

Redstone Rocket

Vol. 32 No. 49

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May 23, 1984

New Spike rocket's a fast, hard hitter

BY ED PETERS

The Spike hypervelocity rocket that has speed and accuracy almost like a rifle bullet is being fitted with a new warhead that will give it the effect of a shotgun blast.

Spike is different from other Army rockets in that its warhead doesn't contain explosives. Instead, a one-pound tungsten rod traveling 5,000 feet per second hits so hard that its kinetic energy liquefies armor plate and the warhead penetrates.

Spike originally was built for heavily armored targets but its small size, speed, accuracy and inexpensiveness prompted researchers here to try their hand at a different type warhead that would make the rocket more useful against lightly armored ground targets and aircraft.

They are now developing for lightly armored targets a warhead containing "hypervelocity penetrators" of tungsten that resemble large nails with fins on the ends. Eighteen such penetrators will be released in a single shotgun swarm. Sled tests using the new warhead are planned in July.

This multiple penetrator warhead for Spike is being developed in anticipation of putting the rocket on helicopters and also on the new "Humvee" utility vehicle. In the latter application the rockets will be paired with Stinger guided missiles and high technology sensors in a light air defense system being developed here for roof-mounting on the Humvee.

"The beauty of this rocket is that it can be mounted on almost any Army aircraft and on a variety of different type ground vehicles," said Jim Burt, Army Missile Laboratory's lead engineer on the Spike project.

"The two prime carrier vehicles as it appears right now are helicopter-borne systems and Humvee-borne systems," he added.

Able to travel almost a kilometer in a mere second, Spike prevents the target having time to react to the launcher vehicle. "It gives an opportunity to kill targets quickly and cheaply. The cost is extremely low compared to a guided rocket that can do the same job," Burt said.

Engineers calculate Spike rockets will cost less than \$500 each with multiple penetrator warheads.

Another advantage of Spike is that it gives the Army a different kind of kill mechanism against enemy armored vehicles. Burt explains, "Armored vehicles are primarily designed to defeat chemical warheads. If they have to design to defeat both chemical and kinetic energy (hypervelocity) warheads, it makes their design problem a lot more complicated."

Spike is a new development but its concept — a small, inexpensive yet accurate and effective hypervelocity rocket — goes back a long time, at least until the early 1960s when Army Missile Laboratory built a small experimental rocket which was fast but not sufficiently accurate. In the late '60s another hypervelocity weapon was built, this one a big, two-stage rocket that worked but was never produced.

A decade later Army Missile Laboratory Director Dr. William C. McCorkle asked his aerodynamics branch in Systems Simulation Directorate to take another look at the concept.

"We started in 1977 at a low level, not much fun-



AIR BATTLE — Artists drawing shows Spike with multiple penetrator warhead being fired from a helicopter.

ding and not much interest among potential users," recalls Burt, 42, an aerospace engineer who joined the laboratory in 1960 as a part-time student worker.

The first Spikes weren't too promising. They were costly, they blew up in the launch tube and weren't sufficiently accurate.

All three problems stemmed mainly from the metal motor case. It was expensive to make, tended to burst

from internal pressure and accuracy was impaired by misalignment of the motor case and rocket nozzle which were built separately and bonded together.

These problems were solved, however, with a new motor case, designed and fabricated here by Structures Directorate, which uses a metal mandrel wrapped with graphite fiber and then overwrapped with kevlar, the

(see Spike cont'd on Page 6)

Certain functions studied for possible contracting

The Department of Army has announced plans to study commercial activities now performed by government civilians on military installations for possible conversion to commercial contract.

At Redstone Arsenal, in addition to previously announced functions to be reviewed, the commissary shelf-stocking function has been added. This function now employs 29 civilians.

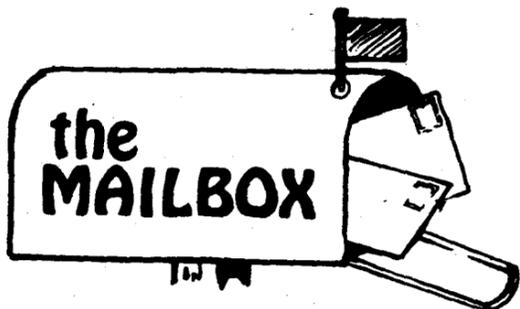
The Army said that the decision to review these functions for possible conversion to contract follows government policy to rely on private enterprise for goods and services to the maximum extent when it is proper and economical to do so.

Conversion to commercial contract will be con-

sidered only after a detailed cost comparison analysis is completed, the Army said, and only if firm bids indicate that contracting is more economical than doing the work with federal workers.

"If the review shows it's cheaper and more efficient to perform the work in house, the Army will continue to march under the present system," said Col. James R. Grant, MICOM comptroller whose Plans and Management Division is monitoring and coordinating the MICOM review.

Grant said several months will be needed to complete the study at Redstone and that the Army will keep everybody informed about events as they occur.



Morale problem

Editor:

My curiosity is getting the best of me. I work in the Materiel Management Directorate, and morale there is just about at an all time low. People are being pushed beyond normal expectations, special projects and requirements are becoming a normal routine rather than an exception (all this in addition to your daily job), tempers are flaring, productivity is suffering and cooperation among the various MMD organizations is lacking.

What I'm wondering is, is this morale problem limited to MMD? If it is, does Mr. Jack Isom realize how bad it is, and does he care? If it is a more widespread problem than just MMD, is Maj. Gen. Bunyard aware of it?

More and more people dread coming to work every day. I used to love my job; I no longer do. I think I'm still trying as hard as I can under the circumstances but MICOM is no longer getting 100 percent out of me.

The sad thing is that it's not just me. I look around and that same feeling is all around me. Someone needs to find out what is happening!

Name withheld by request

Petty pilfering

Editor:

FTS does not mean "Free Telephone Service." It is an expensive network. If used improperly by some, others place their urgent calls on commercial facilities. This creates an additional cost of thousands of dollars a month.

Before the FTS network was installed, extensive studies were conducted to determine the number of lines needed. Sufficient equipment was made available. Very soon, without appreciable increase in personnel, the network was overloaded. More lines were added. With each new line, apparently more people were encouraged to place their social and personal business calls on the "Free" service.

Mis-use of the telephone is equivalent to other petty pilfering of paper, paper clips, pens, pencils, the use of copying machines for other than official documents, as well as the outright theft of more costly objects.

The person who authored "Phone calls" ("Mailbox," May 9) seems to be upset, not because some workers abuse this utility, but because others do not have the opportunity to do so.

Martha Smart
USACC-Redstone

Important issue

Editor:

This is in reference to the "Alcohol related" letter that appeared in the May 9 edition of the **Redstone Rocket**. The issue was that there was too much emphasis put on the military about D.U.I.'s and not enough put on the civilian personnel. I agree that all people should be treated the same for the same crime.

But, I think it's time for the military to wake up and realize just what we stand for. I am sure the emphasis put on the military for D.U.I. is to make us realize that we are the military. We are the symbol of protection to the United States. How are we going to protect anyone if we cannot even follow by the rules and regulations of our organization? If we cannot control our intake of alcohol (drugs, for that matter) and drive, and risk killing ourselves or a member of our own family, how can we be responsible for thousands of lives? I am sure that if a person cannot drink and drive, he sure can't drink and shoot a weapon.

It is time for the military to wake up and realize just how important this issue is. If one thinks the military is being "harassed" for driving while drunk, it is time for that person to give up his military uniform and become a civilian; so that he won't be "encouraged" to do something right for himself and this country!

Gwendolyn R. McChristian
PFC, A Company

Word to the wise

Editor:

This letter is prompted by a memo dated May 9 titled "Comfort Air Conditioning Costs". The memo states due to the extremely cold weather for extended periods of time etc. we should be reducing, not increasing, energy consumption.

With the higher cost of energy the writer of the memo should have applauded a 3.77 percent increase as an actual reduction of 15 to 20 percent.

The memo also kindly reminds us of the money to be saved by not turning on the air conditioning and to accept some discomfort. As colonels come and go we in buildings 5678, 5687 and 5681 can tell them we haven't waited for an energy shortage. We also have experienced a lot of discomfort for over 20 years every spring and every fall, also a lot of the time in between.

If the writer of the memo would care to enjoy "some discomfort", stop with us in 5678 when the temperature is in the mid-80s. Our computer terminals, printers and other office machinery and lights will soon wilt the best of people. Don't come in high humidity or rain as sweat makes the floors slippery.

A final word to the wise: for every dollar saved in "comfort costs" two are lost in manpower fatigue and sick leave.

Name withheld by request

Space camp scholarships available from ACS

Three scholarships to Space Camp will be awarded by Army Community Services to local military children this summer.

The scholarships, made possible by donations from the officers and NCO wives clubs, are for family members in grades 6-8 with a "B" average and interest in science. Children of both active duty and retired military personnel are eligible.

Applicants must complete an essay of at least one but not more than two pages in length on "Why I want to go to space camp".

Scholarship winners will be selected by a five-judge panel.

The scholarships, worth \$350 each, are being administered by the recently-formed ACS Education Committee. "This so far is our biggest project," said volunteer chairperson Janice Gaultney. "We're trying to get things going in the education area that touch children on the arsenal," said Gaultney, who has a master's degree in the education field.

Among other projects, the committee is looking into the possibility of arranging summer computer classes for arsenal youngsters.

Additional information on Space Camp scholarships can be obtained by calling Cindy Croll at 876-3704 or Rita See at 876-2859. Scholarship applications may be picked up at the ACS office or at the PX, Commissary, NCO Club or Officers Club.

The popular Space Camp is held weekly during the summer by the Alabama Space and Rocket Center to stimulate in young people an interest in careers in aerospace and high technology.

The camp agenda includes a visit to the Army Missile Laboratory and to Marshall Space Flight Center on the arsenal. Campers also participate in a simulated Space Shuttle mission.

**THE REDSTONE
ROCKET**

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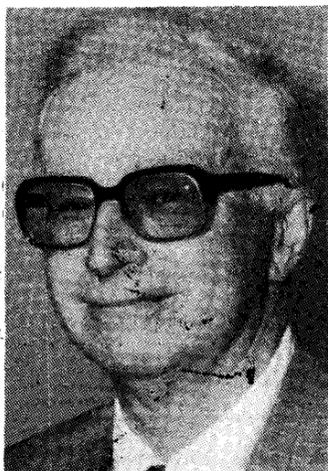
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Officials warn against drunk driving, urge wearing seat belts for safety

BY SKIP VAUGHN

Recent accidents have shown that drunk driving is still a problem and that seat belts can help save lives.

This is according to safety officials here who also urge motorists to drive within the speed limit.

"With Memorial Day and the summer coming up, any of our people both military and civilian who drive or go on vacations or outings need to be sure they don't drink and drive. If they do drink, they need to have someone who can drive for them. And all occupants should wear seat belts," said Frank Hart, chief of MICOM safety office.

Officials have estimated that more than 50 percent of automobile deaths involve alcohol. "Over the last few years, four of the last five motor vehicle accidents that have involved fatalities (at Redstone) involved drinking and driving," Hart said.

People here charged with drunk driving, either on post or by civilian authorities outside the arsenal, are to have their driving privileges on Redstone Arsenal immediately suspended until their case is resolved. If convicted of drunk driving or if they refuse to take a blood alcohol test, their driving privileges on Redstone will be revoked for one year. The post commander is also required by the Army to issue a letter of reprimand to any person on active military duty convicted of drunk driving, or who refuses to take a blood alcohol test or, having taken the test, registers .1 percent blood alcohol content or higher.

Some 19 people here, 12 military and seven civilian, were among the 689 arrested in Huntsville for DUI in the past four months. "I think that's one indicator that we've got some problems out here or that really our people's problems aren't any different than other's in the community," said Jane Seltzer, chief of the Human Resources Development Office. "As far as treatment goes we're still running considerably more alcohol cases than we run drug cases. We run about three times as many alcohol cases as we run drug cases. That isn't a new trend for us."

Military police here see an increase in the number of arrests for driving under the influence.

"Driving under the influence of alcohol is a problem everywhere in America today. Department of Army is concentrating an effort, as well as military police here on Redstone Arsenal, to in fact deter and prevent driving under the influence," said Capt. Dale McNeely, chief of police operations division. "Looking at our statistics from last year, we have increased DUI apprehensions thus far this year compared to last."

