

# The Redstone Rocket

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July 28, 1982

## 'Team effort' credited for readiness success

BY SKIP VAUGHN

The Missile Systems Readiness Directorate here has come a long way in its first year but expects more challenges down the road.

"The big thing is it's a team effort that has worked," says Col. George Crowder, the director since August 1981. He points at the 7 percent increase in readiness average for the missile and support systems managed by the Missile Command.

This readiness average has stabilized in the last six months but "we think it's going to go up again based on our ongoing initiatives," Crowder says. He expects to reach the goal of having all systems 90 percent mission capable in the next year.

"Our longer term projects are starting to come in so in the next year we should hit our goals," says the director.

The readiness directorate resulted from a MICOM reorganization study in 1981. "What we were supposed to do as a directorate was to increase missile readiness worldwide for all MICOM systems," Crowder says.

He calls its basic task the "customer-level support." This means supporting and improving the missile system readiness of battalions, ordnance companies and other users in the field.

The directorate does this with its missile maintenance technicians who provide daily assistance to user elements; field supply technicians who provide supply advice and assistance on an area basis; a missile readiness reporting and analysis system; and readiness field visits.

The approximately 140 missile maintenance technicians, all civilians, are "the commander's on-

(Continued on page 6)

*'Nothing happens overnight  
and I think we've done quite well  
in the first year'*

— Col. George Crowder



## New award recognizes readiness

A new award in name of an Army missile pioneer will be presented annually by MICOM to recognize superior missile materiel readiness performance.

The Holger N. Toftoy award will be presented in four categories to Army missile units that have best maintained or most significantly improved their readiness.

Maj. Gen. Toftoy brought the Von Braun team from Germany and was a leader in early Army missile programs at Redstone Arsenal. He retired in 1960 and died seven years later.

Approximately 200 Army missile units world wide will compete for four awards recognizing the best and most improved air defense and land combat units.

"Selections will be made based on actual readiness rates and reports submitted to the Missile Systems Readiness Directorate," said Capt. Tom

Palguta, a readiness analyst in the directorate. "It's a DA form they fill out reporting how well their missile systems did that month."

The four winners will be announced at the end of the reporting year that begins this August 16. Winners will receive a plaque that bears a likeness of Toftoy and an inscription to the unit.

Missile Systems Readiness Directorate will select the best and most improved units. "It's a form of competition to monitor and improve readiness rates of Army missile systems worldwide," said Palguta.

He said the award was the idea of Missile Systems Readiness Directorate head Col. George Crowder.

"It's in recognition of the superior performance of those units, the people improving and maintaining readiness. They really don't get the recognition for it they deserve," Palguta said.

## Pershing II fails in first flight

CAPE CANAVERAL, Fla. — The Army's new Pershing II missile malfunctioned shortly after liftoff on its first flight here July 22.

The missile came apart 17 seconds after liftoff at 10:50 a.m. A few seconds later, the range safety officer gave a destruct signal that blew the remaining portions apart and terminated the test.

MICOM and a team composed of engineers from Martin Company, the prime contractors, and system subcontractors began an immediate investigation to determine the cause of the mishap.

Col. William Fiorentino, Pershing Project Manager, told newsmen at the Cape shortly after the firing that a planned second firing of the missile would not take place until the cause of the failure had been identified and corrected.

## Test supplies moving to Idaho

A big move of equipment and supplies for Pershing II tests is underway from Green River, Utah to Mountain Home, Idaho.

Mountain Home is the newly selected site for developmental testing of the Pershing II missile.

Army tractor-trailer rigs will transport test necessities from the Green River Launch complex to Idaho during the next three months to avoid winter weather in the mountain passes between the two sites.

In a related activity, approximately two-thirds of the contractor workforce at Green River will be relocated to Mountain Home sometime this fall.

## TOW-2 award is \$101.4 million

The Army Missile Command Friday awarded more than \$101.4 million for production of equipment for the Army's new TOW-2 tank killer.

Under the award, Hughes Aircraft Co. of Tuscon, Ariz. will deliver to the Army TOW-2 launcher retrofit kits, along with test, measurement and diagnostic equipment.

TOW-2 is a major improvement program to MICOM's basic TOW, deployed with the U.S. Army since 1970 and currently in the arsenal of some 36 countries. TOW-2 will counter more sophisticated enemy armor with its new six inch warhead, new flight motor and improved guidance system.

TOW-2 will be used in a variety of applications.

Texas Instruments of Dallas, Texas, a major subcontractor to Hughes on the TOW-2 guidance systems, has worked with the prime contractor on the development of retrofit kits and TMDE.

Col. Byron Powers is TOW Project Manager at the Missile Command.

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# Letters

## Good care

Editor:

I've been in quite a few military hospitals and most of the negativism attributed to Army hospitals, I can attest to. However, Fox Army Community Hospital is certainly an exception to the rule and deserves to be mentioned.

