

Redstone Rocket

Vol. 41 No. 35

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September 2, 1992

Battalion shows its stuff for MLRS support team

BY SKIP VAUGHN

FORT BRAGG, N.C. — A brief thunderstorm caused a pause in the live-fire exercise being conducted by the MLRS battalion and sent the project office team from Redstone scurrying for cover. During the delay, a soldier was asked what it was like firing the Multiple Launch Rocket System.

"Like being in hell for a few seconds," replied Sgt. Vincent Marquis, 28, from San Francisco, a member of A Battery, 3rd Battalion of the 27th Field Artillery Regiment. It's a lot worse being on the receiving end of munitions fired by this system which earned respect from the Iraqis during the Persian Gulf War. A 14-member team from Redstone traveled Thursday to Fort Bragg as part of an ongoing effort to improve MLRS and also to see several rounds fired during the battalion's exercise.

Some 363 basic launchers worldwide are being improved in an effort that started at Fort Sill, Okla., in January and is to be completed in the second quarter of 1994, according to Tony Adams, chief of the logistics division in MLRS Project Office. As the assistant program manager for materiel change, he led the Fort Bragg visit for about half of the 25-member MLRS materiel change management team. Thirty-one launchers at Fort Sill were improved — retrofitted with metal blast panels — from January through March. Ten others were improved at Red River Army Depot, Texas, and shipped to Korea. Twenty-nine are to be completed at Fort Bragg by mid-September.

Of the 200 launchers in Southwest Asia during the war, 20 were capable of firing the Army Tactical Missile System. An effort was started to address this shortage of improved launchers in the war zone. Nine launchers were retrofitted in Saudi Arabia in 1991 right after the war to round out a complete 29-launcher battalion.

The 14-member contingent that traveled to Fort Bragg included members of MLRS Project Office, the Software Engineering Directorate, Integrated Materiel Management Center, support contractor Dynamic Analysis Inc., an Army photographer, and a public affairs specialist. Upon arrival they were briefed at an in-process review conducted by CWO 3 Vic Walczak, the project office's representative at Fort Bragg since August. Aaron Flowers, the Missile Command LAR (logistic assistance representative) with the 3rd of the 27th Field Artillery, attended and offered his insight. So far 21 launchers have been improved at Fort Bragg, including 18 that have been signed over to the battalion and three launchers awaiting final inspection, Walczak reported.

MLRS modifications at Fort Bragg are being done since July 7 by an 11-member maintenance team from Red River Army Depot. This includes four people doing the carriers and seven for the launchers themselves, according to Ernest Roberson, an electrician on the team. The team was at work, in their dark blue worksuits with the Red River logo on the back, at the 3rd/27th Motor Pool.

These modifications to the carriers and launchers represent "a combination of a reliability enhancement plus capability to fire that M270 Family of Munitions," according to Adams, the MLRS logistics chief. "All of these vehicles here went to Southwest Asia," he said, referring to the MLRS vehicles in

(See MLRS, cont'd on page 15)



SUMMER SCENERY — Finance Pond provides a scene of summer morning tranquility in the southern portion of Redstone Arsenal. A number of ponds and streams on the Arsenal offer natural beauty and fishing opportunities. The 1992-93 fishing season began Aug. 1. Fishing licenses are available from the Outdoor Recreation office. The Alabama state license costs \$9.50 and the permit to fish on Redstone Arsenal costs an additional \$6. Photo by SSgt. Clint Kendrick.

Revised child care programs meet needs of most

Editor's note: Buckner is chief of the family services division for the Directorate of Community and Family Activities.

BY TAMMY BUCKNER

Child Development Services has revised its programs to better meet the patron desires of the Redstone Arsenal community.

This was accomplished as a result of a combined effort from volunteer organizations, Child Development Services, community input and support from the command staff. Working together has brought about the solution for the majority of the Redstone Arsenal community.

The following Child Development Services programs are available to the entire Redstone community. Active duty military do have priority over other community members.

• **Child Care Center**, building 3145: full-time care

Monday through Friday, for children ages six weeks to 5 years. Monthly fee is based on total family income. Register at the Central Registry Office, building 257, phone 876-3704. A waiting list exists in some age groups, and priority is given to active duty military.

• **Child Care Center Annex**, building 3140: The School-Age Latch Key Program provides care for school-age children before and after school; register at the central registry office, building 257, phone 876-3704; fee is based on total family income. The Part-Day Preschool Program begins Sept. 2 and operates Monday, Wednesday and Friday from 8 until 11 a.m.; register at the central registry office, building 257, phone 876-3704; this program does not operate on public school holidays; fee is based on total family income. The Hourly Care Program offers hourly care on Monday, Wednesday and Friday from 11 a.m. to 2 p.m., and Tuesday and Thursday from 8 a.m. to 2

p.m. at the Child Care Center Annex; hourly care is not offered on public school holidays; fee is \$2 per hour; to reserve your space, call the Child Care Center 876-7952.

• **Family Child Care**: The FCC program offers child care in Redstone housing by an authorized military family member; this care is comparable to that provided by the Child Development Center. FCC providers go through 40 hours of training before they are certified. Annual training continues from year to year. Monthly home-site visits are conducted by staff. The same developmental program followed in the Child Development Center is followed by FCC providers. If you have never utilized this program, you will be pleasantly surprised at the exceptional quality of care these homes offer. FCC homes offer full-time, part-time or hourly care. Call the central registry office 876-3704 to find a home that meets your needs.



Teamwork training

Editor:

Do you want to become more committed to your job and improve your work relationships? Did you ever think you could be put into a situation that helps you become a team worker and trust your teammates? Then participate in Teamwork Adventure training which is designed to show you how to exercise your strengths, hurdle obstacles and see the future as more than just getting through the next day.

Enjoy your life more, both at work and at home; find fun in both roles. Concentrate on the work at hand and improve your performance and accomplishments by taking on more responsibilities. Most organizations here at MICOM are realizing that solutions to problems come together through team training for improving employees' self-esteem and energy level.

The training began by all team members doing some stretching exercises. This was a great ice-breaker and helped build a common bond among the group. Each obstacle has a name and assigned task, safety rules, and a time limit. The team gathered after each task to discuss lessons learned. These brainstorming sessions were an open-discussion type that brought out how to apply this training in the workplace and in everyday life.

While ability and skill may play a minor role, the decisive factor for personal and professional success is attitude. People who accomplish tasks and have great successes do so because of the way they view their lives and the world around them.

These obstacles were not easy; however, with teamwork and trust of our fellow team members, each task was accomplished. The amazing part of the course was the unbelievable strength that was generated by the team's consolidated effort in both catching and giving support to each other. You know you have what it takes to make it and are ready to rid yourself of self-limiting thoughts, habits, and imbalances that cause distractions to accomplishing a job well-done.

Management will become aware of greater productivity and enthusiasm among employees. Employees will be dedicated, eager to repay the investment management made in them.

Working as a team member, I finished the course and I feel that I have accomplished the objectives of each task. I recommend you go for the feeling of

becoming a graduate of the Teamwork Adventure Training Course. Being able to apply this concept in the workplace and your daily life will make the effort worthwhile. Try it! You might like it!

Jimmy Harbin
IMMC

Apprentice program

Editor:

I would like to take this opportunity to acknowledge a tremendous program. Once again, I have had the opportunity to work here at Redstone Arsenal. This was my third summer in the Science and Engineering Apprentice Program. However, this year I was fortunate enough to be a part of its continuation: the College Apprentice Program. Dr. Katie Blanding has made this program possible. I extend to her my warmest thanks and appreciation.

I would also like to acknowledge my mentor. Mr. G. Lehn Brooks has not only been my mentor, but he has also been my friend. He has made every effort to expose me to the vast cornucopia of knowledge in various locations here at Redstone Arsenal.

The program has been more than just a summer job. I have been granted a unique opportunity. In addition, I gained a better understanding of the world of science and engineering. I have been able to make a clear decision concerning my career future and the education I will need to attain that goal. Along the way, instead of obstacles, I have been encouraged by various co-workers. For many reasons, Redstone Technical Test Center holds a very dear place in my heart.

My first year, I was inexperienced and very scared. Nonetheless, everyone in building 4500 helped me, smiled, and answered all of the many questions I asked.

Last summer, building 7855 was my new home. They introduced me to even more ideas and possibilities. Yet another door was opened to me.

Now, I have completed a summer at Test Area 1. To Steve Holden, Trent Woods (my co-mentor), and everyone else, thank you. The tests and firings added so much to the experience.

Every year, I learned more than facts. I learned how special people can be, and what a joy it can be when a job is exciting and challenging. So many times, the youth of America is described in a disheartening way. I do not believe it. The youth of America is full of goals and ambition. However, the fuse must be lit. Redstone Arsenal is making that spark possible.

So, thank you. Thanks to all of you for being helpful, considerate and kind. For all of the people at TA 1, remember: Sunshine always brightens up the day, and you always brightened mine.

Heather Leigh Walker
(a Huntsville native)
Freed-Hardeman University,
Henderson, Tenn.

Going too fast

Editor:

This is to inform the woman (in the red, late-model car) "flying" north on Patton Road at Hanson Road, Monday morning (Aug. 31), who is probably wondering why the "idiot" in the silver Toyota blew her horn. That if she will go back to that intersection another morning before 8:30, she will observe a STOP sign for her lane of traffic. Apparently, she was going too fast to notice on Monday morning. Thank God one of us was observant or we both could have been killed!