Seat belts can help people survive a wreck caused by a drunk driver, according to safety officials. "We want to get the drunken driver off the road, but if we can't get him off the road, you've got to protect yourself by wearing seat belts," Hart said. "It is important you wear seat belts whether you're going 5 mph or 50 mph, because seat belts will protect the operator on sudden braking. It keeps you in your seat so you can control the car, keeps you in your seat so you don't impact with the steering wheel or windshield."

Alabama does not have a seat belt law. Safety officials are trying to educate people to wear seat belts by recently putting up seat belt signs on arsenal roads.

In a fatal two-car wreck on post April 23, the woman passenger who was killed was not wearing a seat belt. "The passenger compartment remained intact from the impact and if she had been kept in her seat, she would've survived," Hart said.

Speeding, which can be a contributory factor to accidents, is described as a continuing problem here. "We still see that people are driving around on post not observing the speed limits," Hart said. "If you drive the speed limits here on post you find 90 percent of the cars are passing you."

Military police would rather not have to issue so many speeding citations.

"We consider speeding a serious problem on Redstone, especially in the housing areas," said McNeely, the police operations chief. "With summer approaching and children getting outside more, the potential for accidents increases; therefore we will be intensifying our efforts to deter speeding in the housing areas. We average approximately 150 speeding

citations a month (post-wide). We would certainly like to see that decrease."

"No thanks. I'm driving."



Four words that may save your life or someone else's
Army seeks review of Chambers' reinstatement

The Army's chief legal counsel has said that the government will request judicial review of an order to put John W. Chambers back to work.

An article in Friday's edition of the **Huntsville Times** quoted C. Richard Witson, chief of legal services for the Army, as saying the government would seek review by a federal circuit court of Chambers' reinstatement order.

Whitson said in the article that the Army was "moving expeditiously on this matter because it is one of great concern to us."

Chambers was fired July 30, 1982 from his job here as a GS-13 general art and information officer with Army Missile Laboratory following a felony conviction in federal court of conspiracy to defraud the government.

He appealed the dismissal to the Merit Systems Protection Board which ordered the Missile Command to reinstate Chambers with back pay and a one-grade demotion. MICOM complied with the order earlier this month and assigned Chambers to GS-12 duties in Missile Logistics Center.

Chambers was convicted of falsely authorizing payment for manuscript pages not received to pay back a contractor Laird Enterprises, for picture frames and art supplies.

Missile interceptor effort in concept definition phase

The Army's Ballistic Missile Defense Systems command on May 10th awarded four contracts for nearly \$500,000 each for concept definition of its Exoatmospheric Reentry-vehicle Interceptor Subsystem (ERIS)

The firms selected to proceed with their proposals are Hughes Aircraft Co., Canoga Park, Calif.; Lockheed Missiles & Space Co., Sunnyvale, Calif.; LTV Aerospace and Defense Co., Dallas, Texas; and Martin Martetta Corp, Orlando, Fla.

Each contractor will perform a five-month study to define ERIS specifications, after which the Army will combine the best features of the four concepts into a single design specification. That specification will be

the basis for an unrestricted competitive acquisition for the ERIS functional demonstration program.

ERIS is envisioned as a ground-launched non-nuclear interceptor that could destroy a ballistic missile reentry vehicle during the midcourse portion of its flight before it reenters the atmosphere. ERIS is likely to be a multistage, lightweight missile employing an optical sensor for homing on its target.

The ERIS effort is part of the overall goal of the U.S. BMD program to develop capabilities for countering the ballistic missile threat to U.S. strategic offensive forces, urban, industrial and other military targets.

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Weekly prayer breakfast popular with troops

Every Wednesday at 6 a.m. Post Chapel is one of the most active places on the arsenal. Between 100 and 150 come to the weekly ecumenical prayer breakfast there.

According to Maj. Cecil Ryland, the project chaplain, the prayer breakfasts are the only ones of their type in the Army, and they consistently attract the troops. They have been a regularly scheduled event at Post Chapel for almost 10 years, and they are open to all military and civilians and their families.

A continental breakfast of doughnuts, hard boiled eggs, milk, juice, and coffee is served buffet style before the service begins. Most people eat standing up in small conversation groups. Ryland leads the service which usually begins with songs and prayer. Each week a guest speaker from either military or civilian life gives a short talk with a religious or patriotic theme. An honor company the Missile and Munitions Center and School or other company-sized unit is recognized, and the unit flag from that company is on the stand during the service.

Ryland reports the results of a survey made to determine the reasons behind the success of the prayer breakfasts. The overall response was that the troops felt that this is their own special worship service.

Speakers scheduled for upcoming prayer breakfasts are: May 23, Ray B. Jones, Huntsville civic leader; May 30, Patty Wilson, Christian education director at Bicentennial Chapel; June 6, the Rev. Joe Culotta of Holy Spirit Parish, Huntsville.

Beginning the week of June 4, the time of the prayer breakfasts will be 6:30 a.m. On Oct. 1 the time will revert to 6 a.m.

At a recent prayer breakfast Pvt. Tara Harrison was attending after having been here only a week. Capt. Sam Merrill said he likes to come to prayer breakfasts because they offer a religious experience in the middle of the week. Maj. David Megahan said he attends regularly because of the excellent speakers and the chance to be with the troops.



SONG TIME—Capt. Cecil Ryland leads songs opening a weekly prayer breakfast at Post Chapel.

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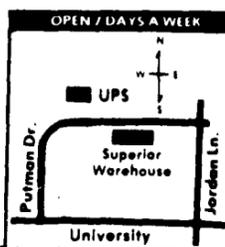
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Bowling center summer program includes civilians

Civilian workers here and their guests will be able to use the bowling center on post this summer.

The summer bowling program, June 1 through Aug. 31, is open to Redstone civilian defense employees and guests. "This is for everybody that's eligible to bowl and civilians will also be able to participate in this program as well," said Ron Dismuke, manager of the bowling center.

Proper identification (security badges) should be presented on each visit. In case of overcrowding, active duty military and their family members will be given first priority.

"Winter is our peak season and summer is a slow period for us, we don't have as many leagues. So this (program) gives us an opportunity to open up our lanes for more active open bowling," Dismuke said. Special attractions and discounts will also be offered for the summer.

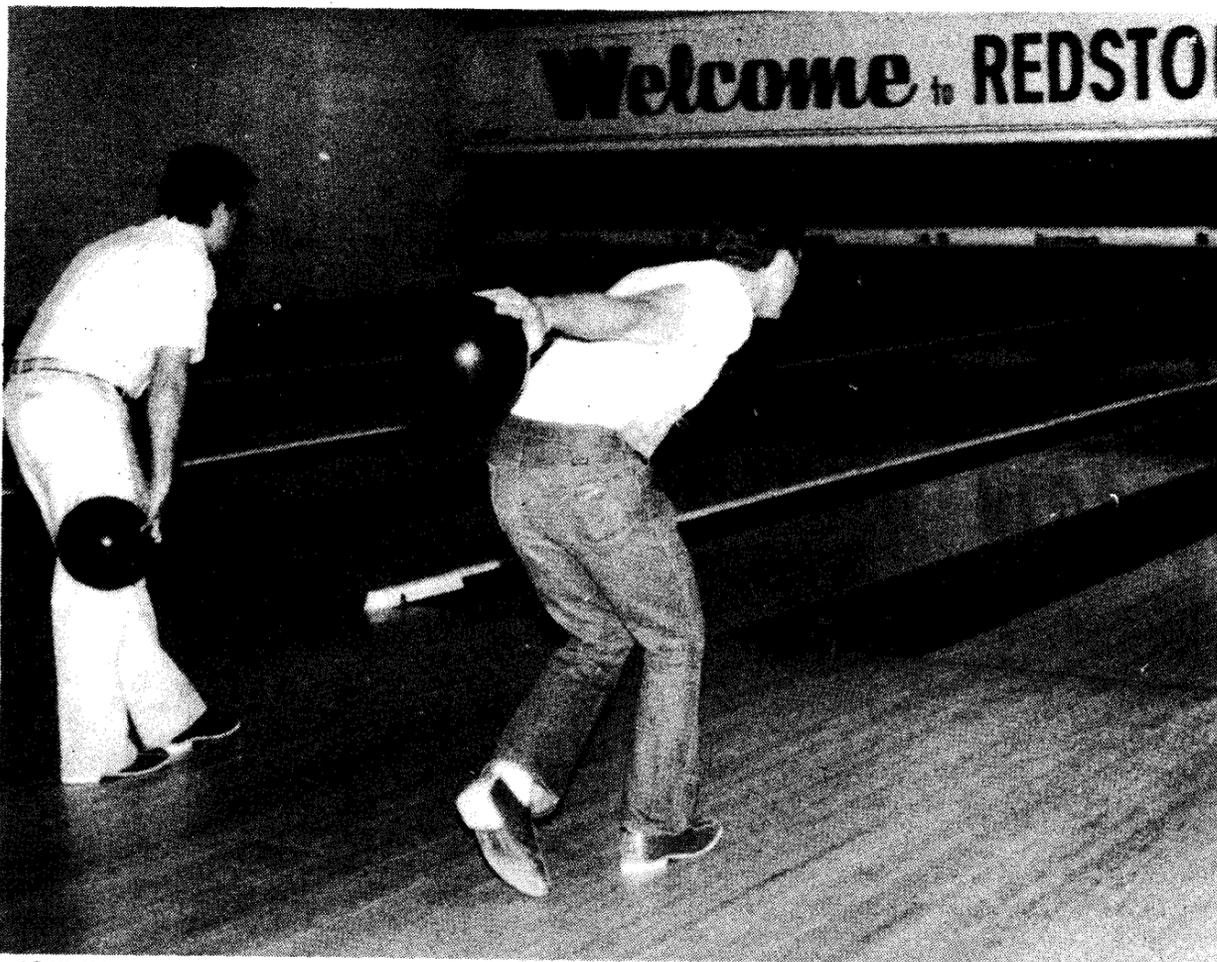
Red pin day will be all day Sunday and Monday and 6 p.m. to midnight Tuesday through Thursday. A strike when the head pin is red wins a free game. Friday nights from 9-11 will be moonlight bowling. This is a time for bowling in the dark when the only lights on will be pin deck lights.

Discount price during the summer is 50 cents per game from 9 a.m. to 6 p.m. Tuesday through Saturday. All other times bowlers will pay the regular price of 75 cents a game. Shoe rental is 30 cents.

"We're trying to provide as much activity for the military as we possibly can at a reduced rate and also to give incentive to bowl by giving away free games through red pin," Dismuke said. "We've had a great response to our moonlight bowling in the past. Everybody really seems to enjoy that, and we're hoping it will go over well again this year."

The bowling center consists of 16 lanes, a snack bar and a pro shop that sells bowling equipment. "We also have facilities for ball drilling," Dismuke added.

Civilians will be able to use the entire bowling facility except for the pro shop which is strictly for military



BOWLING — The Redstone bowling center offers 16 lanes.

personnel and their families, he said.

The center is located in building 3707 next to the parade field off Patton Road. Its hours are 2-9:30

p.m. Sunday, 3-10 p.m. Monday, and 9 a.m. to midnight Tuesday through Saturday. Holidays will be announced. For more information, call 876-6634.

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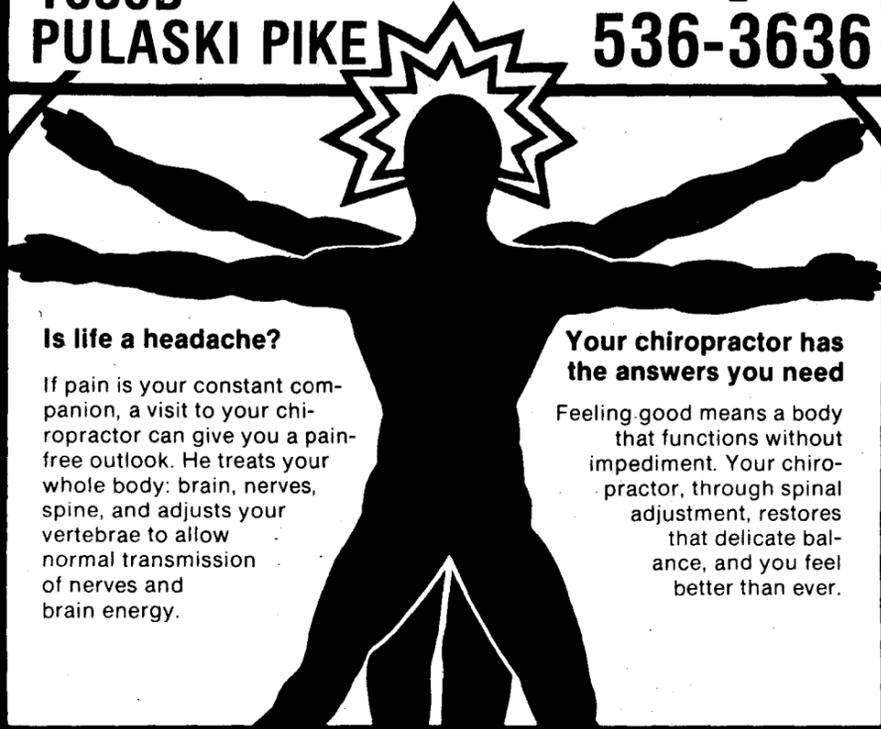
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Spike

(cont'd from Page 1)

tough, plastic-like material used for body armor.

