drawer or a purse. These tags could save time and the pet's life should the pet get lost or hurt.

I urge everyone to stop looking the other way when they see an animal being abused. Report animal abuse to the Military Police if the abuse occurs on the arsenal, and report abuses, which occur off the arsenal, to the local Humane Society. Reports of abuse may be anonymous.

Name withheld by request



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Rocket prints first color picture

Some changes in the **Rocket** should be apparent to readers today. The most obvious one is the color picture on the front page, the first ever to appear in this newspaper.

Changes inside include the addition of a free want ad section for arsenal workers (see page 9) and the deletion of the "Troop Talk" section. There also are some changes in type faces used in headlines and body copy as well as changes in the way some elements are displayed. Full-color printing will be used occasionally and one-color will be used frequently.

The changes reflect what readers have told us they want in their newspaper and at the same time are intended to make it more attractive and easier to read.

For the first time in more than 30 years the **Rocket** has changed publishers. The new publisher is Sara Grant and Associates, an Anniston-based firm newly-established in Huntsville. Grant publishes several small newspapers and is a graphic design and advertising consultant.

The publisher has available some newspaper racks to place at various places on the arsenal where they are needed. If your building or organization could use one give us a call and we will try to arrange to place one there.

Your comments and suggestions are always welcome. Our phone number is 876-4161, and our mail symbol DRSMI-G.

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THE REDSTONE ROCKET

Editorial Offices.....876-1500
Advertising Offices.....539-3980

The Rocket is published weekly, on Wednesday, the publisher will receive editorial content for publication in The Redstone Rocket through the information Office, Army Missile Command, Redstone Arsenal, Ala. 35899, Bldg. 5250, Room A-134, Extension 876-1500.

All advertising copy and payments therefor are received by Richard Voth Advertising Manager, P.O. 5351, Huntsville, Ala. 35805, telephones 539-3980 a representative of the publisher. The advertising office of The Redstone Rocket is located at 108B, South Side Square.

Advertising deadline—both display and wanted—is 5:00 p.m. Friday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for The Redstone Rocket at \$14.98 a year, or \$8.56 for six months, tax included.

Everything advertised in this publication must be made available for purchase use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

Soldier gets Vietnam medal 12 years late

BY SKIP VAUGHN

His medal for combat operations in Vietnam came 12 years late and without ceremony but SSgt. William Schumacher says he was happy just to get it.

Last year the Redstone soldier started trying to find out what happened to the bronze star medal he had orders for when leaving his unit in 1971. He figured he'd tie up some loose ends before retiring in December 1983.

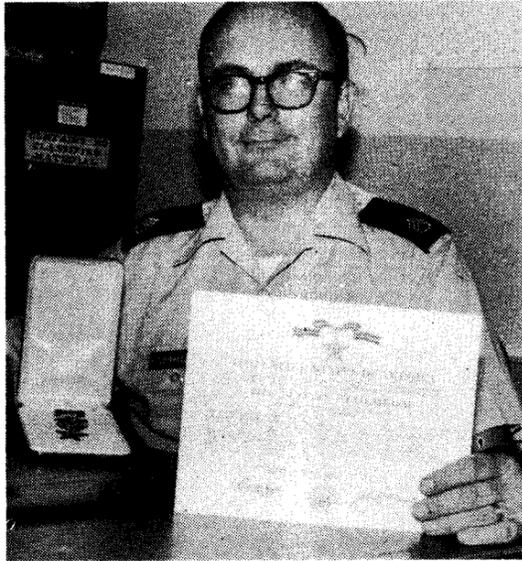
When contacted, the Department of Army Military Personnel office told Schumacher it would review his case and, if appropriate, award him a medal and citation. He picked up the new medal and certificate here this month.

"It would've been nice to have a nice presentation but to me just to finally get my certificate was pleasing," says Schumacher, a final test administrator for the electronics and technology department at the Missile and Munitions Center and School.

"I'm very satisfied just to get the award after all these years," says the 41-year-old Washington, D.C. native. "It's one of those loose ends I wanted to clear up before I retire and it's just great to get it."

The award was for meritorious achievement in connection with ground operations against a hostile force in Vietnam from Jan. 29 to April 5, 1971. Schumacher was assigned to the 5th Infantry Division at Quang Tri, a city in the northern part of then South Vietnam.

During that time he was put in for what was supposed to be his second of three bronze stars. He received the first from the 5th Infantry Division in 1970 and the third when assigned to Da Nang in late 1971. There was no problem in either presentation. His second award, however, apparently got lost.



12 YEARS LATE—Schumacher shows the Bronze Star medal he received recently for combat operations in Vietnam in 1971.

Schumacher saw the June 1971 orders for a bronze star when he picked up his file while preparing to leave his division that July.

"They probably had an awards ceremony scheduled and it just never came off because I was gone," he says. "Of course we can speculate and guess what happened but the award just never caught up with me."

He started checking on it in the fall of 1982 when he returned to Redstone from Germany. He called the 5th Division headquarters at Fort Polk, La. who referred him to Fort Shafter, Hawaii, who referred him to Department of Army Military Personnel. The military personnel office here sent someone to his office to give him the award but he wasn't there so he picked up the award the next day. The certificate was dated May 17, 1983.

Schumacher enlisted in the Air Force in 1960 and served eight years. Out of work, he enlisted in the Army in 1969 and went to Vietnam that November. He wound up spending about 26 months there because he extended his tour twice.

In late 1971, while assigned to the U.S. Army Depot at Da Nang, Schumacher put in a third request for extension to stay in Vietnam. He was turned down because the U.S. was beginning to cut its troop strength there.

"I had been to Vietnam for so long I had been used to the excitement," he says of taking up skydiving after returning to the states. He and his Korean-born wife Rok Cha have three sons: William, 7, Marshall, 4, and John, 3.

"I stayed (in Vietnam) a lot longer than most people," Schumacher says. "I guess I was a little unusual in that I wanted to stay there but at that time in my life I was young, wild and restless and I liked the excitement, I guess. I guess there's two types of soldiers in the Army--wartime soldiers and peacetime soldiers, and I guess I'm a wartime soldier."

A co-worker at the school believes Schumacher fits both categories. "He likes the excitement of war but he does adapt to peacetime and he's a good NCO," says SFC Edwin Proctor, an instructor with the circuits team. "He's an outstanding worker. He's very precise in all his work. He will not leave until all his work is finished."

This includes tying up some loose ends to get a long-lost medal.

Wickham send-off

for Desert Eagle force

WASHINGTON—On the occasion of their departure for duty with the Multinational Force and Observers (MFO) in the Sinai, units of "Task Force Desert Eagle," from the 101st Airborne Division (air assault) at Fort Campbell, Ky., have received a send-off from Army chief of Staff Gen. John A. Wickham Jr.

The Army's top military leader made his thoughts known in a recent message to division commander Maj. Gen. C.W. Bagnal.

"The mission on which you embark," said Wickham, "is important for peace and our nation's security interests. The Sinai has experienced war for many centuries. The recent success and hope of the Multinational Force and Observers are that peace will now prevail. American participation in MFO is as crucial to their success as it is to NATO and Korea. You are representing the best of the peacekeepers."

Wickham went on to say that the soldiers of the 101st were selected for this rotational duty because they're tough and ready." He urged them to "take advantage of this opportunity to strengthen your unit proficiency, your professional knowledge, and cohesion within your fine organization. Professional competence will be important to successful conclusion of your mission, but so will safety."

"The Army is proud of all of you and of your families. Our prayers go with you."

97-year-old soldier is honorary general

WASHINGTON—One of America's distinguished old soldiers, with more than 44 years of military service, was honored recently in a ceremony at the national guard armory in the District of Columbia.

The rank of honorary brigadier general in the District of Columbia militia was accorded retired Col. West Alexander Hamilton, whose length of service spans from the Mexican border campaign through World War II. During his long career, Hamilton served in all ranks from private to colonel.

The general served with Pershing's forces during the Mexican border campaign. He also commanded Company C, 372nd Infantry, during World War I, where he won the Croix-De-Guerre for leadership and courage in France's Meuse-Argonne offensive. During World War II, he trained ROTC students at Prairie View College, in Texas. For the remainder of the war, he served as inspector general for training and equipment.

The 97-year-old general, a lifelong resident of Washington, D.C., was honored at an earlier ceremony in the oval office of the White House by President Reagan, who presented Hamilton with a tie clasp bearing the presidential seal and signature. The president also confirmed the honorary promotion to brigadier general at the ceremony, where, upon entering, Hamilton saluted and reported to the president with, "Mr. President, sir, I am West Alexander Hamilton, an old soldier."

After his retirement in 1949, Hamilton became active in various community organizations, including the D.C. school board and the YMCA. He has received many awards recognizing his community involvement.

The armory ceremony was attended by Secretary of the Army John O. Marsh Jr. and many senior military officers. (ARNEWS)

Savings bond sales on rise

WASHINGTON—For the first time in years, U.S. savings bond sales are definitely on the rise, say Army finance officials.

Savings bond sales to military and civilian personnel during the Army's May '83 campaign were 78 percent higher than last year's.

A total of 16,506 new bonds were bought by Army

personnel this year. That figure derives from increased participation rates of 19.5 percent for civilians and 14.4 percent for servicemembers.

Officials at the U.S. Army Finance and Accounting Center in Indianapolis credit most of the sales increase to the Treasury Department's new program of "variable, market-based interest rates."

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Fox takes over BMDSCOM Thursday

Brig. Gen. Eugene Fox will assume command of the Ballistic Missile Defense Systems Command on July 28, accepting the unit's colors from retiring Col. Robert J. Feist.

It will be the first time since 1976 that both general officer positions authorized for the Ballistic Missile Defense Organization have been filled by generals at the same time. The other position is held by the BMD Program Manager, Maj. Gen. E.R. Heiburg III, who is headquartered in Washington, D.C.

The change-of-command ceremony will be at 1 p.m. at BMDSCOM headquarters in Research Park. The event, which is open to the public, will feature an Army color guard unit, music by the 14th Army Band from Fort McClellan and remarks by Heiberg, Fox and Feist.

The BMDSCOM commander directs a work force of nearly 500 civilian employees and 70 military personnel involved in managing the design and development of systems that could defend U.S. strategic targets against intercontinental and submarine-launched ballistic missiles.

The majority of BMDSCOM personnel performing this work are in Huntsville. Approximately 70 are stationed in the Marshall Islands of the central

Pacific, where they manage operation of Kwajalein Missile Range. BMDSCOM operates the range as a Department of Defense national range for testing intercontinental ballistic missiles and other systems, as well as validating technology developments for ballistic missile defense.

Fox comes to the top BMDSCOM post after serving as deputy director, Defense Test and Evaluation, in the Office of the Under Secretary of Defense for Research and Engineering at the Pentagon. He has been previously stationed in the Huntsville area, serving with the Army Missile Command on Redstone Arsenal in 1978 and 1979.

A native of New York City, Fox is a graduate of the U.S. Military Academy, West Point. He holds a masters degree in aerospace engineering from the University of Arizona. His military education includes the Air Defense Basic Course, Field Artillery Advanced Course, the Army Command and General Staff College and the National War College.

Feist, whose Army career spans 30 years, has served with BMDSCOM since April 1981. He was first assigned as director of the Kwajalein Missile Range Directorate, then moved up to chief of staff, and has been commander since September 1982. Before join-



Fox

ing BMDSCOM, Feist served from 1976 to 1981 at Redstone Arsenal, in positions as project manager for the Hellfire Missile System, deputy director of the Army Missile Laboratory, acting director, and finally special assistant to the director of the laboratory.