This is the second time in six months that I've been a patient at Fox, this stay was for ten days. I'd like to compliment and thank all the medical surgical staff for their sincere tender care, which every patient needs to get well. They really did everything in their power to make me feel good and as comfortable as possible, at the same time nursing me back to health. You definitely are an exception. Thank you and keep up the good work.

Name withheld by request

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.

## THE REDSTONE ROCKET

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All that junk . . . is just junk



BY SKIP VAUGHN

All that junk you may have heard about the World's Fair in Knoxville is just that . . . junk.

I went to the fair a couple of weeks ago on a bus tour from Redstone's Recreation Center and I had a terrific time. Contrary to all the rumors I'd heard, there were enough water fountains and bathrooms to go around and the lines weren't all that long.

We left the arsenal just after 5 a.m. on a Sunday and arrived there sometime after 9 that morning.

First thing I did was eat the bag lunch that went with the tour that only cost \$9.25 per person. I went to the Italian exhibit and the German exhibit which were, in my opinion, a little too technical for the average person. Most people could just care less about some new-fangled apparatus to control energy use.

The lines at the better exhibits were a little longer but I never had to wait longer than 15 or 20 minutes. In fact there was a side entrance to the popular Australian exhibit.

The best exhibits were Australia, China, Egypt, Peru and Japan. Each had interesting artifacts, pictures or other scenery.

There were also good times at the so-called Fun Fair that had rides for children and the young-at-heart. Signs warned that certain rides may be dangerous for pregnant women or folks with a heart condition.

Later that afternoon, it began raining and it poured for at least a half an hour. But that didn't put a damper on the fair activities.

I took in a few more exhibits but soon found time was running short. I guess I spent too much time at the "bumper cars" in the Fun Fair.

At 7 p.m. Huntsville time, we loaded the three buses for the ride back home. All those bad rumors had turned out untrue, but there just wasn't time to see everything in one day.

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## Pershing plans birthday party

MICOM's Pershing Project Office will celebrate its 20th birthday with a luncheon August 19 at the Redstone officers club.

"We want to get the word out to anyone who wants to attend and especially to past Pershing employees on Redstone Arsenal and in the community," said Trema Massey. She and Karen Hornbuckle are organizing the luncheon for the project office that manages the Army's most powerful missile.

The luncheon will begin with a social at 11:30, followed by the meal and a short 20th anniversary program scheduled to be over by 1:15. Cost of the meal is \$5. Protocol Office is taking reservations through August 17 and is sending out a reservation form through internal mail distribution.

The project office under Col. William Fiorentino has more than 80 people running the Pershing missile program at MICOM.

## More switched health plans

More than twice as many people changed health insurance during the recent open season compared to the previous year.

About 2,600 people changed health plans during the open season for federal health insurance May 3-28. This compares to about 1,000 in the open season held November 1980.

"More people switched plans. I don't know why," said Willa B. Jones, chief of the pay and exam branch of Finance and Accounting. "I don't know whether it was the increase in the rates or the decrease in the coverage."

The changes became effective the July 4-17 pay period and are reflected on the July 29 pay check.

## 22 leaders trained for quality circles

The first 22 leaders of quality circle groups were trained July 13-15 and another group of volunteers is to be trained soon.

"They will be leaders of quality circle groups that have yet to be formed," said Maj. Tim Bennett, a consultant in MICOM's organizational effectiveness office.

"We're doing the very same training again on 3, 4 and 5 August," he said. "The idea was they'd go back to their organizations and sell the idea (of quality circles) to their friends."

Quality circles are small groups of co-workers who meet an hour each week at work to discuss and recommend solutions for job-related problems.

Bennett and fellow organizational effectiveness consultant Dr. Frank Rouse conducted the three-day training for future circle leaders. MICOM Chief of Staff Col. Travis Walker gave a graduation speech and handed out certificates.

Anyone who wants to take the training Aug. 3-5 should call the organizational effectiveness office 876-2286.

## Career changes for ADA soldiers

WASHINGTON — Air Defense artillery soldiers should be on the lookout for possible changes in the way they're managed by Army personnel officials.

According to a report from the Army's office of the deputy chief of staff for personnel, planners are developing a personnel management transition plan so that the army can properly man new air defense systems now being introduced.

The transition period will begin this October and will last about six years. Most of the air defense soldiers to be affected occupy career management fields 16 (air defense artillery), 23 (air defense missile maintenance) and 27 (ballistic/land combat missile and light air defense weapons systems maintenance). In CME 27, however, only soldiers in certain specialties will be affected by the transition plan.