This composite-material case, cheap to make, can withstand the intense internal pressure and also solves the misalignment problem since the the motor case and rocket nozzle are all one piece.

The rocket has few metal parts besides the tungsten warhead and the stabilizing petals on the tail end that function similar to fins. These spring-loaded petals fold up inside the launch tube. On their underside are little spin vanes. The exhaust plume impinges on these, giving the rocket a spin rate of 40 revolutions per second as it leaves the launch tube.

Hurling downrange at 5,000 feet per second, the rocket's booster burns out at 180 meters and simultaneously the warhead separates from it and flies straight to the target.

In flight tests Spike has demonstrated the best accuracy ever achieved with a rocket whose motor burns outside the launch tube, Burt said. A 130 round test program was completed last fall that included shots which demonstrated the rocket could be fired from a helicopter accurately and without damaging the aircraft.

Spike uses a launcher that, like all other aspects of the rocket, originated in Army Missile Laboratory. The launcher is a six-round throwaway clip developed by Structures Directorate.

In battlefield use Spike likely would be employed in multi-rocket barrages. "The concept is not to have a high probability of killing a target with one rocket," explained Burt. "The chances of hitting a a small target at 1.2 kilometers (Spike's effective range) with a single rocket, even one as good as this is, are small. But if you use, say, nine rockets, the probability goes way up."

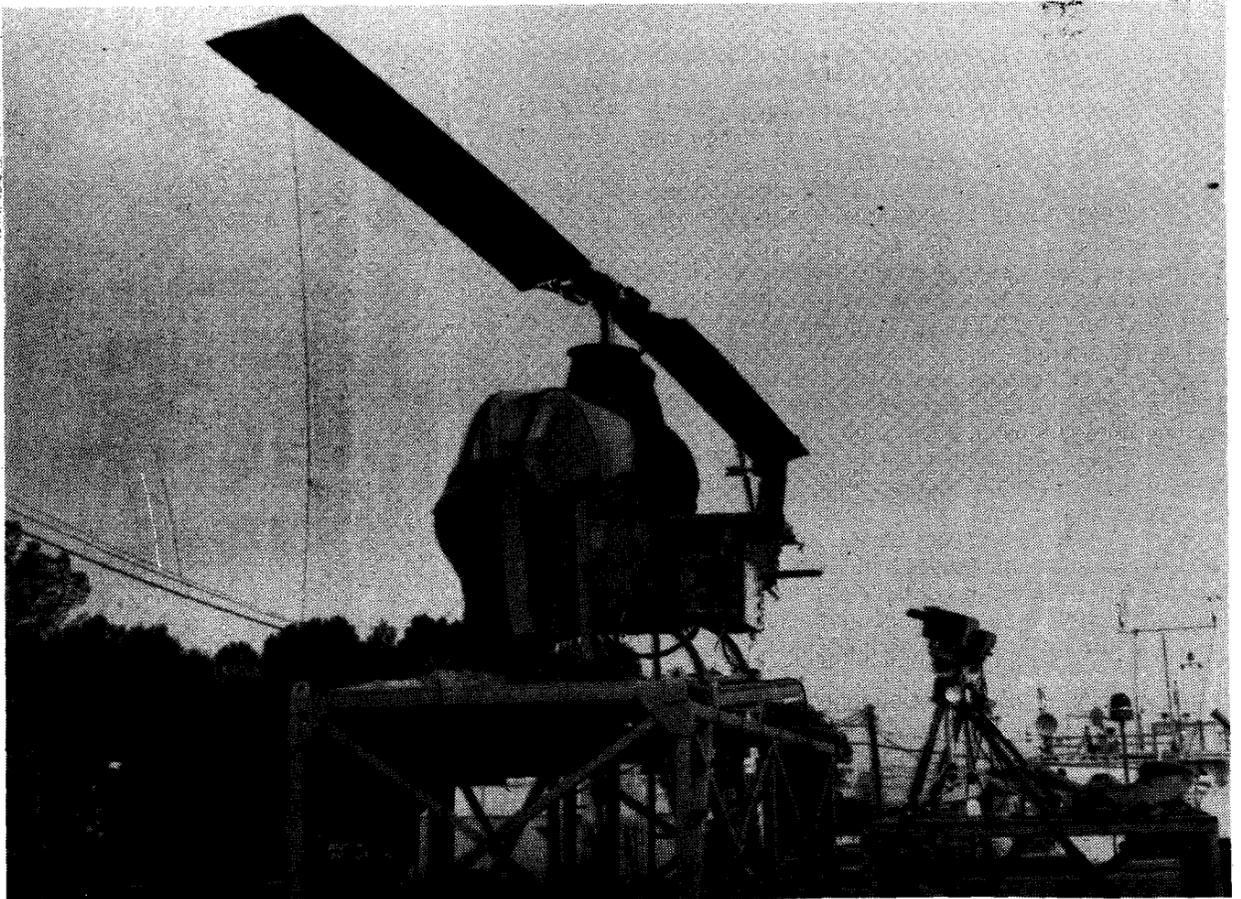
Spike is unusual in that it has been built virtually in its entirety inside the missile laboratory. Burt has been with the Spike program since its inception in 1977. "It's been very rewarding to be on it from the beginning and see the program all the way to being a strong potential candidate for a weapon system," said Burt.

"Also, working with the same group of people with everyone dedicated to the goals we've had in this program has been very rewarding too," the aerospace engineer added.

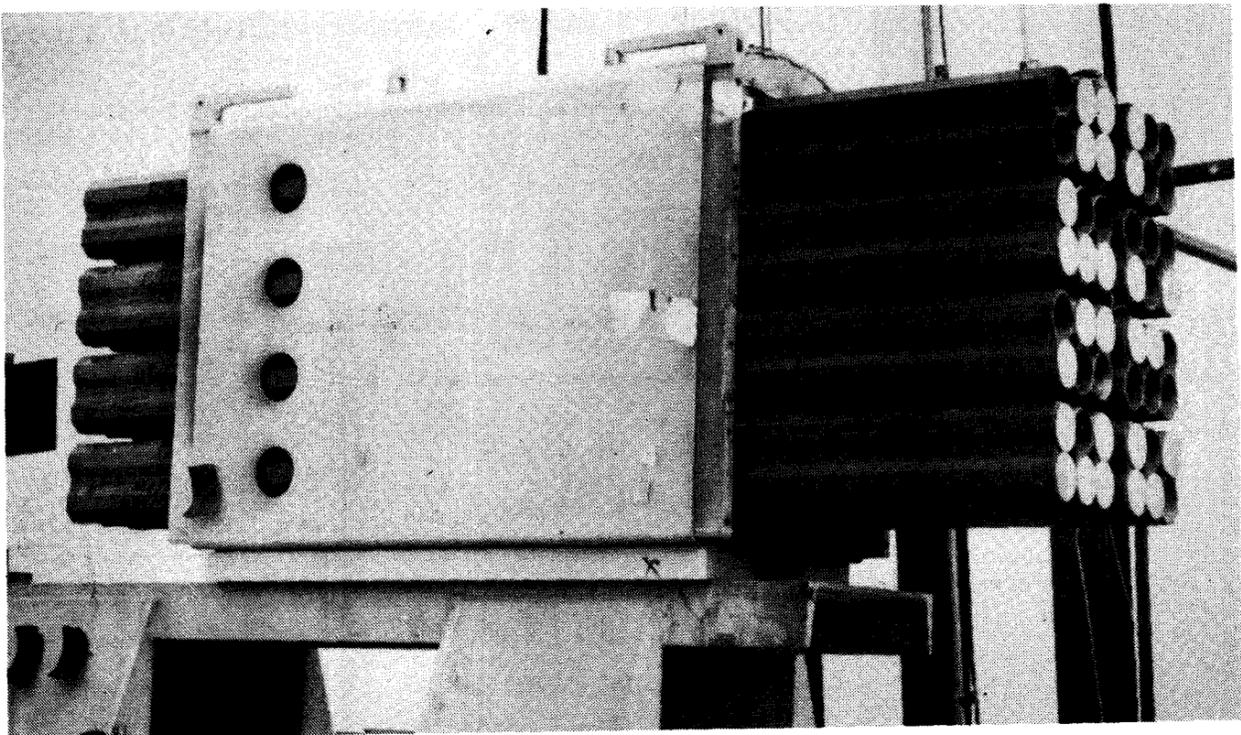
Jim Williams has assisted with structural design, Richard Thompson with design and fabrication of the motor case, Bob Forgey with metal parts fabrication, Gene Rubert and Bill Daugeette with flight test and Arnold Stokes with propulsion systems design and motor loading. Larry Bradford of New Technology Inc. has assisted with metal parts fabrication and flight support.

In building Spike, according to Burt, the laboratory team "always looked at it from the viewpoint, How are we going to build this? You can afford to build one, but what about 50,000?"

"Well, we've ended up not only with a rocket that will do the job but one we can afford to buy thousands and thousands of."

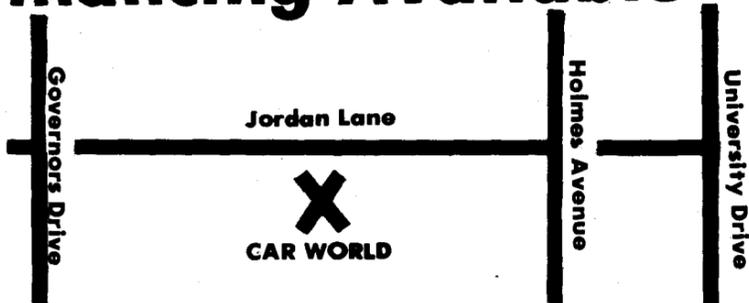


TRIED ON HELICOPTER — A tactical prototype 48-tube launcher was mounted on a helicopter for tests at range 1. The tests showed that Spike could be fired from a helicopter accurately and without damaging the aircraft.