Many veterans owe VA for overpayment.

Some 850,000 veterans who have been overpaid for G.I. Bill education benefits will receive letters from the Veterans Administration advising them of new statutes affecting money owed the government.

The mailing started July 19 is the second in a series of steps taken by VA in response to a Congressional mandate to intensify collection of \$954 million owed in some 1.3 million accounts. Amounts owed range from several thousand dollars to as little as five dollars, the lowest amount to be targeted for collection. Some of the accounts are more than 10 years old.

Letters regarding education accounts will be mailed at the rate of 42,000 per day from the Centralized Accounts Receivable Section of VA's St. Paul, Regional Office. Similar letters are scheduled for veterans who owe for overpayments in compensa-

tion, pension and loan guaranty defaults.

In the first three months following the first mass collection effort in January, VA received \$24 million in payments, almost double the normal amount for that period.

This month's mailing to veterans who have ignored their overdue obligations will advise that interest on their balance will be charged at the annual rate of 15.05 percent.

Legislation enacted in 1980 (P.L. 96-466) authorized interest charges in such cases at the rate used by the Treasury during fiscal 1982. While the rate is reviewed each year, the initial rate assigned to an account remains unchanged while the debt is outstanding.

Veterans are advised that the interest cost can be

avoided by remitting the full amount due within 30 days of the date of the letter. Those unable to repay the full amount are advised to submit a partial payment together with a proposed repayment plan. If no repayment plan is submitted within 30 days of the notice, an administrative fee of 61 cents is added each month in addition to the interest. Those who have established repayment plans will not be charged interest and administrative costs unless the account becomes delinquent.

All repayments are to be made to the Centralized Accounts Receivable Section in St. Paul. A remittance form is provided with each letter. Local VA regional offices can assist in explaining remittance procedures, but all of the delinquent accounts are maintained in St. Paul.

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MICOM group builds mobile repair shops

A MICOM group that specializes in solving tough equipment problems designed and developed the repair vans that will take care of the Patriot system in the field.

Prototype Engineering section of System Engineering Directorate is finishing up the last of 18 M373A trailers being converted here into Patriot repair vans.

The technical data package developed by Prototype Engineering that contains specifications and instructions on converting the trailers has been turned over to Letterkenny Army Depot in Chambersburg, Pa. Letterkenny recently completed the first of 182 repair vans that will be constructed there over the next six years.

The conversion process involves replacing the trailers' plywood walls with aluminum, installing racks and shelves, lighting and electrical systems and air conditioning. Safes, rifle racks, radios and other equipment is added and trailers are stocked with parts and tools and manuals before leaving the shop.

"We had people up to Letterkenny several times and had their people here in training," said Leland Lee, chief of Prototype Engineering.

"One thing hard to do is to transfer a technical data package from one contractor to another but this is the government doesn't have any trouble doing it within its own facilities," he added.

Among those from MICOM helping Letterkenny

get set up were Bill Kern, Dave Elder and Ed Branum. The project engineer, Lawrence Howard, recently was promoted into another job at MICOM.

Lee said the Patriot work is dollar-wise the biggest project ever done by Prototype Engineering. He said too that his group saved Patriot a lot of money over the cost of having the repair vans converted by a contractor.

The Prototype Engineering group designed and built a dual-purpose van that lets three trucks support a Patriot firing unit where four had been needed.

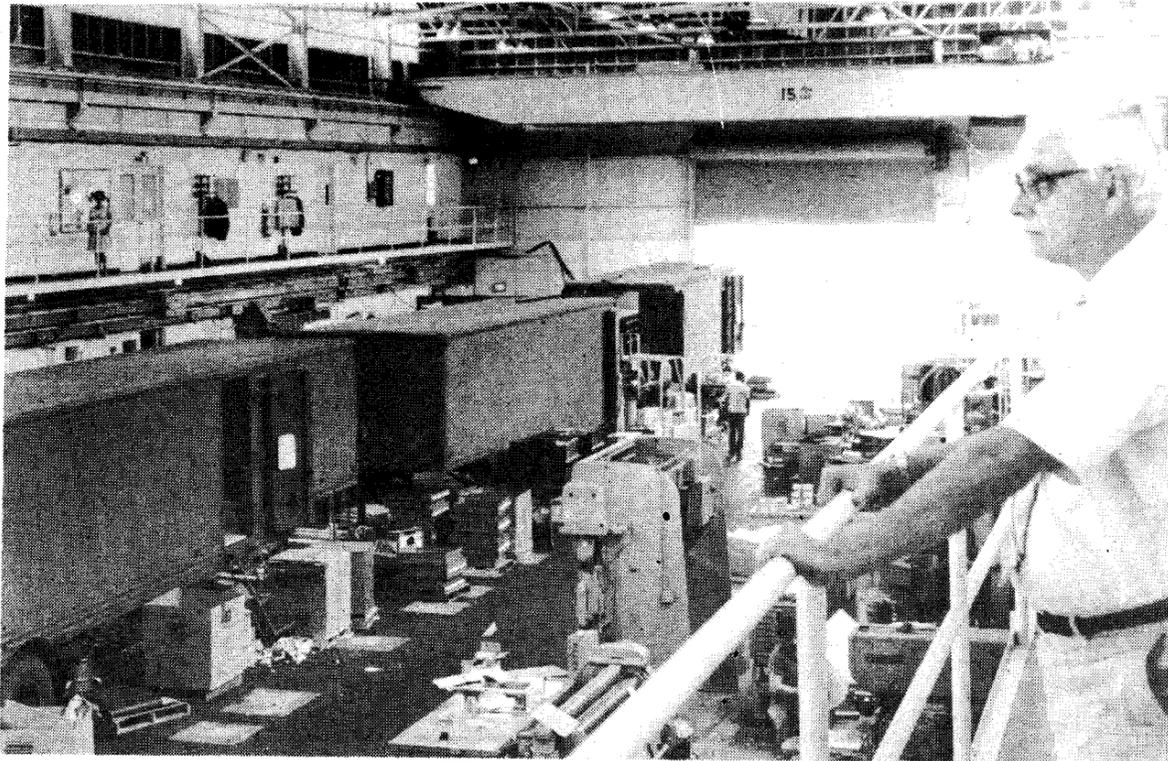
Supporting a Patriot unit in the field will be a maintenance center trailer, called an MC, at the battery level and one at battalion level. The third trailer is a small repair parts transporter known as an SRPT. All three are fashioned from standard Army M373A trailers just over 30 feet in length.

Prototype Engineering is also working on an ISE, intermediate support equipment shelter, for Patriot.

Prototype Engineering, sometimes called the "Skunk Works" is a group of engineers, technicians, metal workers, model makers, machinists and other skilled workers put together in 1977 to apply MICOM's engineering and technical capability to tough equipment problems generally needing solutions that are fast and economical. Their shop is located in Building 4762 west of Rideout Road.

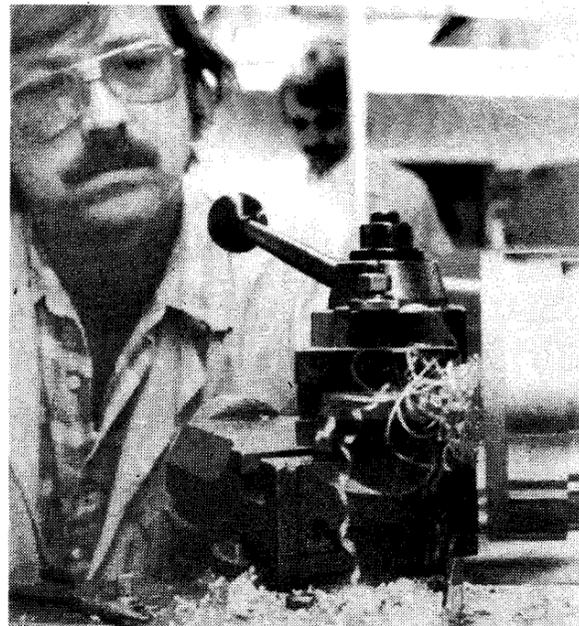
"Usually when we get a project it's because we can do it cheaper and quicker than anyone else can," said Lee. "We have an excellent record of being able to deliver on time with difficult hardware."

"We cut our teeth on difficult problems. That's the kind we like. It's a challenge to us, to see if we can do it."



PROBLEM SOLVER—Leland Lee looks over Patriot trailers undergoing modification in his shop. Prototype

Engineering is finishing 18 trailers being converted to Patriot repair vans.



Machining -Modelmaker Larry Malone machines a part at Prototype Engineering's completely equipped machine shop.

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9:15am	11:05am	623			11:40am	11:35am	624	X7	
11:45am	1:40pm	625			2:25pm	2:20pm	626	X6	
2:30pm	4:25pm	627	X6		3:55pm	3:50pm	628		Dash 7
4:00pm	5:55pm	629	X6	Dash 7	7:20pm	7:15pm	630		
7:25pm	9:20pm	631	X6		9:05pm	9:00pm	632	X6	Dash 7
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Team travels to Germany to teach missile repair

BY SKIP VAUGHN

A new specialty for Lance missile system repairers meant additional training was necessary for some American soldiers in Europe.

As a result a two-member mobile training team from Redstone recently spent three months in Germany. They trained soldiers in the additional tasks necessary for Lance system technicians.

"Feedback from Europe indicates an exceptionally good job," said Matt Salopek, chief of the land combat support Lance team at the missile school here. His office sent the two soldiers to provide training on the new 27L, Lance system repair specialty.

The new specialty meant that soldiers already trained in electronic repair tasks had to learn 34 additional hydraulic and mechanical repair tasks. "The 27B people who were going to be converted to the new 27L (specialty) had to have some training in order to perform their job and, without the mobile training team, they never would've received that training," Salopek said.

SSgt. Lilton Monteith and SFC David Carter left for Europe by commercial airline on April 25. They landed in Frankfurt International the next day and went to Hanau, Germany. There they taught a total of about 22 soldiers from three different units-- the 563rd Ordnance Company, 71st Ordnance Company and 41st Ordnance Detachment.

On June 2 they traveled to Nuremberg where they taught about 20 students from the 45th Ordnance Company and 41st Ordnance Detachment. Monteith and Carter left for Redstone on July 15.

While in Germany, Monteith did the teaching and Carter assisted in the practical exercises and administrative work.

"The training consisted of first of all a classroom environment for the theoretical portion and then they had actual hands-on training in repairing the launcher and the loader transport. So we covered the entire realm," Monteith said.

The 28-year-old Jamaica native, an instructor



TRAINING TEAM MEMBER—SSgt. Lilton Monteith spent three months in Germany training soldiers

since coming to Redstone almost two years ago, is to teach the new specialty here.

"Personally I know the trip was a success," Monteith said. "And from the critiques of the

students after each course, they indicated that (the) training had been of benefit to them in getting to understand in detail how the system works and getting the repair of the system accomplished."