The need for the plan centers on such new weapons systems as the Patriot missile, Sgt. York air defense gun and the Stinger air defense system. At the same time, the Army will be phasing out or phasing down the Nike-Hercules, improved Hawk, Vulcan and several other systems. These modernization efforts create requirements for new and different types of training and management for air defense soldiers. Officials explained that the transition plan is designed to meet these needs in as smooth a manner as possible.

Although some reclassification of soldiers may be necessary, Army personnel officials plan to emphasize voluntary reclassifications, some of the other changes will affect schools, tours, assignments and other personnel matters. Information will be coming through your chain of command as the transition plan goes into effect. (ARNEWS)

## Parking progress said disappointing

Progress toward starting a program of reserved parking for arsenal carpoolers has been "a little disappointing," according to Beaul Hunkapillar, carpool parking coordinator at Facilities Engineering.

"We haven't gotten the response that we ought to. We're disappointed that we haven't had more response," he said.

A MICOM ride sharing regulation and union contract specify that building custodians are supposed to set up reserved parking programs for their individual buildings.

"Maybe three buildings have surveyed and submitted something to redo their parking for ride sharing," said Hunkapillar. He said one of those buildings is his own, FE headquarters.

The carpool parking program is established in an article of the MICOM-AFGE Local 1858 negotiated agreement of June 1981, as well as in a MICOM ride sharing regulation published last December.

Both documents specify that carpoolers are supposed to get the best parking spaces — behind handicapped, visitor and official parking but ahead of management parking.

The documents state that building custodians are supposed to survey carpool parking needs, register carpoles and arrange to have parking spaces re-marked. "The building custodian is supposed to come up with a plan, a simple sketch submitted to Facilities Engineering with a work order type deal to get it done. But first they need to know how many carpoles are in the building," said Hunkapillar.



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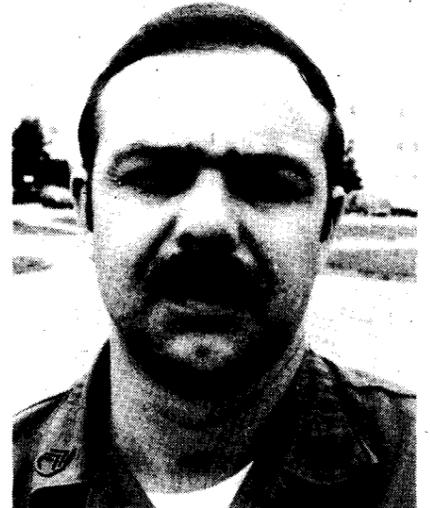
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Sp4 Creg Jones, 515th Ord. Co. — "It's a thick and uncomfortable uniform. Also you don't even know if you have the right size until you've washed one about three times. And it's hard to keep the hat looking good without putting cardboard inside."



Sgt. Juan Convers, 6th S.C. — "I think the BDU is very uncomfortable for this type of weather and its appearance is very poor. It doesn't look good."



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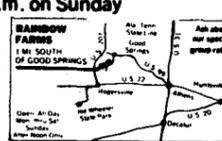
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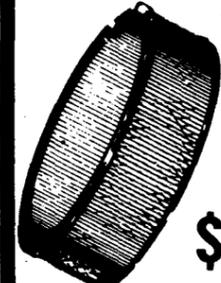


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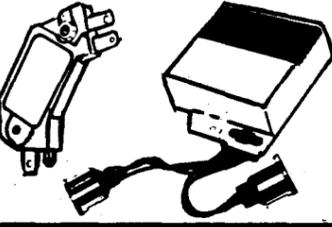
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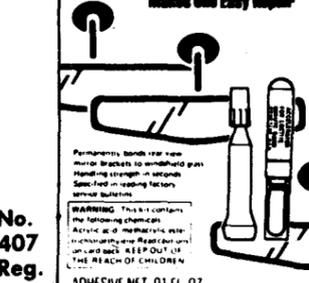
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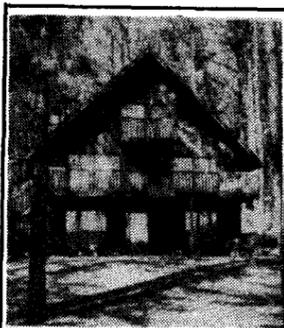
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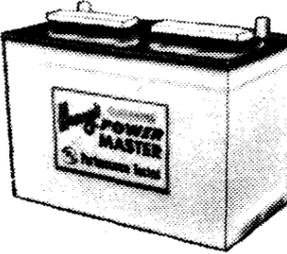
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# Technology isn't villain, says retiring BMD deputy

William A. Davis Jr., deputy director of the country's Ballistic Missile Defense program, retired last week as the top civilian in the Army BMD Organization.

Davis, deputy director since 1977, was associated with the BMD program for 14 years. He was employed in various Army missile programs at Redstone Arsenal for 17 years and had a total of 34 years of government service.