Shirley Ray
IMMC

Sign your letter

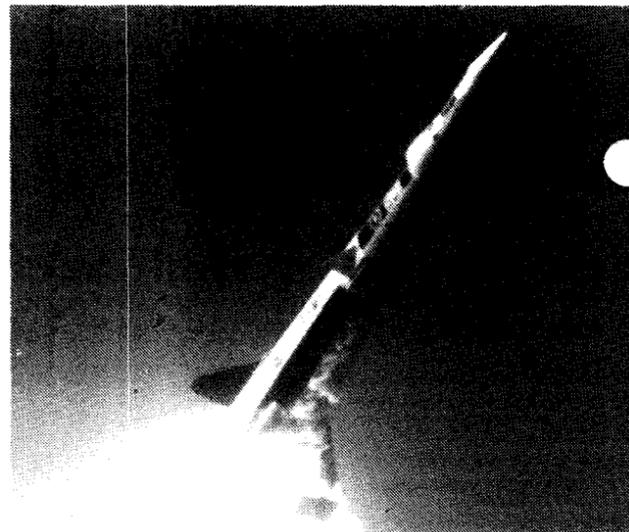
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Intercept vehicle test deemed successful

On Aug. 25 the Strategic Defense Command and the Strategic Defense Initiative Organization successfully conducted the second of a series of Kinetic Kill Vehicle Integrated Technology Experiment (KITE) tests in the High Endoatmospheric Defense Interceptor (HEDI) project at White Sands Missile Range, N.M.

The KITE-2 test gathered data relative to shroud separation, shock load capability of the sapphire window, air vehicle guidance and control, seeker acquisition and tracking of the target, and aero-optics effects.

The KITE tests are designed to resolve critical technology issues related to the intercept of re-entry vehicles within the earth's atmosphere using an infrared homing seeker and a non-nuclear warhead. The series of KITE tests are intended to demonstrate that the necessary technology is in hand to perform the intercept and non-nuclear destruction of re-entry vehicles within the atmosphere. The flights directly support both the Ground Based Interceptor Endoatmospheric block upgrade and the Theater High Altitude Area Defense programs.



KITE-2 TEST — The second HEDI KITE soars over White Sands Missile Range, Aug. 25.

New logistics agency coming to Redstone

WASHINGTON — The Army told members of the Alabama Congressional delegation last week that it would move about 500 civilian workers of the new AMC Logistics Support Activity (LOGSA) to Redstone Arsenal next year beginning in April.

LOGSA, which is to be established at Redstone, will eventually have about 730 civilian workers. The new organization will be housed in leased space in Huntsville until space becomes available in a government building on the Arsenal.

LOGSA will consolidate in a single location, logistics functions such as cataloging and data management now being done at several locations such as San Francisco, New Cumberland Army Depot, Lexington Army Depot and AMC Headquarters. A few of the jobs being transferred to LOGSA will also come from each of the AMC commodity commands such as MICOM.

Civilian workers at those locations will have transfer of function rights to move here with their jobs.

THE REDSTONE ROCKET

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Military working dog wins awards in first competition

BY PAM ROGERS

Benny appeared to be relaxed just before giving a demonstration of her award-winning skills last week. Just looking at her, you might have thought she was someone's pet instead of a dog who works for a living. But Benny, a 6-year-old German shepherd, recently

claimed four awards for Redstone at the United States Police Canine Association Field Trials in Nashville. It was her first competition.

SSgt. Billy Meiers, kennelmaster for the Provost Marshal's Canine Unit here, is also Benny's handler. "Since it was her first time to enter, she was entered

in the novice category," he said. Her awards included first place in the obedience category, 3rd place for criminal apprehension, 3rd place for scent work and 3rd place in the overall dog competition. Before he started working with Benny after his arrival here last November, veterinary personnel had feared she would have to be euthanized because chronic ear problems were interfering with her work. Now she's well and has even learned new skills.

Benny, along with co-workers Robbie and Arco, gave a demonstration of working dog skills for RASA commander Col. Joseph Mabry last Thursday.

Military dog training has come a long way since the days of the ancient Greeks and Romans, who loosed spike-armed dogs against their enemies, and since the days of the World War II-era sentry dogs, trained to distrust and attack anyone other than their handlers.

Today's dogs are trained to be tolerant of people and can be used for patrol and other duties even in large crowds. They are taught "controlled aggression," meaning they attack on command or when their handlers are attacked, but can be called back at any time.

Benny also gave a demonstration of her scenting capabilities by correctly identifying one of five boxes that contained a small amount of marijuana.

The bond between dogs and handlers was evident during last week's demonstration. Handlers train, feed, groom and play with their dogs and accept nothing less than total obedience. In return, their dogs are devoted to their handlers.

"This job is like being paid to have fun," said Meiers, adding that the other two handlers, Spec. Andrew Matthews and Cpl. Barry Lenderman, also enjoy their jobs.

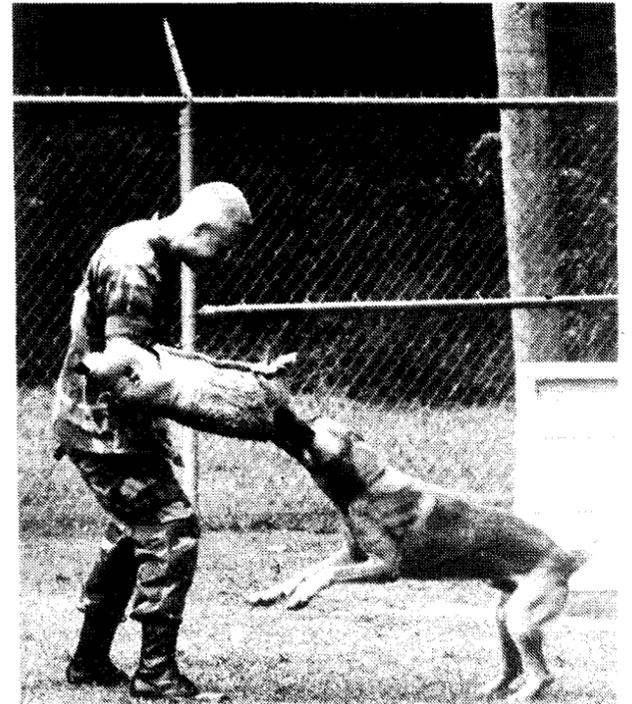
"I can't get these guys to take a day off. When they're supposed to be working they're here training with the dogs. I don't know of too many jobs in the Army like that."



WORKING DOG — Benny demonstrates her obedience skills by running an obstacle course. With her is her handler, SSgt. Billy Meiers.



RASA DAY — Rain didn't stop the Redstone Arsenal Support Activity from holding its organizational day Aug. 27. The RASA workers just took their event indoors to the Rustic Lodge. Col. Joe Mabry, the RASA commander, competes in hula-hoop which was one of the RASA olympic contests conducted. Awaiting his turn in the food line with meal ticket in hand is Chaplain (Lt. Col.) David McLean. Photos by Yvonne Coleman-McGuire.



CONTROLLED AGGRESSION — Arco, a Belgian malinois, demonstrates an attack on command against Cpl. Barry Lenderman.

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Redesignated program executive office unveils logo

BY SANDA MARTEL

The Tactical Missiles Program Executive Office has a new logo, one selected best out of some 60 entries submitted.

The contest opened in mid-July to all PEO employees, including those in the project offices, according to Capt. Ward Hawley, executive officer for PEO, Tactical Missiles.

Winning entry was the one submitted by Pat McNis, a research analyst/industrial engineer in the Multiple Launch Rocket System (MLRS) Project Office. She works in the Program Management Division, Cost Branch.

"We had lots of good entries," Hawley said. Col. Thomas Devanney, deputy PEO, chose the best three

entries and George Williams, PEO for Tactical Missiles, chose the winner.

A redesigned logo was required to more accurately reflect the additional mission of the PEO, Hawley said. When the Fire Support PEO was redesignated Tactical Missiles PEO recently, it assumed management of three new missile project offices. Those include the Avenger and Air-to-Air Project Offices, formerly Air Defense PEO managed; and Non-Line of Sight Project Office, formerly a MICOM-managed system.

The symbols between the star points represent the four Army mission areas the PEO supports — infantry, artillery, aviation and air defense.



AT CEREMONY — With a copy of the new logo are Mark Bowser, a test engineer in Bat Project Office, and Lt. Col. Mario Cervantes, the product manager for M270 Family of Munitions command and control and FDDM (Fire Direction Data Manager). The Program Executive Office Fire Support was officially redesignated as PEO Tactical Missiles in a ceremony held Monday at the Rocket Auditorium.

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Military retirees have their annual day Sept. 19

Active duty and retired military and their families are invited to Redstone's annual Retiree Activity Day set for Sept. 19 at the Challenger NCO Club.

The day's events from 8 until about 2 are planned to advise and inform military retirees of their rights, privileges, and benefits and also extend the hospitality of Redstone Arsenal. Admission is free. Attendees can pay \$3.50 for lunch.

There will be a military retiree update by a speaker from The Retired Officers Association in Washington, a Redstone Arsenal services panel, awards presentations, and county-fair-type informational tables.

"It's held to update and keep the retirees within the community informed on changes as far as health care benefits, medical benefits, survivor assistance benefits — the whole myriad of things that retirees are interested in. And it keeps them abreast of the changes here," said Phil Fredrich, retirement services officer for Redstone Arsenal.

Scheduled guest speaker is Edward Gryczynski, a retired lieutenant colonel who serves as director of personal affairs for The Retired Officers Association in Alexandria, Va.

Members of the Redstone Arsenal services panel are to include representatives from Fox Army Community Hospital, the Dental Activity, Military Personnel Office, Post Exchange, Commissary, Legal Assistance Office, Office of the Chaplain; Morale, Welfare and Recreation; and Redstone Arsenal Support Activity.

After a lunch break, the county-fair exhibits and services are planned. This will consist of about 60 informational tables with representatives from groups and agencies throughout the community. "They provide literature. In some cases there's medical screening, blood pressure, cholesterol checks — things like that," Fredrich said.

Attendance at this annual event usually ranges from 600 to 700. Lunch for \$3.50 is to include baked chicken, mashed potatoes, green beans, salad, iced tea and rolls. Breakfast will also be available on a pay-as-you-go basis.

"It's a day that's established for the retirees and active duty people; all the active duty will be retirees eventually. It gives them an update. It provides them with current information that affects their life, welfare, well-being, income. It's beneficial for them,

and it's provided for them," Fredrich said.

This is also an opportunity for retirees to meet others and to exchange information, according to Reggie Wilson, assistant retirement services officer.

