

# Redstone Rocket

## Nation honors war prisoners and those still missing

WASHINGTON—It's been a little more than a decade since the fall of Vietnam. Seems like everybody's doing their own version of "Vietnam: 10 Years After."

On the mall in Washington, D.C., hundreds of thousands, maybe even a couple million, tourists, residents and veterans have strolled down the now familiar walk which runs adjacent to the Vietnam Veterans' Memorial.

It's a stark memorial, slabs of dark, polished marble etched with thousands and thousands of names. Names of soldiers, sailors, airmen, Marines, civilians. Names of the 50,000-plus who died during the Vietnam war.

Among them are the names of nearly 2,500 missing servicemen and civilians. They have yet to be accounted for. The nation recognizes them, as well as the missing from other wars and former POWs, on POW/MIA Recognition Day, July 19.

Not far from the memorial stands a tent, one of those catalog order ones that sleeps "six to eight, comfortably." Fifty state flags, soiled from the passage of time, line the sidewalk leading to the tent.

There's a table in front of the tent, and as people pass by, a voice calls out for them to stop.

"Don't forget our POWs," says the guy behind the table. A couple of lists with what appears to be thousands of names lay on the table. Names and addresses of people from all over the U.S., even some from outside the U.S. People who don't want to forget the POWs, the MIAs.

According to the man behind the table, veterans have been working out of the tent on the mall for "a

long time." Tourists visiting Washington can't help but see the display on Constitution Avenue. The vets are trying to keep people aware of the POW/MIA issue. Other public and private organizations are also trying to keep the public aware of the POW/MIA issue.

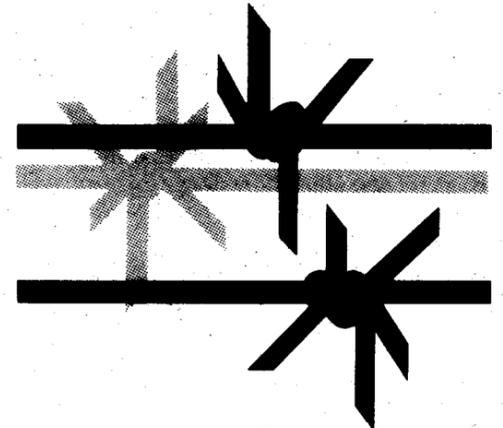
So is the government. As a matter of fact, "The United States government considers resolution of the POW/MIA issue a matter of the highest national priority." So writes Secretary of Defense Caspar W. Weinberger in a letter introducing the 1985 POW/MIA Fact Book published in February.

### Presidential support

President Ronald Reagan reaffirmed this resolve during a speech at the interment of the Vietnam Unknown at Arlington National Cemetery last year. "We write no last chapters. We close no books. We put away no final memories. An end to America's involvement in Vietnam cannot come before we've achieved the fullest possible accounting of those missing in action."

In attempting to resolve the POW/MIA issue, the U.S. is trying to accomplish three things, according to Air Force Lt. Col. Howard J. Hill, principal advisor to the Secretary of Defense for POW/MIA affairs. "First, we want the return of any and all live POWs," said Hill, who spent five years as a POW in North Vietnam. "Second, we want a full accounting on the missing and third, we want the return of any remains."

The belief that there may still be living American



POWs in southeast Asia has been the subject of great debate since the war ended. Since the fall of Saigon in 1975, according to Hill, the Defense Intelligence Agency has investigated more than 3800 reports involving POWs or MIAs. More than 770 were firsthand live-sighting reports, says Hill.

### Unresolved cases

"Of those 770 reports, 62 percent were found to deal with Americans who have returned or been accounted for," said Hill. "An additional 176 of those reports are known or suspected fabrications and 122 are still unresolved. Files on those unresolved cases will stay open until we can make a determination on their truth or fabrication."

(See War Prisoners cont'd on page 3)

## New challenges on horizon for retiring chaplain

BY SKIP VAUGHN

Redstone's post chaplain for the past five years is retiring and hopes to find a new career in the Huntsville area.

Chaplain (Col.) Delbert Gremmels is leaving the Army at the end of this month after 26 1/2 years of service. Before coming to Redstone in 1980, much of his career as a chaplain was spent in teaching or administration. He is believed to have served as the post chaplain here longer than any of his predecessors.

"I think that it's a good time to go," he says, referring to his retirement. "I'm 55 years old and, to make a transition to something else, I think can be done better at this time than if I'm a little bit older."

Gremmels has enjoyed his time in the Army and looks forward to new challenges as a civilian. "I'm looking forward to see what the future might bring and what the challenges might be. I have nothing but good feelings for the Army, and that is also a good time to get out. I love the Army very much. I love the ministry and working with soldiers and their families," he says.

"I want to do something else, I don't know what it is, but I want to do something different," adds Gremmels. "And as I said, if I'm going to have enough productive years left, I'd better do it now."

He plans to take a couple of months and decide what he's going to do— whether in education, some form of administration, or leading a congregation. He hopes to stay in Huntsville. "We have a home in Madison and I really don't want to leave Huntsville," Gremmels says. "My wife's the same way. We absolutely love it here and we'd stay here forever if we could, but I've got to find something to do."

Gremmels was born in St. Louis but grew up in Chester, Ill., a little town about 60 miles south of St. Louis on the Mississippi River. His wife, Lela, is from the same town. In fact they attended school together up through the eighth grade when Gremmels left to attend a preparatory school in Indiana. His older brother Herman, 58, runs his late father's plumbing and heating business in Chester.

At age 14 Gremmels left to attend Concordia High School and Junior College in Fort Wayne, Ind. In part it was a military school (he wound up as battalion commander of the ROTC unit) but it also provided pre-seminary training for future Lutheran pastors. He was graduated from the junior college in 1950 and went on to Concordia Seminary in St. Louis. In 1955 he was graduated from there with a master of divinity degree and then was ordained as a Lutheran minister.

His first assignment was service as a missionary in Taiwan. He was responsible for four congregations, preaching in Chinese (he learned the language while he was there). He was also director of religious radio programming in Chinese. Programs were produced for Taiwan and also broadcast in Malaysia, the Philippines and Korea. They were even beamed into mainland China. In 1958 he returned to the U.S. at the

request of his church, which wanted him to become an Army chaplain. He initially declined because he didn't feel the time was right to leave his work in Taiwan.

"I came back because my church had asked me to come into the Army as a chaplain and I decided to do it. I told them I'd consider coming in for three years, and that was 26 years ago," Gremmels says. He entered the Army as a first lieutenant chaplain in January 1959.

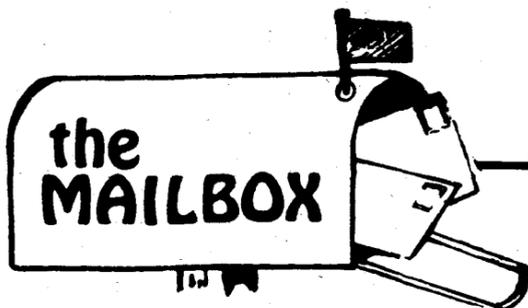
"I'm convinced that the Lord puts you where you're supposed to be, and that's why I came into the Army and stayed in the Army. I'm convinced in my heart that this is what God had intended for me to do," he says.

After the basic course at chaplains school, he had assignments with the 2nd Armored Division at Fort

(See Chaplain cont'd on page 2)



WITH SUCCESSOR — Chaplain (Col.) Vernon Smith will succeed Gremmels as Redstone's post chaplain.



## Tuition assistance

### Editor:

As a service to all military personnel and their family members, education counselors are available at the Army Education Center to discuss individual education and career goals and all education programs and services available to help achieve these goals.

The counselor then refers the individual to the college of their choice to apply for admission, evaluation of previous credit and experience and develop a curriculum plan. The college counselor or advisor will provide each soldier a copy of their approved course selection each term to take to the education center to obtain tuition assistance.

The education center counselor then prepares the tuition assistance form and the service member is required to personally sign a tuition assistance obligation form. Once all required signatures are obtained, the counselor completes the process by filling in the appropriate contract numbers and personally signs the form as Contract Officer Representative.

As an additional service to the soldier utilizing tuition assistance, the education center offers group tuition assistance processing for individuals who have received initial counseling and require no follow-up counseling, and possess the college advisor's approved course selection slip.

The group process is designed to eliminate the requirement for the servicemember to wait for a counselor to process individual tuition applications at the same time as the two counselors are providing initial and follow-up counseling services. However, the option to apply for individual tuition assistance is always available and may be requested at any time during the registration period.

**Mary L. McGough**  
Education Services Officer  
Installation Army Education Center

## Professionalism

A misconception exists concerning the definition of the word "profession." Also adjoined to this misconception is the word "professional" which is also misunderstood. I write within my expertise of engineering, so definitions will be so categorized. First

## DUI results in jail sentences, fines

Driving under the influence charges resulted in two jail sentences and 16 fines in Magistrates Court last week.

The Staff Judge Advocate Office released the following list of DUI cases heard July 9:

— James R. Flack, of Route 3, Somerville, Ala., was sentenced to 10 days in jail, fined \$500, and ordered to attend DUI school.

— Shawnee R. Garrison, of Route 1, Hillsboro, Ala., was sentenced to 48 hours in jail, fined \$500, and ordered to attend DUI school.

— Vickie T. Milam of Huntsville (address not available) was fined \$500 with \$250 suspended, six months probation, and DUI school.

— SSgt. Willie L. Allen of C Company, was fined \$500 with \$250 suspended, 90 days probation, and DUI school.

— Lynn G. Ambrose of Fox Army Community Hospital, was fined \$500 with \$250 suspended, 90 days probation, and DUI school.

— Terry W. Carter, a military retiree, of 3408 McVay Drive, was fined \$500 with \$250 suspended, 90 days probation, and DUI school.

— Mary G. Casey, of 2022-325 Golf Road, was fined \$500 with \$250 suspended, 90 days probation, and DUI school.

— SSgt. Cornelius Corouthers of B Company, was fined \$500 with \$250 suspended, 90 days probation, and DUI school.

let us define some terms. (1) A scientist is a person that discovers and proves the laws of nature, and (2) an engineer is a person that applies the laws of nature for use of mankind.

Let us now approach the definition of profession. The profession or professional is defined by Government and by that definition, a license from the Government is required to practice that profession. Some examples of professions are: Surveyors, medical doctors, pharmacists, nurses, engineers, morticians, lawyers and beauticians. Now let us look at the reasons why Government declares these professions. First and foremost human life is at stake, welfare of human life, and human rights. This obligation by the professional is a tremendous burden. For the undertaking of this responsibility the state requires an examination and license to practice that profession. This assures that the practitioner is capable of performing the services required of his profession. Regulations and codes of conduct by the state govern the profession.

Where do people pull out of the air, so to speak, such terms that imply a profession or professionalism? Is cost estimating, programmer, writer, editor, analyst, clerk, stenographer, draftsman, or librarian a profession?

Engineering was the first profession that required a four year college academic requirement to practice engineering in the year of 1906. Medical college degree requirements came into being in 1912.

Professionalism should be promoted in all categories as recognized by the Government.

**Kenneth Elkins, PE**

## School contributes

### Editor:

We are pleased to report that as we close our fiscal year, a total of \$23,550.08 has been raised locally to support the African Relief Campaign.

The largest contribution from the Huntsville area came from the Redstone Arsenal School Brigade personnel, and the total amount raised has been forwarded to the International Red Cross for distribution.

**T. Kennon Roberson**  
American Red Cross

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.

## Chaplain

(cont'd from page 1)

Hood, Texas; with a Redstone missile battalion in Germany; and with the combat developments command at Fort Ord, Calif. Next he attended the advanced course of the chaplains school. From July 1967 to July 1968, Gremmels served as a chaplain in Vietnam.