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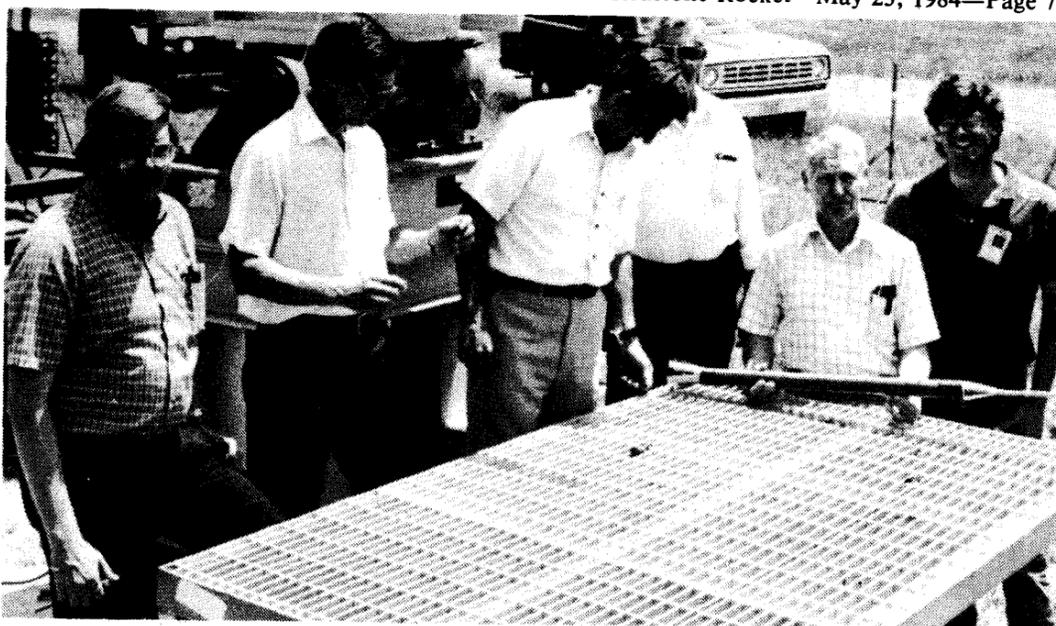
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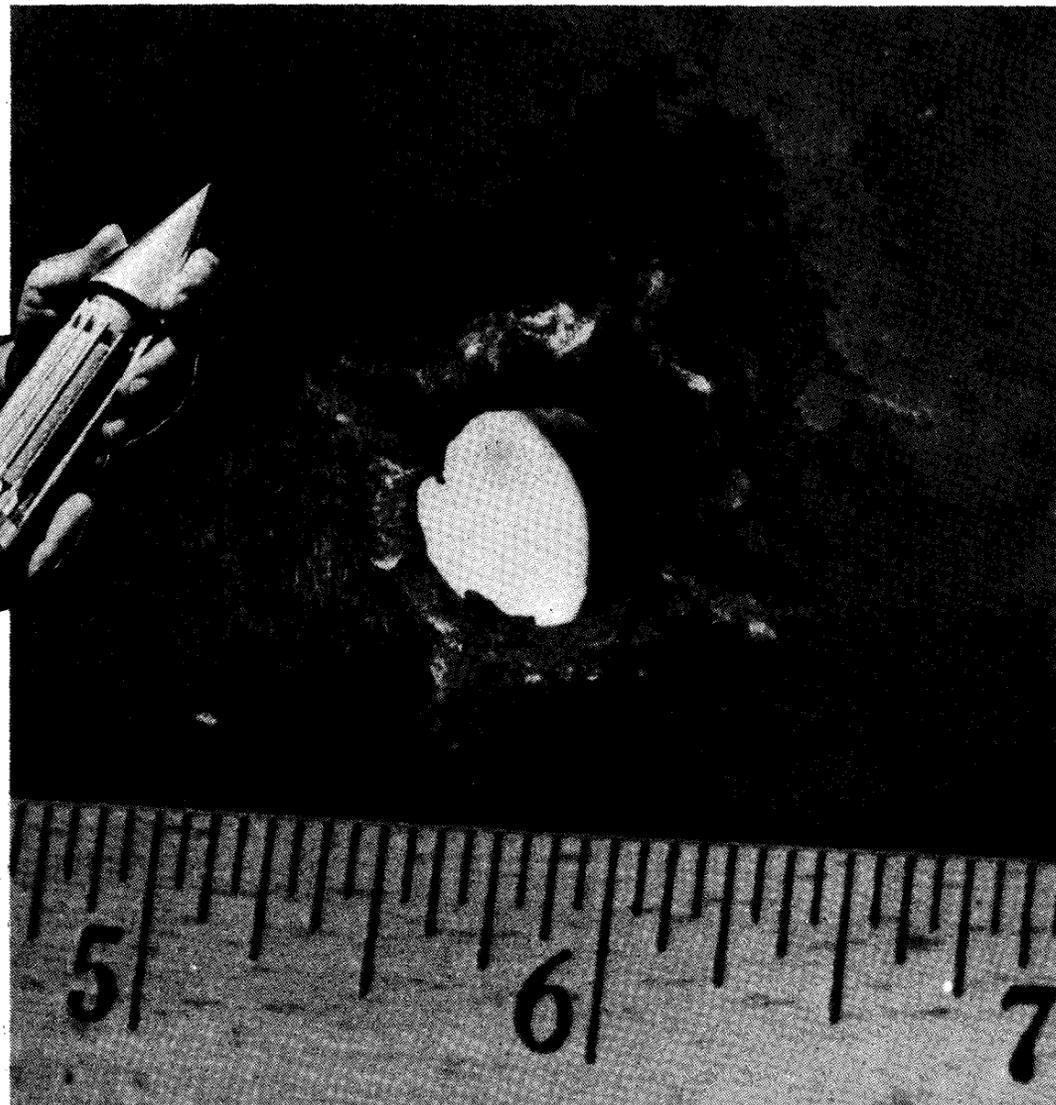
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NEW WARHEAD — Jim Burt shows a model of type of warhead being developed for Spike that releases a swarm of tungsten penetrators.



SPIKE TEAM—Assisting lead engineer Jim Burt in the development of the Spike hypervelocity rocket were, from left, Ray Bradford, Richard Thompson, Bob Forgey, James Williams, Arnold Stokes (holding a Spike rocket) and Bill Daugette.



ROCKET'S IMPRINT — A Spike rocket with a one-pound tungsten warhead made this hole in tank armor in a test shot. Fin marks show around the edge of the hole.



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Spending time alone is part of life as military spouse

Editor's Note: Today is Military Spouse Day as proclaimed by the Secretary of Defense. For this observance two of the many people who sacrifice so their husbands or wives can fulfill service in defense of this nation are featured in the **Redstone Rocket**.

BY SKIP VAUGHN

Early every morning, before getting the kids off to school, Patricia Shamlin runs about two miles. It's just part of being herself, the wife of an Army officer.

"You have to be an individual. At least I do, I feel I do," says Shamlin. She believes it takes a strong-willed person to be a soldier's wife, being able to cope with problems when your husband is away.

Her husband Donald is a major with Patriot Project Office. "He works with computers, he does a lot of traveling," she says.

She gets up to run at 5:30, sees their two children off to school by 8:00, then goes to the post gym to work out about an hour. From there she goes to a dance-exercise (or dancercise) session at Brahan Springs in Huntsville before returning home to run errands. "And I'll throw my volunteer work in there somewhere," she adds.

Shamlin contributes some of her time to Army Community Service, scouting, and to special events at her children's school.

The children come home at 2:30 and she helps them with their homework and discusses what went on at school that day. Eric, 9, is a third grader at Ridgecrest Elementary. Stacy, 7, is in the first grade at Ridgecrest.

"I feel I'm here to keep the home-front smooth," Shamlin says. "You know, keeping it organized." She and Donald got married 13 years ago, about a month before he entered the military. Since then they have moved from Maryland where he had basic training, to Redstone, to Germany, to White Sands, N.M., back to Redstone, back to Germany, and then to Redstone again. They have been here since 1982. "I loved (the traveling), I still do," she says.

Originally from Pike County, Ky., in the eastern part of the state, Shamlin was the last of eight children, six boys and two girls. Her late father Sidney was a coal miner. Her mother Bertha lives in Dayton, Ohio with the other daughter.

Shamlin, 34, has a twin brother named Patrick who was born just seven minutes before her. He was in the Army for two years. An older brother, Eugene, also served in the Army. "He was stationed in Austria. I remember when I was little, seeing post cards from



VOLUNTEER — Patricia Shamlin, wife of an Army officer, helps with the lending closet at Army Community Service.

Austria," she recalls.

Now she can tell her mother and sister about the traveling she does. "Everyone envies the traveling, they were excited about the military," she says. "Everytime I go visit, I tell them what we've seen."

A military spouse does not always get to travel with

his or her soldier, however.

"Living alone, that's one big thing. You learn to live alone, be independent," Shamlin says. "And it takes someone very strong, I feel like, to be a military wife. Strong-willed, able to cope with problems that may arise when your husband's gone."

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Soldier's spouse keeps busy schedule each day

BY SKIP VAUGHN

A typical day for Godfrey Powell is fairly busy especially when her soldier husband is away.

Normally she walks a mile, sends their two children off to school, and performs household chores. But her husband Toney has to spend a lot of time traveling a

three state area for the Redstone Readiness Group.

"I always have a full schedule due to the fact that my husband's in the Readiness Group and things he would do normally I would have to do when he's not here," says Powell.

She has lived the life of a military spouse almost 18 years. "You have your ups and downs but I've enjoyed it. You learn a lot, you must be independent, you must be flexible and being a military wife is not an easy job," she says.

Powell has accompanied her husband on two tours to Germany and stateside assignments to Fort Campbell, Ky., Fort Knox, Ky. and Redstone. They have been here since 1982. She and Toney grew up together in Itta Bena, Miss. and got married almost two years after he joined the Army.

"My mother never wanted me to get married in the first place," she says with a laugh, "wasn't any hard feelings about him being a soldier. By me being the baby they always wanted me to stick around."

Powell, 36, has two older brothers and two older sisters. Her mother Ella died in 1979. Her father, Ernest Meeks, lives in Webster Grove, Mo., about three miles outside of St. Louis. He had served about six years in the Army and is a minister at a church in East St. Louis, Ill., about a 20 minute drive from his home.

Before getting married Powell finished a one-year business course at Mississippi Valley State in Itta Bena. She then began working at the university as a cashier in the cafeteria. She and Toney were married in July 1968 and she stayed in California while he served a one year tour in Thailand. "All the tours he's gone on we've accompanied him on the tour except the one to Thailand," she says.

She has worked at a number of jobs on military posts where they have been stationed and plans to work again this summer.

Her hobbies include sewing, taking walks, bike riding, and coaching and playing softball. Toney, a sergeant first class, is tentatively scheduled to finish his tour here next February. Their daughter Tracia, 15, is in the ninth grade at Butler High School and plays on a softball team. Their son Glenn, 12, is in the seventh grade at Westlawn Middle School and plays on a baseball team.

Powell serves as an assistant softball coach, is vice president of the NCO Wives Club and a member of the DYA Council Board.

"I've enjoyed (military life) so far. It's the different places you get a chance to see, I enjoy traveling," she says. "Mostly everywhere you go you meet people you've met before, that you've been stationed with."

Patriot's spouse day slated next Wednesday

Military Spouse Day will be observed at Patriot Project Office a week from today, on May 30, with various activities for Patriot spouses at project headquarters in Research Park.

Activities will begin at 9:30 a.m. and will include briefings, an organizational review and a tour of Patriot offices.

A display of Patriot equipment is scheduled to be set up in the parking lot.

The Military Spouse Day activities will conclude with an optional lunch at the Officers Club.



SEWING — Godfrey Powell, a soldier's wife, likes to sew in her spare time and makes all her clothes.

CWF starts anew with full slate; second opening day begins with upset

BY MIKE McCOLPIN

Overcoming rain and flooding, the Civilian Welfare League began its softball season anew with a full slate of games.

This was made possible due to the generosity of the NASA league which allowed the CWF to use its fields.

The second "opening day" began with something of an upset as T&E shocked the Cougars 11-2. Jim Springer led the way by going four for four with three runs batted in. Earl Shirley, Raymond Deep, Ken Alongi and Danny Spencer had two hits apiece. Bobby Alongi was the winning pitcher while Lenord Hatcher took the loss.

F&A ran by the P&P Engineers 19-10 as winning pitcher DeWayne Kelly helped his own cause with four hits, as did Harold Jacobs and Cedric Wherry. Dana Wilbanks, Gary Paseur and Frank Thomas had three hits apiece. Ron Hall socked two homers for the Engineers in a losing effort.

Dr. Zoom and the Sonic Boom exploded on the Pershing Project Office 26-1. John Warden, Wayne Westerhouse, and Russ Evans got three hits apiece to lead a 23-hit attack. Westerhouse had five RBI's to back the pitching of Dennis Faulkner.

The Cougars rebounded from its opening loss to stop SIO 18-9. Jesse Myers had four hits and Tim

Richmond three. Ken Lomax homered to back winner Lenord Hatcher.

Rachels blasted MLC 14-1 behind the hitting of James "Mooney" Battle who had two homers and six RBI's. Randy Pate and Cleo McWhorter also homered to give pitcher Calvin Harris his first win of the season.

RADS opened its season with a 9-5 victory over T&E. Jeff Craven, Jerry Arszman, and Ed Scott had three hits apiece in a game in which the lead see-sawed back and forth until the fifth inning. Bob Alongi homered and singled, Rob Dorthy tripled and singled, and Jim Springer and Bobby Bates had two hits apiece to keep it close for T&E.

The Stallion rode over the Corps of Engineers 22-6. It was led by John Pitcher who homered, walked, singled twice, reached on an error and had four RBI's; and John Jordan who went three for three with a triple and two walks and scored four runs.

John Pea had two hits and two walks and James Cox had three hits and a walk as the Express whipped Civilian Personnel 22-3. Don Stout and James Fletcher combined their pitching efforts for the win.

In other games MIA edged F&A 9-8, and MLC rocked Civilian Personnel 27-1. In the win over Civilian Personnel, Austin Watson hit four triples.