"I just encourage everybody to come and attend," Fredrich said. "It's a day that's put on for them."

Retiree Activity Day, conducted in conjunction with the Redstone Arsenal Military Advisory Council, has been held each year since 1978. There are more than 10,000 military retirees within the area of northern Alabama and southern Tennessee.

For more information about activity day, call the Retirement Services Office 876-4668/2022.



GUEST SPEAKER — Gryczynski, from The Retired Officers Association in Alexandria, Va., is scheduled speaker for Retiree Activity Day.



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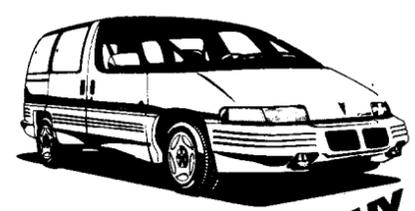
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Clear skies greet TMDE Support Group commander

BY SKIP VAUGHN

If the weather at last week's change of command ceremony is any indication, Col. Alfred Lopez has a bright future as the new commander of TMDE Support Group.



LOPEZ

Lopez assumed command of Test Measurement and Diagnostic Equipment Support Group on a clear, sunny morning Aug. 25 at the parade field. He succeeded Col. Michael Boyd whose next assignment is director of the Security Assistance Management Directorate.

"I can only say it's an honor to assume command of a healthy organization with a group of dedicated professionals," Lopez said.

Lopez, 44, served since July 1991 as director of maintenance at the Tank Automotive Command in Warren, Mich.

Boyd received the Legion of Merit during the ceremony for his meritorious service as TMDE Support Group commander since July 1990. Maj. Gen. Thomas Arwood, deputy chief of staff for logistics at Army Materiel Command, officiated at the change of command.

"You've done everything that I've asked of you," Boyd told the support group members, "and you've done it extremely well."

TMDE Support Group, which was activated in July 1981, consists of about 900 soldiers and 900 civilians. "The group has always been great," Arwood said. "I think under Col. Boyd you just continued it; you've become even more professional."

The support group is part of the TMDE Activity which has the worldwide mission of calibration and repair of the Army's test, measurement and diagnostic equipment. Bob DuBois is director of TMDE Activity.

Lopez, the new commander of TMDE Support Group, was born Oct. 19, 1947 in Woodland, Calif. He received an aviation warrant officer appointment in June 1968 and a direct commission in the Signal Corps in July 1970. He branch transferred to the Ord-

nance Corps in July 1988. Lopez has a bachelor's degree in aeronautics from Embry Riddle Aeronautical University and a master's degree in public administration from Shippensburg University. His military education includes the Rotary Wing Flight Course, Signal Officer Basic and Advance Courses, Air Traffic Management Course, Material Acquisition Management Course, Logistics Executive Development Course, Armed Forces Staff College and the Army War College.

Lopez has held aviation positions with the 229th Aviation Battalion, 1st Cavalry Division and 73rd Signal Battalion, 1st Signal Brigade both in Vietnam and the U.S. Army Aviation Element, Hunter Army Airfield, Ga. His duties have included being commander of B Company and S-4 with 141st Signal Battalion, 1st Armored Division, Ansbach, Germany; staff officer, U.S. Army Logistics Center, Fort Lee, Va.; commander and S-4 with 72nd Aviation Unit and

58th Air Traffic Control Battalion, Fort Bragg, N.C. While in Europe he served as a logistics staff officer, 5th Signal Command, Worms, Germany and later commanded the Theater COMSEC Logistics Support Center-Europe. He was next assigned as staff officer in the Army's office of the deputy chief of staff for logistics in Washington, D.C. His most recent field assignment was as commander, 66th Maintenance Battalion, 21st Theater Army Area Command, Kaiserslautern, Germany. He came to Redstone after a year at TACOM.

Included among his awards and decorations are the Legion of Merit, Distinguished Flying Cross, Bronze Star (with oak leaf cluster), Meritorious Service Medal (third oak leaf cluster), Air Medal (25th oak leaf cluster), Army Commendation Medal, Senior Army Aviator and Army General Staff Badges.

Lopez and his wife, Karen, have two sons: Mike and Marc.

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MLRS civilians get taste of military field training

Some civilian members of the MLRS Project Office got a firsthand look at a soldier's life in the field by participating in a combat training exercise at Fort Sill, Okla.

From Aug. 3-5, engineers and logisticians from the Multiple Launch Rocket System Project Office took part in an exercise with 6th Battalion, 32nd Field Artillery (MLRS) at Fort Sill.

The MLRS Greening Program "provides an opportunity for the Project Office engineers and logisticians to develop a soldier's perspective of the MLRS system in an operational environment," according to Capt. Max Carroll of the project office. "The program was also developed to obtain ideas on how the system can continue to be improved."

Carlos Kingston, of the MLRS Logistic Division, served as the group's team leader. Kingston indicated that Greening was a success, providing the opportunity to understand conditions soldiers withstand in an operational environment. This type of training provides civilians with greater insight of what soldiers en-



IN THE FIELD — Capt. Larry Hall, right, assistant S-3 for 6th Battalion of the 32nd Field Artillery, discusses issues of tactical employment with, from left, William Butler, Bobby Austin and Robert Armstrong.

sure to prepare for war, he said. Kingston also related that information and feedback provided by the troops will be used to make improvements in the weapon system.

The group participated in Nuclear, Biological and Chemical decontamination operations at night, tactical moves, occupation of firing positions, and conducted fire mission processing.

Participants from the project office included Robert Armstrong, Bobby Austin, Byron Boydston, Shad Bridge, William Butler, Christopher Clinkenbeard, Samuel Collier, Kingston, Robert Kirby, Hossie Long and John Whitaker.



MLRS CHECKUP — Hossie Long, left, inspects engine with SSgt. Michael Groak of B Battery, 6th of the 32nd Field Artillery.



CHOW TIME — Spec. Mark Therriew of B Battery, 6th of the 32nd Field Artillery, instructs Shad Bridge on how to use an MRE (Meal, Ready to Eat).

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Community can help in hurricane relief

Redstone people can assist the Hurricane Andrew relief efforts by taking non-perishable food items to a fire station on post.

The four fire stations — on Rideout Road, Vincent Drive, Patton Road and the Airfield — are serving as collection points for these items. Food will be sorted and boxed by fire department personnel and picked up for distribution in south Florida and Louisiana by the Salvation Army.

Last Thursday morning, firefighter Bill Riddle approached the Vincent Drive station chief, Carl Bohannon, and suggested this food drive for the hurricane victims. By 1 that afternoon, just as the rain and wind from the remains of Andrew hit Redstone, Bohannon had received the support necessary to start this effort. By 3 p.m., the first box of food had been donated by firefighter Ray Gunn of the Vincent station.

"Mr. Riddle's suggestion and the quick support it received from the RASA commander down to the firefighters, serves as an example of the quality, caring people of Redstone Arsenal," Bohannon said.

Chapfire a big hit in demonstration

FORT BLISS, Texas — The Army has demonstrated a mobile launcher capable of firing both Hellfire anti-armor guided missiles and Chaparral anti-aircraft missiles.

Representatives of the Army, Navy and 11 allied nations which use the Chaparral weapon system on Aug. 25 watched two Hellfire missiles fired from the new Chapfire launcher. One Hellfire scored a direct hit on a tank. The second knocked down a hovering helicopter.

On Thursday top gunners from the New Mexico National Guard, which operates the Chaparral system, fired several Chaparral missiles at a variety of targets including a helicopter, rocket propelled ballistic targets and an unmanned aircraft. Chaparral firings were all from standard full-tracked Chaparral fire units and all were direct hits.

The new Allstar radar, an improved version of the forward area alerting radar fielded with Chaparral units, was used to provide cuing and targeting information for the Chaparral gunners.

Chapfire uses a modified Chaparral launcher mounted on a wheeled trailer. The version demonstrated Aug. 25 mounts two ready-to-fire Chaparral missiles and two Hellfire missiles. The Navy is considering Chapfire for use on Navy cargo vessels. Chapfire can be mounted on a fighting vehicle, a trailer, a ship or in a fixed ground position.

The demonstrations were sponsored by the U.S. Army Security Assistance Command and Missile Command to highlight capabilities of Chaparral equipment to potential users. The Army is in the process of withdrawing Chaparral from the active force. It will continue to be operational in several National Guard units.

Loral Aeronutronic, Newport Beach, Calif., is the Chaparral prime contractor.



TASTY WELCOME — Colleen Rigby, wife of the post commanding general, is welcomed to Redstone Arsenal Aug. 6 by RASA's Equipment Management Division during the division's annual Army Communities of Excellence awards day "Corn Boil." From left are Ray Landman, Terris Wynn, Rigby; Jean Keahey, the Missile Command's ACOE program officer; and Judy Link, wife of the deputy commanding general.

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Space-age technology helps paralyzed wheelchair racer

Editor's note: Lessels is a technical writer-editor in the Technology Utilization Office at Marshall Space Flight Center.

BY BOB LESSELS

A few years ago, a healthy young man from Haleyville, Ala., Douglas Kennedy, fell from the bed of a truck, leaving him paralyzed below his rib cage. Kennedy has since become a world-class wheelchair racer with many world records and a gold medal from the 1990 Goodwill Games in Seattle, Wash. Today, thanks to a group of engineers experienced in human-powered vehicle design and construction — including a Missile Command member — he will soon compete in the World Para-Olympics for physically challenged individuals to be conducted in Barcelona, Spain, Sept. 4-18.

Kennedy also hopes to use the world's first composite racing wheelchair in a number of wheelchair races conducted each year in the United States and overseas. These events give physically challenged athletes such as Kennedy a chance to compete against other physically challenged individuals from around the world. This enriches their lives and provides opportunities to demonstrate their ability to cope with their physical limitations.

Kennedy is the holder of three world records (5 kilometer, 10 kilometer, and 5-mile race) and is a national marathon champion.