"I didn't like being in Vietnam but, as I think back to it, it was probably the most rewarding ministry I've had in all the years of being in the chaplaincy," he says. "Dealing with soldiers who were lonely, who were frightened, a lot of them were wounded; and unfortunately dealing with some who were dying. It was a one-on-one kind of ministry of dealing with soldiers, but it also taught me. I guess I didn't really realize how bad war could be until I was involved in it."

The Army next sent Gremmels to the University of Chicago for a year of study in world religions and cultures. This was in preparation for his next assignment which was as a member of the faculty of the chaplains school at Fort Hamilton, N.Y. From 1969-73 he taught chaplains and chaplain assistants in such subjects as world religions, management, public speaking, and writing.

Gremmels served as assistant director of plans, programs and policies in the chief of chaplains office in Washington in 1973-74. Next he was on the faculty of the Defense Language Institute in Monterey, Calif., where he taught world religions and cultures to the students who were studying language of the various countries. In 1977 he went to Munich and served as director of the U.S. Army-Europe religious resource center. He was responsible for continuing education of the chaplains, chaplain assistants and directors of religious education; supervised activities of various chapel groups; and was responsible for the religious retreat center at Berchtesgaden, Germany.

Chaplain (Col.) Vernon Swim, now Gremmels' successor at Redstone, worked with Gremmels for about two years as director of that religious retreat center. Gremmels, of course, left Germany in 1980 to come to Redstone. Smith, 50, has been the staff chaplain at Walter Reed Army Medical Center in Washington, D.C., for the past three years.

"I think I will miss the camaraderie of the military. I think I'm going to miss a lot of the fine people I've learned to know here," Gremmels says. "I think my staff has probably been the finest that I've had, and I'm certainly going to miss the commanders I've learned to know here, because I've never had the excellent support of command leadership that I've had in the five years I've been here. And I'm going to miss soldiers because I like soldiers, and I'm going to miss them. Particularly the young soldiers because I think being around young soldiers keeps you young."

He and his wife Lela, who celebrated their 32nd anniversary on June 6, have three children, the oldest of whom is married. Karen Kay Cross, 29, is a social worker in Billerica, Mass.; Luther, 25, is director of student union programming at Livingston (Ala.) University while pursuing a master's degree part-time at Tuscaloosa; Molly, 21, was just graduated from the University of Alabama in Huntsville with a degree in business administration and communications.

"And like her father," Gremmels adds with a laugh, "she's out looking for a job."

## THE REDSTONE ROCKET

Editorial Offices . . 876-1500

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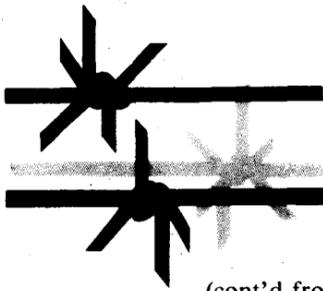
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# War prisoners

(cont'd from page 1)

"Until we know that there aren't any live POWs, until we have evidence to show that all have been returned, we must go on the assumption that there could still be live POWs over there," Hill continued. "This is the reason we're pressing the other side to account for these people."

Some of the more popular movies today deal with former soldiers returning to Southeast Asia in attempts to free live POWs. While this focuses public attention on the POW/MIA issue, the U.S. government does not and will not sanction private efforts to locate live POWs. "We do not condone cross-border forays attempting to locate live POWs," said Hill. "Anyone having any information on live POWs should provide that information to the Defense Intelligence Agency so experienced, qualified analysts can properly evaluate it."

Since the end of the Vietnam war, 105 sets of identifiable remains have been returned from Vietnam and neighboring Laos. The most recent were returned in March when the remains of six servicemen were recovered, identified and returned to their families.

## Crash site

Another recent development was the extensive excavation of a C-130 crash site near Pakse, Laos, last February. The excavation, a joint effort between the U.S. and Laotian governments, resulted in the recovery of remains of some of those who were aboard the aircraft when it was shot down. (Military Person-

nel Center officials announced July 2 that remains of 13 soldiers found in the wreckage have been identified. Families of the 13 service members have been notified.)

"We are encouraged by the results of the Pakse excavation," said Hill. "We're hoping that this is the first in a continuing pattern of progress with the Laotian government on trying to account for the nearly 600 Americans missing in Laos."

This progress, though slow and not as extensive as some would hope, is progress nonetheless. "We're making progress in terms of increasing the intensity of the issues," said Hill. "We're still negotiating with the Vietnamese and Laotian governments. Vietnam has agreed in principle to allow us to conduct a site survey of a crash site in Vietnam. Vietnam has also agreed to increase the number of technical meetings between the Vietnam Office of Seeking Missing Persons and the members of our Joint Casualty Resolution Center from four to a minimum of six a year."

These technical meetings provide the opportunity for both sides to share information concerning POW/MIAs. In the past, some of these meetings have led to the return of remains of those previously listed as POWs or MIAs.

## Identifying remains

Recovered remains are taken to the Army's Central Identification Laboratory in Hawaii, where extensive examination can usually result in the identification of those remains.

"The people at the Central Identification Laboratory have the latest in technology and the best in highly trained technicians," said Hill. "With very little evidence, these technicians can apply their expertise and equipment to come to very conclusive determinations."

As the years go by, people are beginning to realize that the possibility of recovering all remains fades with time. "Realistically, considering the length of time, the types of terrain and the circumstances under which some of our people were lost, we recognize these factors as being limitations in the accounting process," said Hill. "But access, or lack of access, is the primary hindrance. That's why we keep pushing for cooperation and assistance from the Vietnamese and Laotian governments. We know that they have or can obtain information on some of these cases."

## Not forgotten

Until that full accounting is achieved, the United States will continue its efforts to resolve the issue. "It's important that the families realize that we're doing everything we can to resolve the issue of their missing loved ones," said Hill. "It's also important to people still serving in the Armed Forces," he continued. "We want them to realize that in the event of another conflict in which they might turn up captured or missing, we will be making every effort to obtain their release or an accounting of them."

"They will not be forgotten." (Arnews)

# Former prisoner of war still has the memories

(July 19 has been proclaimed national POW/MIA Recognition Day in honor of those who were prisoners of war or missing in action. — Editor)

BY JEFF WATSON

Fall 1944, the United States and her allies had successfully invaded Europe a few months before in the D-Day invasion, the enemy forces in Paris had surrendered, and the announcement was soon to be made of the proposed peace organization to be called the United Nations.

Sgt. Gene Henley was once again on a bombing mission over Europe, his 13th. This mission was to be different from all others he had been on however, because on this day he and the 10 other crew members of the B-17 were to become prisoners of war.

It was Sept. 13 at 4 a.m., Henley and the crew members were briefed as to their bombing mission for that day, an oil refinery near the Czechoslovakian and Polish borders in southern Germany.

The bomber group consisted of 28 aircraft, seven planes from four different squadrons flying at 31,500 feet. The 'flak' that day was more intense than usual and several planes were shot down, including the one Henley was a gunner on...

Olis E. 'Gene' Henley, now chief of the munitions branch, Individual Training Division, Directorate of Training and Doctrine at the Ordnance Missile and Munitions Center and School, was born Jan. 24, 1923 in the small Walker County, Ala., town of Aldridge.

Henley dropped out of school and later married Virginia Morrow, a native of Cordova, Ala., in March

of '41. He worked in the coal mines of Alabama until he was drafted in September of '43.

After basic training with the old Army Air Corps at Keesler Field in Mississippi, Henley attended gunnery school at Harlingen, Texas. Once gunnery school was completed Henley was assigned to Foggia, Italy and the 15th Air Force, 97th Bomb Group, the 340th Bomb Squadron.

Their targets for the bombing missions were primarily oil refineries and ball bearing factories in Italy, Poland, and Germany. Their mission on the day they were shot down was the oil refinery at Blechhammer, Germany.

"I'll never forget that day," said Henley. "At the briefing that morning they said it would be rough, and they were right. The Germans were there and waiting for us."

"The 'flak' was worse than I had ever seen it. Planes were exploding and burning everywhere, I was told later we lost four of the seven planes from our squadron."

The plane Henley was on was hit hard. The surface controls, the oxygen lines, and two engines were shot out, forcing the plane into a spiraling nosedive. The pilot gave the word to bail out.

"When I jumped it was chaos," said Henley. "I thought the end had come, the end of the line."

He and another gunner jumped out close enough together that they could talk on the way down. They landed in a small forest clearing not far from a Polish farm house, which just happened to be serving as the

headquarters for a German Panzer Division. They were captured within 15 minutes and reunited with the other nine crew members of their plane, now all prisoners of war.

(See POW cont'd on page 4)



BOMBER CREW — At Drew Field, Fla., in 1944, Henley (standing, far left) posed with fellow members of the crew that was later shot down over Germany.



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# POW

(cont'd from page 3)

From there they were taken to Krakow, Poland by rail where they stayed five to six days. Next they were taken to Frankfurt, Germany where they were put into solitary confinement and interrogated for two days.

"During the interrogation they asked me where we were stationed, what life was like in the states, and the whole time no mention was made of the Air Corps," recalled Henley. "Later the German lieutenant that was interrogating me held up a black book. It was titled 'The History of the U.S. Army Air Corps.'"

From Frankfurt they were taken to Dulag Luft near Wetzlar, Germany. There they spent one day, and witnessed the town bombed by U.S. forces. The next day, about 10-12 days after they were shot down and captured, they arrived at Stalag Luft IV, a prisoner of war camp for enlisted men in northeastern Germany near the Baltic Sea.

"When we reached the camp it wasn't fully completed. The Germans searched us and put us with the British airmen for a week. After that time they moved us into barracks for Americans only," Henley said. "I was in a small 12 by 16-foot room with approximately 19 other men."

"We were fed kraut, potatoes, watery soup, and one-seventh of a loaf of bread per-man per-day. We had no beds, we slept on wood chips. We each received one Red Cross parcel per week, and as the war wore on that was reduced to one parcel for every two men, and later one parcel for every four men."

"I never received any mail, although later I learned my wife wrote me regularly and sent me food which I never received. We were allowed to write two form letters and four cards a month."



**SOLDIER** — Henley served as a gunner with a bomber group in World War II.

By the spring of '45 the allies began to move deeper into German occupied territory. As a result, Henley and the other German prisoners at Stalag Luft IV began a westward march on Feb. 6 to keep them away from advancing armies, mainly the Russians.

The approximately 10,000 prisoners were broken down into groups of about 250 and put into boxcars. There was just enough room for the 60-70 men in each car to sit. They traveled that way for six days before they were taken off the train and started marching.

"We marched for 86 days," Henley said. "I later calculated it and I believe we marched over 800 miles. We marched all over Germany and not in a straight line. They let us take one 2-minute shower in all that time, and we were covered in lice."

"The clothes on our backs were all we had in addition to a blanket. We ate potatoes if they were available, cabbage stalks, and I traded my wrist watch, wedding band, and another ring for two loaves of bread. In the end I lost 30-35 pounds, and even before then I wasn't a big guy."

During the march many men fell out. The ice, snow, rain, and mud of the north Germany winter took their toll in the forms of frostbite, dysentery, and exhaustion. For those men that couldn't make it, they were put on a wagon and pulled by horses, or other prisoners.

In late April Henley and the group of prisoners were near Hamburg when the U.S. and British forces began their spring offenses. As a result, the Germans started marching them back across Germany once again.

"On May 1st we were being held in a barn. We knew something was about to happen but we didn't know what," said Henley. "The next day we were surrounded by British forces with tanks and our German captors surrendered. It was a happy day but we really didn't know what to do since we were under no one's control at the time."

Once freed Henley and four others (three from Alabama and one from Massachusetts) left the British camp for an infantry division hospital where they were issued new uniforms.

From there they went to an American fighter base where the commander put them on a C-47 flight to Paris, France. Once there they were sent to Camp 'Lucky Stripe' near Le Havre where thousands of former prisoners of war waited to return to the states.