Family members learn what BMD workers do

“Can we go in and see where you work, Dad?”
“What do you do there?”

Questions such as those, asked by family members of BMD personnel, were answered Friday and Saturday during a BMD “Family Day.”

It was the second year in which BMD’s facility at Research Park was the site of a special briefing for children and wives or husbands of BMD employees and military personnel.

Presenting the briefing were Brig. Gen. Eugene Fox, deputy BMD program manager in Huntsville, and representatives of the BMD Systems Command and BMD Advanced Technology Center.

Video tapes were used throughout the presentation to show the types of current projects BMD is working on, as well as key events in the program’s evolution.

After hearing and viewing the briefing, family members in attendance got a chance to see where their mother, father or spouse works. Sessions of the Family Day were held after close of business Friday and on Saturday morning.

A teen-ager’s reaction afterward indicated that the event was a success in conveying some of the flavor of the work at BMD.

“All the missiles they work with are neat!” said Holly Crocker, daughter of Maj. Gerald Crocker, who works in program management for BMD Systems Command.



LEARNING ABOUT BMD — Brig. Gen. Eugene Fox, left, shows a model of the Homing Overlay Experiment interceptor to Maj. Gerald Crocker, his wife Donna, and their daughters Holly and Heather.

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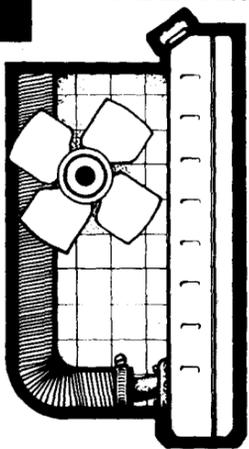


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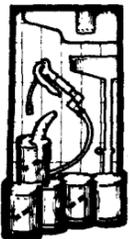


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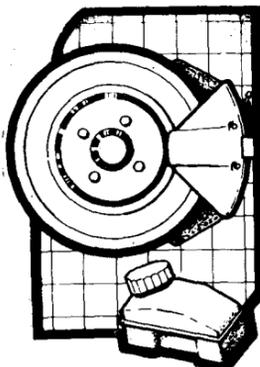
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Get-rich-quick schemes may be illegal

Have your friends told you of their "sure fire" and "fail safe" plans to make hundreds of "easy" dollars in only a few weeks? Is there a chance that you might want to get into the action? Well, if you're thinking about it there are a few things that you ought to know first.

Number one, its illegal, according to the MICOM Legal Assistance Office. Your friends may say its all right because it doesn't go through the mail or for some other reason. But no matter what the explanation, they're wrong.

Before you start thinking about all of that easy money rolling in, think about all the people who have lost money in these rip off schemes.

So what are these schemes? Some people call them pyramid schemes or plans or "flow chart companies." Most people know them by the name "chain letters."

Basically the pyramid scheme starts when two or three people tell their friends that if they invest some money, for example \$100 and they have two other people join the plan, then a money making pyramid will form. Once enough people join the pyramid, so goes

the story, the investor will make it into the "pay line." At this point it will be claimed that the investor will receive money from all the people who joined the pyramid as a result of the investor joining. So, promises of \$800 or so will be made to the investor and buying \$800*for \$100 is a good deal in anyone's book...unless something goes wrong (and it usually does).

Many people don't understand the chance they are taking when they invest in one of these schemes. The odds are tremendously against them. More than 60 people are usually involved in getting money back to the pyramid participant. If any person does not get two more people to join, then the original participant could easily lose all money that had been invested.

Cost-benefit considerations aside, pyramid schemes are illegal. The penalties for being involved in a pyramid scheme are tough. Being convicted of a Class A misdemeanor means that a fine of up to \$2,000 can be levied along with a possible one year jail sentence. Using the U.S. mails would be even worse because Federal laws would then come into play.

Participating in these get-rich-quick schemes is against the law and usually are very disappointing despite the lucrative promises. If you have questions regarding this type of scheme or wish to report being solicited to join such a scheme, contact the Legal Assistance Office in building 5250 or law enforcement personnel.

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Summer 1984 Quarter

Registration is now open for the following courses:

Course No. & Title	Class Begins	Class Ends	Class Night
SM 5029 Computer Operations Management	9 July 84	17 Sept. 84	Mon.
SM 5068 Inventory Control and Management	9 July 84	17 Sept. 84	Mon.
CM 5012 Procurement & Contr Mgmt & Admin II	9 July 84	17 Sept. 84	Mon.
CM 5031 Procurement-The Legal Concepts	9 July 84	17 Sept. 84	Mon.
SM 5004 Economic Environment of Mgmt I	10 July 84	18 Sept. 84	Tues.
OR 5013 Operations Research III	10 July 84	18 Sept. 84	Tues.
SY 5052 Maintainability Theory & Practice II	10 July 84	18 Sept. 84	Tues.
M 5101 Mathematics for Management	10 July 84	18 Sept. 84	Tues.
SM 5002 Financial Management & Control	11 July 84	19 Sept. 84	Wed.
SM 5005 Economic Environment of Mgmt II	11 July 84	19 Sept. 84	Wed.
SM 5013 Behavioral Science and Management	11 July 84	19 Sept. 84	Wed.
SM 5019 Organization and Mgmt of Marketing	11 July 84	19 Sept. 84	Wed.
SM 5112 Sem. in Cont. Issues in Human Res. Mgmt.	11 July 84	19 Sept. 84	Wed.
SM 5000 Financial Accounting	12 July 84	20 Sept. 84	Thurs.
SM 5022 Analytical Methods in Management	12 July 84	20 Sept. 84	Thurs.
SM 5032 Personnel Mgmt. & Industrial Relations	12 July 84	20 Sept. 84	Thurs.
CM 5014 Cost Principles, Effect & Control	12 July 84	20 Sept. 84	Thurs.
OR 5024 Decision Theory	12 July 84	20 Sept. 84	Thurs.

Approval has been granted for Veterans Administration tuition assistance for eligible persons. For more information contact F.I.T. Resident Director, 876-1581 or visit the Center in Building 7446 Warehouse Road, weekdays between 0900-1630.

Four honored Armed Forces Day; soldie

Four soldiers who retired here last Thursday received a memorable sendoff.

Their retirement ceremony and parade was the highlight of the command's Armed Forces Day celebration. The public event featured the 14th Army Band and a display of missile systems and other equipment.

Arsenal personnel and guests from the community got to see one of the biggest missile system displays assembled here in a long time. Displays included the new and heretofore seldom seen Patriot and MLRS systems as well as the older systems such as Hawk and Lance.

The retirees, Chaplain (Lt. Col.) Clyde J. Wood, Lt. Col. Donald R. Street, CWO 3 Colin B. Gordon and SFC Ray P. Hargrave, were presented medals by Maj. Gen. Jerry Max Bunyard.

Wood received the Legion of Merit for service as deputy staff chaplain. Street, Gordon and Hargrave received the Meritorious Service Medal, Street for service as assistant project manager of Joint Tactical Missile System, Gordon for service as a missile systems analyst in Missile System Readiness Directorate and Hargrave for service as a Hawk fire control team training instructor at the missile school.

The Marine Detachment was selected best marching unit in the parade.

On Friday, Sp4 Gary Lee Skinner of Company B received from Gov. George C. Wallace the annual Governor's Award recognizing him as the outstanding enlisted servicemember at Redstone Arsenal.

Accompanying Skinner to the state capitol for his meeting with the governor were Maj. Gen. Jerry Max Bunyard, CSM Harvey Kahl, CSM Robert Hill, Capt. Jerrold Brodowski and 1st Sgt. James Dixon.

Skinner is a supply specialist working in the instructional support branch of Missile Division "B" at the Missile and Munitions Center and School. He is from Tonawanda, N.Y. and was Redstone Arsenal's soldier of the month in December.



GOVERNOR'S AWARD—Sp4 Gary Lee Skinner received the annual Governor's Award from Gov. George C. Wallace. Those attending were Maj. Gen. Jerry Max Bunyard, CSM Harvey Kahl, CSM Robert Hill, Capt. Jerrold Brodowski and 1st Sgt. James Dixon.



FACING THE FLAG—Soldiers render a salute during Armed Forces Day ceremonies.

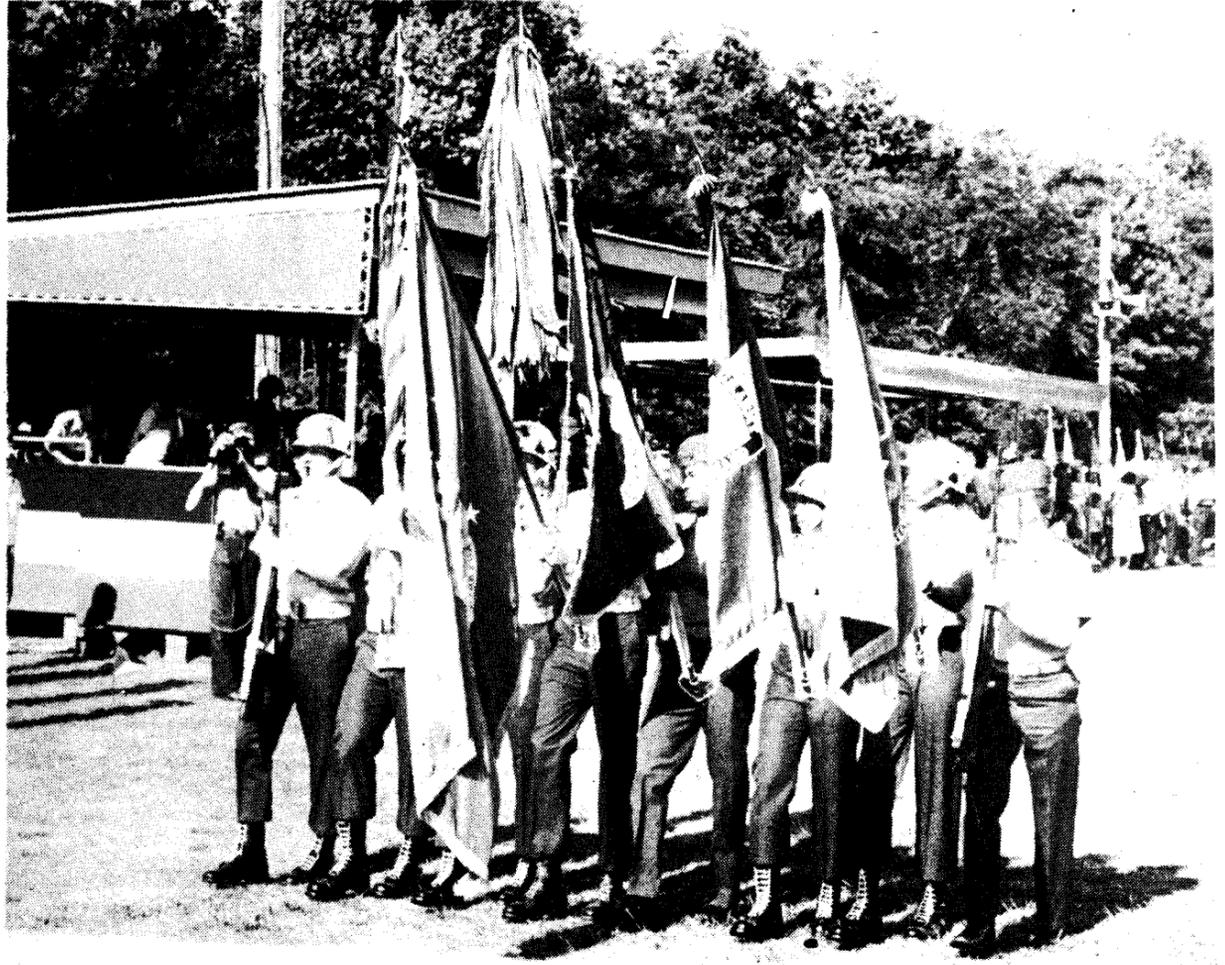


STARS AND STRIPES—A Marine detail lowered and folded the flag during Armed Forces Day ceremonies.