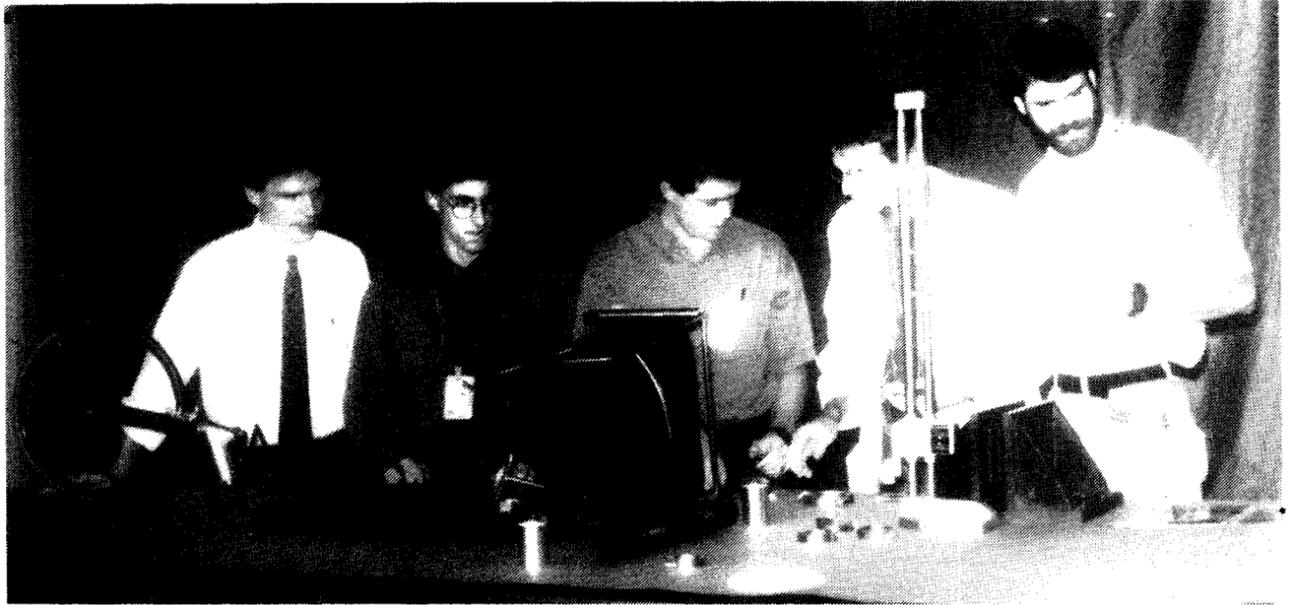
Kennedy — and many others in the world in situations like his — are trailblazers, opening a specialized range of athletic endeavors to millions of physically challenged individuals.

Request for assistance

NASA's Marshall Space Flight Center in Huntsville got involved with wheelchairs following receipt by the Center's Technology Utilization Office of an Easter Seals Association request for assistance. The association asked whether the Marshall Center had anyone with the expertise to develop a suspension system for wheelchairs to cushion riders such as those with osteoporosis from rough surfaces.

The Technology Utilization Office sent the request to several branches of the Marshall Center and published the request in the Marshall Center's employees' publication, *The Marshall Star*. William Snoddy, the Center's deputy director of program development, read of the problem and suggested the Technology Utilization Office contact Kennedy to get a wheelchair user's points of view. When asked by Marshall Center engineers to lend his expertise to the design of a flexible wheel for a wheelchair, Kennedy agreed.

The Marshall Center felt justified in pursuing this request, seeing it as a valid biomedical application of NASA-derived and NASA-contractor-derived technologies. Technology transfer's ultimate goal, according to Technology Utilization Office director Ismail Akbay, is to help American industries, educa-



TEAM EFFORT — Designers of the world's first T-frame epoxy resin/graphite and titanium racing wheelchair are, from left, Alex von Spakovsky of the Missile Command's Structures Division, Morgan Andriulli of Boeing Huntsville, Fritz Gant of the University of Alabama in Huntsville, Jeff Lindner of the Marshall Space Flight Center, and John Cranston of Martin Marietta.

tional institutions and individuals stay at the forefront of global technological leadership, including the field of biomedical appliances such as wheelchairs.

During one of Kennedy's first visits to the Marshall Center he was given a tour of its facilities, including the new Productivity Enhancement Complex. There he learned of work under way to find new applications for composite materials. He learned, for example, that epoxy resin/graphite compounds were, pound for pound, stiffer and stronger than steel.

Kennedy asked whether epoxy resin/graphite could be used to build a racing wheelchair frame. John Cranston, a Martin Marietta contractor working for the Marshall Center and an expert in making human-powered racing vehicles from composite materials, said it could, suggesting that Shell Chemical epoxy resin 9420/9470/537 coupled with AS4 graphite could be used for the chair's main frame with a titanium alloy, TI-6AL-4V, being used to replace the heavy steel portions of Kennedy's wheelchair.

Design team

Cranston enlisted the aid of several members of the light-weight, human-powered vehicles design team with which he'd worked in the past: Morgan Andriulli of Boeing Huntsville, Fritz Gant of the University of Alabama in Huntsville, Alex von Spakovsky of the Missile Command's Structures Division, and Jeff Lindner of the Marshall Center, to design a structurally enhanced racing wheelchair for Kennedy.

As the program developed, Marshall Center engineers John Vickers and William McMahon, along with machinist-technician William Norton of the

Center's Productivity Enhancement Complex added their talents to those of Cranston and his design team. Also volunteering their time and skills were Martin Marietta contract employees Robert Carroll and Ed Kirch; Thiokol contract employees Larry Pelham, Robert Carter and Phillip Thompson; and Ver-Val contract employees Charles Anders, Craig Wood, Wyatt Poe and George Rittenhouse.

The materials used were scrap, left over from a Space Shuttle payload developed at the Productivity Enhancement Complex.

Cranston served as project engineer; with Carroll handling composite machining; Kirch working on composite fabrication and machining; Norton machining the aluminum fittings; McMahon coordinating the work of the various contractors and handling acquisition of the necessary materials; Pelham designing the filament winding pattern; von Spakovsky performing the structural analysis; Pelham, Carter and Thompson handling the graphite/epoxy resin filament winding of the "T"-frame tubes; Anders, Wood, Poe and Rittenhouse handling the titanium welding assembly; and Rittenhouse also managing the plating process.

Also participating in the program were Marshall Center employees Tenina Bili, who worked on metallurgical identification; Mike Longmeyer and Jerry Oakley, both of whom worked on load control; Neil Tyson who served as test engineer; Vandel Hall and Greg Tanner, both of whom worked on test fixture and setup; Ver-Val's Richard Messervy, who worked on test fixture and setup; and foam machinist Dee Marlin of USBI.

(See Space, cont'd on page 11)

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First SDC civilians join Acquisition Corps

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The Army Acquisition Corps was established to form an elite group of experienced and highly-trained acquisition specialists to increase procurement efficiency and reduce the research, development and acquisition cost of major weapons systems. To be accepted into the Corps, employees must meet specific Army acquisition experience and training requirements.

SDC's Army Acquisition Corps members include Steven Messervy, James Katechis, Robin Buckelew, Daphne Miller, Donna Cancel, William Shelton, Ira Merritt, John Ralls, Carolyn Thompson, Betty Johnson, Deborah Christian, Richard Kowallik, George O'Reilly, Kay Ward, Thomas Bair, Roy Pugh, Edward Strange, Robert Barber, Fred Segrest, Rosita Strong, James Brothers, William Dobbs, James Dunbar, Joseph Chambers, Lawrence Tubbs, James Qualls, Robert M. Jones, William Inglis, William Reeves, Norven Goddard, Richard Bradshaw, Donna Brock, William H. Brown, Jerry Cavender, Marilyn Fratangelo, Rosalyn Gose, James Hayes, Duane Hoffman, Denise E. Jones, David Lacy, Warren Martin, Albert Reinecke, James Rowan, Reba Seals, Jaceena Shepard, Alan Sherer, Joseph Stegmaier and Helen L. Jenkins.



ACQUISITION CORPS — Some of SDC's Acquisition Corps members include from left: row one, Steven Messervy, James Katechis, Robin Buckelew, Daphne Miller and Donna Cancel. Row two, William Shelton, Ira Merritt, John Ralls, Carolyn Thompson and Betty Johnson. Row three, Deborah Christian, Richard Kowallik, George O'Reilly, Kay Ward and Thomas Bair. Row four, Roy Pugh, Edward Strange, Robert Barber, Fred Segrest, Rosita Strong and James Brothers. Row five, William Dobbs, James Dunbar, Joseph Chambers, Lawrence Tubbs, James Qualls and Robert M. Jones. Row six, William Inglis, William Reeves and Norven Goddard.

HHC 832nd Ordnance soldiers enjoy rainy day in Georgia

BY DANA KLINE

Rain and incoming clouds didn't dampen the spirits of the soldiers as they loaded onto buses and prepared to move out for the day's mission: fun and excitement at Six Flags.

Some 177 soldiers and their family members left early July 18 for a four-hour trip to the Georgia amusement park. The trip, for HHC 832nd Ordnance Battalion soldiers, was sponsored and coordinated by the company's Enlisted Council.

It rained hard prior to the departure, and continued raining as they wheeled onto the parking lot at the park. After awhile, the skies cleared and the sun came out.

There was a large crowd at the park, despite the rain. The soldiers and their families rode as many of the rides as they could.

Later in the afternoon, there was a catered meal waiting for them at the Peachtree Pavilions. They were served an all-you-can-eat fried chicken and baked beans dinner.

Bugs Bunny showed up at dinnertime and mingled among the soldiers. The children enjoyed his visit.

After dinner, groups of soldiers slowly made their way back into the park to catch a few more rides, shows and games before departure time.

The buses pulled back onto Redstone late that night, and the tired passengers went home to prepare for the next day's activities.

The Enlisted Council is planning future fund-raisers for other events. The council plans a Thanksgiving dinner and a Christmas dinner and party for the soldiers to enjoy.



MARINE MARKSMAN — PFC Harold Brown, left, a member of Marine Corps Detachment, is congratulated by Maj. David Rupp, executive officer of 832nd Ordnance Battalion, for winning the individual competition in 832nd's shootout held Aug. 8. The Marine Corps Detachment also won the team trophy followed by B Company in second place and A Company in third.