After returning to the states Henley spent two weeks in Miami, Fla., resting before being assigned to Maxwell Field near Montgomery, Ala., until his discharge on Oct. 8, 1945.

Henley has worked here at Redstone since November of '57. He says for a while there were problems being free again, and barbed wire does something to a man. Although he says those days are behind him now, he still has the memories.

"It never entered my mind I'd ever get shot down," Henley said. "I'm sure the POWs in Japanese, Korean, and Vietnamese camps had it far worse than we did, we were lucky. I felt I would survive and

through prayer and my wife, I was able to. That's life and the way things are sometimes, especially in war. I was an optimist then, and I still am now. I feel there are solutions to all problems, it just takes a while to find them."

Henley plans on retiring later this year. He would like to spend some time helping others through charities. For several years his former bomber crew kept in touch, then as time and distance increased, they slowly lost touch with each other. However, about a month ago Henley received a call from one of the other members sparking the hope that one day they could all get together again.

"I believe in being a realist and accepting the facts. You have to look for the future because you can't undo what has been done," Henley said. "Life is good. I love America, the flag, and there is no doubt it is the greatest country in the world. Americans should realize this and put heart in America."



**TODAY** — Henley is a branch chief at the Ordnance Missile and Munitions Center and School.

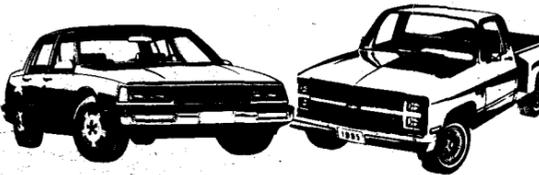
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**Pizza Hut**

# DDT clean-up plan undergoing final study here; environmental impact statement to be filed Friday

A stack of documentation several feet thick has been delivered here by the Olin Corp. as the company moves a step closer to implementing a solution to massive environmental pollution it caused at Redstone Arsenal.

The documents — blueprints, voluminous environmental and engineering studies conducted here over the past few years, and other papers detailing how

Olin intends to conduct a court-ordered clean-up of its

DDT manufacturing waste — are undergoing a final perusal by the Army and other interested groups.

In the meantime, the Corps of Engineers' draft of an environmental impact statement for the Olin clean-up project is to be filed Friday for public comment and filed in final form this fall.

Olin's legacy from more than two decades of DDT manufacturing at Redstone Arsenal is some 475 tons of manufacturing waste lodged in the bottom of Huntsville Spring Branch and continuing to poison the environment 15 years after the company ceased operations here.

The Olin plan is to isolate and bury the contamination by taking the creek out of its channel and bypassing and filling in the portion of the channel containing most of the DDT.

Olin has called this approach "responsive to the needs of the situation" and minimally disruptive to the environment and Army mission activities. The affected area is inside Test Area 1 and also within the boundaries of Wheeler National Wildlife Refuge.

A diversion channel beginning near Patton Road and looping south and west before re-entering the main channel more than 1 1/2 miles downstream will route the creek away from the contamination. The old channel will be filled with dirt to cover the DDT.

Creek flow will be routed through the diversion channel by means of three dams and a dike.

The project site is mostly grown up in woods and to get access to it Olin must build several miles of roads and two bridges.

(A court-appointed review panel is pressing Olin to also take remedial action in a downstream area where a quantity of DDT is present in the creek bed.)

Olin has put a \$20 million price tag on the project, with completion projected late in 1988. The company presently is in the process of obtaining necessary permits and easements and wants to start work next February.

Olin is working under a federal consent decree entered into early in 1983 with the U.S. Justice Department. Under terms of the decree, Olin is paying \$24 million in damages to the population of Triana and must clean up DDT contamination on the arsenal, specifically it must reduce the level of DDT in fish to the federal safe level of five parts per million. DDT levels in some local fish measure several hundred parts per million.

People living in the Triana community on the arsenal's southwest boundary have been found to

(See DDT cont'd on page 11)

## Plan changed to protect archaeological site

Olin's DDT clean-up plan underwent a quick revision following discovery of a significant archaeological site in an area where a drainage ditch was to be cut.

The site yielded projectile points and knives and other Indian artifacts. University of Alabama archaeologists have called it "a significant site considered eligible for the National Register of Historic Places."

The archaeologists were hired by Olin to survey the project area and determine if historical sites worthy of preservation were present.

Olin's project plan has been changed to reroute the ditch and also an access road away from the archaeological site and leave it undisturbed.

The site, according to the archaeologists' report, "consists of a moderate to heavy density multicomponent prehistoric site. Much of the site is mixed, being destroyed by cultivation practices, but significant remains are preserved beneath the plow zone."

They examined seven additional archaeological sites in the project area but all were deemed insignificant due to lack of intact cultural deposits.

The one significant site dates from the Early Archaic period some 9,500 years ago, the archaeologists believed, based on the type of projectile points found there. It also contained artifacts from the much more recent Woodland period which extended from around 3000 B.C. to about 800 A.D.

Beneath the plow zone archaeologists found two apparent hearths that contained fired clay, charred nuts, bone, and fire-cracked rock.

"The site's research value lies in its potential for examining various aspects of aboriginal settlement and subsistence during these periods of occupation," archaeologists stated.

Under an active program of historic preservation overseen by Bill Schroder in Facilities Engineering's Environmental Office, a large number of archaeological sights here have been professionally evaluated and described. One is a mortuary cave that yielded remnants of ancient human burials.

Archaeologists have determined that humans have occupied the Redstone Arsenal area continuously for more than 10,000 years.

## Military family changes can affect soldier pay

For pay reasons, soldiers should report changes in marital status and number of children.

Failure to report such changes is the major cause of late pay documentation at this command, according to the MICOM Finance Office. "When a soldier gets married, divorced, has a child born, adopts a child, or acquires a parent as a primary or secondary dependent, he (or) she must report it to the Finance Office promptly," it said in a prepared release.

This can affect variable housing allowance, separate rations, and federal and state income tax exemptions.

"Documentary evidence necessary for enlisted personnel (not required for commissioned and warrant officers) to support the claim for basic allowance for quarters (BAQ), includes the original or certified copy or photostat of a certified copy of a marriage certificate, birth certificate or a public or church record of marriage issued over the signature of the custodian of the church or public records and, if applicable, a divorce decree," the finance release said.

Normally it is not necessary for the service member to go to the finance office to report a pay change since it is usually taken care of by the unit, the personnel

assistance center, or military personnel office. If a soldier has a change in dependency status, however, he or she "must present the documentary evidence to finance personnel so that they may examine it to determine if the facts presented actually meet the qualifications of dependency in accordance with law," the finance release said.

"This includes certificates of non-availability of quarters issued by the Housing Office to geographic bachelors and single enlisted members," the release added. "As an exception, military personnel assigned government quarters are not required to report to the Finance Office since BAQ is terminated based on the assignment orders."

The finance office processes the last pay update each month about the 18th, which the office said allows soldiers ample time to report pay changes.

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**Chief of Staff comments**

# Army chief says Sure-Pay boosts readiness

BY GEN. JOHN A. WICKHAM JR.

WASHINGTON — With "leadership" as our guiding theme this year, we have seen the Army exercise those leadership principles which have brought a number of improvements to our Army. We are ready and prepared to answer our nation's call. Our units are ready, our soldiers are ready.

Part of that soldier readiness can be attributed to Sure-Pay, the automatic deposit of pay into a soldier's account with a financial institution. This system gives the soldier financial preparedness and offers his family, through use of the joint checking account, financial independence.

Our tests of Sure-Pay over the past few years in field exercises, maneuvers and even rapid deployment tactics, such as in Grenada, have proven that soldiers using the Sure-Pay system have far fewer financial problems. And, in this modern era of challenges ranging from terrorism to all-out war, the one common requirement for the Army and its soldiers is flexibility.

When we are called upon by our nation, we must be ready — physically fit, knowledgeable, trained, with our personal affairs in order. Time is a precious commodity, indeed, when a unit at say, Fort Bragg, N.C., is alerted late this evening for sudden deployment and finds itself in the early dawn on a distant shore, in a different setting, ready to assume its mission.

Soldiers in that unit will find all their time devoted to the physical readiness required of a unit about to deploy. Sure-Pay will assure those soldiers that even though they are away from their families, there will be continuous financial support for their families to meet the necessary expenses.

In fact, with Sure-Pay, it makes no difference where the soldiers are on payday. They may be on leave or on maneuvers, or on their way to a new duty station — in all cases, Sure-Pay has automatically deposited their pay and allowances directly into their personal financial institution accounts. And, by using the joint checking account, a soldier's family has access to

needed funds during those times when the soldier is away from home.

Over 71 percent of soldiers have already selected Sure-Pay as their method of payment and after Oct. 1, all new entries into the Army will have Sure-Pay as their standard pay method. Soldiers on duty prior to Oct. 1 have all the current pay options available to them, but even they are being encouraged to choose Sure-Pay.

To support a Sure-Pay Army, there will be ample check-cashing facilities available at every installation. The Secretary of the Army has also enlisted the support of the financial community, alerting them to the fact that the Army will no longer operate on a cash basis on payday.

For those soldiers still not under the Sure-Pay system, let me encourage you to study the program and learn of its significant benefits for you and your families. There are informational materials in the unit and also at the Army Community Services office spelling out not only the benefits of Sure-Pay, but also how to select a financial institution, how to set up your monthly budget and how to maintain a checkbook and keep a good credit standing.

Sure-Pay is yet another advancement which is helping keep our Army the finest military force in the world. Financial independence and security are your benefits of this excellent pay system. And it gives us a positive boost in being ready for any challenge. (ARNEWS)

## Marsh talks Sure-Pay to leading bankers

WASHINGTON — Leaders of the nation's five largest banking and financial associations have been invited to meet with Secretary of the Army John O. Marsh Jr. to discuss support for the Army's Sure-Pay program.

Sure-Pay is the electronic transfer of monthly pay and allowances directly into soldiers' accounts at their financial institutions.

Marsh invited the leaders to meet individually with him in his Pentagon office. He said the purpose is to keep the civilian banking community informed about Sure-Pay so that soldiers receive better service.

In his letters to the financial leaders, Marsh wrote "We have found that soldiers who have their net pay sent to a checking account via Sure-Pay are better able to provide continuous financial support to the families."

Sure-Pay becomes the standard pay method for new soldiers entering the Army on or after Oct. 1. Soldiers on active duty now will still have all the current pay options, but they are being encouraged to choose Sure-Pay. As of the end of May, more than 70 percent of active duty soldiers were enrolled in Sure-Pay. (ARNEWS)

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# Cougars, MIA tied for first in civilian softball league

BY JUANEZ ALEXANDER

The Cougars and MIA were tied atop the Civilian Welfare Softball League as the first round of the season came to an end.

In games last week: Express bombarded Patriot 14-8; RADS stomped High Noon 14-3; Cougars whipped F&A 9-4; F&A made a comeback by edging Patriot 7-6; COE nipped Pershing 12-11; BMD breezed past High Noon 17-10; MLC got past Patriot 6-5; and MIA beat the Stallions 11-9. In other games RADS hammered Express 11-4; T&E beat BMD 16-1; RADS slaughtered COE 27-6; MLC defeated F&A 5-1; MIA polished off MLC 15-3; T&E clobbered High Noon 17-2; Thiokol downed DED 20-6; and MLC received a bye.

Handford Jones and Steve Mann led the Express' victory over Patriot by going three for three, followed by Tim Mertz who went three for four. Edgardo Ortiz hit two for three while John Pea went two for four. Don Stout and Charlie Mellies added RBI's to the score along with Mertz and Mann. Retaliating for the Patriot team was Tom Erickson who smashed four for four, followed closely by Ken Dulaney who had three for three. Don Marcotte and Dave Coss each went two for three while Steve Nelson and Don Whitner each delivered two for four.