Prior to becoming deputy program manager, Davis was director of the BMD Advanced Technology Center, planning and directing exploratory research and development of new, sometimes revolutionary BMD concepts. He was the Center's first director.

From 1971 to 1975, he served as director of the Advanced Ballistic Missile Defense Agency, Hunt-

sville office, which formed the nucleus of the Advanced Technology Center.

In 1980, Davis was among the first members of the government's Senior Executive Service to be recognized for exceptional performance with the Presidential Rank of Meritorious Executive. He was one of 12 senior Army civilians to earn the award, which carries a \$10,000 bonus.

As deputy program manager, Davis shared overall responsibility for planning and direction of BMD activities, which constitutes the nation's only strategic program designed to keep the United States ahead of the Soviet Union in BMD technology. The BMD organization is also charged with the responsibility of being ready to develop and deploy a ballistic missile defense system if the decision to do so is made.

From 1954 to 1971 Davis was employed at Redstone Arsenal where he lead pioneering work on the Department of Defense high-power laser program and made significant contributions to the present level of laser technology.

Reflecting on his long, close association with high-technology in the field of national defense, Davis said a couple of broad trends in recent years have worried him.

"There's this almost anti-technology syndrome of those who want to retreat to simpler systems and more primitive technology," Davis said. "I believe that's the wrong way to go."

"I don't think technology is the villain with modern weapons systems. Rather, it's the misapplication of advanced technology. Properly applied, it's our strong suit and can result in more reliable, cheaper weapons systems."

A broader concern, one with long-term implications, Davis said, is the evidence of a declining pool of scientific and technical expertise in the United States.

"It's disturbing to see enrollment in the physical sciences diminishing, for instance. Also, the competition with other nations is becoming much more intense — obviously with the Soviet Union, but with others, too, such as Japan," Davis said.

"I do think we will maintain our technological

(Continued on page 7)

## 'Team'

(Continued from page 1)

site handyman you might say," according to Crowder. They help train the users and provide assistance on how to troubleshoot.

Field supply technicians, six authorized civilians, feed back data that may be used to assist the units. "They provide logistics intelligence," Crowder says.

His directorate manages a missile readiness reporting and analysis system for the Army Deputy Chief of Staff for Logistics. "That is a means whereby the units report to us and to higher headquarters their readiness status," says the director. The directorate assembles the information from the units, analyzes it and also passes it on to the Deputy Chief of Staff for Logistics and other major Army commands.

"We conduct readiness field visits to stateside and overseas units to provide assistance, determine customer needs, provide readiness visibility and pick up customer concerns and questions," Crowder says.

The directorate is authorized 14 military and 212 civilian personnel. One of its first big efforts was to mold the people from three major directorates and five or six organizations at the division level into one team, according to the director.

"It's been a team effort," he says, citing support from project managers, MICOM elements such as the Missile Logistics Center, and DARCOM and user commands.

"Overall the response we had from the MICOM community and the DARCOM community to our readiness initiatives were note worthy," says



Lisha Harbaugh, Ronnie Golden, and Regenia Steele have fun showing their "team" T-shirt.

Crowder. "The teamwork aspect has built this whole thing up in the last year."

Among the directorate's features this year was a logo or emblem to identify the organization and also an "MMT of the year" award. The "best" missile maintenance technician in land combat and the "best" MMT in air defense both receive awards, based largely on peer evaluation. "It recognizes those who have done well in their chosen field and serves as an incentive to others to do better next year," Crowder says.

The director lists his organization's successes as the higher readiness rating, the readiness team, the field visit program and increased feedback to the field.

"More is out there to do. There's a lot of challenges in the future," Crowder says. "Nothing happens over night and I think we've done quite well in the first year."

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**R.F.C.U.**

# Deputy project manager gets \$2,500 award

The deputy project manager of a project office that joined the Missile Command team two years ago has received a \$2,500 merit pay award.

William Fondren of Air Defense Command and Control Systems received the award last week at the project's Research Park office. He left Hawk Project in April 1980 to become the deputy PM at this project office.

"I certainly appreciate the fact that Col. Wyatt (the project manager) thinks I deserve it. Everybody in this position would certainly feel very humble by such a gesture," Fondren said. "People that make up the organization make this thing possible. If they don't support me and Col. Wyatt, there won't likely be anybody getting awards."

Fondren, 48, began his government career in 1963 as a GS-9 engineer with Hawk Project. He spent five years in the Ballistic Missile Defense Command before returning to Hawk where he became a division chief.

The GS-15 native of Hartford, Ala. in Geneva County describes his job with Air Defense Command and Control Systems Project as "interesting and very challenging."

Col. David Wyatt, project manager, made the

presentation to Fondren at an award ceremony attended by Fondren's wife Carolyn and several co-workers. The award was "basically for organizing the project office for a special study on short-range air defense command and control," Wyatt said.