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(Cont'd from page 9)

Competitive edge

The new chair is four times stiffer than Kennedy's earlier aluminum designs. Stiffness is a key factor in improving the wheelchair's performance. When Kennedy thrusts the wheels of his aluminum-frame chair forward, the frame can be seen to bend from 1/8th to 1/4 of an inch, particularly in the area where there are several structural welds. According to the design team, the "T"-frame's stiffness should give Kennedy a significant competitive edge. At the Doug Kennedy Rotary 1500 meter race in Haleyville July 18, Kennedy finished fourth but knocked 10 seconds off his best track time on the course using the new chair.

The work being done at the Marshall Center will benefit more than Kennedy and a handful of other wheelchair racers in the United States. A conventional

wheelchair incorporating epoxy resin/graphite compounds and titanium could be of great benefit to persons whose age or infirmities make it difficult for them to manage today's heavier designs.

Also, improved devices such as walkers, braces, splints, frames for invalids' Stryker beds, stretchers, Stokes rescue baskets, portable intravenous bag poles, crutch tops, elevated toilet seats, and canes of epoxy-resin/graphite compounds could make coping with advancing years or physical disabilities easier for millions here and abroad.

Once manufacturers accept the new materials, there's little real limit to their applications.

For more information on the use of graphite/epoxy resin compounds in the biomedical field, write the Marshall Center Office of Technology Utilization, Marshall Space Flight Center, Ala., 35812 or call 544-2223.

Local computer firm wins MICOM contract

The Missile Command has awarded a contract with a potential value in excess of \$200 million to SAIC in Huntsville for systems and software engineering support at the Command's Software Engineering Directorate.

SAIC won the contract competitively and will assume work currently being performed by another support contractor.

The contract has a first year value in excess of \$23 million and will be worth a total of \$201,298,457 if the government exercises renewal options through 1998.

The Software Engineering Directorate is an element of MICOM's Research, Development and Engineering Center and verifies and maintains the complex computer software used in Army missile systems.

SAIC will maintain an on-post staff of approximately 100, plus will have support personnel in offices in Huntsville and elsewhere.

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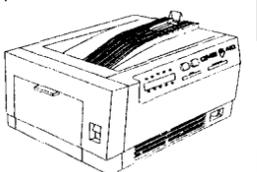
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Value engineering a good way to save declining dollars

BY SANDA MARTEL

The Missile Command hosted a Value Engineering symposium at the Tom Beville Center Thursday to spread the good word: Value engineering is a good deal for both government and industry.

Some 200 attendees — defense contractors and Huntsville-based Army personnel — heard guest speakers address the topics of value engineering management; value engineering change proposals; and development and preparation of value engineering ideas and proposals.

Value engineering is a Department of Defense program that has been in place since 1960, wherein both government and contractors strive to cut costs by finding ways to modify contracts.

Contractors are encouraged to submit Value Engineering Change Proposals as they go along in an effort to save money; the government, through an incentive arrangement, gives the contractor half of the net savings, according to Tom Reynolds, Missile Command value engineering program manager.

Reynolds said that about 80 percent of the savings realized through the value engineering program, however, are in-house savings.

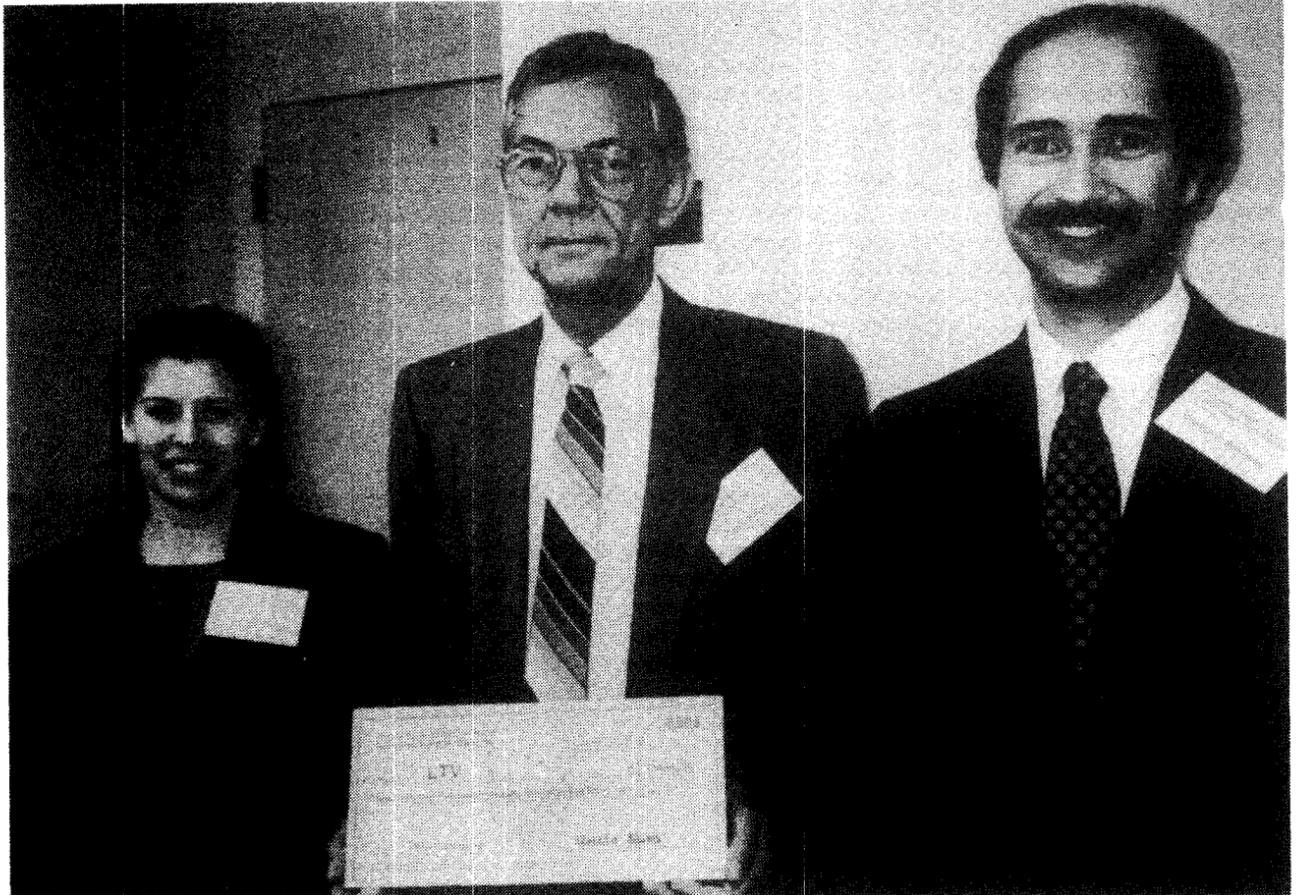
"Contract modifications are best if done early," Reynolds said, adding that many people don't realize that value engineering applies to more areas than just hardware. He cited one recent example of an office saving \$200,000 just by changing the distribution frequency of one report. By saving copying costs at the rate of 10 cents per page, a substantial savings was realized, Reynolds said.

He said that MICOM has done very well with Value Engineering and in fiscal year 91, more than one-third of Army Materiel Command savings came from MICOM.

"We saved \$76 million hard (in hand) dollars and an additional \$334 million cost avoidance dollars" during the last fiscal year, Reynolds said.

Cost avoidance dollars are defined as the dollars you don't have in hand and would have to ask for in future years, Reynolds said. He said this category of savings is perhaps the most important because of declining defense allocations.

Col. Thomas Devanney, deputy program executive officer, Tactical Missiles, gave the welcoming address at the one-day event. He called value engineering the "one bright spot in the economic environment right now."



VE SAVINGS — R.B. Bost, LTV's director of MLRS Rocket Programs, proudly displays a piece of paper that reflects his company's share of a contract savings. The \$364,000 is a three-year program net savings realized by using reusable chains instead of nonreusable steel strapping to secure MLRS rocket pods on a shipping truck. At left is Vicky Loewen, symposium organizer, and Reynolds, right.



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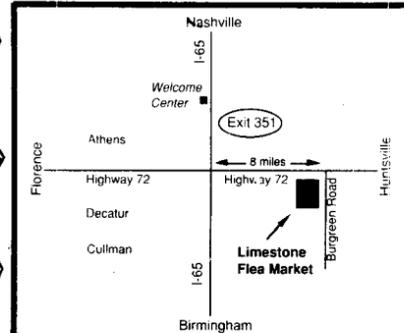
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Simulation command includes two Redstone offices

The Army Materiel Command has issued permanent orders to establish a major subordinate command: the Simulation, Training and Instrumentation Command (STRICOM).

Located in Orlando, Fla., STRICOM consists of two already established project managers — the PM for training devices and the PM for instrumentation, targets and threat simulators — and establishes a new project manager for combined arms tactical trainers and a project office for combined arms assessment network. The project manager for instrumentation, targets and threat simulators, currently located at

Aberdeen Proving Ground, Md., is scheduled to move to Orlando by late November.

As part of this consolidation, two offices located at Redstone Arsenal were also transferred from their previous commands to STRICOM, under the project manager for instrumentation, targets and threat simulators. The Targets Management Office, formerly part of the Weapon Systems Management Directorate of the Missile Command, was transferred to that project manager July 23. The targets management office will remain at Redstone and will continue to be responsible for the acquisition, development and operational

support of aerial and ground targets for the Army. The Threat Simulator Management Office, formerly called the Threat Simulator Project Office, was also transferred July 23 under project manager for instrumentation, targets and threat simulators. The threat simulator management office had previously been part of the Missile and Space Intelligence Center under the Defense Intelligence Agency. The threat simulator management office will also remain at Redstone and will continue to manage the materiel development aspects of the Army threat simulator program.

A brigadier general, yet to be named, will command STRICOM and report directly to Army Materiel Command. STRICOM and its project managers will be collocated in Orlando with the Naval Training Systems Center.