Johnny Kastanakis went three for three to lead RADS' attack against High Noon. Jerry Arzeman contributed two for two while Jeff Craven batted four for five; Dean Reese, three for four; and Mike Hale and David Sanford each went two for four.

Although it lost, High Noon played a good game. Mike Fowler, Len Farbman, Mark Rowland, and Charlie Nickell all went two for four. Scoring for High Noon were Geanie Jones, Nickell, and Fowler.

Cougars' determination to lead the league shone once again as the team whipped F&A. Steve Kestler, Paul Vogt, and James Williams led the way with two hits each, while Bob Nichols, Dewitt Palmore, and Kestler combined for seven of the nine RBI's. Jeff Toney sparked once again on defense. Lenord Hatcher was winning pitcher. Ricky Prince led F&A's battle back with three for four while James Battle followed with two for three.

Ronnie Shoulders led F&A's win over Patriot by going two for three including a home run. Emmett Mathis and Bruce Coker each went two for three including a triple. Harold Jacobs and Bill McCormick batted two for three while Buddy Garner and Ricky Prince went two for four. For Patriot, Don Whitner and Tom Erickson delivered three for four while Don Marcotte and Bryan Hunter hit two for four.

Details were unavailable on the COE-Pershing slugfest in which COE emerged the winner.

BMD's Paige Stagner went four for four against High Noon. Steve Porter and George Wells each delivered four for five while John Troup and Victoria Eggleston each smashed three for five. Len Farbman sparked with four for four for High Noon, followed by Mark Rowland who went three for four with a triple. Mike Fowler and Walter Shoulders delivered two for four with Shoulders adding another triple for High Noon. Charlie Nickell batted three for four with Gary Yacura following closely behind with two for three.

Phillip Dussault led MLC's attack against Patriot by going three for four. Charlie Owens went two for two, including a single and a double, followed by Brandon Bryant, Norman Goodrich, William Strickland, and Dave Bryant, who all went two for three. Bringing in MLC's RBIs were Dussault, B. Bryant, Rick Fuller, Strickland, Owens, and Tim McGinnis. Jim Owens was winning pitcher. Leading Patriot's offense were Ron Hall with three RBI's, followed by Dirk Siron and Don Whitner with an RBI each. Don Marcotte and

Whitner went four for four while Steve Nelson, Siron and Hall each went two for four.

Jack Cunningham, Dave Cook and Rob Dougherty went two for three to lead MIA over the Stallions. Dougherty's output included a triple. Don Carver delivered two for four. The Stallions' Don Finafrock went three for four including a home run. Don Jordan, Clayton Neal and Pete Barnes each went two for four, followed by Glen Goodknight who delivered two for three.

Dean Reese led RADS' over the Express by going three for four, including two doubles and a triple. Barry Belew wasn't far behind with three for four, including another double and triple. John Rose, not to be outdone, also went three for four. For the Express, John Bowles and Mark Perry delivered two for three, each blasting a triple. Don Stout went one for two.

Earl Shirley and Jim Springer each went three for four and blasted a homer in T&E's big win over BMD. Bobby Bates, Raymond Deep, Randy Phillips and David Light all batted two for three, with Phillips delivering a home run. Paige Stagner scored BMD's only run.

RADS' onslaught against COE was led by Donny Smith who hit a single, double and triple in a three for three day. Jerry Arzeman, Mike Hale, and John Rose all went three for five. Jeff Craven went four for six and Barry Belew, four for five. COE's James Miller and Gregory Wirt each went three for four while Tom Dickenson, Dave Hill, Larry Smith and Tom Norton each delivered two for four. Wirt and Smith blasted home runs. Donna Waldrop went two for three.

William Strickland went three for three, including a triple that brought in two runs, as MLC beat F&A. Phillip Dussault batted two for four with another run-scoring triple. Strickland and Greg Bliss delivered the other two RBI's. For F&A, Buddy Garner went two for four and Emmett Mathis, two for three. Harold Jacobs drove in F&A's only run.

Perry Pederson and Rob Dougherty led MIA's win over MLC in the completion of a protest game. Both went four for four. Doug Street and Jack Cunningham each delivered three for four while Ken McCormick and Buddy Lewis each went two for three. For MLC, Norman Goodrich batted two for three, including an RBI. Greg Bliss accounted for MLC's other two runs.

Bobby Alongi hit two singles, a double and a triple in a four for five day as T&E whipped High Noon. Tony Cook went three for five with two doubles. Other contributors included Earl Shirley, four for six; Jim Springer, four for five; Randy Phillips, two for four; and Don Hughes, three for five. For High Noon, Van Durr, Gary Yacura and Glenn Gurley all went two for three, and Charlie Nickell batted two for four.

Brian Walter went five for five to lead Thiokol over DED. Bart Fulmer delivered two for two with a home

## Softball standings

Here are the Civilian Welfare Fund Softball League standings after last week's games:

	W	L
Cougars	14	1
MIA	14	1
MLC	12	3
Stallions	11	4
F&A	10	5
T&E	10	5
RADS	10	5
Express	8	7
Patriot	6	9
Thiokol	6	9
DED	5	10
Pershing	5	10
BMD	4	11
COE	3	12
High Noon (CPO)	2	13

run. Jim Lester went three for three. Seth Lawson and Lance DeFatta batted four for five; John Seigh, three for four; and Craig Weckworth, four for six. DED's Max Vaughn hit a homer and went three for four; Chris Pettit and Randy Desart delivered three for four; and Leo LaChapelle and Steve Russell went two for four.

## Art contest offers \$2,500 first prize

WASHINGTON — Soldiers with an artistic eye, talented hands and an itchy palm could win up to \$2,500 in the Army's Chief of Staff Design Contest.

Active duty and reserve component soldiers interested in entering the contest should creatively express their impression of the contest's theme — A Proud and Ready Army — in any art medium of their choice (painting, sculpture, collage, etc.), according to Bobbie Hubbs of the Community and Family Support Center in Alexandria, Va. The winning entry will be printed in poster form within 30-60 days to be distributed Army-wide.

In addition to the first place award, \$1,500 will go to the second place winner, \$1,000 to the third, \$500 to the fourth, and \$100 each for fifth through 10th place. Furthermore, the 10 winning entries will be included in the U.S. Army Center of Military History Army Art Collection in Washington, D.C.

Marketing experts from industry, business and museums will join military leaders in choosing the entries that best portray originality, creativity, technical execution, innovative use of art materials and impact of the statement being made, Hubbs said.

Entries will be judged at three levels. First, all submissions will be judged at the installation level. Each installation may submit up to 15 entries to the next level — the major command contest. Each command will forward the 15 best submissions to the Army contest. All entries in the two latter categories will be judged from 35mm slides of the submitted works. The decision of judges at each level is final.

Entry forms (DA Form 5433) will be available at local post exchanges, bowling centers, gas stations and other high-traffic areas on post. Each contestant is limited to three entries.

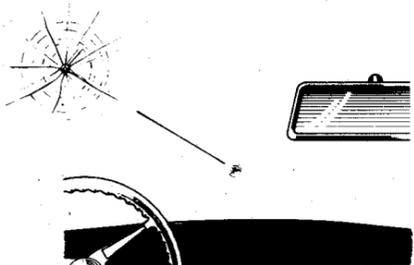
For more information, contact the local installation Arts and Crafts director. (ARNEWS)

## Troop softball

Here are the troop softball standings as of July 7:

Eastern Conference		
Team	W	L
HHC (1)	16	0
515th	9	5
5th Students	9	5
Marines (2)	9	7
95th	9	7
C Company	7	8
4th Students	6	8
Meddacc (1)	6	9
B Company (2)	3	12
BMD (dropped because of three forfeits)		
Western Conference		
Team	W	L
B Company (1)	14	1
Marines (1)	12	1
6th Students	10	3
291st MP	10	5
7th Students	6	6
Meddacc (2)	7	7
A Company	5	7
AISC/AF	6	8
B Company (3)	3	11
HHC (2)	1	11

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# Building canal tough, but Army engineers meet challenge

BY DALE FLOYD

**WASHINGTON** — One of the greatest engineering feats in history is located in Central America. It is 51 miles long, 41 feet deep, 110 feet wide, and is one of the most strategic waterways in the world. It is of course, the Panama Canal.

Although never officially assigned the project, the Army Corps of Engineers played an important role in its construction and maintenance. Engineer officers, as early as 1849, visited Central America to explore the general area and locate possible canal routes. In spite of these expeditions, France, not the United States, originally undertook the construction of a canal.

Ferdinand de Lesseps, who successfully opened the Suez Canal to world shipping in 1869, began work on a sea-level canal in the Isthmus of Panama in 1890, but malaria, financial reverses and landslides at Culebra Cut brought the project to a standstill.

The U.S. took a keen interest in the French attempts to build a canal and, in 1903, dispatched two Engineer officers, William M. Black and Mark Brooke, to observe the construction efforts. Congress soon afterwards set out to purchase the French assets, construction equipment and partially completed works for \$40 million. Brooke oversaw and certified the transfer on May 4, 1904.

The Isthmian Canal Commission, a U.S. government agency, was responsible for completing the canal construction. It appointed John F. Wallace and John F. Stevens as successive chief engineers in 1904 and 1905, but both resigned.

## Roosevelt turns to Army

Frustrated by the inability to find someone willing to see the project through to completion, President Theodore Roosevelt turned to the Army for help. In 1907, Lt. Col. George W. Goethals, an engineer officer with extensive experience in lock and dam construction on the Ohio River, was appointed as chief engineer and commission chairman. Goethals accepted Stevens' plan for a lock and dam canal, and reorganized operations and completed the construction.

In the course of construction, the engineers, both military and civilian, solved various engineering problems and developed innovative equipment. The Culebra (later Gaillard) Cut, where the canal crosses the Continental Divide, presented the greatest difficulty. The soil there, composed of shale and clay, lost its stability when exposed to the weather; heavy rains caused dangerous landslides. By 1914, when the canal opened to traffic, the workers had removed 105 million cubic yards of dirt from the Cut to reduce the angle of the banks, thereby decreasing, but not completely halting, the landslides.

In 1912, Congress provided for the governing of the Canal Zone, encompassing the canal and the narrow strips of land on both sides. A governor general oversaw the operation of the canal and governed the Canal Zone.

Army Engineers maintained the canal after its completion. Their duties included dredging, towing,

salvage, overhauling the locks, inspection and the placing of navigation aids. Also, subsidiary Canal Zone facilities were constructed to include water filtration and sewage plants, streets, housing, fortifications and other defenses, and Madden Dam for flood control on the turbulent Chagres River.

## Landslides stopped

In the 1920s, the landslides at Gaillard Cut were finally stopped by adding a drainage control system strengthening the banks. Later, Corps personnel supervised the widening of the canal to accommodate larger ships; however, some passenger liners, cargo carriers, tankers and the larger aircraft carriers cannot pass through the canal.

The Canal saves ships sailing from one U.S. coast to the other about 8,000 nautical miles by eliminating the need to sail around Cape Horn at the tip of South America. Ships sailing from Europe to Asia save as much as 2,000 nautical miles.

The Canal takes up to 70 ships a day, with some ships taking as long as 15 hours (including waiting time) to pass through. It has three pairs of locks that lift ships to 85 feet above sea level. In terms of U.S. defense strategy, the canal enables naval units to pass quickly from one ocean to the other.

Since the signing of the 1977 Panama Treaty and the passage of the 1979 Panama Canal Act, many changes in the operation and maintenance of the canal have occurred. Panamanians now govern the Canal Zone and run the Panama Canal Commission, while Corps of Engineers officers provide maintenance and advisory support. This support will continue until 1999, when the U.S., in conformance with treaty provisions, will relinquish control of the Panama Canal.