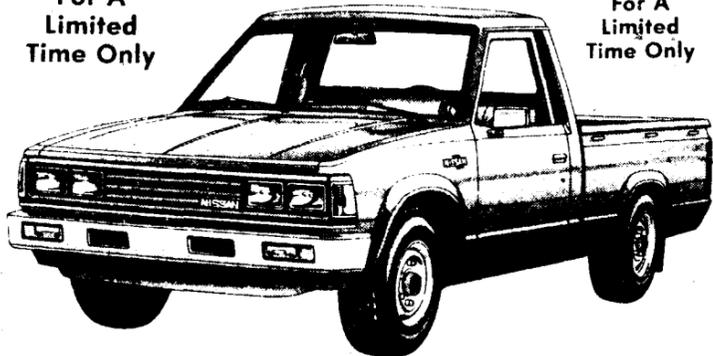
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German ordnance official 'impressed' by MMCS

The Missile and Munitions Center and School was host recently to Col. (Dipl Eng) B. Volker Kraus, commander of the German Army Ordnance Maintenance School and Army College for Technology at Aachen, Germany.

Kraus, accompanied by Lt. Col. Sam Sherrill, TRADOC liason officer to the German Ordnance Maintenance School, visited MMCS's facilities from July 19-21.

The colonel's tour of the facilities include Toftoy Hall where he chatted briefly with German students in training. Kraus also viewed the Plato equipment here and observed training at Land Combat.

On July 21, he gave the Officer Advanced Course a briefing on the elements and tasks of maintenance. This briefing was attended by Col. Joseph Cote, commandant of MMCS.

A tour of the Space and Rocket Center later that day was also on the agenda.

Kraus, who has been in charge of the German Army Maintenance School since April 1981, had favorable impressions of the Missile Munitions Center and School.

"I was very impressed with your school, with its advanced training and its advanced training technology," he stated.

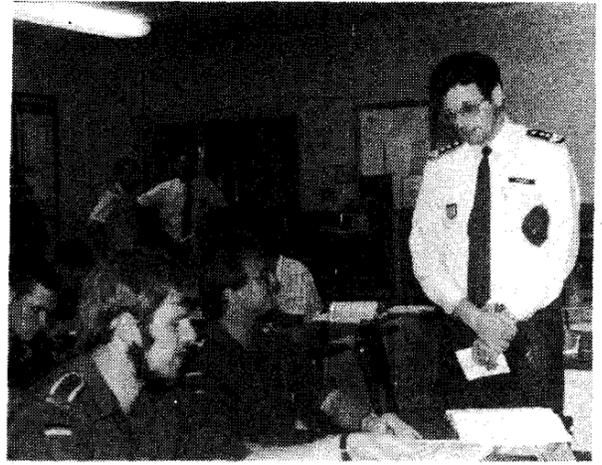
Kraus said that he had talked with some of his own students and they were also impressed with the training here.

"I am very pleased also with the hearty reception and hospitality I received here," he said.

Cote said of the visit: "We have broken the ground of a partnership between the two schools."

Cote expressed a possibility of sharing knowledge through instructing senior key German NCO's in the early phases of MLRS maintenance.

Cote has been invited by Kraus to visit his school at Aachen.



Col. B. Volker Kraus, commander of the German Army School, chats with some of the German students during his tour of Toftoy Hall July 20.

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Hunting program needs volunteers

Volunteers willing to assist in the post hunting program are being sought by Morale and Welfare.

Interested individuals should apply in writing to Bob Redding at building 5127. Applications will not be accepted before 8 a.m. August 1 nor after 4 p.m. August 15.

Those eligible include active duty and retired military personnel and civilian employees of the

United States who have personal vehicle bumper stickers for admittance to the arsenal and personal identification badges.

Volunteers have been used in the hunting program for several seasons to do administrative work in the Outdoor Recreation Center and other necessary work including marking hunting area boundaries.

For more information, contact Redding at 876-4868.

Teams wanted for shooting league

Time is running short for active duty military personnel here to form unit teams for a skeet and trap shooting league.

The league, sponsored by the Outdoor Recreation Center, was scheduled to start Aug. 1. Interested persons should form their team and have their captain call the outdoor rec at 876-4869/6854.

"As soon as I can have the captains together, I'll set up a date to have a captains meeting," said Bob Redding, outdoor recreation director. "I would like to have the captains meeting Thursday (July 28)."

Each team is to consist of four players and two alternates. Redding hopes for from 10 to 15 teams, as many or more than last year's league.

Plans are for each team to shoot eight matches, four skeet and four trap. A match will consist of 25 shots. In skeet shooting, the target "bird" is propell-

ed through the air in a set pattern. In trap shooting a rotating launcher throws the target in various directions at roughly a 45-degree angle.

"Basically the (league's) purpose is to promote solidarity and esprit de corps within the units themselves," Redding said.

For first place and runners-up, there will be a team trophy and individual trophies. Plans include a trophy for the winner of a tournament.

The outdoor rec has shotguns for check-out by those who don't have them for the competition at the center's trap and skeet complex. Plans are to conduct matches Monday through Thursday with Fridays reserved for rainouts.

"My philosophy is the more teams the merrier," Redding said. "The more we have the more fun we can have together."

Softball tourney scheduled here

The Lady Rockettes will sponsor a Men's and Women's Invitational Softball Tournament on August 12, 13 and 14.

The entry fee for military men's teams will be \$40 plus two restrictive flight softballs. For civilian men's teams, the fee will be \$50 plus two restrictive softballs. The women's team, either military or civilian, will have an entry fee of \$35 plus two white-stitch softballs.

The tournament is being sponsored to give support to the men's and women's teams on their trip to the TRADOC tournament at Fort Eustis, Va. during Sept. 1-10.

All tournament play will be on the arsenal on fields 13, 14 and Linton field.

At the completion of the tournament, first, second, and third place trophies will be given away. There will also be a special trophy given to the player hitting the most homeruns.

A concession stand will be set up.

All interested persons should have their entry forms turned in to SSgt. Prentiss Thomas or Irving Lyles at the Post Gym, Bldg 3474 no later than August 8 at 12 p.m.

For more information, call Thomas or Lyles at 876-2943/7969.

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ACS helps 1,500 each month

BY SKIP VAUGHN

Army Community Service, which recently had its 18th anniversary, is more than just a source of household goods for military families.

"There's so much more to it," said Juanita Phillips of Redstone's ACS. Programs here include relocation information on Army posts worldwide; family advocacy which includes family counseling; referral assistance and follow-up; and a consumer affairs program.

The lending closet stocks household items that soldiers can use while waiting for their own household goods to arrive. Besides its programs at building 3491, ACS includes the nursery and day care operation on post.

"Last quarter averaged out to be that approximately 1,500 people a month used our facilities," said Phillips. "That's excluding the nursery and day care center operation."

Phillips conducts the community service's Army Emergency Relief program and also serves as budget counselor and consumer affairs program coordinator. Staff members include 1st Lt. James May, ACS officer; a noncommissioned officer in charge; an enlisted soldier; and four civilian employees.

Twenty volunteers put in a combined total of from 375 to 400 hours per month. "We're always looking

for volunteers," Phillips added.

Active duty and retired military personnel and their families can be helped through Army Community Service. July 25 marked its 18th anniversary and the number of service centers has grown from six in 1965 to 162 in 1983.

"Commanders recognize the important link between the success of the ACS mission and the support received by military personnel and their families," said Army Chief of Staff Gen. John A. Wickham Jr. in an anniversary message. "This linkage is manifested in soldier morale, job performance and retention. Army Community Service operates many specialized programs to support soldiers and families and to strengthen their commitment to the Army's mission.

"On behalf of all members of the Army, I extend my sincere appreciation to Army Community Service staff throughout the world," Wickham said. "My special thanks to the thousands of volunteers without whom there would be no ACS. I trust that the unique spirit which motivates the members of ACS organizations will continue to thrive and provide the services so vital to our soldiers and their families."

Toyota dealer refunding money

If you're a soldier who bought a Toyota from a certain dealer in North Carolina, you may have been overcharged.

The Army says Carr Toyota Inc. of Fayetteville, N.C. has overcharged military personnel assigned to Fort Bragg and Pope Air Force Base, N.C. over a five-year period for Toyota's extended maintenance warranty and Toyo Guard. Also, persons have been charged for the warranty without requesting it, officials say.

The dealership is actively refunding money but will only consider claims submitted before July 29.

Personnel who have purchased a new Toyota auto from Carr Toyota from 1978 to date and are interested in a refund must request the dealership to review their records. They should provide as much of this information as possible: Name, address, date of purchase, model and year, and serial number.

This dealership's address is Carr Toyota Inc., ATTN: Chuck Mims, 5110 Bragg Blvd., Fayetteville, NC 28303.

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BIOLOGY				
BIO 1010	Prin of Biology	T-Th	8:00-10:20 PM	5
BUSINESS				
BUS 1510	Business Math	M-W	7:00-9:20	5
BUS 2010	Accounting I	T-Th	7:00-9:20	5
BUS 2010	Accounting I	T-Th	8:00-10:20 AM	5
BUS 2020	Accounting II	T-Th	4:30-6:50	5
BUS 2510	Economics I	T-Th	4:30-6:50	5
BUS 2510	Economics I	T-Th	10:30-12:50 AM	5
BUS 2520	Economics II	T-Th	7:00-9:20	5
BUS 2610	Bus Law I	T-Th	7:00-9:20	5
DATA PROCESSING				
DAP 1050*	Intro Comp Systems	F	4:30-9:50	5
DAP 1500**	Basic Programming	F	4:30-9:50	5
ENGLISH				
ENG 0990	Prep English	M-W	8:00-10:20 AM	5
ENG 0990	Prep English	M-W	4:30-6:50	5
ENG 1010	Eng. Comp. I	M-W	4:30-6:50	5
ENG 1010	Eng. Comp. I	M-W	10:30-12:50 AM	5
ENG 1020	Eng. Comp. II	T-Th	4:30-6:50	5
ENG 2030	Eng. Lit. I	T-Th	7:00-9:20	5
HISTORY				
HIS 1010	West Civ I	M-W	4:30-6:50	5
HIS 1010	West Civ I	M-W	10:30-12:50 AM	5
MATH				
MTH 0970	Elem Algebra	M-W	4:30-6:50	5
MTH 0990	Inter Algebra	M-W	7:00-9:20	5
MTH 1010	Cont Math	M-W	4:30-6:50	5
MTH 1110	College Algebra	M-W	4:30-6:50	5
MTH 1120	Trigonometry	T-Th	7:00-9:20	5
MTH 1140	Calculus I	T-Th	4:30-6:50	5
MTH 2130	Linear Algebra	T-Th	7:00-9:20	5
PHYSICAL SCIENCE				
PHY 1200	Environ Science	T-Th	4:30-6:50	5
PSYCHOLOGY				
PSY 1110*	Student Orient	M	4:30-5:20	1
PSY 1110*	Student Orient	T	4:30-5:20	1
PSY 2010	Gen Psychology	T-Th	4:30-6:50	5
QUALITY TECHNOLOGY				
QTY 1010	Intro to Q.C.	M-W	4:30-6:50	5
SOCIOLOGY				
SOC 2010	Intro to Sociology	M-W	7:00-9:20	5
SOC 2210	Marriage/Family	T-Th	7:00-9:20	5
SPEECH				
SPH 1100	Bus/Pro Speech	T-Th	4:30-6:50	5

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The Redstone Rocket provides the Rocket Classified section as a free service to active duty military personnel and army civil service personnel at Redstone Arsenal. To place a Rocket Classified ad:

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- Sign the ad.

- Deadline is 9 a.m. on the Thursday before the ad will appear. Ads will run for only one week. You may resubmit them.

The Redstone Rocket will not accept ads concerning real estate, mobile homes, or apartments for rent, or businesses.