The creation of STRICOM will expand the Army's role in simulation by establishing and maintaining the simulator, simulation and modeling technology base. Additionally, the command consolidates and centralizes management of the research, development and acquisition of training devices, instrumentation, targets and threat simulators used to support training and to support the test and evaluation of major systems.

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MLRS Project has sensor-to-shooter demonstration

Drivers on Martin Road and workers in building 5250 might have wondered recently why all that military hardware was set up in the field east of the building. Included in the scenario were a JSTARS (Joint Surveillance Target Attack Radar System) Ground Station Module, an MLRS launcher, a command post, and auxiliary support equipment.

The equipment was used for a sensor-to-shooter demonstration that was part of the Program Executive Officer Tactical Missiles Mission Planning Conference held here Aug. 11 and 12. Representatives from the PEO Tactical Missiles, U.S. Army Field Artillery School, PEO Intelligence and Electronic Warfare, PEO Armaments, PEO Communications, PEO Command and Control Systems and the Communications and Electronics Command attended the conference to discuss various aspects of mission planning pertaining to the M270 family of munitions (MFOM).

The sensor-to-shooter demonstration was conducted under the auspices of the MFOM Interoperability Test Facility, an activity under the direction of Col. William S. Taylor, project manager for the MLRS.

"The IOTF is one of many programs in the MLRS Project Office that contribute to the mission planning process," Taylor said.

"We also have total responsibility for the M270 launcher, M77 rocket and the Fire Direction Data Manager, a new command and control computer scheduled for fielding in FY 93. In addition, we are developing the Improved Fire Control System, a program intended to mitigate electronic obsolescence on the launcher, and the Extended Range Rocket, a payload with substantial increase in range of the M77," he stated.

The purpose of the demonstration was to connect a sensor to a shooter in real time using tactical equipment and automated message handling. The sensor was a ground station module and the shooter was an M270 launcher that slewed and simulated the firing of an M77 rocket.

According to Lt. Col. Glen Long, coordinator for the IOTF, this is the first time that the Army has connected these specific systems together using automatic message handling.

"It was a real experience for our IOTF members and partners which included representatives from the MLRS Project Office, Redstone Technical Test Center, Software Engineering Directorate, JSTARS Joint Test Force in Melbourne, Fla., and the Fire Support Software Engineering Activity in Fort Sill, Okla. They did a great job. We also appreciate the support from MICOM, the JSTARS Program Office and the JSTARS TRADOC systems manager," Long said.

"We normally deploy to a remote location in southern Alabama to support current JSTARS testing," said Sgt. Daniel Thompson, NCO-in-charge for the Ground Station Module. "We have thoroughly enjoyed coming to Redstone Arsenal and working with the IOTF in support of this demonstration."

David Jones, lead engineer for the IOTF and part of the MLRS Project Office, explained that the JSTARS aircraft portion of the demonstration was simulated.

"The JSTARS aircraft is very expensive to fly so we were using snapshots of a playback tape during the actual demonstration. However, during the practice period prior to the demonstration, the GSM crew was in contact with a JSTARS aircraft," Jones said.

The demonstration was initiated with a Tactical Fire Direction System (TACFIRE) message sent from the GSM at Redstone to a Field Artillery Brigade TACFIRE at Ft. Sill. The message was subsequently transmitted to an FA battalion Fire Direction Data Manager at Fort Sill, an FA battery FDDM at Redstone and the M270 launcher, also at Redstone. Event times during the automatic message handling were recorded at the various stages and the MPC attendees were shown live video shots of the equipment and the M270 fire control panel as the mission progressed from initiation to launcher stow.

"I think the demonstration was very successful. We received many favorable comments from the MPC (Mission Planning Conference) attendees."

— Lt. Col. Glen Long
Coordinator,
Interoperability Test Facility

Denis Berquist, an engineer for TRW supporting the Software Engineering Directorate, called the demonstration a real challenge. "This is the most complex operation, to date, for the IOTF," he said.

Following the sensor-to-shooter demonstration, MPC attendees were offered the opportunity to view the equipment located here and talk with members of the IOTF and GSM crew.

"I think the demonstration was very successful," Long said. "We received many favorable comments from the MPC attendees."

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MLRS

(Cont'd from page 1)

various states of disassembly at the motor pool. "Last time I was here they were still sand-covered."

A soldier in the battalion, accompanied by another soldier, drove the bus that took the Redstone group on a bumpy ride through the sandy drop zones to the battalion's live-fire exercise site. They both belonged to A Battery which had completed its firings that morning. The driver was asked his opinion of the MLRS system. "It's pretty good," said Spec. Stephen Wilcox, 21, from Florence, S.C. "If the unit follows the TC660 — that's the MLRS bible, field artillery manual — it works, I know that."

"I think it's the most impressive thing I've ever seen," said the other soldier, PFC Tracey Andrews, 19, from Grand Prairie, Texas. "Last night I saw my first live fire, and I think it's the most impressive thing I've ever seen in my life. It just blew my mind."

At the site of the live-fire exercise, an MLRS launcher could be seen firing in the distance. The photographer and the public affairs specialist were permitted to get a closer look with their cameras. A live fire exercise is conducted about once a quarter for this 520-member battalion. The soldiers had been in the field since Aug. 21, and they started firing Aug. 26. A total of 113 rockets were to be fired over two days. With mostly single shots, B Battery was rotated in first with its 37 rounds. Next came A Battery with its 38 rounds. The Redstone group had the opportunity to see C Battery fire several of its 38 rounds. Both Bravo and Charlie batteries were firing the improved launchers, while Alpha battery had one of the improved launchers, according to the battalion executive officer, Maj. Don Hinton, 37, of Santa Fe, Texas.

It took a little over eight hours of actual firing for A Battery to shoot its rounds at the targets which were generally about nine miles away, according to the Alpha battery commander, Capt. Gerald Malloy, 30, of Boston, Mass. "We had a couple of check fires — mainly when the range gets closed down for aircraft or something.

"It went very well," Malloy said. "In MLRS a strong maintenance program is important; once you go to the field, it pays dividends because you don't have launchers breaking down, things like that. It's a great system but it does require maintenance."

MLRS is "a great system, a soldier's system," said SFC Craig Norris, 30, of Philadelphia, Pa., a member of the headquarters battery. "This system can put 12 rounds down-range in less than 48 seconds. There's no other artillery system in the world that can do it as accurately as this system here."

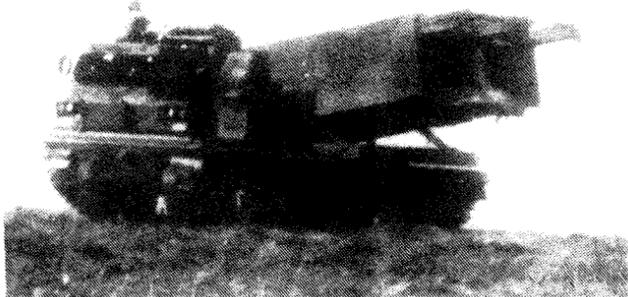
The battalion commander, Lt. Col. Arnold "Smitty" Smith, 39, of Washington, D.C., thanked the Redstone group as the bus prepared for its return trip

to nearby Pope Air Force Base. During the Persian Gulf War, the Iraqis called MLRS "steel rain" because of the effective projectiles it fired on them. "Everybody on this post knows what the 'steel rain battalion' is, and I can tell you the folks in Iraq know too," Smith said.

Because of bad weather in the Southeast, the return trip to Redstone took somewhat longer than planned. The crew of the Sherpa plane from Redstone — pilots Sam Maki and Roger Christie, and flight engineer O.C. Armstrong — did a good job getting the plane to Knoxville for the night. The MLRS group members returned home around 1 a.m. in rental cars after about a three-hour drive.



SUPPORT TEAM — Members of Redstone's MLRS project office team pose next to a launcher at the 3rd of the 27th Motor Pool at Fort Bragg. Kneeling from left are Dave Phelps of the Photo Lab; CWO 3 Vic Walczak, the project office's representative at Fort Bragg; Michael Barber and Dwayne Montgomery, both of IMMC's Maintenance Engineering Directorate; Cindy Whisenant of the project office; Gayle Falling of Software Engineering Directorate. Standing from left are Floras Burks of IMMC's Materiel Management Directorate, Steve Bruens of Dynamic Analysis Inc., Carlos Kingston of the project office, Kathlyn Dulaney of Materiel Management Directorate, Tony Adams of the project office, Joe Percer of the project office, Cindy Johnson of Maintenance Engineering Directorate, and Barbara Hebert of the project office.



READY TO FIRE — Members of C Battery, 2nd platoon of the 3rd/27th Field Artillery, prepare to fire launcher in the All-American Drop Zone.

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Announcements

Karate class

Adults interested in taking a karate class are requested to call the Recreation Center at 876-4531.

CPR challenge

CPR certificate holders can renew their certification by challenge during the week of Sept. 8. Participants should be prepared as there will be no instruction. Practice time is allowed. Requirements for challenge are pay required fee; prove current certification; demonstrate CPR and choking skills; pass written exam. For information call 536-0084 ext. 321.

Resource managers

Redstone/Huntsville Chapter of the American Society of Military Comptrollers monthly luncheon will be held Sept. 9 at 11:30 a.m. at Madison Square Holiday Inn. Retired Lt. Gen. James F. McCall, ASMC executive director, will speak. For reservations call Kay Harville 876-8669.

Motorcycle course

The required Motorcycle Safety Foundation Better Biking Program for people operating motorcycles on post will be offered Saturday, Sept. 26, from 8-2:30. Civilians must pre-pay a \$15 fee. To register call 876-8838 or go to building 3324 (MOS Library) by Sept. 24. To operate a motorcycle on post you must attend the program and possess a card verifying completion.

Pajama Jam

The Enlisted Council of HHC 832nd Ordnance Battalion will be having a Pajama Jam on Sept. 11 from 8 p.m. until 3 a.m. at the Challenger NCO Club. It will be open to 18 years and older. Free food will be available. Tickets are on sale now and are \$5 for male, and \$2.50 for female. All are invited. For more information, call Spec. Williams 876-2494 or call Spec. Rawls 876-1105 or 842-9835.