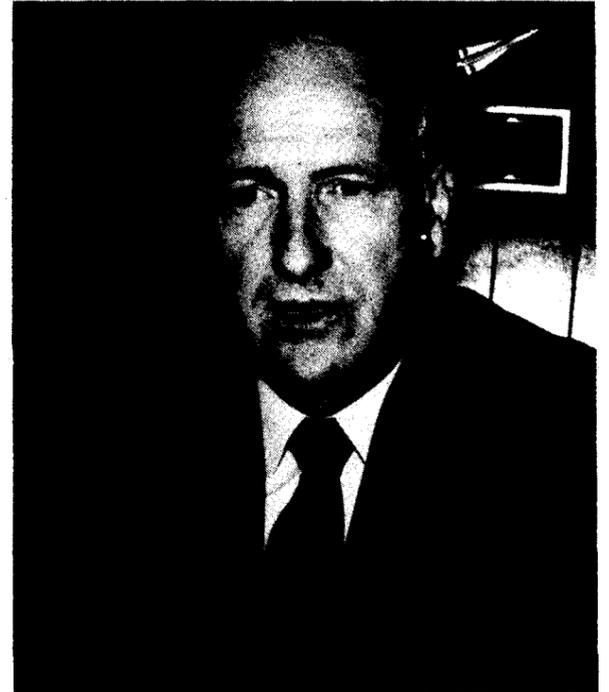
"Not only organizing the project office but organizing several other Army agencies and about a dozen contractors who also participated," he added.

The study was to define the short range system or SHORAD C2 so that "we could begin to establish the cost and schedule for the system," Wyatt said.

The project office for developing, deploying and supporting command and control systems for air defense weapons was transferred to MICOM in October 1980. Before then it was a tenant here that belonged to the communications R&D command based at Fort Monmouth, N.J.

The project consists of 17 military and 72 civilian personnel, including eight military and 14 civilians at Fort Bliss, Texas. That is the project's software support center, Wyatt said.

The project manager for three years describes Fondren, his deputy, as "a very quiet guy who perceives the kind of things that have to be done and he always seems to find a way to get them done."



Fondren



Davis

## Davis

(Continued from page 6)

lead, largely because our system is more conducive to a healthy creative environment than the others."

The greatest need for reform specifically in the realm of developing defense systems, Davis maintained, is to reduce the lead-times that have become associated with the process.

"Today, typical lead-times are 15 to 20 years from inception to production and deployment, compared to five years which I can remember earlier in my career. It's not attributable to greater complexity of

the systems, either, but mainly to increased bureaucratic encumbrances.

"The (Deputy Secretary of Defense) Carlucci reforms in program management are a step in the right direction," Davis said. "I think there must be three general areas of reform — greater program stability, more decentralization of program management from Washington, and streamlining of the process."

Davis said he leaves government service with no regrets about having devoted an entire career to it.

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# Reserve group trains here

BY JOHN WAGNER

Sixty-four members of a reserve unit based at South Charleston, W. Va. arrived at Redstone July 17 to work and obtain instruction from the Missile and Munitions Center and School for two weeks.

The 38th Ordnance Group is a priority reserve unit of technicians and logisticians with diverse training needs.

"This group is a headquarters unit that has a dual mission in terms of who they're to work with during a mobilization," said Maj. Ramon Jones, reserve component training coordinator of MMCS. "It has a Capstone mission — a specific arrangement to provide support in the event of a mobilization — with U.S. Army Europe. And it's also the senior ammunition headquarters in support of the Army components of the Rapid Deployment Force."

"Our purpose is the command and control of subordinate ordnance battalions," explained Col. James B. Baylor, commanding officer of the group. "And also to assist in the control of ordnance assets in a theater operation."

"Our members are involved in different kinds of training at Redstone depending upon the job specialties of each," Baylor continued. "There are eight receiving SIDPERS instruction for administrative personnel, one attending a regular Nuclear Weapons Maintenance (55G) class, a dozen taking an ammunition storage (55B) course especially for reservists, and 17 in the Munitions

Material Course (MMC) for senior NCOs and Officers."

The MMC is a special two week course given at MMCS for reservists. It's both a fundamentals and refresher course and the 38th will be the sixth unit to complete it this year.

"In addition, some of our soldiers are assisting post personnel, getting on-the-job training," Baylor said. "Chaplain (Capt.) William Phipps of our unit is working with post Chaplain (Col.) Delbert Gremmels. Also, we have a food services warrant officer working with CW3 Gerald Johnstone chief of food services branch. And three other soldiers are working in supply and maintenance at the Directorate of Logistics. The remainder are in a unit-support role in the Tin City area."

The Group has trained at many Army posts. Earlier this year they participated in the Gallant Knight exercise at Fort Bragg. They also are scheduled to be part of LOGEX, a logistics exercise at Camp Pickett in August. The last time they were at Redstone Arsenal was 1978.