Conditional statements as "like new," "excellent condition," "runs well," will not be printed.

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Mail Rocket Classified ads to Sara Grant & Associates, Atten: Redstone Rocket Classified, P.O. Box 5351, Huntsville, Alabama 35805.

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Mad people complain about loss of cooling

BY ED PETERS

Redstone Arsenal's power control center is located in a restricted area of building 5414 with dead bolt locks and steel grate over the windows.

Power controller Alvie Berry and his boss Arthur Barnette joke that they had to have it set up that way to keep out mad people.

Some got mad last Thursday, Barnette said, when he shut down air conditioning all over the arsenal during the hottest part of the hottest day of the year.

"Some called and I explained and they were nice about it but others were vehement in the way they ac-

ted," said Barnette, chief of the electrical section in utilities branch.

"I've gotten a whole bunch of calls saying how crazy I am for wasting money and wasting resources because people are too hot and not working," he continued. "But you've got a lot of people out there with hot plates, coffee pots, fans and other things not only defeating the system but in direct violation of a presidential order.

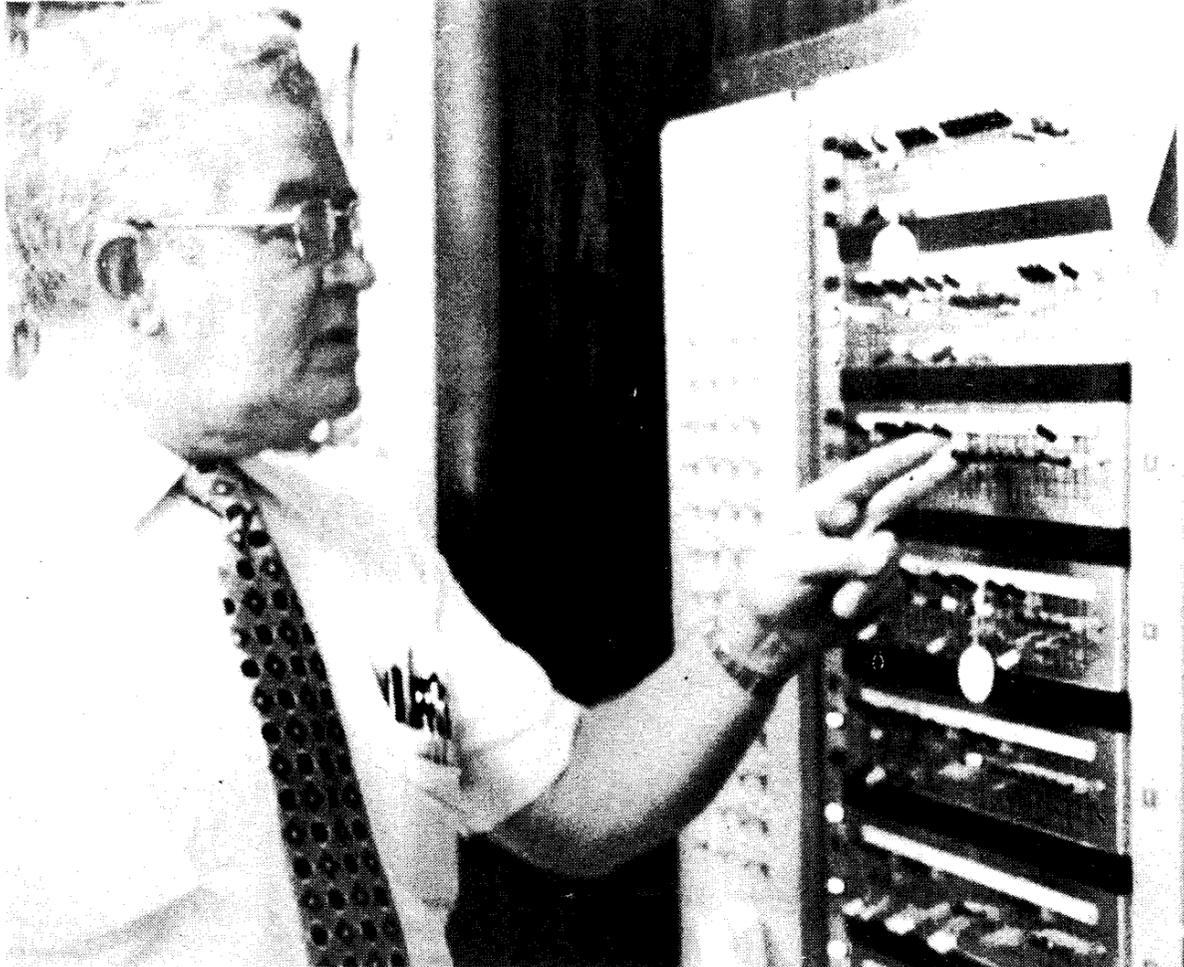
"When we're in a deep draw like we're in today (Thursday) I have only one recourse—pull the plug."

Barnette says the action is justifiable in view of high penalty charges the arsenal incurs when electricity draw exceeds contract demand level. But he says too that the action would not be necessary if people paid more attention to lights burning unnecessarily, machines running that shouldn't be and energy being wasted in other ways. Utilities officials can't control those things, he said, but they can control air conditioning and thus have to curtail it when electricity consumption starts getting out of hand as it did Thursday. Most air conditioning on the arsenal is wired in to the power control center permitting it to be turned on and off remotely from building 5414.

To have not curtailed air conditioning Thursday would have cost the arsenal \$65,000 in penalty fees, utilities officials estimate. The arsenal's power contract with Tennessee Valley Authority provides for a stiff penalty anytime electricity demand exceeds 60,000 kilowatt hours. When the decision was made Thursday to shut down air conditioning demand was 58,500 kwh and climbing.

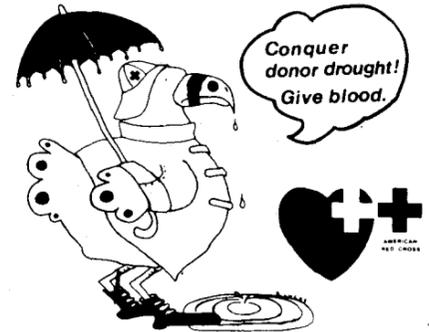
Barnette said arsenal workers can help avoid future air conditioning curtailments by practicing conservation in all ways they know how.

"I want to enlist everybody's help that I can. With their help we can keep their cooling on. Without their help we will have to turn it off," he said.



PANEL—Arthur Barnette shows switches that are connected to air conditioners in arsenal buildings. Air con-

ditioners had to be shut down briefly during last Thursday's heat.



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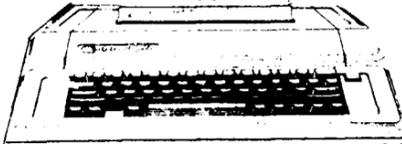
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Burglary prevention tips given

There are things residents can do to minimize the chances that a burglar will pick their home as his target and to protect themselves in case he does, military police say.

MPs offer the following tips: Make it tough for a thief to get inside your home. All your outside doors should have locks that resist picking and force. Most experts recommend either a deadbolt lock that must be operated with a key or pin tumbler cylinder lock. Also put locks on all your windows. The ordinary sash fastener offers no protection.

Never put your house keys under a doormat, in the mailbox, or hang them on nails outside. The safe rule is to never put your keys anywhere that a burglar could find them easily. It is also advisable to keep shrubbery trimmed around doors and windows so as not to give a thief a convenient place to hide.

Make the thief think that you're at home. Leave lights on when you're away. If you are going to be gone for long, invest in a timer that turns lights on and off at designated times. It is a good idea to leave outside lights on whether you're home or away since

they remove the would-be-thief's cover of darkness.

Do not allow mail, newspapers and so on to pile up while you're gone. Either stop delivery of these items or have a neighbor remove them daily. It's a good idea to have your lawn mowed regularly, so the house looks lived in.

Let the MPs know you're going away and request special surveillance of your home. Tell them when you're going, when you will return and what lights will be on and at what times.

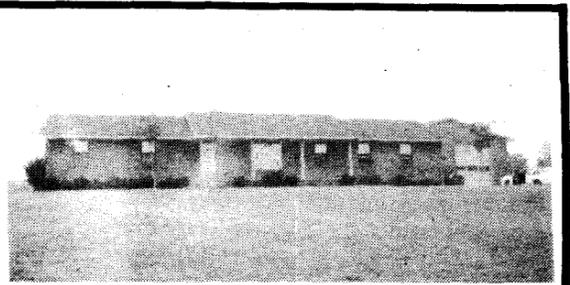
Valuables such as jewelry should be kept in a safe deposit box at the bank. Items like televisions and stereos should be marked with your social security number. This may help police trace it. Keep records of serial numbers of all items that have them.

Above all, don't confront the burglar. Don't pull a gun or other weapon on him. He may take it away from you or use a weapon of his own, MPs say. Chances are, if you don't provoke him he won't harm you. Try to remember the burglar's looks—approximate height, weight, how he's dressed—to help the police identify him later.

THELMA THWARTUM - By Alex



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One missile died, another is born

BY ED PETERS

The personnel nucleus for Patriot project was formed from a talented young group who had been working on a weapon system project that was cancelled.

Some 30-40 people who had been employed with the defunct Mauler air defense system killed in 1964 were combined with about four people from MICOM's future missile systems division to form the new project office for the SAM-D (surface to air missile-development) later renamed Patriot.

Some 20 of the original Mauler people still are at work in Patriot project. One is Ray Hase, 53, the deputy and now acting project manager.

Patriot, as Hase recalls, was in the study phase at the time the Army was trying to decide what to do with Mauler.

Mauler was "a system before its time," according to Hase. "It required technology not matured to the point we could reliably put it into a weapons system."

So the Army decided to upgrade the Chaparral system instead of going ahead with Mauler. That decision, while obviously bad for Mauler, was good for Patriot. "I think one factor in the cancellation of Mauler was that the money could be applied to Patriot," Hase said.

An all-in-one system mounted on a tracked vehicle, Mauler bore no similarity to Patriot. "The only relationship between those two air defense systems was that for one to be born, the other had to die," Hase said.

The people endured, however, and are looking forward to fielding their advanced system early in 1984, the payoff for nearly 20 tough years of hard work and sometimes setback and uncertainty.

Patriot, explains Hase with a chuckle, "is a program that has been plagued with all kinds of help. As time moves on new players enter the Washington arena. They come into new jobs with new ideas on how to do the job better."

These new people and ideas represented outside forces that put Patriot through many delaying reviews, redirections and evaluations. The system was hung up in advanced development for five years. During the engineering development phase, the program was stopped for two years while the guidance system was proved. "It's those perturbations that have made management of the program anything but routine," Hase said.

MICOM's support of Patriot has been "tremendous" throughout the program's existence, said Hase. "We've had first class laboratory support. Procurement and legal support—we couldn't have asked for better; the logistics center, and maintenance support has been excellent."

"We wouldn't be where we are today without the support of the directorates in the Missile Command," he said.

Hase describes his Patriot team as "one of the finest groups to work with, with a capability to manage a complex program that is second to none." And he says joining the MICOM family likely won't



pose any difficulties for either Patriot or MICOM. "The only thing really that will be different is a reporting change and since we'll be reporting through the commander of MICOM, General Bunyard, there won't be any difference as far as personalities go."



Named in '76

The Patriot missile was named during the U.S. bicentennial year 1976. Before that it had been known as SAM-D.