Space logistics symposium

The Society of Logistics Engineers (SOLE) and AIAA are sponsoring the fifth Space Logistics Symposium to be held in Huntsville May 24-26, 1993. Logisticians, operators, educators, design engineers, and planners, at all levels of management and staff, are invited to submit abstracts of papers they would like to present during the symposium. Prospective authors should mail three copies of their abstracts, accompanied by a complete copy of the Call for Papers and a fully filled out Abstract Submittal Form, to the technical program chairman before Sept. 21. His address is: Jim Graham, technical program chairman; Booz-Allen & Hamilton Inc.; 600 Maryland Ave., SW, Suite 302 West; Washington, D.C. 20024; phone (202) 488-1889 ext. 26, Fax (202) 479-4688. For more information about the symposium, call John Walker of Sparta Inc. 837-5282 (ext. 1528).

Soldier/NCO of Year luncheon

The Post Soldier/NCO of the Year luncheon will be held at the Challenger NCO Club from 11 a.m. to 1 p.m. Thursday, Sept. 17. Winners will be announced and awards presented. Tickets cost \$6, and can be purchased from your unit soldier of the year committee member or from the Challenger NCO Club. For more information, call SSgt. Ken LeBon 842-2328 or Sgt. Cathy McCoy 955-6030.

Army learning center

The North Army Learning Center, building 3349 on Little John Drive, will be closed Sept. 5-7 in observance of the Labor Day holiday. For more information, call Donald B. Williams 876-9427/9416.

Pie throw/doughnut sale

The 832nd Ordnance Battalion's Personnel Administration Center (PAC) is sponsoring a pie throw this afternoon at 4 behind building 3440 (battalion headquarters). "The pies will be auctioned off starting at \$1. Come and take revenge on your PAC!" The PAC will also be selling Krispy Kreme doughnuts at building 5250 and building 4880 on Friday.

West Point society

The Tennessee Valley West Point Society will hold a luncheon Sept. 16 at 11:30 a.m. at the Officers Club. The luncheon will be to welcome Maj. Gen. Joe Rigby and Brig. Gen. Jan A. Van Prooyen to the area. Also a short business meeting will be held. All graduates of the U.S. Military Academy are invited to attend. A flyer will be distributed by the end of August from the Society to indicate how to make reservations, or call Col. Arthur Meier 876-3382.

Fashion show

S&E Productions will have its second annual fashion show — including singing, dancing and food — Sept. 4 at Challenger NCO Club. Doors open at 6:30 p.m., and the show starts at 8. For ticket information, call Shelia Lee 721-1831 or the Challenger Club 837-0750.

Recreation Center tours

Opryland — Join us on Saturday, Sept. 5 for a day at Opryland. Cost is \$22.50 for adults, and \$15.50 for children 4-11. Cost includes transportation, admission and a bag lunch. *Graceland* — Visit the home of Elvis Presley on Sept. 26. Cost is \$22.75 for adults, and \$17.50 for children 4-12. Cost includes transportation, admission to all attractions at Graceland and lunch at the Heartbreak Hotel Cafe. Both tours are now open to the entire Redstone community — military and civilian. Call 876-4531 after 1:30 p.m. weekdays, or after 10 a.m. weekends for more information.

832nd family support

The 832nd Family Support Group will have its monthly meeting 7 p.m. Sept. 3 in the Post Chapel activity room. It is open to all family members and soldiers of the 832nd Ordnance Battalion. Child care will be provided. September's program will be presented by the Outdoor Recreation Center and Arts and Crafts. "They will discuss the many fall opportunities that are available for soldiers, spouses, and children at the Outdoor Recreation Center and the Arts and Crafts building." For more information, call 876-0033.

Officers wives

The Officers Wives Club (OWC) Activities Signup Luncheon will be held Tuesday, Sept. 8 at the Officers Club. Sign up for your favorite activities at 10 a.m. and join the group for lunch at 11. Scheduled speaker is Maj. Gen. Joe Rigby, commander of the Missile Command and Redstone Arsenal. "And the program will also feature ice-breaker games to help the ladies to get to know each other." Make reservations by noon Sept. 4 by calling Martha Owens 772-0659 or Sheila Wilson 882-6722. Hourly child care will be available at the Child Development Center Annex by calling 876-7952. Make child care reservations early to assure enough caregivers for that day.

Civilian Wellness Center

Hours of operation: 6 a.m. to 7 p.m. *Aerobics:* "Step" aerobics classes coming soon! Put some enthusiasm back in your workout! These classes will be combined with low impact aerobics on Mondays, Wednesdays and Thursdays at 4:45 p.m. at building 5663. Classes are free and open to Civilian Wellness Center members. Call 955-6844 for more information. *Health education:* "Eat for Life" weight management classes begin Sept. 10; and "Healthy Backs for Life" low back care program and "PACE" arthritis exercise classes begin Sept. 15. These programs are open to Wellness Center members. For information call 955-6844. *Wellness tip of the week:* If you're stressed out, learn to laugh more! In one study at Stanford University, five male medical students watched comedy tapes while their colleagues just rested in a room with no entertainment. Those students who viewed the comedy showed lower levels of stress-related hormones.

Smoking cessation

Two group support sessions, open to former Smoking Cessation class participants, will be held from 1-2 p.m. Sept. 3 and Sept. 21 in the MEDDAC classroom at Fox Army Community Hospital.

Best yards

Yard of the Month winners for August are: best single unit, Lt. Col. Michael I. Howell, 12 Wadsworth Drive and Cpl. Robert K. Walters, 1209-B Nike St.; best multiunit, 2nd Lt. Renee M. Vessels, 276-A Wesson Circle and Sgt. Dale M. Burr, 1144-C Hof Circle. The troop winner is E Company, 832nd Ordnance Battalion. Winners receive a certificate of appreciation, a color photograph of the ceremony, a free meal from their respective club for the winner and a guest, a \$10 gift certificate from the Post Exchange, and display of the Yard of the Month sign for a month. "Congratulations to all the winners and many thanks to all who participated."

Post Theater movies

Thursday — *Far and Away*, rated PG-13, 140 minutes. Friday — *Cool World*, PG-13, 100 minutes. Saturday — *Boomerang*, R, 113 minutes. Sunday — *Boomerang*. Tuesday — *Patriot Games*, R, 117 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

College schedule

The Education Center provided the following college schedule: Athens, Nov. 30 to Feb. 26; Calhoun, Dec. 1 to Feb. 26; Columbia, Oct. 19 to Dec. 12; Faulkner, Oct. 26 to Dec. 17; Florida Institute of Technology, Oct. 5 to Dec. 18; Phillips, Oct. 5 to Jan. 15 and from Nov. 16 until Jan. 15; and Drake, Dec. 2 to March 4.

Quality management workshop

The University of Alabama in Huntsville Center for the Management of Science and Technology and the UAH Research Institute will co-sponsor a quality management workshop on the UAH campus Sept. 17 entitled, "Paving the Road for Customer Satisfaction." The agenda will include presentations and case studies by representatives of industry, government and academia. A tentative list of organizations to present their progress include Missile Command, Marshall Space Flight Center, Teledyne Brown Engineering, Engelhard, the City of Huntsville, the State of Arkansas, the University of Tennessee, and UAH. For more information call Charlie Hammons or Gary Maddux 895-6343 or Dr. William Souder 895-6408. The workshop is offered free to the public on a first-come, first-serve basis. For reservations call 895-6343.

Ammunition management careerists

The Ammunition Management Career Program, CP-33, annual Army screening panel will convene Nov. 16-20 at the Army Defense Ammunition Center and School in Savanna, Ill. The panel will evaluate both mandatory and voluntary AMCP registrants eligible for promotion to GS-11 through GS/GM-15 grade level positions Armywide. The panel will evaluate "initial" submissions for the 1993 referral year (Oct. 1 until Sept. 30, 1993), "add-on" submissions to initial submissions already evaluated by a past panel, "reconsideration" submissions which request a review of specific element ratings assigned by the 1992 midyear panel, and "updates" to previously rated packages. All careerists wishing to be referable must submit either an initial, add-on, update, reconsideration or no-change submission. Careerist packages must be submitted to the activity career program manager, Bobby L. Sharp, by Oct. 2; send them to AMSMI-MMC-AM, building 5681, room B20S. Sharp can be reached at 876-0341/0343.

Red Cross volunteers

An orientation for new Red Cross volunteers will be held Thursday, Sept. 10 at 10 a.m. at the Fox Army Community Hospital, upstairs classroom. For more information, call Bev D'Anna 830-1970.

Found property

The following item was found in the Housing Area: A 20-inch, girl's bicycle. To identify and claim this property, contact the Provost Marshal Office, Investigations Section, building 3649, phone 876-2090/3449.

Red Cross blood program

Sept. 3 — building 3711 (Recreation Center), hours 8-noon, no appointment necessary. Sept. 4 — 5250 (bus), 6:30-12:30, contact Linda Robinson 876-8226. Sept. 10 — 8027 (bus), 8:30-12:30, Jim Harrington 876-8210. Sept. 11 — 4488 (bus), 7-12:30, Mallory Murray 876-5973; 7113, 7:30-11:30, Cindy Duncan 876-8329; Bicentennial Chapel, 7-noon, no appointment necessary. Sept. 17 — Thiokol (bus), noon-4, Beverly Collier 882-8220; 5681 (bus), 7-noon, Linda M. King 876-2555. Sept. 18 — AMXME, 4940-B Research Drive, 7-noon, Peggy Phillips 895-5401; 4910 University Square, Suite 7, 8:30-12:30, Randall Prince 722-1691. Sept. 25 — SDC, 7:30-1, Gary Ledbetter 955-4208; 4505 (bus), 7-1, Linda Keel 842-8424.