"We always look forward to time at Redstone," said Baylor. "The active Army and the civilian support personnel here make us feel like a part of things. We get the professional support we need and leave here better soldiers — more prepared to do the jobs we'd have to do if mobilized."



Lowell Barnes, training instructor for the Directorate of Training and Doctrine, leads soldiers from the 38th Ordnance group into an ammunition magazine, a reinforced concrete structure for ammo storage. The Group toured various ordnance storage facilities during training at Redstone Arsenal. (Photo by John Wagner)

## Troop softball

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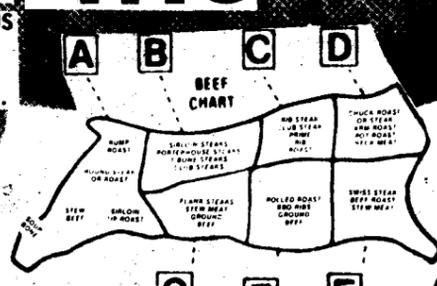
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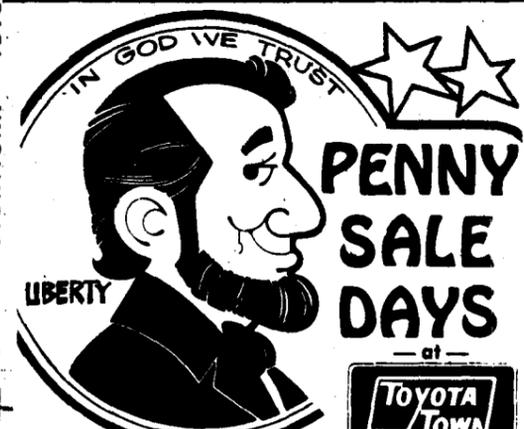
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**11-571 RADAR SYSTEMS** . . . . . MW 4:30-6:40 p.m.  
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**17-301 COMPUTER PROGRAMMING** . . . . . MW 4:30-6:40 p.m.  
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**17-631 ADA PROGRAMMING LANGUAGE** . . . . . 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. Instructor: Marvin Polan; M.Sc.; Teledyne Brown Engineering.

**17-641 COMPUTER ARCHITECTURE** . . . . . MW 4:30-6:40 p.m.  
A detailed study of the architectures of modern computers. Background: basic knowledge of programming and computer organization. Instructor: J. B. White; Ph.D.; NASA Marshall Space Flight Center.

**21-541 IMPROVING HUMAN PERFORMANCE** . . . . . TT 6:50-9:00 p.m.  
A study of human competence and methods for improving performance. Background: basic knowledge of psychology desirable. Instructor: Sam L. Hardy; D.Sc.; Key Resource Development Company.

**21-611 MGT. RESPONSIBILITIES & PRACTICES** . . . . . MW 6:50-9:00 p.m.  
A seminar on the tasks, responsibilities, and practices of managers. Background: studies or experience in management. Instructor: Richard H. Shuford, Jr.; D.B.A.; Management Consultant.

**24-551 GOVERNMENT CONTRACTING** . . . . . TT 4:30-6:40 p.m.  
A study of contracting by and with the Federal government. Background: basic knowledge of business operations desirable. Instructor: Eugene R. Andrzejewski; M.B.A.; Teledyne Brown Engineering.

**24-614 BUSINESS STRATEGY & POLICY** . . . . . MW 4:30-6:40 p.m.  
An intensive examination of strategy and policy in business management. Background: studies or experience in business management. Instructor: Richard H. Shuford, Jr.; D.B.A.; Management Consultant.

**27-671 RESEARCH & DEVELOPMENT MGT.** . . . . . TT 6:50-9:00 p.m.  
A seminar on management in research and development organizations. Background: studies or experience in management. Instructor: Julian S. Kobler; J.D., D.Sc.; Management Consultant.

**31-303 ELEMENTS OF CALCULUS** . . . . . TT 4:30-6:40 p.m.  
A concentrated study of basic calculus and its applications. Background: knowledge of introductory college mathematics. Instructor: Robert R. Covelli; S.M.; System Development Corporation.

**31-511 APPLIED STATISTICS & PROBABILITY** . . . . . MW 6:50-9:00 p.m.  
An introduction to statistics and probability emphasizing applications. Background: general knowledge of college mathematics. Instructor: Mario H. Rheinforth; M.S.; NASA Marshall Space Flight Center.

**34-544 LASER PRINCIPLES & APPLICATIONS** . . . . . MW 6:50-9:00 p.m.  
An introduction to laser theory, characteristics, and applications. Background: basic knowledge of optics desirable. Instructor: Thomas G. Roberts; Ph.D.; U.S. Army Missile Command.