' gets award from governor



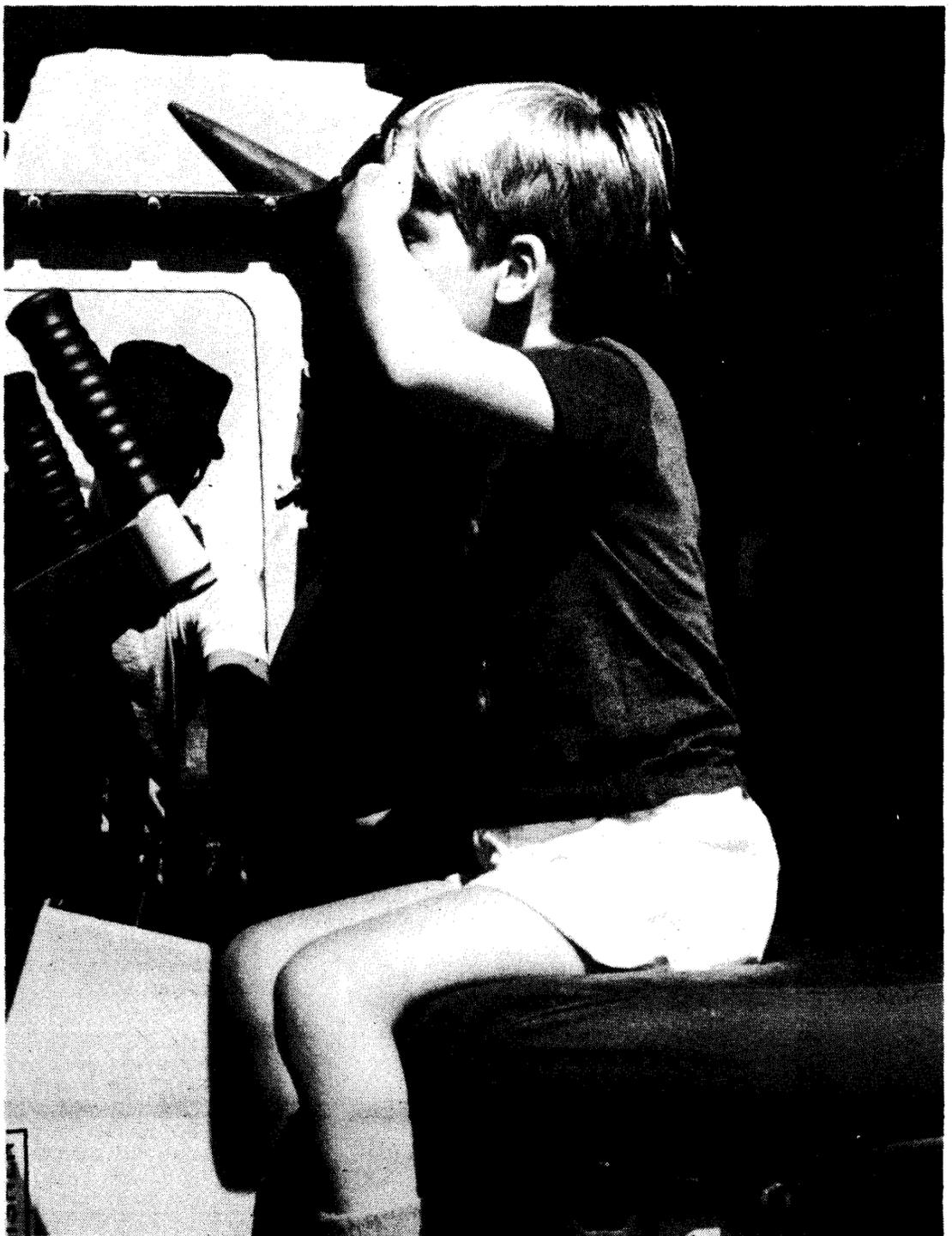
pt. Jerrold Brodowski, 1st Sgt.



MARCHING—The color guard unit parades past the reviewing stand.



d the flag.



INSIDE MLRS—Michael Whitely Jr. sits inside the MLRS vehicle exhibited at Armed Forces Day. He is the son of SFC Michael and Sharon Whitely.

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Does my family have to travel together? No.	Military dependents may travel separately as long as children ages 2-9 are accompanied by a military dependent at least 10 years of age.
How do I get the Military Fare? Just present your green active duty military I.D. or discharge papers when you purchase your ticket and when checking in.	Military dependents at least 10 years of age must present a tan Uniform Services Dependent Identification card marked "active". Military dependents ages 2-9 must present proof of family relationship when checking in.

USAIR

Corner Consumer



By Nancy O'Malley
Chairman, ACS Financial Counseling
Consumer Affairs Committee

National Consumer Week was marked recently with a theme of "Consumers Mean Business." To honor this occasion, check out the following brief quiz based on questions and answers developed by Janet Wilson, Consumer Education Extension Specialist, Cooperative Extension Service, University of Nebraska. She based her summary on commonly asked consumer questions.

Q—You have selected a house to buy. The builder has agreed verbally to fix a leaky roof after you move in. How can you make sure the repairs are made?

A—Read your warranty carefully to see if a leaky roof is covered. If not, have the builder

add a "written promise to repair" clause to the contract you sign when you close on the house.

Q—Your one-year-old washing machine is spilling water onto the floor. It was repaired under the warranty several times for this same problem and now the warranty has run out. Do you have to pay for the repairs now?

A—No. If you complained about a problem during the warranty period and it was not taken care of properly, you are entitled to have it repaired at no cost. Your warranty rights did not run out for the problem you had during the warranty period. Different companies make different warranty promises. The next time you buy an appliance, check this matter out on your warranty agreement.

Q—Recently you sent a mail order company \$40 for a pair of shoes to be delivered in two weeks. Six weeks have passed and you've heard nothing from the company. Can you get your money back?

A—If you don't receive delivery of a mail order within the time promised, the company must tell you when the product will be available and give you the option of cancelling your order and getting your money back. Since you have not heard from the company, write them and send a copy of your order along with a copy of your cancelled check and ask for a refund. You have these rights and others when you order through the mail.

Q—A salesperson came to your door today and sold you \$50 worth of magazines. Now you have decided that you don't want them. Can you cancel the contract?

A—Within a certain period of time you can cancel the contract. There is a three-day cooling-off or cancellation period on most door-to-door deals totaling \$25 or more. You can cancel the deal by signing the cancellation form the seller is required to give you. Mail it to the address given for cancellation anytime before midnight of the third business day after the day of the sale. If you don't have this form, send a letter.

Q—You received two expensive boxes of stationery in the mail and a bill to match. You never ordered the paper or heard of the company that sent it. Are you obliged to pay for or return the merchandise?

A—No. If anything is mailed to you without your permission, you can keep it free of charge. Even if the company sends you a bill, you do not have to pay. It would be a good idea, however, to let the company know that they sent this merchandise to you and you did not order it. This does not apply if you agreed to purchase a certain amount of items from a club, etc.

Q—Your new car has been in the shop more than it has been on the road. You are totally fed up and wondering what you can do.

A—Many states now have "lemon laws" that give consumers rights if their cars are not repaired after a certain number of tries. Check with your local State Office of Consumer Affairs to see if your state has "lemon laws." This organization will also tell you how to contact service representatives of all car manufacturers including foreign cars.

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For Further Information Contact:

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Exhibit commemorates invasion of Normandy

WASHINGTON—A pass-in-review attended by World War II veterans marked the May 14 opening of a Pentagon exhibit honoring the "D-Day" invasion of Normandy, France, 40 years ago.

Retired Generals J. Lawton Collins and Maxwell D. Taylor, both prominent commanders during the invasion, shared the reviewing stand with Army Secretary John O. Marsh and Chief of Staff Gen. John A. Wickham Jr.

Collins, former Army chief of staff, commanded the Seventh Corps during the invasion. Taylor, a former chairman of the joint chiefs, commanded the 101st Airborne Division, which made the initial parachute assault behind enemy lines.

The six-month exhibit in the Pentagon's hall of heroes houses D-Day memorabilia that includes uniforms, flags, letters, weapons and photographs.

One of three known original copies of the June 6, 1944, "order of the day," signed by allied commander Gen. Dwight D. Eisenhower and British Field Marshal Sir Bernard Montgomery is included in the exhibit. The order, which was read to more than 100,000 allied soldiers and sailors, reads in part, "I have full confidence in your courage, devotion to duty and skill in battle. We will accept nothing less than full victory."

Also included is a postcard by Normandy's German commander, Field Marshall Erwin Rommel sent to his wife. It reads in part, "a lot of hardship is on me since we departed and worse hardship may come. We are doing what we can—however the enemies superiority in nearly every category is depressing."

The Normandy invasion, code-named "operation overlord," established a second front against the Axis powers that led to the end of World War II. (Arnews)

Soldiers can apply for health physics course

WASHINGTON—Qualified soldiers in any military job may now apply for training to become a health physics specialist, according to Army medical personnel officials.

Health physics specialists, MOS 91X, monitor the operations dealing with, and conduct close surveillance of, radiation and radioactive material used in medical procedures. The 45-week course provides the training necessary to assist in a medical treatment facility's radiation protection program, officials say.

To qualify, soldiers must be active Army or reserve components, grades E4 thru E6 and have at least a 110 GT or ST score. All applicants must have at least one year of high school or college algebra, biology and chemistry, and a minimum score of 70 percent on the Army's basic math and science test.

Interested soldiers should call Autovon 221-8028.

NCO Army Birthday Ball set June 9

A ball for noncommissioned officers and retired NCOs will be held at Redstone on June 9.

The Noncommissioned Officer Army Birthday Ball is set for that Saturday night at the NCO Club beginning with cocktails at 6:00. Dinner and the rest of the program will be from 7-9 p.m. followed by a social until 1 a.m.

"We hope it's the best yet as far as NCO Balls and hopefully every year gets better," said Sgt. Maj. Barry Woodfill, who is serving as chairman.

Participants are to include the 313th Army Band from Birmingham and the Grissom High School drill team and color guard. The Chessmen from Nashville, a band that plays a variety of music, will perform for dancing.

Appropriate dress is Army blue uniform with bowtie or Army green uniform with white shirt and bowtie. Civilian attire includes evening or cocktail dress for ladies and business suit for men.

Cost is \$11 per person. Limited seating is available. Military personnel should contact their command sergeant major or first sergeant for reservations. Retired NCO's can call Bill Hughes, a retired master sergeant, at 876-7717.

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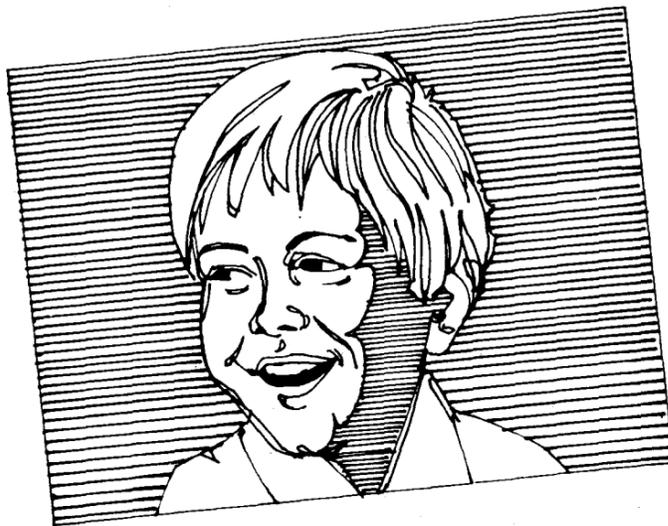
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COUPON



—ANNOUNCEMENTS

Logistics engineers

The Tennessee Valley Chapter of the Society of Logistics Engineers will hold its regular business luncheon meeting on May 24 1984 at the Officers Club. A Social (cash bar) begins at 11:30 a.m. with lunch at noon. The speaker for this meeting will be Louis Geneve, president of the Logistics Education Foundation, SOLE. All present and prospective members, and guests, are invited. Cost is \$6.00. For reservations contact Glenn Smith 876-5226 or Marty Martin 876-8166.

Federally Employed Women

The North Alabama Chapter of Federally Employed Women will meet 11:30 a.m. May 24 at Western Sizzlin' on South Parkway. The topic for discussion will be "Energy Conservation in the Home" by Jack Robertson, customer information coordinator for Huntsville Utilities. No reservations are required. For more information call Mary Maxwell 876-4233.

Overeaters Anonymous

Overeaters Anonymous has six groups in Huntsville, including a Friday night group which meets at 7 p.m. at Fox Army Community Hospital. For a list of other meeting times call 532-7013.

Farmers market sale

The commissary will conduct a farmers market type sale from 9 a.m. to 5 p.m. Thursday, May 24. Items include strawberries, corn, cases of hamburger patties and hot dogs, and possibly watermelons. Authorized patrons should realize savings on these items.