Marine Corps League

The Brandon-Wilbourn Detachment of the Marine Corps League will hold its next meeting at 7 p.m. Tuesday, Sept. 8 at the Marine Corps Reserve Center on South Parkway. This will be the group's last meeting prior to its installation ceremony scheduled for Sept. 12. "We'll be finalizing details and we're looking for a few more charter members." For more information, call Ken Taylor 776-4739 or Lou Knoell 828-4225.

Bone marrow transplant

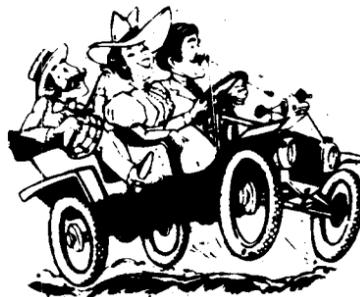
A trust fund has been set up to receive donations for a bone marrow transplant for Barbara S. Goff, a U.S. Postal Service employee in Arkansas. She grew up in a military family and her father, retired Capt. James W. Mitchell, and uncle, retired Sgt. C.A. "Flo" Mitchell, were stationed together at Redstone Arsenal in the early 1960s. Barbara has medical insurance through her employer but it will not cover her bone marrow transplant since it is considered an experimental treatment for the type of cancer she has. Cost of the procedure is \$150,000. Donations may be sent to: Barbara S. Goff Trust Account, Account - 907856, Union National Bank, Little Rock, Ark. 72203. The Union National Bank trust department telephone number is (501) 378-4024.

Parenting classes

Two eight-week parenting classes are being offered free at Army Community Service on Tuesday nights beginning Sept. 15. A 4 p.m. class is open for parents with children ages 2-12, and a 6 p.m. class for parents with teen-agers. Classes are open to military, retirees and civilians. For more information, call Virginia Dempsey of ACS 876-5397.

Active/Retired NCO Spouses

The Active and Retired Non-Commissioned Officers Spouses Club of Redstone Arsenal is having a welcome coffee in honor of Colleen Rigby, the wife of the post commanding general. The coffee will be held at 7 p.m. Thursday, Sept. 10. "Everyone is welcome, especially all active duty and retired NCO spouses." For more information, call 859-0340 or 828-6885.



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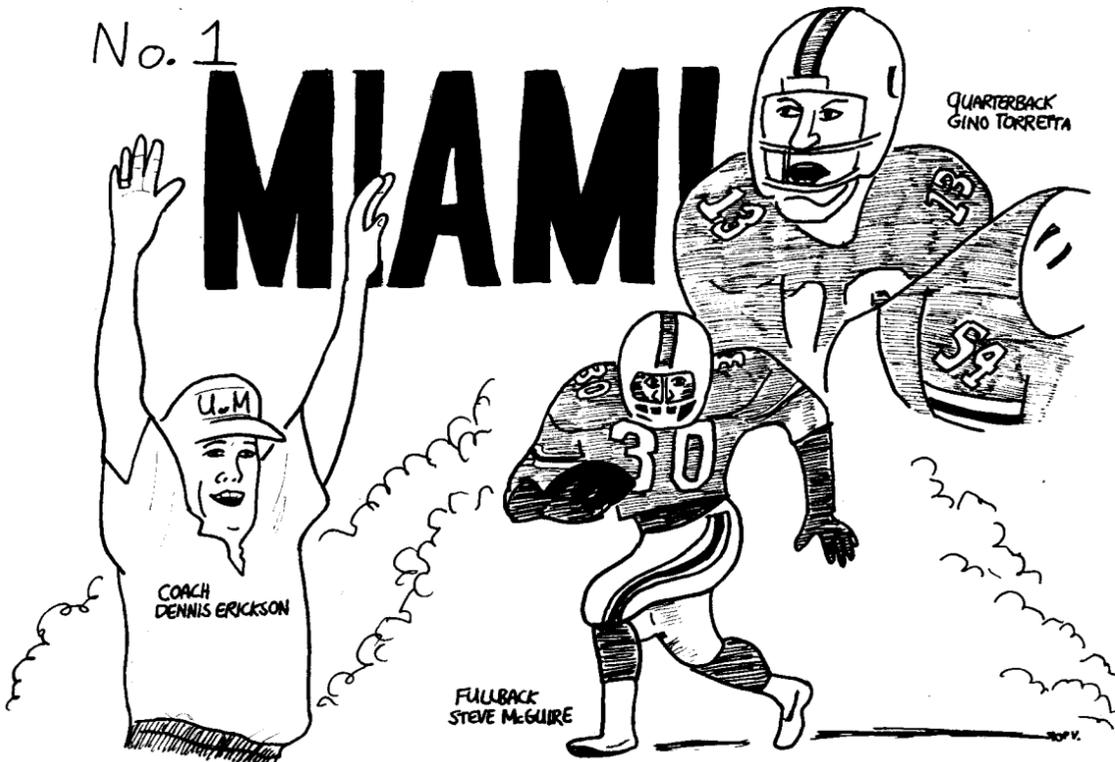
Until someone proves otherwise, the Miami Hurricanes are rightly considered the best college football team in the nation.

Miami will open its season Saturday at Iowa. The Hurricanes have eight returning starters on offense and seven on defense from last season's unbeaten 12-0 team.

Iowa, which was upset last week by North Carolina State, is dangerous but shouldn't pose too much of a problem for the Hurricanes. The pick here is... **Miami**.

Skip's Picks opened with a 2-0 record last week. Here are my predictions for selected games this week in major college football:

- Miami at Iowa — Miami by 14.
- Vanderbilt at Alabama — Bama by 10.
- Auburn at Ole Miss — Auburn by 7.
- Jacksonville State at Ala. A&M — JS by 7.
- Rice at Air Force — Air Force by 14.
- Utah State at Arizona — Arizona by 21.
- Washington at Ariz. State — Wash. by 10.
- Citadel at Arkansas — Arkansas by 17.
- La. Tech at Baylor — Baylor by 10.
- Rutgers at Boston College — BC by 3.
- BYU at Texas-El Paso — BYU by 7.
- San Jose State at Calif. — Cal by 10.
- Penn State at Cincinnati — PS by 21.
- Colo. State at Colorado — Colorado by 13.
- Duke at Florida State — FSU by 30.
- Syracuse at E. Carolina — Syracuse by 10.
- Georgia at S. Carolina — Georgia by 7.
- Hawaii at Oregon — Oregon by 6.
- Houston at Tulsa — Houston by 4.
- Kansas at Oregon State — Kansas by 10.
- Cent. Mich. at Kentucky — Kentucky by 7.
- Texas A&M at LSU — Texas A&M by 7.
- Louisville at Ohio State — OS by 14.
- Maryland at Virginia — Virginia by 21.
- Memphis State at S. Miss. — Memphis by 10.



- Mississippi St. at Texas — MS by 4.
- Utah at Nebraska — Nebraska by 21.
- Nevada at Wyoming — Wyoming by 7.
- TCU at New Mexico — TCU by 10.
- North Carolina at Wake Forest — NC by 7.

- Notre Dame at Northwestern — ND by 17.
- Oklahoma at Texas Tech — Okla. by 7.
- Southern Cal at San Diego St. — SDS by 7.
- Tulane at SMU — SMU by 14.
- SW Louisiana at Tennessee — Tenn. by 14.

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Readiness Group members helping hurricane victims

Twenty members of the Redstone Readiness Group are in southern Florida providing humanitarian relief to the victims of Hurricane Andrew which hit the area last week.

Eleven soldiers got word at 6:30 a.m. Monday that they would be leaving Redstone for Miami at 11 a.m. They followed five soldiers who left for Miami Saturday and four who went Sunday, according to Col. Charles Webb, commander of the Redstone Readiness Group.

The soldiers who left Monday are Lt. Col. Whister Smith, Maj. Clifton Miller, Maj. Claude Rogers, Capt. Richard McArdle, Capt. Thomas Harrison, MSgt. Elmore Downing, SFC Charles Dubose, SFC Melvin Conners, SFC Anthony Lyles, MSgt. Michael Hengler and SFC Rebecca J.B. Allison. The airfield crew included Jim White, Sam Maki and Doug Paddock.

The soldiers are part of Task Force Bravo, the Department of Defense's response to the devastation of south Florida caused by Andrew.

"Our people will be giving humanitarian relief as well as providing logistics to support the housing, feeding and taking care of the population that's been left almost destitute," Webb said of the local effort.

"This is probably the largest disaster relief effort we've ever been involved in," he added.

The Readiness Group (RG) soldiers will be joining up with the task force in Florida that was organized at Second Army headquarters in Fort Gillem, Ga. and

also includes RG-Jackson, S.C., RG-Atlanta and RG-Patrick (Fla.).

Webb said soldiers were selected to travel to southern Florida based on their expertise in logistics, operations and food service specialties.

Webb praised the Redstone Arsenal Airfield for their ability and willingness to respond quickly to the Readiness Groups' request for service. "Without them I'd be worrying when we were going to get there," he said.

The soldiers boarded the Sherpa C-23 with only the personal clothing and supplies they will need for 30 days. None of those selected for the mission hesitated for the service, Webb said.

"The Readiness Group is made up of senior people who are subject matter experts and fully capable of providing assistance when needed. Our mission is to assist the National Guard and Reserve," he said.

Before boarding the plane, the group seemed enthusiastic and in good spirits. None have been involved in disaster assistance missions such as the one they are about to undertake, they said.

"The biggest issue and most dangerous situation we're dealing with down there right now is the polluted and contaminated water supply and the possibility of disease outbreaks that brings," Webb said.

"I'd say most of them probably feel a sense of anticipation, of apprehension. They don't know what's coming, but they're a component group and technically proficient," he said.



FLORIDA BOUND — These 11 soldiers of the Redstone Readiness Group and a Redstone Arsenal Airfield crew of three left Monday for Miami, where the soldiers will join an Army task force providing disaster relief to the victims of Hurricane Andrew. Also pictured at center, front row, is Col. Charles Webb, Readiness Group commander, who came to the airfield to give them a send off.

American Heart Association

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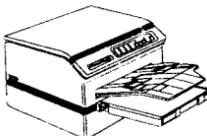
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