It is not clear who first thought of naming the missile "Patriot" but several sources say former project manager Maj. Gen. Charles F. Means is responsible for getting the name adopted.

The name wasn't then and isn't now an acronym for anything although some people like to think that it means phased array tracking to intercept of target.

The first manager came from Mauler

Patriot got its first project manager, Col. Bernard M. Luczak, in a transfer of personnel from the disbanded Mauler project to the new office set up to manage the SAM-D air defense missile system. Luczak served from August 1965 till January 1966.

Other Patriot project managers and their terms of service are: Col. Edward M. Dooley, January 1966 to October 1967; Col. James C. Miller, December 1967 to June 1971; Brig. Gen. Joseph C. Fimiani, June 1971 to August 1973;

Maj. Gen. Charles F. Means, September 1973 to July 1977; Maj. Gen. Oliver D. Street III, July 1977 to November 1980; Maj. Gen. Jerry Max Bunyard, November 1980 to July 1983.

Former Patriot deputy Charles A. Cockrell served as acting project manager briefly on two occasions, in 1977 and 1973. The current deputy, Raymond C. Hase Jr. is serving as acting project manager following Bunyard's reassignment to MICOM as commanding general.

Brig. Gen. Donald Infante of the 32nd Air Defense Command and in Europe is scheduled to become Patriot project manager in October.

Part of MICOM

(Continued from Page 1)

shooters to find and help solve production problems that contractors have.

The project also has separate divisions for hardware engineering, under Joseph Harris, and for software engineering, under Harry C. Welch Jr., plus a new division that has been set up to develop a management information system for the project.

The Patriot project manager's slot is presently being filled in an acting capacity by Raymond C. Hase Jr., the deputy project manager, pending the arrival from Europe in October of Brig. Gen. Donald Infante who has been selected to replace Maj. Gen. Jerry Max Bunyard, the new MICOM commander.

Although Patriot project has been set up to report to DARCOM directly for several years it has continued to depend on MICOM agencies for administrative support. Co-located with Patriot in Research Park is a MICOM price analysis team under Harland L. Shorter, Jr.; a legal staff, Julius T. Cage, Jr., and Hal C. Dilworth, Jr.; and a contracting officer, Jerry M. McMurry.

The first Patriot battalion is now winding up its training. In order to get the missile fielded early next

year, "half-battalions" with three firing units instead of six will be deployed initially and "backfield" later.

Patriot is a new medium and high altitude ground to air missile that can destroy many aircraft simultaneously. It uses a new guidance concept called track-via-missile. As the missile nears its target it informs the ground-based radar of its location to its target. Ground-based computers then direct the missile on a path to insure a kill. Patriot uses a proximity-fused high explosive warhead so that it need only pass near its target to destroy it.

Patriot's mobility, immunity to countermeasures and capability in saturation air attacks are new to Army air defense.

Patriot is being built to replace the Hawk and Hercules air defense systems. The system is mounted on wheeled vehicles with only four pieces of equipment to a firing unit—a radar set, engagement control station, power plant and launcher. It operates with substantially less equipment and fewer personnel than the systems it will replace. Its multi-function phased array radar does the work of several separate radars in the older systems.



LAUNCH—Patriot leaves a fiery trail as it comes out of the launcher in a test firing.

Patriot emblem displayed on colorful quilt

The old American tradition of quilting is alive and well and on display at Patriot project office. The quilt sporting the Patriot logo was handmade by 20 women as a symbol of their support of the work their husbands do at Patriot.

The idea originated at the Patriot open house last summer. It was the first time for the wives to see the missile system and it left such an impression on Geni Curtze and Martha Oldacre that they created a design for a quilt.

"This is one of many things we've done," said Oldacre. "And we wanted to do something that would bring us together like Mrs. Bunyard wanted us

to be." Celia Bunyard, wife of Maj. Gen. Jerry Bunyard, headed the Patriot wives group.

Geni, wife of German Lt. Col. Hans Curtze, recently learned the old American tradition of quilting and Martha, wife of A.Q. Oldacre, assistant project manager for international operations, remembered bits and pieces of how to quilt from watching her mother and grandmother.

Geni had just completed quilting lessons and made her first quilt when the Patriot quilt idea developed.

"The Patriot quilt was the first I have made the traditional way," said Curtze. "We worked on a frame the old traditional way."

Before undertaking such a project, practice pieces were used to refresh some and teach others how to quilt.

After the design was completed, 730 hexagons, a shape representing the radar on the Patriot system, were cut out of paper then covered with fabric.

Piece by piece the ladies hand-stitched the quilt together while sitting around a frame the size of a double bed. The 20 ladies worked four hours a week and it took four months to complete the quilt.

The quilt was presented to Maj. Gen. Bunyard for the project and is on display in the Patriot project office in Research Park.

Her crafts are dolls and quilts

BY GINGER STEPHENS

World War II was raging the year Geni Curtze was born in Germany so necessities like food were a luxury and luxuries like dolls for little girls to love were scarce.

At 10 years old, Geni was given her first doll to be shared with her twin sister. From that point on her fascination with dolls has developed into a craft of designing anything from marionettes to porcelain dolls.

"It makes me feel good to do something that other people like to have," said Geni. "I never relax more than when I design a new doll."

Geni really did not get into doll designing until after her two sons were born. Although she makes various kinds of dolls, puppets, and stuffed animals, she is concentrating on porcelain and Bavarian dolls while in America.

The porcelain head, hands, and feet she designed are fired in a famous porcelain factory in Germany. Geni hand-paints a different facial expression on each porcelain doll and makes the clothes from the original fabric of the country the doll represents.

The "Heidi" dolls are crafted in the original Swiss method and wear costumes she makes out of fabric from Switzerland.

"Bavarian dolls are popular in America," said Geni. So popular that she occasionally teaches classes on how to make them at the officers club.

She is now making porcelain dolls with Bavarian dirndl costumes.

"I have to make one kind of doll at a time," said Geni about the different dolls she makes and sells at craft shows.

Other than selling her dolls, she has also used them to help emotionally disturbed children.

While in Germany, Geni taught preschoolers, who had a difficult time communicating to adults, to talk to her dolls. A language disability had developed in the children because they did not have the chance to use it.

Mothers watched their children respond while Geni told a story using her doll. She then taught the mothers how to use the dolls to help their children at home.

"These mothers had forgotten how to play," she said. "They were so involved in their careers that they didn't have time to listen to their children."

Coming from a family of nine children, Geni came to America for the first time in 1965 to help her brother, a chaplain in El Paso, Texas, work with German youth groups.

Geni met her husband, Hans, in El Paso then moved back to Germany. This is her second time to live in America and she "loves it".

Doll collecting in America is a bigger hobby than Geni imagined. Although she is not a doll collector she does keep pictures of the dolls she designs.

Her friend Martha Oldacre has bought three of Geni's dolls as keepsakes for her daughter.

"Knowing Geni as I do, she wants to be able to express her ideas through her dolls. She's very talented," said Martha.

Geni's newest hobby, quilting, is exciting but altogether different.

"I love quilting, but I feel I can express myself better through designing dolls," said Geni.



DOLL MAKER—Geni Curtze shows porcelain dolls. Her dolls have been used to help disturbed children



A DOLL'S EYES show fine detail in this closeup.

MMCS looks at new missile's maintenance

BY SHEILA WALKER

The Materiel Systems Division of MMCS Combat Developments in coordination with the Patriot Project Office, TRADOC and Fort Bliss are in the process of acquiring maintenance information on the Patriot missile system.

"The Patriot system is not taught here at Redstone. All of the Patriot equipment is at Fort Bliss where they train personnel to operate and to do low-level, on-site maintenance on the Patriot," said SSgt. Paul Walls, Patriot logistics NCO at the Materiel Systems Division.

"What we're doing here in the school is coordinating with Bliss, the Patriot Project Office and TRADOC to find out what kind of maintenance program the Patriot will require.

"We will formulate an opinion with the data we collect. So will Bliss and other organizations involved. All opinions will be considered and a compromise reached. All of these organizations closely work together. We work hand in hand. No one organization is responsible for implementing the entire program," he said.

Walls went on to explain the advantages of the Patriot system over the system it replaces. "The Patriot system has a letter tracking and a better radar system. It needs only one radar to look for the target, track the target and to track the missile once it has been fired. The Nike/Hercules system needed four radars to perform the same function," he added.

Walls also pointed out that because the Patriot system is such an upgraded system, it needs less personnel to maintain and operate it. The reliability of this system is better.

"There is an established need for a maintenance program for the Patriot. We need personnel trained in a higher level of maintenance than the operators or the on-site personnel can perform. We want some personnel trained to be intermediate maintenance personnel.

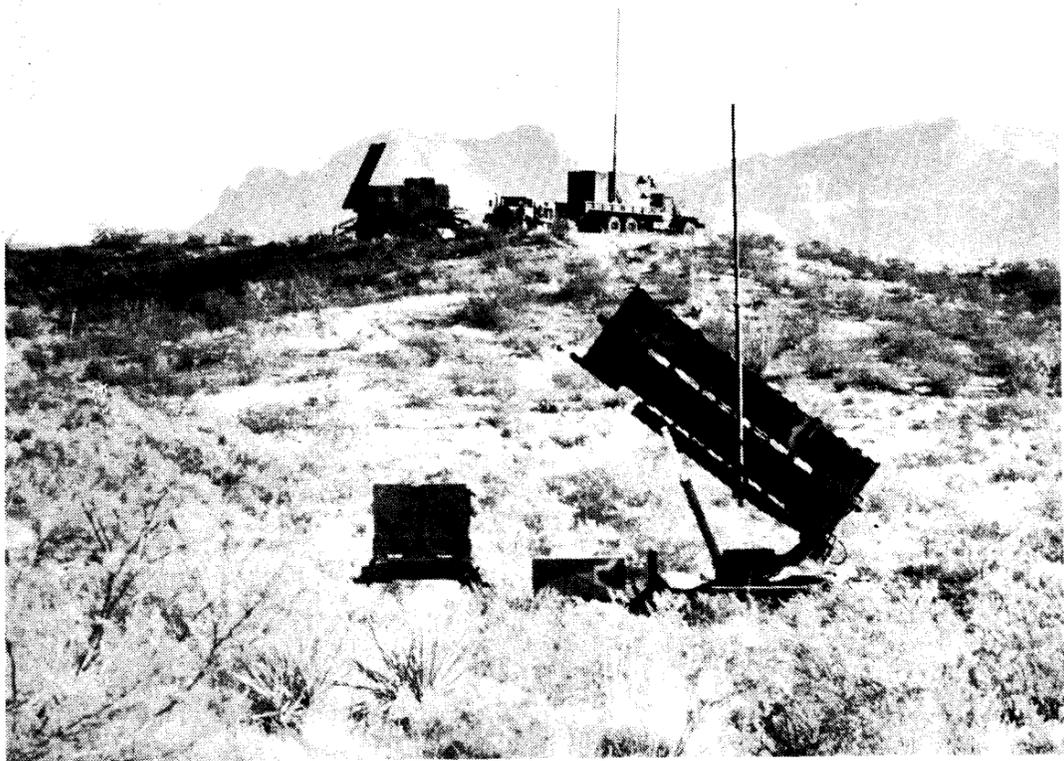
"Right now we are primarily looking for personnel in career field 23 to train. This in-depth training is

provided by the Raytheon facility in El Paso, Texas. Redstone will monitor the program. This is not an MOS producing school. The graduates of it will get an additional skill identifier, and will be assigned to Patriot support units in the field.