Trap & skeet league

Sign up is under way through June 4 for a trap & skeet league sponsored by Outdoor Recreation. The league, for four-person teams, starts June 11. Company points add toward Commanders Cup competition. For more information call 876-4868 or stop by building 5129.

Swap assignment

A soldier from Fort McClellan, Ala. would like to exchange assignment with anyone here at Redstone who is a 71L (administrative supervisor), E-7 interested in a job at the reception station at Fort McClellan. He said he could provide moving assistance and has a house available there. For more information call SFC John Tidball 837-6874 or his office at McClellan (205) 238-3244.

Girl Scouts program seeks adult volunteers

The Girl Scout program of North Alabama is having spring recruitment for adult volunteers and girls.

Girl Scouts, their leaders and families were to gather at Brahan Spring Park Recreation Center last weekend to hold their annual bridging ceremony. This ceremony marks the transition from one Girl Scout program age-level to the next, according to leaders.

Participants were to include third and sixth grade Girl Scouts from troops at Redstone Arsenal, McDonnell, Morris, Ridgecrest, West Huntsville, Terry Heights, and Westlawn Schools. They spent the past two months in activities acquainting them with the next age level.

Cadette Troop 91 has been formed to continue the

Family potluck

The Protestant Women of the Chapel will have a family potluck meal at 6 p.m. May 24 at Bicentennial Chapel. Everyone is invited. The Rev. Carroll Sutton of East Albertville Church of God is the speaker. Each family should bring two of the following: salad, vegetable, or dessert. Meat, bread and beverages will be provided. Free child care is available but reservations are required at the Child Development Center.

Catholic women

The Catholic Women of the Chapel will celebrate a Mass with the changing of officers at 9 a.m. June 1 at Bicentennial Chapel. After the service, everyone is to go to the Officers Club for brunch. Everyone is invited. For reservations call Millie Moore 837-3856 by May 25. New CWOC officers include Maureen Sumera, president; Tina Galysch, vicepresident; and Rita Payne, secretary.

Army aviation association

The Tennessee Valley Chapter of the Army Aviation Association of America will host a dinner meeting May 24 at Rustic Lodge on the Tennessee River. Brig. Gen. Wayne Knudson, director of force requirements and Army aviation officer, will be guest speaker. Cocktails begin at 6 p.m. with dinner at 7:00 and the speaker's address at 8:00. Cost is \$5; dress is casual. For reservations call 876-1117.

Flea market

Army Community Services will sponsor a flea market on Saturday, June 2, from 10 a.m. - 4 p.m. The flea market will be held in the parking lot of First Alabama Bank on the arsenal. To reserve a space or obtain more information go to the ACS office in building 3491.

AUSA membership drive

The AUSA membership drive will continue through the end of the month. People wanting to join or obtain information on the organization can contact the following "individual command chairpersons": Maj. Steven Flohr, BMDATC, 895-3800; Lt. Col. T.B. Bennett, BMDSOM, 895-3062; Lt. Col. A.R. Jansen, COE, 895-5370; Lt. Col. William Krantz, DENTAC, 876-7474; Col. Edward M. Johnson, MEDDAC, 876-4147; Dr. William May, MICOM, 876-2308; Virginia Arnold, RASA, 876-2855; CSM H. Hockenberry, TMDE, 876-9171; CSM Robert E. Hill, MMCS, 876-7320; Capt. Thomas Charlson, RRG, 895-3774.

Girl Scout program for the Junior Girl Scouts who bridged to that age level, leaders said. The program was coordinated by leaders of Service Unit 13 and Barbara Johnson, service team director.

"A spring recruitment for adult volunteers and girls is now under way," said Barbara Gilewicz, field director for Girl Scouts of North Alabama. "Helping girls to learn about themselves and others, to develop self confidence, to have more appreciation for their families, schools, churches, and community while having fun are some of the rewards of becoming an adult volunteer with Girl Scouts."

For more information call Girl Scouts of North Alabama at 883-1020.

Carpool Hotline



Call 876-1500 to place your free carpool ad

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Carpool wanted from Athens to 4500, hours 7-3:30. Tony Cook 876-4842.

Hartselle

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New Market

Carpool wanted from New Market to 3494 area, hours 7:15-4. Sgt. Harold Tucker 876-2616.

Baileyton/Arab

Carpool wanted from Baileyton or Arab to 5681, hours 7-3:30. Lynn Gaddis 876-3668.

Winchester, Tenn.

Carpool member wanted from Winchester, Tenn. to 4500 area, hours 7-3:30. Norman Simpson 876-2322.

Memorial Day services

The public is invited to Memorial Day services May 28 at Huntsville's Maple Hill Cemetery. The traditional service with an address by Frank D. Wilkes, Alabama director of veterans affairs, is at 11 a.m. followed by a wreath-laying ceremony led by Hazel Elliott, district director of the United Daughters of the Confederacy. Services this year are coordinated by North Alabama Chapter 74 of Vietnam Veterans of America.

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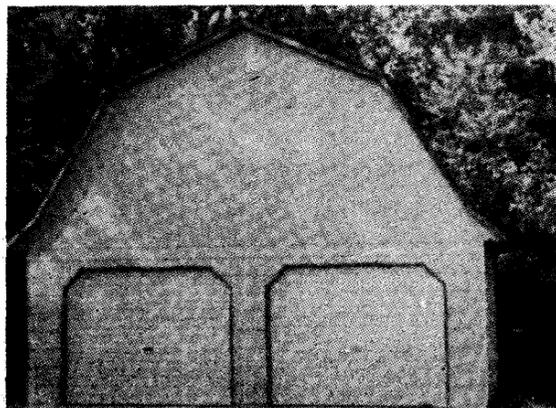
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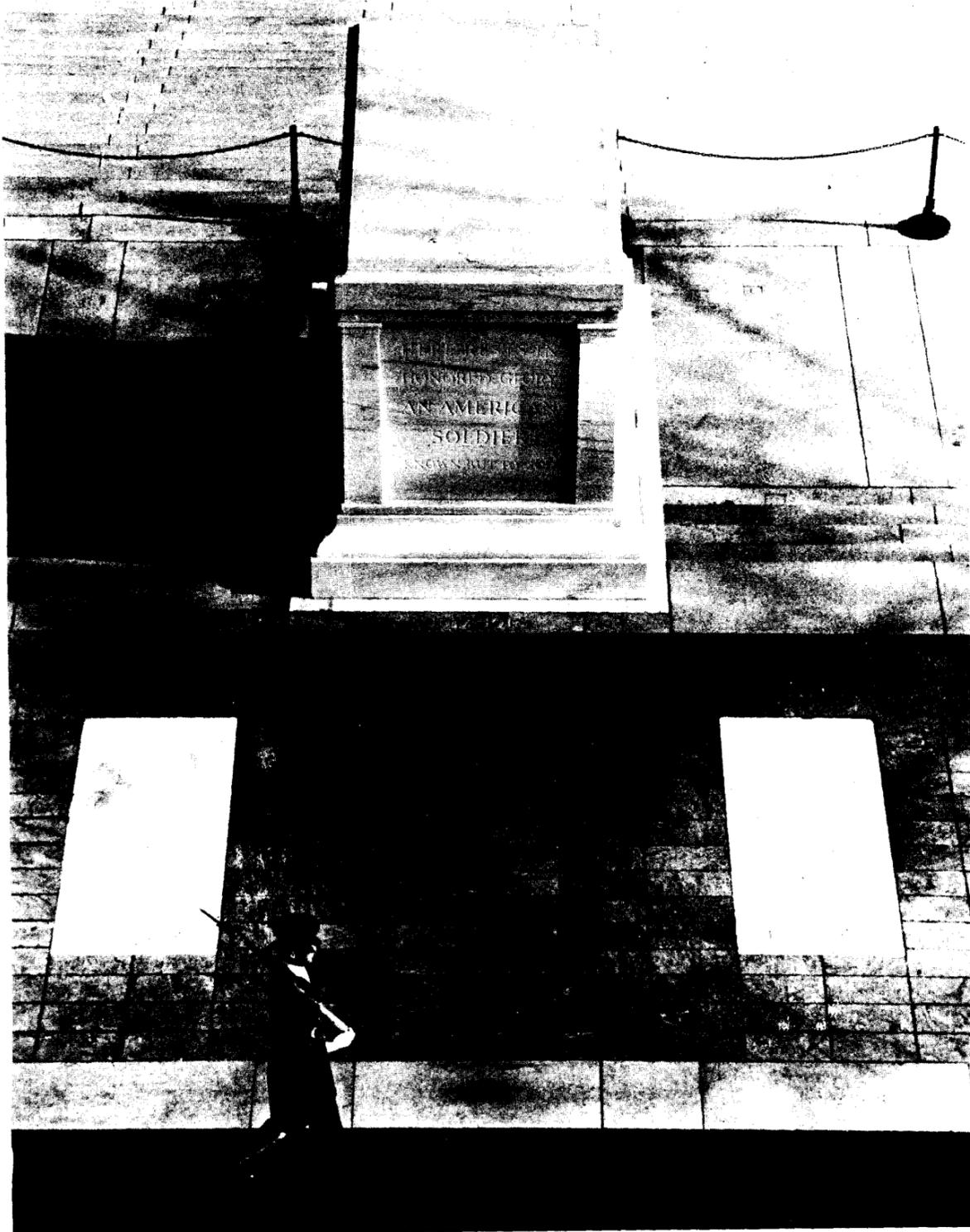
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Unknown 'Soldiers' Honored On Memorial Day

BY TOM CONDON

Taps echoed across the wooded cemetery hills. After the two draped caskets were lowered, the American flags were carefully folded and given to the President and Vice-President of the United States.

The taps were for the Unknown Soldiers in those caskets—American soldiers from World War II and the Korean War—buried on Memorial Day, 1958. The first of the unknowns—a casualty in World War I—was buried on Armistice Day, 1921.

Special services commemorating America's war dead are held each Memorial Day at Arlington National Cemetery, just across the Potomac River from the nation's capital.

Wreath laying at the Tomb of the Unknown Soldier is a symbolic tribute to all Armed Forces members who have fought and died in defense of freedom.

An Army spokesman explained, however, that a more precise term would be Tomb of the Unknown Serviceman, since the branch of service of each unknown is also unknown.

"The term 'soldier' is used in the sense of someone who fought in combat for our country," the spokesman said.

The World War I Unknown was selected at random from four bodies exhumed from four American cemeteries in France. The World War II Unknown was randomly selected from six recovered from the Pacific area and 13 from Europe and North Africa. The Korean War Unknown was selected randomly from four.

Care was taken to be sure there was no identification and no possibility that their identity could ever be established.

A crypt has been reserved for an Unknown soldier of the Vietnam conflict, but remains unoccupied because most of the bodies returned so far have been identified.

Meanwhile, the search for American war dead continues. The North Vietnamese government recently said it would cooperate with the U.S. to return any other bodies found.

WALKING THE POST of the Unknown Soldier is an Army sentinel from the 1st Battle Group, 3rd Infantry (Old Guard). The tomb is patrolled 24 hours a day, 365 days a year. The inscription reads: "Here rests in honored glory an American soldier known but to God."



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Troop dining facility opens with new additions

A troop dining place that had been closed about four months reopened last week with some new additions.

Dining facility number three in building 3438 north has a new ceiling and vinyl wallpaper. Walls have been added to separate the eating area from the serving line. The serving line area has been retiled. There is new carpeting and spinning ceiling fans. And there are new windows and lighting.

"This whole project was somewhere around \$100,000," said CWO 3 Tony Famiano, chief of the food service branch.

The facility had been closed for renovations since last December before reopening May 14. "Only thing that's not new out here is the tables and chairs," Famiano said.

Soldiers again have three dining facilities on post. Troop dining facility number one is next door in building 3438 south while facility number two is in building 3480. Facility one "is in acceptable condition but it needs some work," Famiano said. Facility two "is in excellent shape but it's not as pretty" as the renovated facility.

The troop dining facilities serve an estimated 1,100

people a meal which means a total of about 3,300 a day.

Facility number three reopened with lunch. "It looks nice," said one soldier. Another soldier asked Famiano if there was new silverware, too. Not everyone appreciated the renovations, however. "I'm disappointed, they took four months just to do this?" a soldier said.