### SHORT-TERM COURSE

**10-691 BMD SYSTEMS ANALYSIS** . . . . . Sept. 13-17, 8:15 a.m.-4:00 p.m.  
Methods of analyzing BMD system performance, strategic ballistic missile performance, and strategic missile interchange. Lectures by Wayne R. Winton and John L. Dyer of Sparta, Inc. Fee: \$550.

\* \* \* \* \*

## NEW AND REVISED DOCTORAL PROGRAMS

A program leading to the Doctor of Engineering (D.Eng.) degree is now available from Southeastern with the following specialty concentrations:

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- Electro-Optical Systems Engineering
- Engineering Management
- Missile Systems Engineering
- Radar Systems Engineering
- Software Systems Engineering.

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- |                           |                              |
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| ● Business Management     | ● Missile Systems            |
| ● Computer Systems        | ● Procurement Management     |
| ● Electro-Optical Systems | ● Radar Systems              |
| ● Engineering Management  | ● Signal Processing          |
| ● Governmental Management | ● Software Systems           |

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\* \* \* \* \*

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# Storage data program gets wide use

BY SKIP VAUGHN

A program here that provides data on storage of missile systems and parts is being used by the Army and other branches of the service and in other nations.

It is called the "Storage Reliability of Missile Materiel Program" and is "the only storage reliability data base covering the whole spectrum of missile-related hardware," says the general engineer who coordinates it.

"It has become accepted as the only relatively complete storage reliability data base in existence in the country," says Maury Bahan of Product Assurance Directorate which originated the program in 1974.

Missile systems and parts are stored in depots and other locations for several years. The data provided by this program tells how well the material works after it has been stored for a long time.

This information, in handbooks and locally on computer, is useful in many ways. "It is to be used by reliability engineers for predictive purposes during development of new systems; for use by designers in component selection during design; for use in determining potential storage problems of the older fielded missile systems; and then as an aid in logistics planning," Bahan says.

Hardware areas covered in the storage reliability data include microelectronics, electrical, electromechanical, hydraulic and pneumatic, and ord-

nance. There is limited data on optical and electro-optical.

The first edition of the "Missile Materiel Reliability Prediction Handbook" came out in 1976, was updated in 1978 and will be updated again in September 1982. The back-up documents for the newest edition will consist of only six volumes instead of the past 20 volumes.

"The whole thing is on the MICOM computers. It's all computerized now," says Bahan. "We're in the process, or will within the next year, have it organized so it can be accessed by other agencies."



Bahan talks storage reliability.

The data at present is available through Bahan; the Defense Documentation Center at Alexandria, Va.; the Army Logistics Management Center at Fort Lee, Va.; or through the Navy's Government Industry Data Exchange Program at Corona, Calif.

"We have distributed approximately 1,000 sets of the documents to contractors and other government agencies," Bahan says. "The program is planned as a continuing, ongoing effort. We plan to update it and maintain it on an ongoing basis."

"Plans are presently under way to organize this data base into an Army military handbook. We plan to accomplish this within the next 18 months."

The data has been used for predictive purposes on many Army, Air Force and Navy missile systems in the last three or four years, according to the engineer. "At least a dozen systems have used this data. Either the contractor or the government agency responsible for the system have used the data for predictive purposes," he says.

Requests for the information have come from the United Kingdom, Germany, France and Norway.

Bahan, who did the original planning, has won praise for his efforts. The director of Product Assurance, Laurie Atkinson, says "Maury has put a great deal of effort into our Storage Reliability Test Program and deserves recognition."

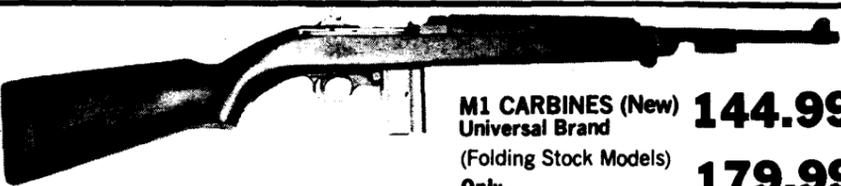
Bahan credits Rex Provence and Richard Buckelew, both of Product Assurance Directorate, for helping to manage the many contracts necessary to collect the data. Raytheon has been the main contractor since the start. Bahan credits Sid Douglas and Ed Baugh, both of Management Information Systems Directorate, for computerizing the program.

"I've been a real believer in this program since we started, he says. "I'm sure for the amount of money spent, it's been well worth the effort."



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# Announcements

## Best yards

Yard of the Month winners for July are, best single unit, Capt. Dywane W. Jennings, 358 Crowell Circle, and SFC Walter R. Wiggins, Jr., 1222-A LaCrosse Drive; and best multi-unit, Maj. Bobby M. Williamson, 465-A Tripp Drive, and SSgt. Samuel R. Stewart, Jr., 236-B Niblo Drive. Winners receive a certificate of appreciation, two free dinners, a color photograph of the awards ceremony and display of the Yard of the Month sign for a month. Receiving honorable mention were CWO 3 Edward R. Boyd, 413 Hughes Drive and Sgt. Maj. James W. Wasmund, 1104 Benet Circle.