"In the future, the school will be taught here or at Bliss. It's in the transitional period of being converted from a civilian school to an Army school. It's being revised slightly to fit Army standards. Eventually it will be a one-hundred percent Army program."

Any person interested in attending this school should contact their personnel center and submit a 4187 if they meet certain prerequisites.

These prerequisites include being an E5 promotable male, having 30 months retainability after the completion of the school, meeting height/weight requirements, having a score of 110 on the electronics portion of the GT test, prior electronics background and be willing to be reassigned to Fort Bliss after completion of the school.



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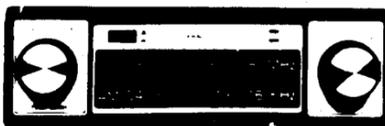
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\$37,291 Awarded

Disabled Marine Wins Reemployment Lawsuit

A disabled Marine veteran has been awarded more than \$37,000 in back pay as a result of a suit brought at the request of the Labor Department against the city of Philadelphia for failing to reinstate the veteran in a job after he returned from military service.

Under federal veterans' reemployment rights law, veterans are entitled to reinstatement to their preservice job or, if they are incapable of performing that job because of a service connected disability, to a job they can perform—with comparable seniority, status and pay.

Joseph F. Ryan, Jr., 33, served in the Marine Corps in the 1960s. He worked for the city of Philadelphia

from 1971 until 1976, when he left his job as a corrections officer to re-enlist.

After being honorably discharged for medical reasons in 1980, Ryan applied for reemployment with the city but was not rehired. He then sought assistance from the Labor Department's Office of Veterans' Reemployment Rights (OVRR).

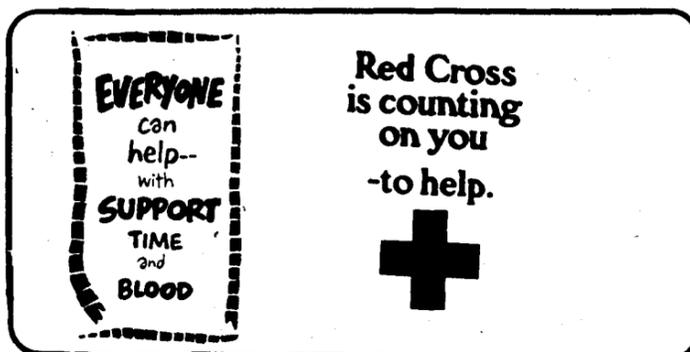
After meetings with the OVRR, city officials agreed Ryan was entitled to reemployment even though his medical condition prevented him from resuming his former job as a corrections officer. He was subsequently offered three positions but they were not similar in pay to his former position.

After failing to work out a voluntary settlement with the city, OVRR referred the case to the Justice Department, which filed suit on behalf of Ryan. A U.S. District Court judge ruled that Ryan was not required to accept any of the lower paying jobs and ordered the city of Philadelphia to pay him the approximate amount he would have earned while living in Philadelphia, had the city complied with the law. (In 1982 Ryan moved to New Jersey, at which time he withdrew his claim for reemployment.) The back pay plus interest amounted to \$37,291.

For information regard-

ing reemployment rights or for assistance in cases where reemployment rights for a veteran may have been violated, contact the Office of Veterans' Reemployment Rights, listed under the

Labor Department, in the U.S. Government section of your telephone book. Or write to: Office of Veterans' Reemployment Rights, Department of Labor, Washington, D.C. 20216.



Columbia College

REDSTONE ARSENAL EXTENDED STUDIES CENTER

SESSION IV — AUGUST 8 - OCTOBER 1, 1983

INSTRUCTOR	COURSE NO.	COURSE TITLE	PREREQUISITE	DAYS	TIME
Smalley	BUS 150	Introduction to Business	NONE	MW	5:00-7:30
Yates	*ENG 100	Reading and Study Skills (Free course—No tuition charged)	NONE	MW	5:00-7:30
Traylor	GOVT 340	Judicial Process	NONE	MW	5:00-7:30
May	PSY 461	Counseling Process (Prerequisite to College Algebra)	PSY 101	MW	5:00-7:30
Dodson	BUS 321	Small Business Management	NONE	MW	5:00-7:30
Yates	BUS 321	Small Business Management	BUS 150 or Instr. Perm.	MW	7:30-10:00
May	ENG 111	English Composition I	NONE	MW	7:30-10:00
Smalley	PSY 101	Introduction to Psychology	NONE	MW	7:30-10:00
Jones	BUS 396	Corporate Finance	BUS 281 or 296	MW	7:30-10:00
Shepard	CS 110	Computer Literacy-Basic/Basic	NONE	MW	7:30-10:00
Shepard	BUS 231	Principles of Marketing	BUS 150 or Instr. Perm.	TT	5:00-7:30
Moon	CJ 351	Probation and Parole	CJ 101	TT	5:00-7:30
Dyar	ENG 112	English Composition II	ENG 111	TT	5:00-7:30
Patty	MA 250	Statistics	MA 150 or Instr. Perm.	TT	5:00-7:30
Foster	BUS 260	Principles of Management	BUS 150	TT	7:30-10:00
Thomas	BUS 393	Management Information Systems	BUS 190 or 291 or 292	TT	7:30-10:00
Dyar	ENG 342	Mark Twain and His Age	Soph. Standing	TT	7:30-10:00
Bill	CJ 101	Introduction to Criminal Justice	NONE	TT	7:30-10:00

ACADEMIC CALENDAR—SESSION IV, AUGUST 8-OCTOBER 1, 1983

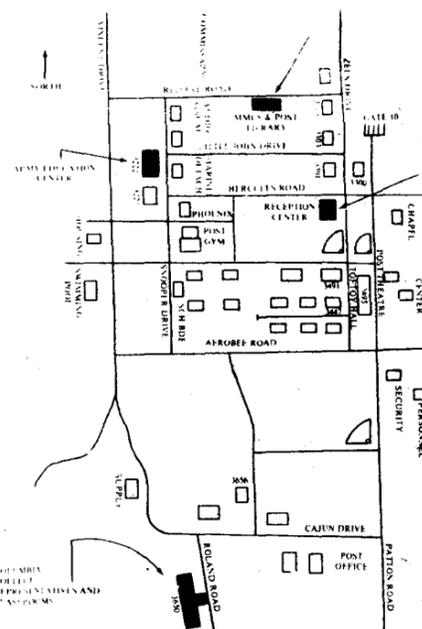
Registration Begins	July 11
Classes Begin	August 8
Late Registration	August 16
Tuition Assistance Form Deadline	August 8
Last Day to Drop without Penalty	August 19
Classes End	October 1

Classes are open to ACTIVE DUTY MILITARY, THEIR DEPENDENTS AND CIVILIANS employed on Redstone Arsenal. The Columbia College office is located in BLDG. 3650 on Roland Drive. Office hours are 8:30-4:30, Monday through Friday. Tuition Assistance students should see an Education Counselor at the Army Education Center for TA forms.

PHONES: 881-6181 or 876-4851

Counseling and registration are available on a walk-in basis.

*NOTE: COME IN FOR INFORMATION ABOUT OUR NEW ASSOCIATE IN SCIENCE DEGREE-DATA PROCESSING. READING AND STUDY SKILLS IS A TUITION FREE COURSE AND STUDENTS RECEIVE THREE SEMESTER ELECTIVE CREDIT FOR THE COURSE.



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Huntsville, Ala.

Organization Day big success

BY SHEILA WALKER

Blue skies and hot weather lent the backdrop for MMCS' birthday celebration. The several months of planning culminated in a successful Organization Day.

The turnout was good for the all-day party that included a picnic lunch, music, door prizes and trophies to the winners of the various competitions scheduled throughout the day.

In unit competition, the tug-of-war first place trophy went to the Marines. Second and third place trophies went to the 5th and the 6th Student Companies respectively.

The Marines also captured first place in the volleyball competition. Company A won the second place trophy and FSSO took home the third place trophy.

The 7th Student Company took the first place trophy for the izzy dizzy competition, with the second place trophy going to the 6th Student Company and the third place trophy going to the 4th Student Company.

Once again the Marines topped the competition to take home the first place trophy for the wheelbarrow race. The 7th Student Company came in second. The 6th Student Company won the third place trophy.

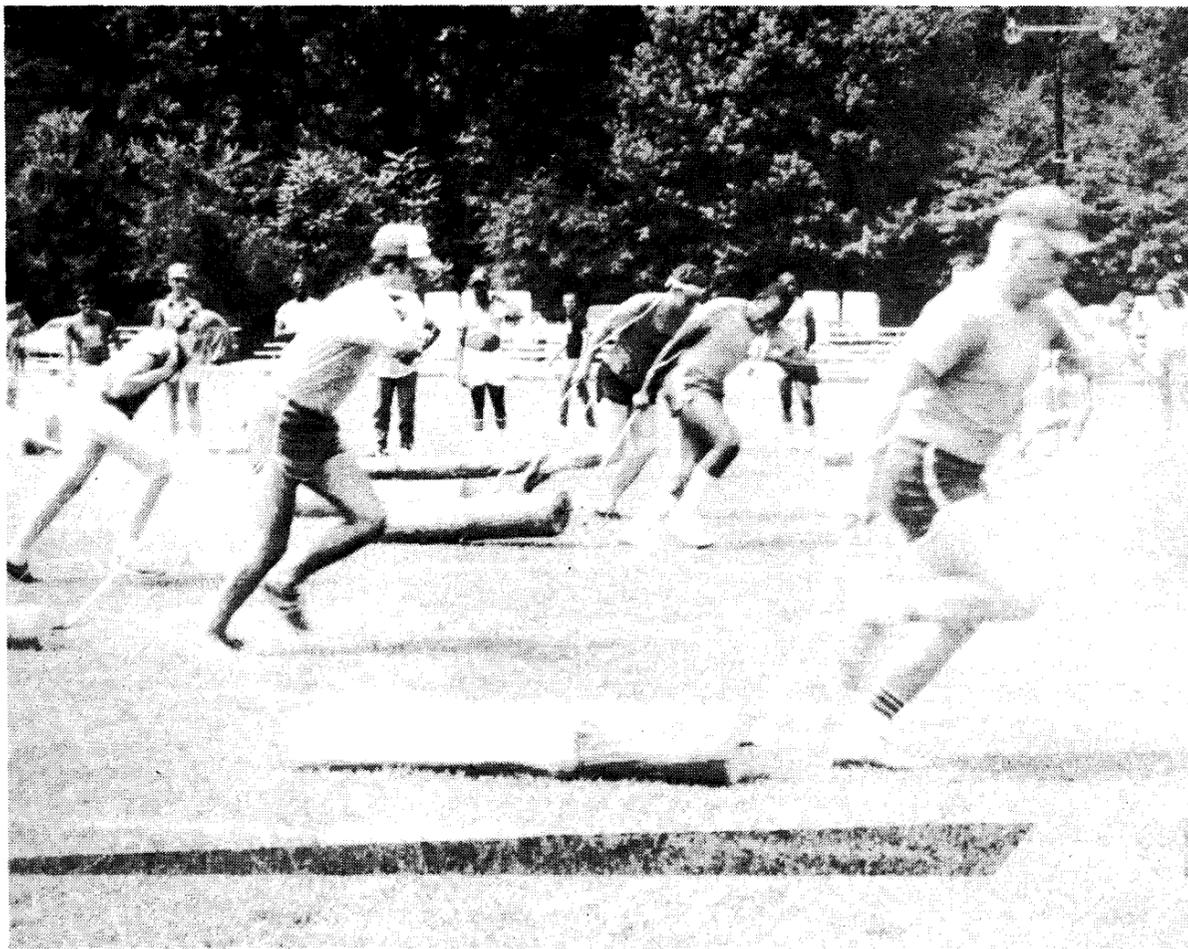
The 6th Student Company forged ahead and captured first place in the piggyback event. Second place went to the Marines.