*(Dale E. Floyd is a writer in the Historical Division of the Office of the Chief of Engineers.)*

# Union drive focuses on membership

The local union for government workers began a membership drive last Thursday.

This is in addition to Local 1858 AFGE's ongoing effort to get more members. Mary McCulley of Aniston is to visit buildings here two days a week to sign up workers, according to Herb Ivey, president of the local affiliate of the American Federation of Government Employees.

Under an agreement with civilian personnel officials, the drive is slated for up to 120 days. "In the meantime at the end of 120 days, we'll look at the situation again and see if we want to continue. And if we do, we'll go back to personnel and make different arrangements," Ivey said.

Plans are to begin with larger buildings and sign up members on post and at Research Park. McCulley conducted a similar drive here about six or seven years ago, according to Ivey. The local president believes union membership can benefit federal workers.

"First of all this administration is after all civil service employees and it doesn't make any difference

whether you're in the bargaining unit or not," Ivey said. "They're putting restrictions on your pay and all these other things."

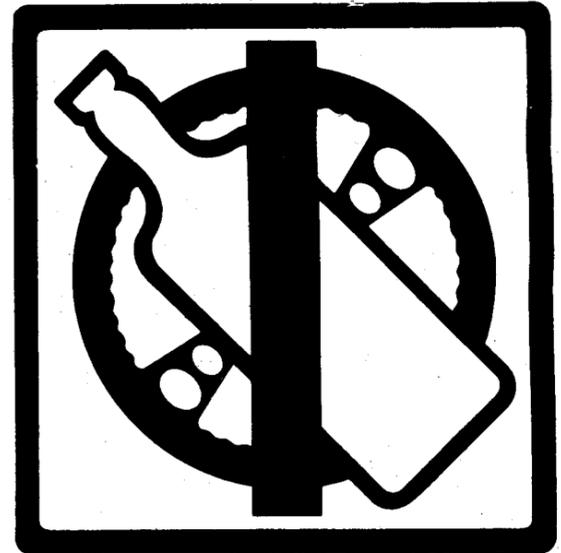
At the national level AFGE is fighting in court a plan to change seniority rules so workers with less years service can be retained on the basis of merit. "We'd rather it be on a seniority basis," Ivey said.

Workers interested in signing up for the union can do so by either submitting a dues check-off form to the union, or by paying a year's dues.

"Everybody that's a non-union member we'd like to have them in to support the cause, try to benefit themselves, that's the main thing," Ivey said.

He would like to see every eligible person sign up. "Somewhere down the road, management's going to put the mash to them," he said. "They should be in now and not wait until they get some kind of action against them and come to us. Too often this is happening that way."

For more information, persons interested in joining the union can call 881-7430/6863 or 876-4880.



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# Hospital keeps accredited status

Fox Army Community Hospital has been accredited by the Joint Commission on Accreditation of Hospitals.

The accreditation is nothing new for the facility; it's a renewal of the status established in earlier years, said Col. Wade Mills, deputy commander for administration at the hospital.

JCAH is a private, nonprofit organization established in 1951 to promote quality in the health care services. It's governed by representatives of the American College of Physicians, the American College of Surgeons, the American Hospital Association, the American Dental Association, and the American Medical Association.

"The system is set up so that about once every three years, we're surveyed. Successful accreditation usually lasts for three years," Mills said.

"When the survey team is coming, we're more aware—we fine tune, and take a closer look at standards," he said. He added that JCAH sends interim requirements for accreditation during the years between visits.

"We couldn't wait until just before the team comes in to get ready. We're continuously applying standards. If we didn't there would be no way to meet them when the survey team is on site," he said.

The survey team consists of a physician, a medical



administrator, and a nurse, all employed by JCAH. "Their sole function is to travel around the country, surveying facilities against standards," Mills said.

During the March 7 inspection, the hospital was judged on the quality of 23 major operational areas, including medicine, surgery, dietetics, nursing, staff credentials, medical records, and safety. The standards are the same as those set for civilian hospitals.

"Accreditation doesn't mean we're free from all problems. It helps us identify areas we need to work on," Mills said.

"Accreditation instills confidence in our patient population. It means we can and have stood up to outside scrutiny, and demonstrated compliance. It gives our staff a sense of pride and accomplishment that we're able to do this."

# Prevention cuts on-post crimes

WASHINGTON — On-post crimes have been on the decline Army-wide for the past four years, according to Army law enforcement officials in Washington.

During the first six months of fiscal year 1985, property crimes such as larcenies, housebreakings, burglaries, auto thefts and drug-related offenses have continued to decline as compared to the same period last year. Violent crime (murder, rape, robbery and aggravated assault) has increased slightly over last year's figures.

According to Regina McNew of the Military Police Operations Agency, increased awareness and strong installation crime prevention programs have been the key to the reduced number of crimes.

Fort Jackson, S.C., has one of those strong installation crime prevention programs. That post recently received the nation's "Outstanding Crime Prevention Community" award during a ceremony at the FBI headquarters in Washington. (ARNEWS)

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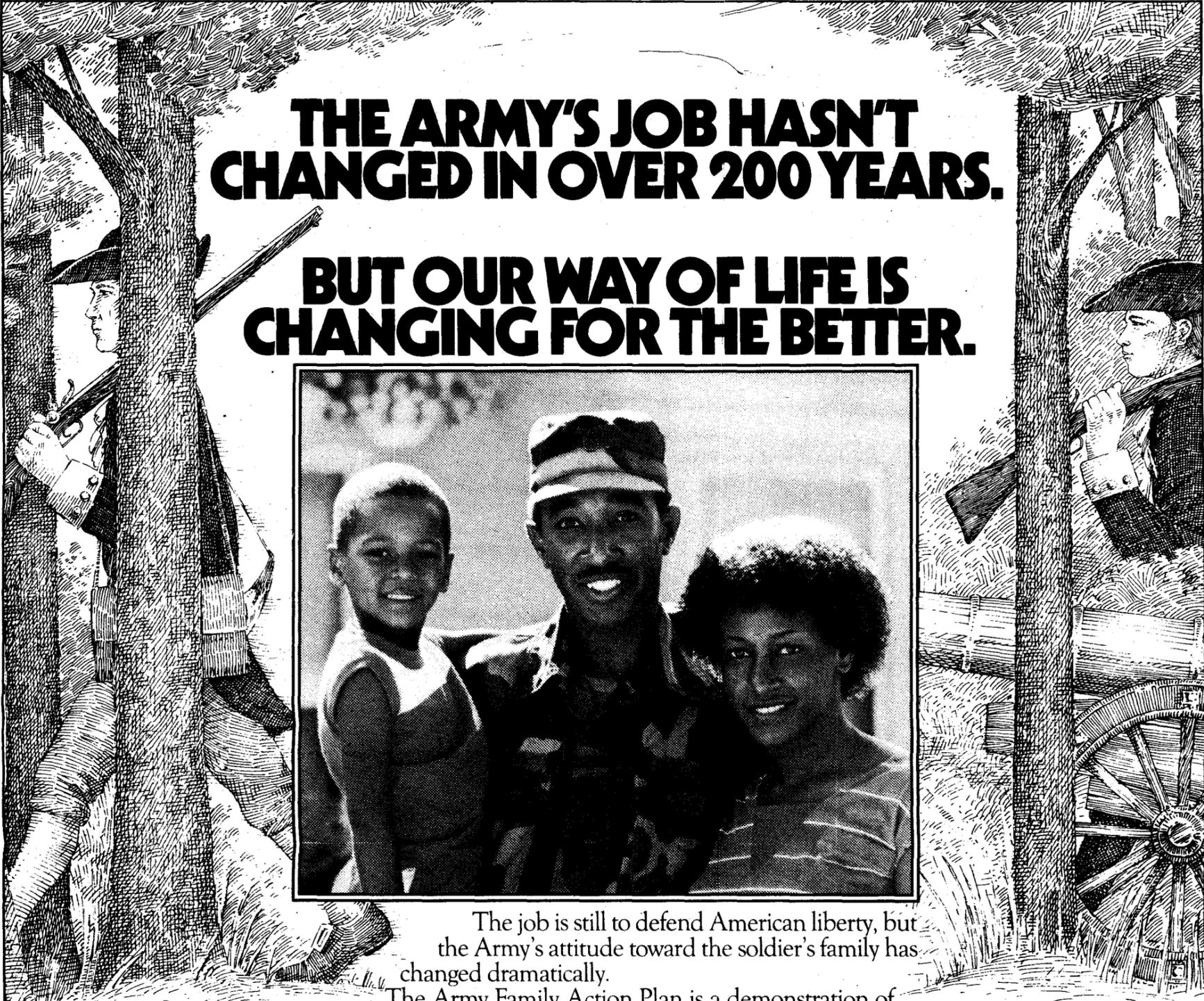
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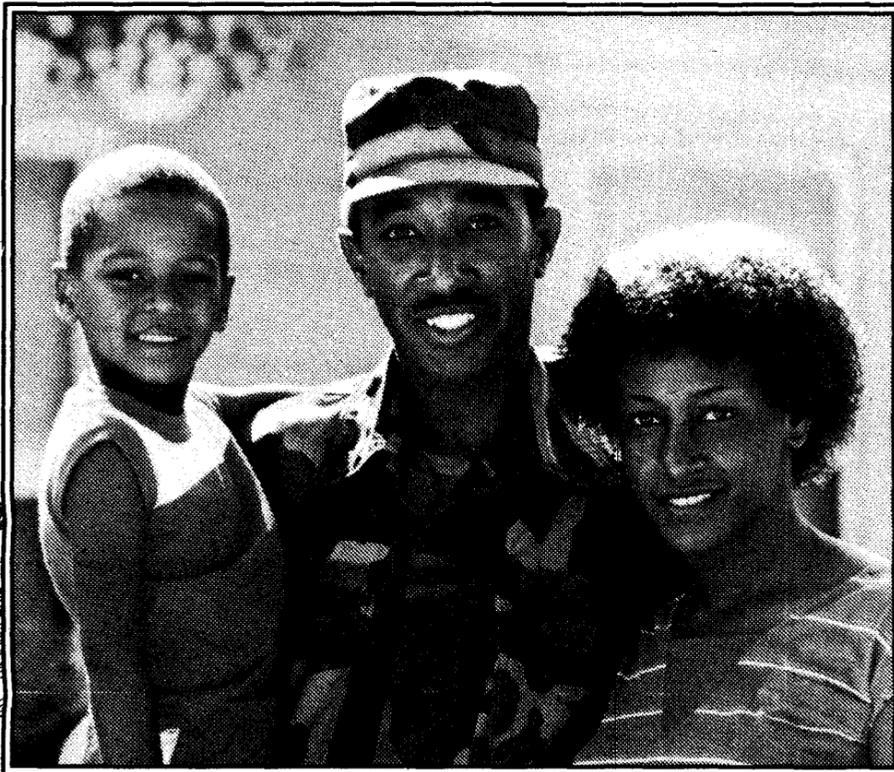
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The construction of over 2,500 Army family housing units has already begun. Many new child-care facilities have been approved for construction; 250 have already been improved. A Health Facility Modernization Program has also begun. And presently, employment resource centers are being established to help expand employment and priority placement opportunities for Army family members.

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## DDT

(cont'd from page 5)

carry abnormal amounts of DDT in their bodies as a result of eating contaminated fish.

Olin's research with fish in aquariums and in cages emplaced in the Huntsville Spring Branch shows that fish acquire DDT mainly from the water and not so much from contaminated food or bottom sediment.

Olin has also found that contaminated fish from the arsenal may move many miles up and down the Tennessee River.

Their research has also borne out Army findings that no contamination of ground water has resulted from DDT manufacturing activities that were conducted here over a long period.