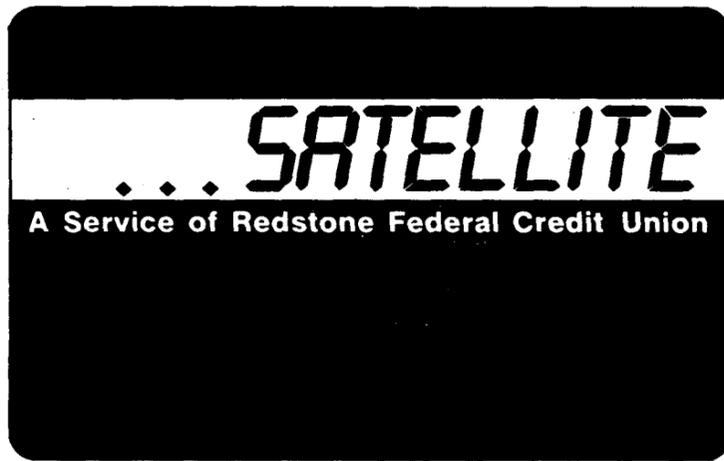
Hours for the troop-only dining facility are 5:30-7:30 a.m. breakfast, 10:45 a.m. to 12:45 p.m. lunch, and 4:30-6:30 p.m. dinner Mondays through Fridays.

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Health care system is adopted by VA

WASHINGTON—The Veterans Administration recently adopted the diagnosis-related group, or DRG, classification system aimed at improving delivery of health-care services to America's veterans.

The DRG system establishes time spent in the hospital and average treatment costs for certain diseases, such as pneumonia, high blood pressure and back problems. As a way of measuring both length of stay and clinical output, DRG can suggest ways to operate more efficiently.

The measures will be good management tools for the VA, according to VA administrator Harry N. Walters,

and "are an excellent opportunity to prove that the VA furnishes America's veterans with quality health care which is also cost effective."

Use of DRG will let VA more equitably fund its medical facilities by basing funding on workload. The changeover will be a gradual one, VA officials say, occurring over a five-year period starting in fiscal 1985.

VA operates the nation's largest health-care system, with more than 220,000 health-care personnel employed in 172 medical centers, 227 outpatient clinics and 103 nursing home units. (Arnews)

Intelligence position upgraded by Army

WASHINGTON—The Army has upgraded the position of assistant chief of staff for intelligence to a three-star position.

Maj. Gen. William E. Odom currently fills the position and has been selected by the chief of staff to remain there. His promotion to lieu tenant general will be effective upon Senate confirmation and raises the Army's total of three-star generals to 50.

The assistant chief of staff for intelligence serves as the chief intelligence advisor to the Army staff and provides staff supervision for the intelligence school and the intelligence and security command, both of which are two-star billets.

The change was made to create a better supervisory chain for the Army intelligence community. (Arnews)

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COURSE OFFERINGS — SUMMER TERM 1984

DATES: MW sessions July 9-Aug. 29; TT sessions July 10-Aug. 30; Sat. sessions July 14-Aug. 25, plus one afternoon.

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 are additional.

FINANCIAL ASSISTANCE: Approved for tuition assistance from the Veterans Administration and most governmental and industrial organizations. Half-tuition scholarships are available from Southeastern for qualified attendees. NOTE: Government and most other training offices require receipt of assistance requests 30 days prior to course start.

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

11-504 CIRCUITS, SIGNALS, AND SYSTEMS MW 4:30-6:40 p.m.
A study of the characteristics of linear electrical circuits and systems and their response to signals. Includes a review of basic circuits theory, transients, signal characteristics, and Laplace transforms. Background: prior study of electrical circuits; knowledge of calculus. Instructor: Christopher E. Kulas, Ph.D.; Systems Dynamics, Inc.

11-617 MILLIMETER-WAVE SYSTEMS TT 4:30-6:40 p.m.
An examination of millimeter-wave devices and systems, with an emphasis on system characteristics and applications. Includes MMW sources, antennas, and propagation in radar and communication systems. Background: knowledge of electronic systems and electromagnetics. Instructor: Vernon W. Ramsey, Ph.D.; Boeing Military Airplane Company.

14-671 ADVANCED SOLID ROCKETS MW 4:30-6:40 p.m.
A detailed study of selected advanced topics in solid-propellant rockets. Consideration of characteristics and formulation of solid propellants, motor design, and operations in missiles and boosters. Background: basic knowledge of rocket propulsion. Instructor: Robert B. Kruse, Ph.D.; Morton-Thiokol Corporation.

17-506 STRUCTURED PROGRAMMING: PASCAL Sat 8:00-12:00 noon
A study of the Pascal programming language, with an emphasis on structured formats. This course is highly recommended for persons who are not familiar with structured programming but who desire to study Ada language. Background: basic knowledge of programming. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

17-673 SOFTWARE VERIFICATION TT 4:30-6:40 p.m.
A detailed study of the formal methods and practical techniques for program verification and validation. Includes testing methodologies, automated verification, V&V over the software life cycle, and future trends. Background: good knowledge of software development. Instructor: Mack W. Alford, M.A.; TRW Huntsville Facility.

21-631 ALTERNATIVE MANAGEMENT TT 6:50-9:00 p.m.
A seminar on alternative management concepts, with an emphasis on the Japanese methods. Topics include problems in productivity, concepts of Theory Z, and comparisons of alternative and traditional management techniques. Background: studies or experience in management. Instructor: Julian S. Kobler, J.D., D.Sc.; Management Consultant.

24-511 OPERATIONS AND CUSTOMER SYSTEMS TT 4:30-6:40 p.m.
A study of operations management, including systems relationships of customers and operations. Consideration will be given to operations in both service and production organizations. Background: basic knowledge of business management and quantitative methods. Instructor: Walter E. Whitaker, D.Sc.; NASA Marshall Space Flight Center.

27-541 COST-ESTIMATING TECHNIQUES MW 4:30-6:40 p.m.
A study of concepts and procedures for estimating costs of products, projects, and systems. Primary emphasis will be on life-cycle costing for hardware and large systems. Background: basic knowledge of accounting and quantitative methods. Instructor: Randy M. Sherrill, M.B.A.; Teledyne Brown Engineering.

31-504 QUANTITATIVE ANALYSIS METHODS Sat 8:00-12:00 noon
A survey of mathematical techniques that are used in managerial decision making. Includes a review of fundamental mathematics and extends to concepts of calculus. Background: prior study of college-level mathematics. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Institute of Technology.

31-667 MATHEMATICS OF PROGRAMMING TT 6:50-9:00 p.m.
An advanced survey of mathematical concepts forming the foundation of programming. Includes an expository examination of mathematical logic, computability, recursive functions, linguistics, and automata. Background: good knowledge of programming and general mathematics. Instructor: Robert R. Covelli, S.M.; System Development Corporation.

NOTE: Graduation will be held on August 31. Candidates for degrees should check with Southeastern to confirm their status and work deadlines. Courses other than those listed can be arranged on a directed-study basis if they are required by individuals to complete degree requirements.

SHORT-TERM COURSE

17-591 LOCAL-AREA NETWORKS July 30-Aug. 3; 8:00-12:00 noon
A practical and comprehensive study of modern local-area networks for applications such as the electronic office, factory automation, and military communications. Includes terminology, transmission media, access techniques, protocols, security, network interconnection and interoperability, and a survey of current LANs and selection criteria. Background: general technical knowledge and basic familiarity with computers. Fee: \$350. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.

PREPARE FOR FALL STUDIES

The Summer Term is the ideal time to prepare for the excellent professional courses and programs offered by Southeastern and other institutions. Individuals desiring advanced studies in radar and signal processing might consider a refresher in fundamental theory through course 11-504. Programmers will find a good preparation for Ada and other software courses through 17-506. Persons in management, and others desiring a good foundation in fundamental mathematics, might consider course 31-504.

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.

Languages available include Fortran, Cobol, Pascal, Ada, and Assembly. Support courses involve Data Structures, Operating Systems (including CP/M and Unix), and Compilers. Advanced applications included Simulation, Database Systems, and Artificial Intelligence. Software engineering courses are given in Advanced Development, Reliability, Verification, and Cost Analysis. Hardware-oriented courses include Computer Organization, Microprocessors, Architecture, Telecommunications, Networks, and Distributed Systems.

M.B.A. PROGRAM

Southeastern now has a program leading to the Master of Business Administration (M.B.A.) degree. In this program, the term "business" means much more than the traditional areas of commerce and industry; the core courses are also applicable in government agencies and nonprofit institutions. Thus, unlike many M.B.A. programs, this curriculum is well-suited for persons in all types of organizations. Available elective clusters include Contract Management, Human Systems, Technical Management, Software Systems, and Management Sciences.

With the accelerated schedules of Southeastern, the program can easily be completed in 12 to 24 months while continuing with regular employment. Courses will be offered on Saturday mornings as well as in the evening schedule. Of the 36 units total requirements, at least 21 units must be earned through Southeastern.

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

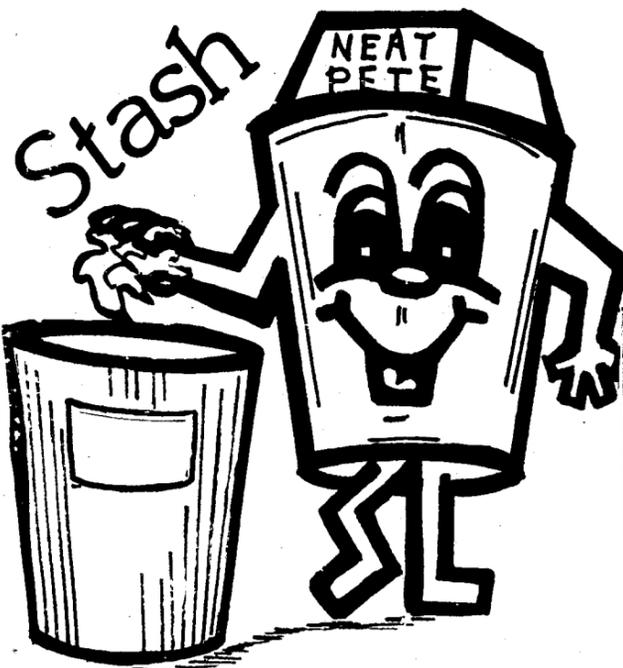
For persons with two or more years of college work or the equivalent, degree-completion programs are available for the following undergraduate degrees: Bachelor of Science, Bachelor of Engineering Science, and Bachelor of Administrative Science. Certificate programs at all levels are also available, including the Basic Certificate in Programming and the Certificate in Basic Engineering. These latter are very popular as career-redirection preparation for persons holding nontechnical degrees.

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

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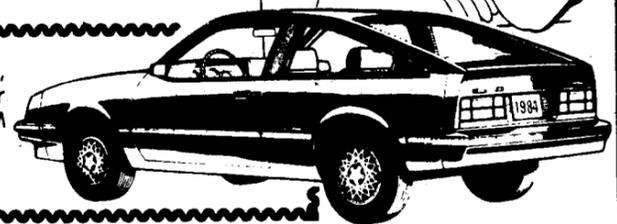
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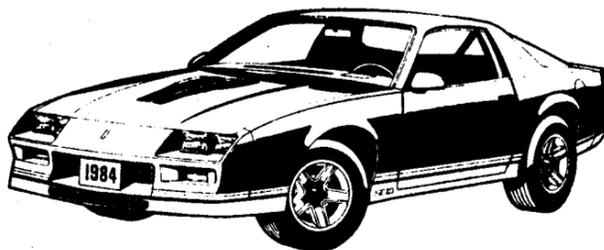
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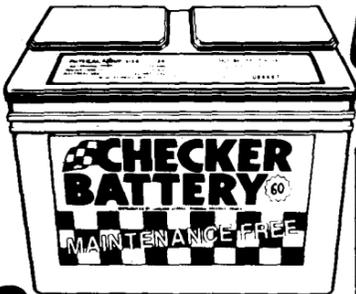
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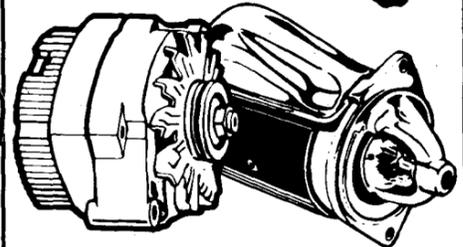


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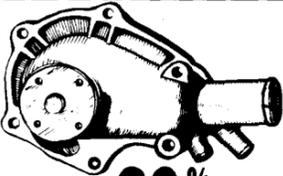
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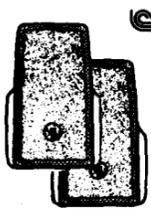
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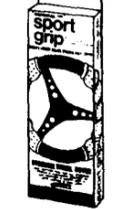
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