## MP 'Hotline'

Military Police remind Redstone Arsenal residents of the "Hotline" — 876-1502. It should be used to report information about criminal acts or concerns. If received after duty hours this call will be taped and action taken the following workday. The desire for anonymity will be respected. To report a crime in progress call the MP Desk, 876-2222, for immediate police action.

## Commissioning program

Col. William Fiorentino, Pershing project manager, will be the speaker for the Alabama A&M University Summer Session Commissioning Program. Fiorentino is a graduate of Fordham University and the University of Alabama having received his commission through the ROTC Program. He has been associated with missile research and development activities since 1961. The commissioning program will be held at 9 a.m. July 30 in the Elmore Health Science Building on the A&M campus. Seven cadets will become second lieutenants in the United States Army. Family, friends and well wishers are invited to attend.

## Supply Management GPAS

GPAS appraisals for GS-13 employees to the Supply Management career program will be delinquent after August 10. The rating period is from Oct. 1, 1981 to July 31, 1982. For further information call Willena Richardson 876-3668/3751.

# Carpool Hotline

Call 876-1500 to place your free carpool ad

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Carpool wanted from Hartselle to 5400, hours 7-3:30 or 7:30-4. Cindy Magnusson 876-8607.

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<p><b>TIEMPO RADIAL</b>  <b>155/80R13 Blackwall</b>                  Fits Most Small Imports &amp; Domestic  <b>\$55<sup>00</sup></b> Plus Sales Tax Includes Mounting &amp; Bal.</p>	<p><b>Goodyear Tire Sale</b>  <b>Eagle ST 195/70R14</b>                  Raised White Letters  <b>\$75<sup>00</sup></b> Plus Sales Tax Includes Mounting &amp; Bal.</p>	<p><b>Air Conditioning</b>                  •Evacuate System Complete                  •Recharge System Complete                  •Test System for Proper Cooling &amp; Operation                  •Inspect All hoses &amp; Connection for leaks.  <b>\$29<sup>95</sup></b></p>
<p><b>Special For "AH" Auto's Undercoat Special</b>                  Cleaning — Extra  <b>\$49<sup>95</sup></b></p>	<p><b>Tune-up Special</b>                  •Electronic Scope Analysis                  •Adjust Engine Idle                  •Check Air, Fuel &amp; Emission Filters                  •Inspect Plug &amp; Coil Wires, Dist. Cap. &amp; Rotor.                  •Replace Plugs                  •Adjust Engine Timing                  •Check &amp; Set Fuel Mixture To Fac. Spec.                  •Inspect Drive Belts, hoses &amp; PCV valve                  VALVE ADJUSTMENT EXTRA                  Conventional Ignition Vehicles Slightly Higher  <b>\$29<sup>00</sup></b></p>	<p><b>Lubrication Service</b>                  •Change Oil &amp; Filter (up to 5 qts.)                  •Change Transmission Oil Fluid                  •Change Diff. Oil                  •Repack Front Wheel Brgs.                  •Lubricate Chassis &amp; Front End                  •Check All Fluids — Brake &amp; windshield Washer  <b>\$39<sup>95</sup></b></p>

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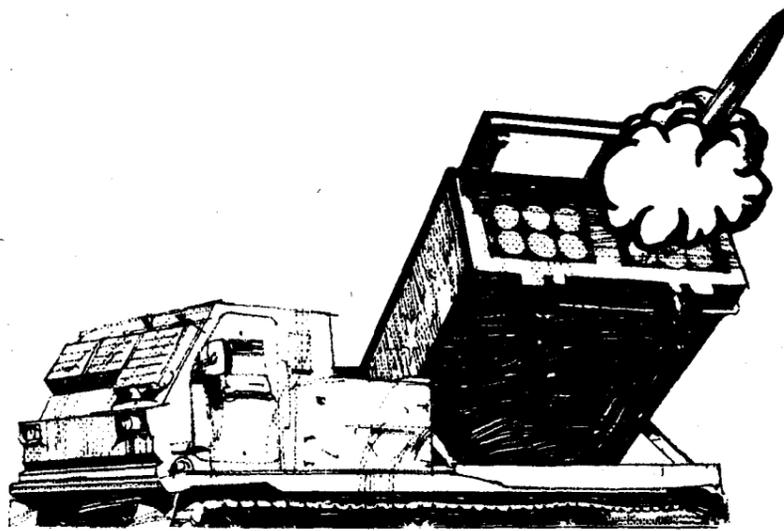
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