DDT was manufactured here commercially from 1947 to 1970 in a surplus factory building under lease from the Corps of Engineers. The factory was one of the world's major sources of DDT and untold tons of manufacturing waste from the potent insecticide was flushed into Huntsville Spring Branch, buried in land-fill sites or simply dumped in piles on the ground.

DDT once enjoyed wide popularity as a crop poison and household insecticide. It was banned from public use in the late 1960s. It does not break down in the environment, causes reproductive failure and other problems in birds and animals and is a suspected cancer-causing substance.

## Payne wins in ladies' golf competition

Virginia Payne took top honors in a ladies' golf tournament on the post golf course.

The Redstone Arsenal Ladies' Golf Association "Mid Summer Classic" was held July 9-10. It consisted of 36 holes with full handicap.

In second place was Beverly Payne, followed by Dean Reed in third; Billie Shuput, fourth; and Alice Whitaker, fifth. Beverly Payne had the least number of putts.

"This is a yearly event," said Dottie Cento, publicity chairman for the ladies' golf group. "There were approximately 16 participants."

The winner's name, in this case Virginia Payne, gets put on a plaque each year, she said.

The next tournament, the RSA Ladies' Golf Association Invitational, will be held Sept. 4. For more information call Florence Teir 883-1055.

## Combat support field has first female general

WASHINGTON — The first promotion of a woman officer to brigadier general in combat support took place at the Pentagon July 2. Sherian G. Cadoria received her star in a ceremony hosted by Lt. Gen. Robert M. Elton, deputy chief of staff for personnel.

Cadoria received a direct commission to the Women's Army Corps in 1961. In 1974 she was assigned to the Military Police Corps.

In remarks at the promotion ceremony she said, "To the men and women who helped me be here to-

day, I pledge to you my dedication to keep giving you the very best, most sensitive, caring and concerned leadership, and to help maintain our Army of excellence."

Cadoria's next assignment will be as the director of manpower and personnel within the organization of the joint chiefs of staff.

There are now four female active duty brigadier generals in the Army. (ARNEWS)

## Roundout brigade formed for 6th Infantry Division

WASHINGTON — Secretary of the Army John O. Marsh Jr., announced July 10 that the 205th Separate Infantry Brigade will be the component roundout brigade for the 6th Infantry Division (Light) in Alaska.

Selection of the brigade based at Fort Snelling, Minn., is a first for the Army reserve. All other roundout brigades for active component divisions are Army national guard units. A roundout division consists of two active component brigades and one from the reserve components.

The 205th Separate Infantry Brigade was selected in part because of its existing planning and training relationships with the 172nd Infantry Brigade which will be the nucleus of the new division. The 205th trains in

Alaska, is located in a cold weather region and has the special cold weather equipment necessary to operate in the Alaskan environment.

Major units of the brigade to convert to the light structure include the 3rd Battalion, 3rd Infantry; 1st Battalion, 409th Infantry; 1st Battalion, 410th Infantry; and 3rd Battalion, 24th Field Artillery.

The 6th Infantry Division (Light), when fully organized, will consist of a headquarters and headquarters company, three light infantry brigades, division artillery, a combat aviation brigade, a division support command and various support units. The division's active component elements will be stationed at Fort Richardson, near Anchorage, and Fort Wainwright, near Fairbanks.

## Leased walk-in clinic helps medical overcrowding

WASHINGTON — A new approach to ease overcrowding at Army medical facilities will provide military beneficiaries ready access to non-emergency health care.

The Army recently awarded a contract to a local firm to lease and staff a primary health care center in Northern Virginia, according to Lt. Col. Clarence Vatne from the Surgeon General's Office. The contractor will provide family practice physicians to treat patients on a walk-in basis. The facility will accommodate 24,000 visits per year.

Leased as a uniformed service facility, the center offers care to active duty and retired service members and to their families provided they have a current identification card and are enrolled in the Defense Eligibility Enrollment Reporting System, if eligible. The facility is scheduled to open Oct. 1, and success with this approach could mean establishment of similar centers in other high-density military communities.

Leasing an existing facility in the civilian community was chosen as a trial solution to overcrowding at Fort Belvoir's DeWitt Army Hospital. "It was a quicker and more cost-effective solution than building another

facility on an installation. We're also getting additional physicians to staff the center. We wouldn't have that if we built our own facility," Vatne said. Also important to the Army's decision was the success of similar non-emergency health care centers in the civilian sector. And as an added bonus, the Army expects to reduce the costs it pays under the Civilian Health and Medical Program of the Uniformed Services, he added.

As part of providing primary health care, the center will offer pharmacy, laboratory and X-ray services on site. Obstetrics, however, will not be offered at the center, but will continue to be offered at on-post facilities or through CHAMPUS.

Patients requiring specialized care will be referred to another military facility. Emergencies involving "life and limb" will be sent to the nearest hospital, military or civilian, capable of providing care, Vatne said.

As with other military facilities, patients at the center will receive treatment at no cost. Also, the health records of patients who regularly visit the center will be maintained there. (ARNEWS)

# Zierdt gets award for missile work

The Tennessee Valley chapter of the American Defense Preparedness Association has presented its Medaris Award to John G. Zierdt, a retired major general.

The award is named for retired major general John B. Medaris who, as commander of the Army Ballistic Missile Agency in the early 1950s, directed many of this country's pioneer rocket efforts including the Redstone and Jupiter missile systems. Later, as commander of the Army Ordnance Missile Command, Medaris directed the launching of Explorer I, the western world's first satellite. The award is presented to a member of ADPA who has made significant contributions in the field of missiles and munitions.

Zierdt was commanding general of the Missile Command from 1963 until 1965. One of his major tasks was to rebuild the Army's in-house missile research, development and engineering capabilities after 4,000 personnel, including the entire Von Braun team were removed to form the Marshall Space Flight Center of the National Aeronautic and Space Administration in 1960.

During his command, the Nike Hercules and basic Hawk air defense guided missile systems and the Pershing ballistic missile system were fielded. Development began on a new generation of guided

battlefield weapons including Shillelagh, Tow, Dragon and Lance. New air defense weapons were

developed, including Chaparral, Improved Hawk, and AADS-70 (later Patriot).



PRESENTATION — Paul Bayruns of ADPA presents the Medaris Award to John G. Zierdt.




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# Counselors enrich experiences of summer employees

BY PAM ROGERS

Young people who are working under the Missile Command's summer employment program this year will receive more from their jobs than just a paycheck.

Through the efforts of the two summer employment program counselors, they will participate in enrichment seminars and visit potential employers.

Counselors for the program are Dr. Homer McCall and Rachelle Scissum, both faculty members of Alabama A&M University. They are newcomers to MICOM and the summer employment program, but Scissum has worked for the federal government in the past.

"It's a learning experience every day—I'm getting a mini-course in acronyms. It's been very enjoyable. I'm aware of how the government works. I'm playing a small, minor role, but an important one— helping those who might not otherwise have work experience," said McCall.

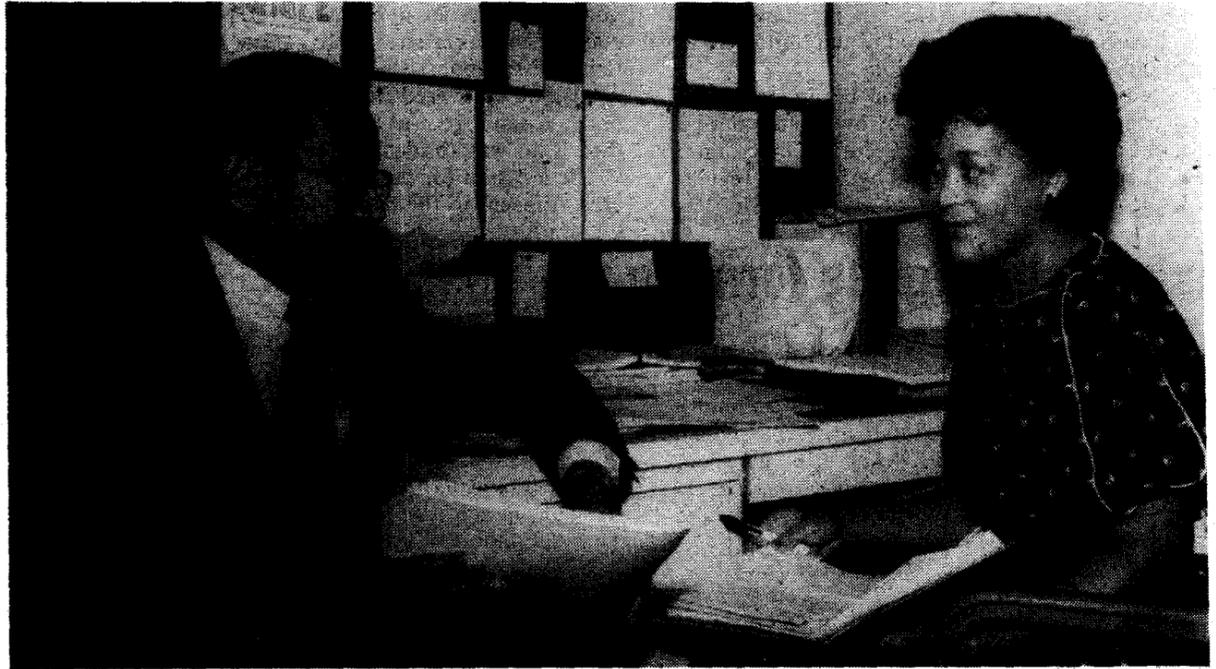
"I learn something every day," said Scissum. "The employees here are very friendly, cooperative, and willing to help."

McCall counsels workers in the summer aid program and the career awareness program. The summer aid program provides minimum-wage jobs for economically disadvantaged youths ages 16-21. The participants tend to be educationally disadvantaged as well, McCall said, and probably would have trouble finding a summer job in the private sector. Although he hasn't encountered any major problems yet, he thinks a lack of the proper attitude toward work is a potential problem with this group.

"We teach them what I call 'the five As of success' during orientation. The five As are aptitude, attitude, attention, attire, and attendance. I tell them they must keep the right attitude toward themselves and those around them," he said.

McCall also encourages workers in the summer aid program to continue their education. "To survive in this 'Star Wars' age — this age of intense competition, one must further one's education," he said.

"Enhancing Survival Skills," one of the seminars for the program, taught methods of coping with problems faced by many youngsters today, including drug



**COUNSELORS** — Dr. Homer McCall and Rachelle Scissum discuss plans for MICOM's summer employment program.

and alcohol abuse, teenage pregnancy, and single parenthood.

McCall is an assistant professor in the English and Foreign Language Department at Alabama A&M, where he teaches world literature, and he is pastor of St. John's African Methodist Episcopal Church in Huntsville. A native of Montgomery, he received a bachelor's degree from Moorehouse College, and master of divinity and doctor of ministry degrees from Vanderbilt University. He and his wife, Mabel, have three children: Homer II, 13; Sonya, 12; and Gale, 3.

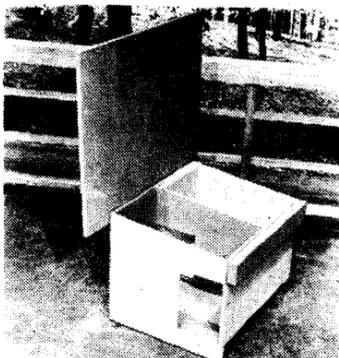
Scissum works with the summer hire program, which gives employment to students who have completed at least one year of college, and whose grade point averages are at least 3 on a 4 point system. They are hired for GS-3 through GS-5 positions in clerical and technical fields.

Scissum is working on a seminar which will teach written and oral communication skills, including resume writing, telephone use, interviewing techniques, and tips for filling out job applications. She's also planning a field trip to local colleges and potential future employers.