Michael Hudson of the 7th Student Company ran the top race in the sack race competition. Another 7th Student Company soldier, Nelda Percival, placed first in the balloon burst.

The Marines' Gary Bruno took home the first place trophy for the log pull, and A Company's Charles Nelms won the first place trophy for the egg race.

Door prizes were awarded throughout the day. The grand prize for the day was a 19-inch color Curtis Mathes television won by Doris Griner, wife of Brigade Sergeant Major, Elidge Griner.

D.C. Ron's sweet and funky disco provided all day music, complete with smoke effects and music to suit all tastes.



The 100 degree weather didn't stop these guys from giving their all during individual competition in the log race.

Most people said that they had a great day. Sgt. Maj. Wincente Tainatongo, Sergeant Major of DOL explained it this way, "I believe the planning and the preparation for the Organization Day along with the good management made this event so successful. It

motivated the soldiers. It is a morale factor. Everybody looks like they're doing everything they can do to make it a good day, and I want to thank them. I especially want to thank the clubs, the chapel and other organizations that gave us their support."

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SFC Ron Henry, who provided music for organization day, sets up equipment for "DC Ron's Sweet & Funky Disco."



Cassie Smith and Angel Whit display the ribbons they won during the children's competition. Angel won 2nd place in

the three-legged race and Cassie took 2nd place in the 50-yard dash. (Photos by Sheila Walker)

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1976 MAVERICK 4 dr. ONLY \$400 DOWN \$875 financed for 12 months, total of pmts. \$1070.88, 22.5% APR.	\$89²⁴ MONTH	1978 GRAND PRIX ONLY \$650 DOWN \$4,000 financed for 36 months, total of pmts. \$5,863.32, 17.42% APR.	\$162⁸⁷ MONTH	1980 CITATION 4 sp. ONLY \$650 DOWN \$2,500 financed for 36 months, total of pmts. \$3,776.40, 15.50% APR.	\$104⁹⁰ MONTH
1970 VW CUTAWAY ONLY \$350 DOWN \$800 financed for 12 months, total of pmts. \$979.08, 22.49% APR.	\$81⁵⁹ MONTH	1977 THUNDERBIRD ONLY \$500 DOWN \$2,500 financed for 30 months, total of pmts. \$3,586.20, 20% APR.	\$119⁵⁴ MONTH	1980 SKYLARK 2 dr. ONLY \$500 DOWN \$3,500 financed for 36 months, total of pmts. \$5,159.52, 17.87% APR.	\$143³² MONTH
1978 PLY. SAPPORO ONLY \$500 DOWN \$2,200 financed for 24 months, total of pmts. \$2,919.12, 18.25% APR.	\$121⁶³ MONTH	1978 THUNDERBIRD ONLY \$500 DOWN \$3,500 financed for 36 months, total of pmts. \$5,159.52, 17.82 APR.	\$143³² MONTH	1982 CHEVETTE 4 SPEED & AIR Only \$650 down, \$3,500 financed for 42 months; total of pmts. \$5,454.96, 15.50% APR.	\$129⁸⁸ MONTH
1977 OLDS 88 ONLY \$500 DOWN \$2,500 financed for 24 months, total of pmts. \$3,356.16, 19.48% APR.	\$139⁸⁴ MONTH	1978 THUNDERBIRD ONLY \$750 DOWN \$3,500 financed for 36 months, total of pmts. \$5,506.56, 17.58% APR.	\$152⁹⁶ MONTH	1981 CHEVETTES 2 of \$500 DOWN \$3,400 financed for 42 months, total of pmts. \$5,083.26, 15.50% APR.	\$121⁰³ MONTH

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Catfish studied for DDT solution

BY ED PETERS

A research team is seeking solutions to Redstone's DDT problem in a house trailer full of aquariums with catfish in them.

Researchers from Olin Corp. have placed small catfish in aquariums containing DDT sediment in experiments to determine the relationship between DDT in creek bottom sediment and DDT in catfish.

For the experiments some 2,400 small catfish have been placed in 44 aquariums of 55 and 30 gallon size. DDT sediment from Huntsville Spring Branch and Indian Creek has been placed in the bottoms of the aquariums.

To simulate the creek environment, aquariums are draped in black plastic to lower the light level and river water is being used.

Fish will be removed from the aquariums and analyzed for DDT uptake at 10 day intervals.

Under a federal court settlement Olin is taking DDT cleanup measures that reduce DDT levels in local fish to five parts per million.

"The main thing we want to know is what concentration (of DDT in sediment) will produce five parts per million (DDT in fish)," said Keith Roberts, a chemical engineer with Olin's environmental affairs group based in Charleston, Tenn.

Roberts is in charge of Olin's DDT work on the arsenal. He has worked here off and on for a year while the chemical company which formerly operated a DDT factory on the arsenal has studied pollution resulting from factory residue and how to clean it up.

Sediment for the experiments was gathered from four creek locations. DDT content of the sediment samples ranges from none to 300 ppm. The sample free of DDT is being used in "control" aquariums.

Catfish in cages have been placed in the creek at the four sediment-taking locations. These fish will be examined to see if what happens to fish in the aquariums is comparable to what happens to fish in the natural environment.

Olin is counting on the experiments to tell them how much DDT fish accumulate from being exposed to DDT sediment at the different levels found in Huntsville Spring Branch and Indian Creek. With this knowledge they hope to fashion particular remedies for the different DDT levels and different geography of the creeks.

"There are 11 miles or so of channel we're concerned about," said Roberts. "The region is so different from one point to the next—narrow, wide, deep shallow. We've really got to look at it on a case basis. It may be feasible to install one remedial action in one area and may not be in another area."

One potential remedial measure is being evaluated in the aquarium study. Sediment in some of the aquariums has been covered with a tough woven plastic material. The Olin researchers are interested in finding out if the cloth-like material will hold DDT in sediment in place and if it will stop uptake in fish. In earlier experiments the material worked well in containing mercury which behaves in some ways like DDT, according to Roberts. He said it may prove feasible to isolate con-



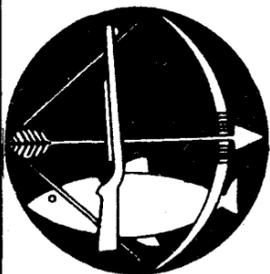
CATFISH—Chuch Newton gathers up catfish for use in experiments. The fish were kept temporarily in an above-ground swimming pool at the Olin Research Facility here.

taminated creek bottom sediment with the material.

Ultimately, he said, Olin aims to remedy the DDT problem the quickest way, that is most cost effective, with the least harm to the environment.

The aquariums are set up in a 60-foot house trailer specially reinforced to hold the 44 aquariums and seven tons of water that fills them. The

(Continued on Page 21)



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DDT

(Continued from Page 20)

trailer is parked near the arsenal's main water treatment plant. Water pumped from the Tennessee River circulates through the aquariums continuously.

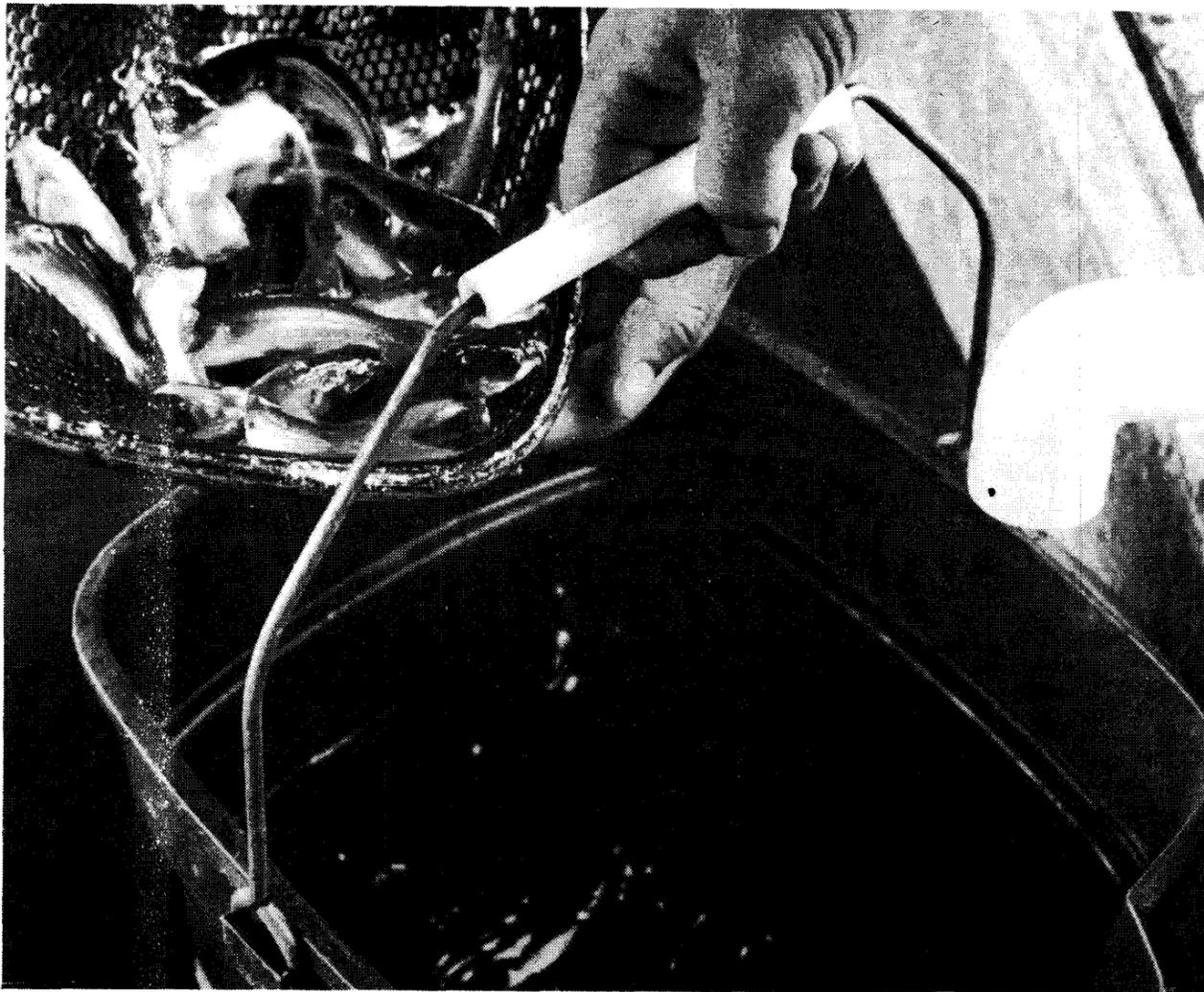
Working with Roberts on the study are Olin biologist Marty Smithson, Gayle Meyers, a chemical engineer, and several technicians.