She is an instructor of communication skills classes at Alabama A&M. Originally from Decatur, she received a bachelor's degree in English from Fisk University, and a master's degree in English from Tennessee State University. She and her husband, Willard, have a daughter, Shayla, who is 2.

McCall and Scissum agreed that their major goal for their summer program is to employ as many youths as possible, see some level of growth and development, and encourage commitment to further education.

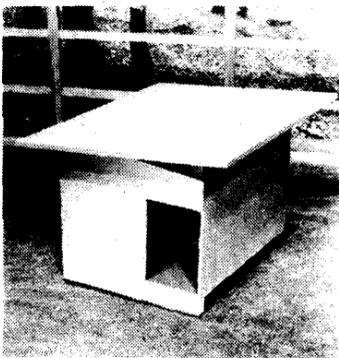
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A folding table for the patio poolside is particularly useful, since it can be stored away when the colder weather returns.

This four-seater is practical, easy to construct and the material requirements need not be expensive — an important consideration these days.

An important factor with this table is that we have chosen lightweight materials; quarter-inch plywood topping the frames and which form the folding top. Even the supports are lightweight while the seats and their legs are of somewhat sterner stuff. Door bolts secure the seats to the leg frames while carriage bolts hold together the table top to the frames that support it.

You'll need a piano hinge for the folding two-piece table top and the only other major items of hardware are a pair of suitcase catches and a carrying handle. We suggest using a good enamel to finish the project. Bon appétit!

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I.N. 232

## Register bicycles through Thursday

Redstone residents who have not registered their bicycles have a chance to do so today and tomorrow at a special bicycle registration session.

The three-day registration period began yesterday, and will continue today and tomorrow from 1 until 3 p.m., said Charlie Thorpe of the Security Directorate.

"Bicycle registration is required by MICOM regulations," said Thorpe. He said that everyone who has

not yet registered a bicycle, and people who have allowed a bike registration to expire, need to get a current registration.

"We've recovered five bikes in the last two weeks, but we can't return them to their owners because there's no way to identify them," he said.

The location for the bike registration is the parking area adjacent to the ballfields off Goss Road.

## Basketball leagues forming on post

The civilian basketball folks plan to offer something for everybody next season.

A men's slow league for age 35 and older and a women's league are to be added to the present Civilian Welfare Fund basketball league. A survey is being conducted to see if there's enough interest to form six teams in each of the two new leagues. Civilians and military people are invited to participate.

"It's already been budgeted, what we have to do now is go out and get the people," said Abdullah Muhammad, president of the civilian basketball league.

If there's enough interest, the two new leagues will be added by Aug. 15 for the upcoming 1985-86 season. To sign up call Muhammad 876-4195 or 837-8855 or Dewitt Palmore 876-1261.

## Fishing outing set Saturday

An informal day of fishing is planned for the military recreation area on Saturday, July 20.

The Morale Support Activity and the Post Exchange encourage taking a child fishing at the Tennessee River military recreation area that day. Participants can win prizes for the fish they catch.

"There is no registration fee, but by registering in advance at your Main Exchange or Troop Store you have a grand opportunity to win a random drawing prize on the day of the event," said a release from the PX. "The winners have some grand prizes which include an \$800 sailboat for the biggest fish caught by weight, regardless of what it is. Other categories will win handsome gift certificates for the biggest catfish, bass or bream."

Registration is under way at the PX which has the rules and details.



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**Announcements**

**Child care**

The Family Child Care program has plenty of spaces for children under 2. A certified home child-care provider will give developmental care to the child. Listings of providers are available at building 12, room 211. For more information call 876-2752.

**Protestant potluck**

A Protestant potluck supper is planned for 6 p.m. July 21, at the Bicentennial Chapel. Bring a dish and share in the fellowship.

**Atari users**

The Huntsville Atari users group will meet July 18 at 7 p.m. in the Universal Data Systems cafeteria, 500 Bradford Drive, SW.

**Arthritis update**

Information about arthritis will be presented at "Arthritis Update '85" from 9 a.m. to 3 p.m. July 30 at the Sheraton Inn. This is one of 12 meetings to be held throughout Alabama. Professionals from the UAB Multipurpose Arthritis Center and the Alabama Cooperative Extension Service are to present the most current information on arthritis. Preregistration is required to attend this public conference. Deadline for registration is July 23. For more information call the Madison County Extension Office 532-3578.

**Handicapped support**

H.E.R.O. of Huntsville, an interdenominational, spiritual support group of the handicapped, has fellowship meetings on the third Saturday of each month. Its next meeting will be held from 11 a.m. to 1 p.m. Saturday, July 20, at St. Stephen's Episcopal Church on Whitesburg Drive. For more information or transportation assistance, call Lois Render 882-0909 (evenings) or 876-1606 (days).

**Best yards**

Here are the Yard of the Month winners for June: best single unit, CWO 4 Jackie E. Grindstaff, 437 Simpson Drive, and 1st Sgt. Jose A. Quitugua, 1245-A Hermes Road; and best multi-unit, CWO 4 Hubert K. Wright, 478-A Cooke Drive, and Sgt. Graham H. French, 226-A Dyer Circle. Winners receive a certificate of appreciation, one free dinner, a color photograph of the ceremony and display of the Yard of the Month sign for a month. Receiving honorable mentions were Lt. Col. Leon W. Cooke, 29 Ripley Drive, and SFC John M. Langen, 1385-A Lance Drive. The Unit Area Award went to 95th Maintenance Company. The winning unit will receive a certificate of appreciation, a color photograph of the awards ceremony, display of the Unit Yard of the Month sign for one month, and a \$200 check from the Morale and Welfare Support Fund.

**Spot bid sale**

A spot bid sale of government surplus property will be held July 24 in the Defense Reutilization and Marketing building 7427 on Warehouse Road. Registration starts at 8 a.m. and the sale begins at 9:00. Items for sale include typewriters, recorders, photographic equipment, electrical and electronic items, clothing, buffets, desks, chairs, copying machines, chest of drawers, beds, drafting table and filing cabinets. The property is located in building 7426 on Warehouse Road. Items may be inspected from 8 a.m. to 3 p.m. each day, excluding Saturday and Sunday.

**Pay information**

The Civilian Pay Section gets many telephone requests concerning pay and leave of employees. This information is considered personal and should not be disclosed over the telephone, according to civilian pay officials, citing the Privacy Act of 1974. Pay and leave information is reported on the Leave and Earnings Statement given to workers every two weeks. To get information, they should make a request in writing to the Civilian Pay Section, AMSMI-FAEP, building 8027.

**Spouses' seminar**

B Company will have a seminar for spouses and service members on the various community services (both military and local) available to families at Redstone Arsenal. The seminar will focus on the Army Community Service, the Drug and Alcohol Program, and the assistance provided by the chaplain. It is scheduled for 6:30 p.m. July 22 in the Post Theater. Spouses of B Company members are invited to attend. All others are welcome as well.

**Crib modification**

A free modification kit for Questor Baby Line cribs made from 1970 through 1982 is available from the manufacturer. The hangers and brackets that hold the mattress and springs to the cornerposts on these cribs can break or come unhooked and allow a child to suffocate in bed, according to the Consumer Product Safety Commission. Free replacement hangers and brackets can be obtained by calling 1-800-543-8954.

**Toastmasters**

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

**Mass in Korean**

A Mass in Korean followed by a Korean potluck supper is planned for July 20 at 6:30 p.m. at Post Chapel. For information call 876-2409.

**Financial planning**

A briefing on family financial planning for MICOM officers and NCOs will be held July 17 from 1-2:30 p.m. at the post theater. Retired Lt. Col. Robert Kauffman from the Army Mutual Aid Association will conduct the briefing. Spouses and others who are interested are invited.

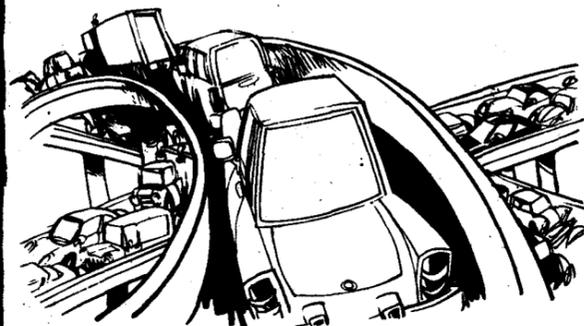
**Recreation Center**

Tonight—Crossword tourney at 7, Name That Tune at 7:30. Thursday—Bingo at 7. Friday—Yahtzee tourney at 7. Saturday—Go tourney at 2:30, Crossword contest at 7. Sunday—Tour of Birmingham zoo, botanical gardens and vulcan at 8 a.m., "Backstabbers" rock and soul show at 7. Monday—Trivia quiz at 7. Tuesday—Pool tourney at 7.

**PX direct line**

PX customers wanting to request merchandise or comment on exchange service or other topics can use a "direct line" to the AAFES commander by filling out a postage-page card available at the store. Redstone Arsenal's PX is one of several exchanges now featuring the direct line program to allow patrons to make their feelings known to Maj. Gen. Richard D. Murray.

**Carpool Hotline**



Call 876-1500 to place your free carpool ad.

**AAAA meeting**

The Tennessee Valley Chapter of the Army Aviation Association of America will host a dinner meeting Thursday, July 18, at the civilian recreation area rustic lodge. Retired Maj. Gen. Frank P. Ragano, chairman of the board of BDI Defense Systems, will be guest speaker. There will be a social at 6:30 p.m. followed by a barbecue supper at 7:30 and speaker at 8:30. Cost is \$6 and dress is casual. All persons interested in aviation are invited. For reservations call 876-3106 or 876-8367.

**Found property**

Two bicycles and a radio are being held for the owners by military police. One bicycle is a blue J.C. Penney brand and the other is a Spiral brand silver in color. The AM/FM cassette player is silver and black and made by General Electric. To identify and claim the items contact the Investigations Division in building 3649, telephone 876-2090/3449.

**Space Dome film**

Redstone Arsenal and contractor personnel are invited to two free showings of "The Dream is Alive," the new Space Dome film at the Alabama Space and Rocket Center on Thursday, July 18, at 7 or 8 p.m. No reservations are needed.

**Logistics engineers**

The Tennessee Valley Chapter of the Society of Logistics Engineers will have its regular luncheon meeting July 18 at the Officers Club. A social begins at 11:30 a.m. with lunch at noon. The scheduled speaker is Dr. Paul Jacobs of the guidance and control directorate, MICOM Research, Development and Engineering Center. He is to show a videotape and discuss the Fiber Optic Guided Missile. Chapter officers for fiscal 1986 will be elected at this meeting. Cost of the luncheon is \$6. For reservations call Marty Martin 876-8166 or Glenn Smith 876-9569.



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1982 Plymouth Horizon	\$4,395	5F315A	1980 Mustang	\$3,695	T700A	1979 Datsun 810	\$4,295	5F139C
1984 Ford Escort	\$6,395	5F331A	1979 Buick LeSabre	\$3,995	4T768A	1981 Dodge Aries	\$3,395	5F208A
1980 Thunderbird	\$4,795	5F428A	1984 Ford Escort	\$4,195	T835A	1980 Pontiac Grand Prix	\$5,295	4F279C
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1979 Ford LTD	\$3,395	5F707A	1982 Olds. Cutlass	\$6,895	19383B	1977 Chevrolet Malibu	\$1,995	4F885A
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1980 Ford Mustang	\$3,895	5F759A	1979 VW Scirocco	\$3,995	R2311	1983 Ford Escort	\$4,695	F1112K
1981 Mercury Lynx	\$4,495	4F1209A	1980 Plymouth Horizon	\$2,995	R2331	1980 Mustang	\$3,395	F1204B
1981 Buick Century	\$7,495	5TB39A	1980 Pinto	\$2,895	R2352	1980 Mustang	\$3,395	F1250B
1979 Olds. Cutlass	\$4,695	R2373B	1982 Dodge Omni	\$4,995	R2353	1981 Chevrolet Malibu	\$4,995	F1280B
1984 Thunderbird	\$12,395	R2381	1979 Thunderbird	\$3,495	R2357	1977 Regal Buick	\$2,695	F1296B
1983 Ford Escort	\$5,495	R2391	1979 Olds. Delta 88	\$3,995	R2358	1982 Olds. Cutlass	\$6,895	F1563B
1984 Ford Escort	\$5,495	R2393	1981 Lincoln Mark VI	\$10,695	R2374	1976 Ford LTD	\$1,995	TB96B
			1982 Pontiac	\$3,995	R2376			



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# Few in RASA decline job; more retirements expected

Of the 753 RASA and commissary workers receiving a job offer June 17, only eight declined the offer and four of those indicated they plan to retire.

An additional 32 workers have retired or established a retirement date prior to Oct. 1, and 14 more have been reassigned to other commands.

Job offers were accepted by 699 of the displaced workers.

Many of the workers received drastic cuts in grade, but are entitled to retain their present salary for an indefinite period and in some cases are eligible for retraining. They had 15 days, till July 2, to accept or decline their offers.

Civilian Personnel Office's RIF team is in the process of rerunning the RASA reduction-in-force to reflect the reassignments, resignations and

retirements. New placement rights are being determined and new letters will be delivered by August 12.

Each time a retirement, reassignment or resignation vacates a position, "we have to go back and see who's entitled to that vacancy and it causes a chain reaction that could affect several," said CPO's Kay Whitaker.

Whitaker said it will take some time for the RIF process to completely run its course. More vacancies are expected to occur as more of the some 200 people in RASA eligible to retire opt to do so. "We expect more retirements. A lot haven't made up their mind. There will be others leaving, I'm sure," Whitaker said.

## Many Army couples not yet enrolled in program

WASHINGTON — Soldiers married to soldiers have until Oct. 1 to enroll in the married Army couples program if they want to be considered for joint assignments.

Some 14,000 soldiers (7,000 couples) currently married to each other have not yet enrolled in the program, according to Delores Bolding from the Military Personnel Center in Alexandria, Va. Those who do not enroll will lose their eligibility for assignment under the program.

Similarly, soldiers marrying after the cut-off date must apply for the program within 60 days, she said.

Couples can enroll in the program by going to either spouse's personnel office. If both are in either the enlisted or officer ranks, only one transaction will be

necessary. However, if an officer marries an enlisted soldier, two transactions will be required — one for each soldier's management files.

The 9,000 couples already enrolled in the program won't need to take action. Their previous registration will remain valid.

Soldiers not meeting the scheduled deadline still can enroll in the program at any time, Bolding said. However, there's no guarantee they will be considered for joint domicile in an upcoming reassignment.

Also after Oct. 1, the personnel center will consider soldiers for joint assignment only if the arrangements can be made before either receives orders for a reassignment, Bolding said. (Arnews)



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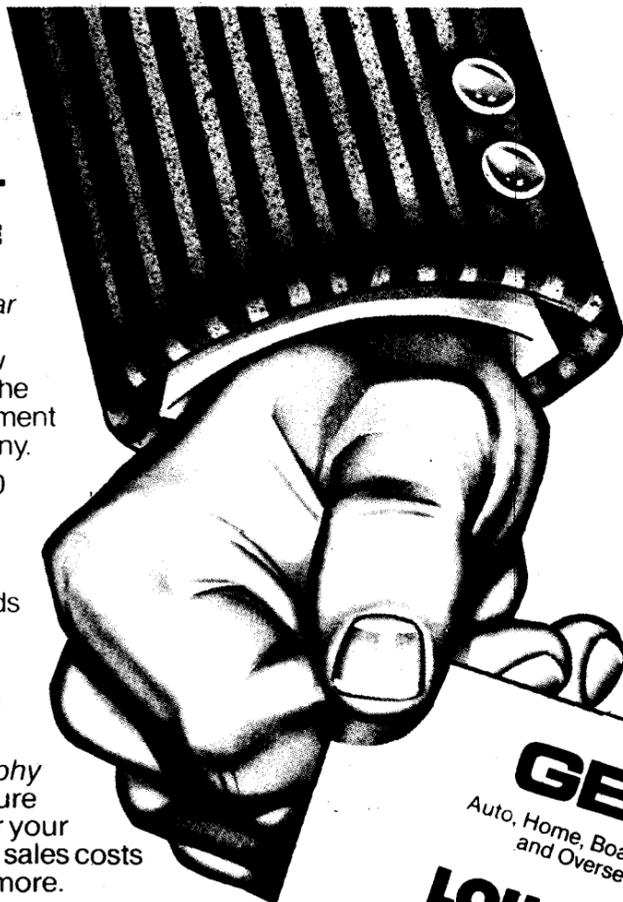
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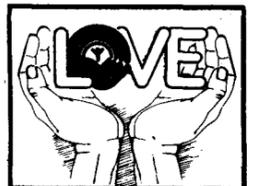
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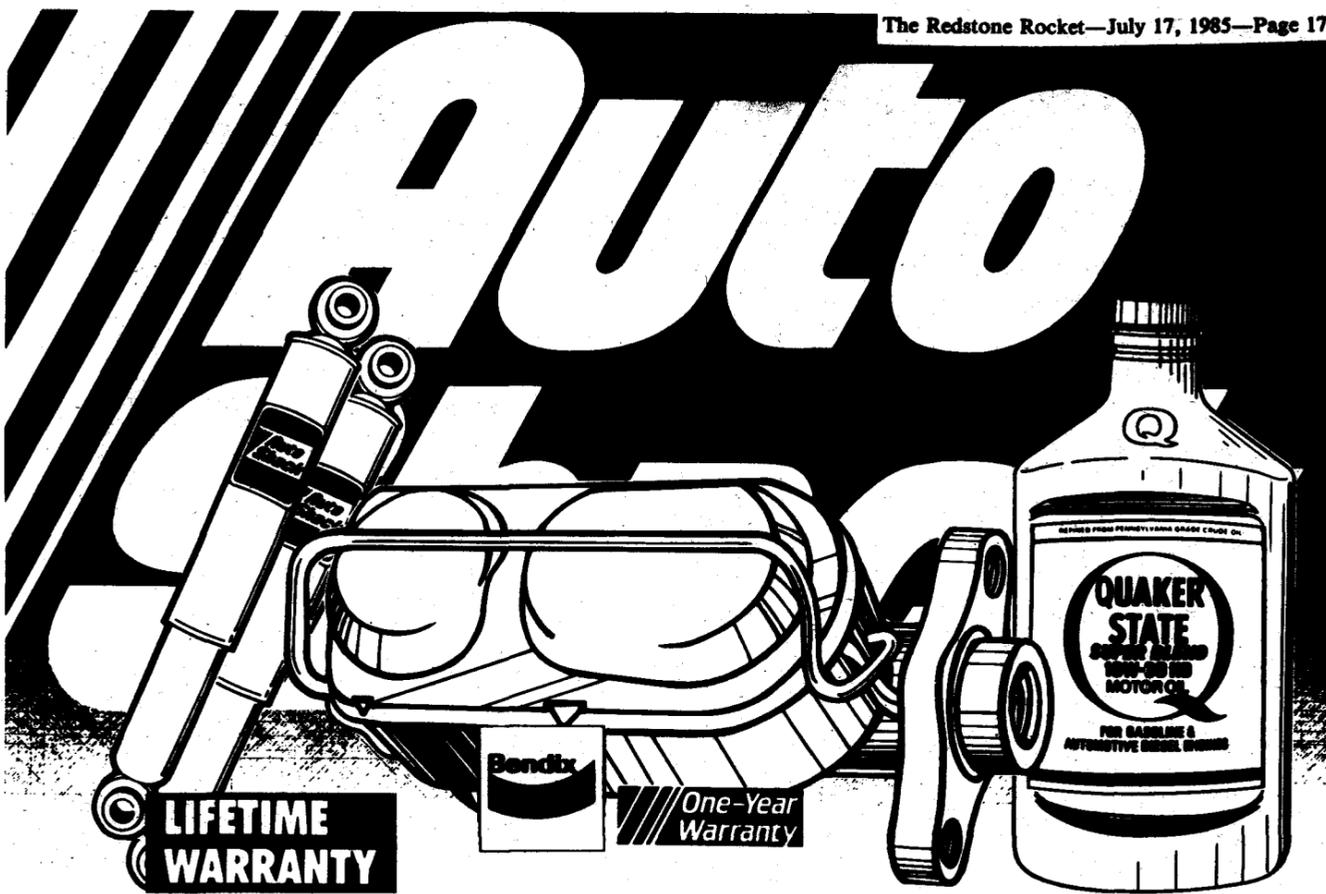


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# Berlin Wall divides a city

WASHINGTON — On August 13, 1961, the citizens of East Berlin became prisoners behind a barbed-wire barrier erected while they slept through the night.

All communication between two halves of the city had been suddenly cut off. The city's railway was completely stopped, and so were all but one of the underground trains. East German troops were reinforced by tanks and armored cars.

Within five days, the barbed-wire barrier had become a nine-foot concrete wall that prevented even eye contact between friends and family in East and West Berlin. In addition, the East German countryside was secured by an encircling, electric-contact fence and by watchtowers with spotlights and armed guards.

Since then, the Berlin wall has been modified four times. The most recent stands as one thick white wall of interweaving panels with a deeply implanted base and a slitted pipeline that runs across the top.

Today, Berlin remains the only city in the world still occupied by foreign military forces put in place during World War II. American, French and British armies occupy the western city, while the Soviet Union occupies the east.

America and its allies will probably remain in Germany for the foreseeable future, according to an official from the International Security Policy Office in Washington, D.C. "West Berlin is the outpost of freedom. We're there to maintain the freedom of West Berliners," he said.

The U.S. Army supplies some 7,500 soldiers and 1,100 airmen to defend that freedom.

"After 24 years, the wall remains a symbol of man's inhumanity to man, a symbol of the total bankruptcy of the Eastern regime," the official added. (ARNEWS)

# Vessey to retire; replacement named

WASHINGTON — The White House announced July 11 that Army Gen. John W. Vessey Jr. will retire from active service, stepping down as chairman of the joint chiefs of staff on Sept. 30.

The president has nominated Adm. William J. Crowe to succeed Vessey as chairman.

Vessey, 63, a 46-year veteran, received a battlefield commission during action at the Anzio beachhead in Italy in World War II and is the last of the nation's top military leaders who fought in World War II. He started his military career as an enlisted soldier in the Minnesota National Guard.

President Reagan, responding to Vessey's request to retire, expressed his "profound thanks and admiration for his dedicated service in bringing about a safer, more stable world."

Vessey, who plans to retire to Minnesota, has served as chairman of the joint chiefs since June 1982. (Arnews)

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1973 Hornet \$800, 1972 Chevy Nova, \$1,300, 1978 Yamaha \$500, 1979 Yamaha \$1,100 Yamaha Special \$1,400, Call after 4 534-2004.

For sale: 84 Nissan 200SX Turbo, Thunder black, loaded, ext. warranty,

18000 miles, asking \$10,300, Mike, (h) 533-6784, (w) 876-2165.

For sale: Queen size mattress/box springs \$100, Zenith am/fm stereo console, \$60, kitchen table w/4 chairs \$15, Call 881-1810 after 1700 hrs.

For sale: 1982 Honda MB-5 Cycle, Small bike, like new, \$375, 881-0946 home, 876-1314 work.

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# 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.

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**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.

### AN INDEPENDENT PROFESSIONAL SCHOOL

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

- Master of Science
- Master of Science in Engineering
- Master of Science in Management
- Master of Business Administration
- Doctor of Science
- Doctor of Engineering
- Doctor of Management

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

**(205) 837-9726**

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