A University of Tennessee consultant is handling the set of experiments on caged fish that have been placed in the creeks. Auburn University is conducting a study of macroinvertebrates, small organisms in sediment that fish feed on. Both universities are assisting Olin in studying fish data gathered earlier. Olin has already collected 1,500 fish samples from area streams, along with many water and sediment samples. "We're using people from the universities to make sure the tests are as scientific as possible," Roberts noted.

The researchers are looking at catfish because repeated earlier studies have shown they exhibit the highest DDT levels found locally in fish. "We feel if we can bring the parts per million down in catfish, we can bring it down in the other species. The other species aren't contaminated nearly as bad" as catfish, Roberts said.

Under the court agreement Olin has 10 years from completion of an initial remedy to attain the five parts per million level in three "performance standard" species—channel catfish, smallmouth buffalo and largemouth bass.

Roberts explained that the study is being conducted in three phases lasting



FISH ARE COUNTED, then placed in aquariums where they will be exposed to DDT. From the experiments Olin will gain knowledge to use in devising solutions to the DDT contamination problem in arsenal streams.

through December. In the initial two-month phase catfish will be examined at 10 day intervals to determine their DDT uptake from sediment.

How they are affected by food con-

taining DDT will be determined in the second phase and a third phase will involve putting the contaminated fish in clean water to determine how long it takes them to excrete the DDT from

their bodies "so we can find out, once we go in and take remedial actions, how long it will take for them to get back down to five parts per million," Roberts said.

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Military Athletes Compete Worldwide

Runners, jumpers, ball hitters and kickers, and other sports minded persons in the Armed Forces need not give up their interest in sports or their desire for athletic competition, say officials of DoD's Interservice Sports Committee.

The military services conduct a worldwide sports program to promote physical fitness among the troops and to provide each individual an opportunity to participate in an organized sport of his or her choosing, at increasing levels of competition.

The chain of progression starts with each service's sports program. Here, an athlete may compete at the unit level and, depending on ability, proceed through the installation, command and all-service levels. After selection to the all-service team, athletes have available six higher levels of sports competition, conducted under the cognizance of the Interservice Sports Committee. These are:

1. Interservice championships
2. National championships
3. International military sports championships (CISM)
4. Pan American Games
5. Olympic games
6. World championships and international tours organized by national governing bodies of the various sports.

Up to the time athletes reach the all-service team level, they train and compete, for the most part, during their free time, concurrently performing regular military duties. But during the time they are with their all-service squad, they are placed in concentrated training for a short period of time.

During the interservice championships, the best

INTERSERVICE AND NATIONAL SPORTS CALENDAR			
July through December 1983			
		INTERSERVICE	NATIONAL
SPORT	DATE	HOST SERVICE/SITE	HOST, SITE & DATE
Tennis (M & W)	24-29 July	USAF Randolph AFB, Texas	
Softball (M)	7-13 Aug.	USN Port Hueneme, Calif.	ASA (Class A) Waterloo, Iowa 2-5 Sept.
Softball (W)	14-20 Aug.	USA Ft. Indiantown Gap, Pa.	ASA (Class A) Sacramento, Calif. 2-5 Sept.
Golf (M & W)	28 Aug.-3 Sept.	USN PGA National Golf Club W. Palm Beach, Fla.	
Soccer	18-23 Sept.	USMC Marine Air Corps Station El Toro, Calif.	
Racquetball (M & W)	16-21 Oct.	USN Norfolk, Va.	
Boxing	26 Oct.-5 Nov.	USA Mannheim, West Germany	USAABF US Amateur Indianapolis, Ind. 28 Nov.-3 Dec.

competitors from the four all-service teams, in team sports, are selected to comprise an Armed Forces team. After a short period of intensive training, this team represents the United States Armed Forces in national championships, CISM championships and U.S. Olympic and Pan American games trials. In individual sports, interservice champions make up the Armed Forces team

when competing in higher level competition.

To compete in higher level competition you will need four things:

1. An application which you may get from your sports office.
2. A certificate of amateurism.
3. Your local commander's release.
4. Your major command's endorsement.

Once you have these four

requirements, forward them to your sports office, which will send them to the higher level sports office of your branch of service and that office will contact you.

Contact the sports/physical activities office at your base or installation for further details or for general information on how you may become involved in the military sports program.



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HUNTSVILLE

-Announcements-

Warrant officer applicants

Effective Oct. 1 there can be direct appointment to CWO 2 for warrant officer applicants in enlisted grades E7, E8, and E9. Applicants must meet the warrant officer eligibility criteria and mandatory prerequisites. In addition the prerequisites for ordnance warrant officer specialties 260A, 271A, and 411A have been changed. They can now allow "soldiers in grade E5 who have completed one constructive MOS producing school and who have a minimum of four years experience in the career field to apply for appointments," officials said. Personnel interested in competing for a warrant officer appointment should call the MMCS Propensity Branch 876-1428/2743.

Youth soccer camp

Registration is under way for the first Redstone Arsenal Youth Soccer Camp. The camp will be held Aug. 15-19 on the arsenal and will be conducted by the Alabama A&M University soccer coaching staff. Military family members, age 6-18, are eligible to attend. Registration will be at building 114 from 8-4:30 Monday through Friday until Aug. 1. For more information, call 876-5437.

'Annie' show

The show "Annie" will be performed at the Whole Backstage Theater on Rayburn Ave. in Guntersville at 8 p.m. July 29-30, 2 p.m. July 31 and 8 p.m. Aug. 4-6. Tickets at the door are \$3 for children and senior citizens and \$6 for adults.

Recreation center

Today—Movie "Sword & the Sorcerer" at 2:30 & 6:30 p.m. Shuffleboard at 7 p.m. Thursday—Movie "Dragon Slayer" at 2:30 & 6:30 p.m. Bingo at 8:30 p.m. Friday—Movie "Clash of the Titans" at 2:30 & 6:30 p.m. Crossword at 7 p.m. Saturday—Risk tournament. Free ice cream cones at 2:30 p.m.

LRC

The learning resource center will begin scheduling employees for the Military Correspondence Procedures and Office Practices course immediately. The course is designed to acquaint new employees with the regulations of Department of the Army correspondence. To apply submit a DD Form 1556 to Civilian Personnel Office, ATTN: DRSMI-JTE/LRC, bldg. 7446.

Warrant Officers

The Warrant Officers Association will meet at 11 a.m. Aug. 3 at the Redstone Officers Club. All warrant officers, including non-members, are invited. For more information, call CWO 2 Bobby Blount 876-7720/8379.

Wine tasting

The Huntsville Chapter of Les Amis du Vin (Friends of Wine), an international wine tasting society, will meet Monday, Aug. 1 at the Huntsville Hilton. Pat Looney, wine manager for S&S Distributing Company of Huntsville, will present a program on Italian wines. A tasting of Bolla Italian Wines will be featured. For more information or mandatory tasting reservations, call 883-4150 or 883-1495 in the evening.

N.C. Vietnam veterans

A Vietnam veterans memorial is to be established in Raleigh, N.C. to honor the men and women from North Carolina who served in Vietnam. Approximately \$300,000 is needed for the memorial. Tax deductible contributions can be mailed to North Carolina Vietnam Veterans Memorial Committee, P.O. Box 31048, Raleigh, N.C. 27622. The telephone number is (919) 851-0123.

Carpool Hotline



Two carpool members needed from the Guntersville area to bldg. 3300 area, hours 7-3:30. Sue Whitman 876-2990.
Flintville/Park City

Carpool needed from Flintville/Park City, Tenn. area to bldg. 5250, hours 6:30-3. Linda Simmons 876-7211.

Downtown

Ride wanted from downtown area (Locust Street between Adams and California) to 7476, hours flexible. David Kieselbach 876-6256/6297.

Arab

Carpool member wanted from Arab to 4505 or 4488, hours 7:30-4. Doug Leak 876-1265.

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Could you pass this Red Cross swimming test?

- SWIM:
1. Breaststroke—100 Yds.
 2. Sidestroke—100 Yds.
 3. Crawl stroke—100 Yds.
 4. Back crawl—50 Yds.
 5. On back (legs only)—50 Yds.
 6. Turns (on front, back, side).
 7. Surface dive—underwater swim—20 Ft
 8. Disrobe—float with clothes—5 mins.
 9. Long shallow dive.
 10. Running front dive.
 11. 10-minute swim.

Anybody who's taken a Red Cross swim course knows how tough it can be. There's a good reason. We believe drowning is a serious business. Last year alone, we taught 2,589,203 Americans not to drown—in the seven different swim courses we offer all across the country. (Incidentally, most of the teaching—as with almost everything American Red Cross does—is done by dedicated volunteers.) A good many of the youngsters not only are learning to keep themselves safe. Thousands upon thousands of them are learning to become lifesavers. And the life they save—it just might be your own.



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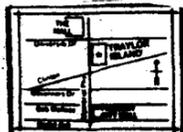
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PRE-REGISTRATION

ATHENS STATE COLLEGE REDSTONE OFFICE

July 25 - August 12 9:00 - 4:00 p.m. Monday - Friday

Payment Must Be Made On August 30

Between 3:00 p.m. & 5:00 p.m.

Recreation Center at Redstone Arsenal

Main Office: 232-1802
RSA Office: 876-7561

Toll Free Within 70-Mile
Area of Athens: 1-232-6991

REDSTONE ARSENAL - DAY CLASSES

Monday/Wednesday 8:00 am - 10:00 am

BU/PO 319 Intl. Commerce	Joiner	5	3650
MK 331 Mkt. Principles	McCall	5	3650

Monday/Wednesday 10:10 am - 12:10 pm

EH 304 *Southern Literature	Laubenthal	5	3650
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Tuesday/Thursday 10:10 am - 12:10 pm

BU 305 Stat. Metho. of Business	Campbell	5	3650
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Tuesday/Thursday 12:20 pm - 2:20 pm

HY/PO 302 Great. Am. Issues	Hayes	5	3650
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REDSTONE ARSENAL--EVENING CLASSES

Monday 6:00 - 10:10 pm

AC 321 Int. Acct. I.	Lowvorn	5	3650
EC 415 Managerial Finance	Edmondson	5	3650
HU 312 Beginning. French Conversation	Joiner	5	3650

Tuesday 6:00 - 10:10 pm

AC 450 Government Accountion	O'Halloran	5	3650
BU 311 Legal Studies I	Staff	5	3650
MG 349 Personnel Magmt.	Staff	5	3650

Wednesday 6:00 - 10:10 pm

BI 343 Life Manipulations	Jandebeur	5	3650
BU 460 Env. Hlth & Safety	Saywell	5	3650
HY 313 Europe Vic. Age	Caudle	5	3650
MK 433 Mkt. Strategies	McCall	5	3650

Thursday 6:00 - 10:10 pm

AR 340 *Visual Arts	Johnson	5	3650
CS 440 Database Systems	Zorn	5	3650
EC 321 Money And Banking	Haynes	5	3650
EH 330 *Landmarks West. Cult.	Hayes	5	3650

Friday 6:00 - 10:10 pm

BU 305 Stat. Methods of Bus.	Burton	5	3650
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Tuesday 4:00 pm - 8:00 pm

VE 433 Matl. In Voc. Ed.			MMCS
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Thursday 4:00 pm - 8:00 pm

PS 335 Adult Psychology			MMCS
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MMCS

Ermer	5	
Staff	5	



NOTE: This will be the only period of registration at Redstone Arsenal. Registration priority is given to military active duty, retired military, military dependents, Redstone Arsenal employees, and government employees at the Redstone Arsenal. Other individuals will be admitted on a space available basis.