

Redstone Rocket

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Competition in contracting saves taxpayers' dollars

Army missile programs encouraged to pursue more industrial sources

BY SKIP VAUGHN

The Missile Command and the program executive offices here are on track for meeting their fiscal year '91 goal for percentage of contract dollars awarded competitively.

That's the good news. MICOM is slightly above its 26.4 percent goal for a \$3.2 billion program. The not so good news is that the 29.7 percent figure through the first three quarters of fiscal 1991 is below last year's pace of more than 31 percent. By the end of fiscal '90, some 39.8 percent of MICOM contract dollars had been awarded competitively. It was the best year here since the command began tracking competition in 1982.

As one of the ways of promoting a more open contract market, an Air Force representative has been invited to meet with MICOM functional elements July 16-17 to tell about several Air Force successful competition-enhancement programs. Jim Hill, an engineer with the Air Force Logistics Center at Tinker Air Force Base, Okla., is to meet here with officials from the Research Development and Engineering Center, the Missile Logistics Center, Product Assurance Directorate, and Procurement Directorate.

"Competition is a manner of utilizing more than one company as a potential supplier of whatever it is we need, be it a supply of weapon system or service," said Lt. Col. Alfred Howard, the MICOM competition advocate. "In the long run it will reduce cost, improve quality and enhance our industrial base which is needed for mobilization."

Reduced cost can be realized because a supplier is more likely to cut his price if he knows there are other sources out there capable of providing the same product. Improved quality can result because "contractors are being challenged to do it smarter and better as well as at a lower cost," Howard said. This is supported by Department of Army statistics indicating

that competition resulted in a 30 percent decrease in quality deficiency reports from fiscal 1988 to fiscal 1989.

The value of an expanded industrial base — more companies capable of providing a given product or service — can be found in the critical need for support during Operation Desert Shield/Storm. Obviously, if one company had to meet all the weapon system needs during wartime, that company would be overwhelmed. "You need an industrial base, and you need other companies that are capable of satisfying your needs," Howard said.

Competition in contracting is not a new effort. In fact the Armed Services Procurement Act of 1947 requires that purchases be made by formally advertising for bids whenever feasible and practicable. And U.S. Public Law 96-83 states that it is the policy of Congress to promote economy, efficiency and effectiveness in procurement of property and services. In a September 1982 memorandum, the secretary of defense highlighted what is expected from competition initiatives. The enactment in April 1985 of U.S. Public Law 98-369, the "Competition in Contracting Act of 1984," made it clear that Congress and the American taxpayer expect contracting activities to make better use of competition.

"Competition is not just something that's limited here at the Missile Command; throughout the Army and Department of Defense, all are challenged. The Army's goal for (fiscal year) '91 is 61 percent," Howard said. "And the more that we can do to improve the process by treating this as though they were our own dollars — which they are — maybe we will be able to do better in competition and still at the same time not have to sacrifice quality and readiness. You can compete for 'Best Value.' You should compete for 'Best Value.' If you don't, what will you have to measure it against?"

STRETCHING THE DOLLAR



Contracts for amounts greater than \$2,500 should be considered for open competition; possible exceptions may include those covered by statutes, earmarked for handicapped or prison industries, and so on. The procedure is one in which the command will try to award these contracts through formal advertising and competition wherever feasible and practicable. Non-competition exceptions for major acquisitions must be cited and either concurred in or approved. Howard ap-

(See Saves, cont'd on page 8)

Project office sponsors trip for war's Hellfire users

Representatives from a Fort Rucker aviation unit that fired Hellfire missiles during the Persian Gulf War are visiting a Hellfire contractor today in an Army-sponsored trip.

The Air to Ground Missile Systems Project Office here is sponsoring the visit for 12 soldiers of the 2nd Battalion, 229th Aviation Regiment's "Flying Tigers" from Fort Rucker. The soldiers are visiting Rockwell International Corporation's tactical systems division in Duluth, Ga. These commissioned officers, warrant officers and enlisted soldiers represent three crews which participated in Operation Desert Storm.

"They participated in the early days of the (ground) war right after Feb. 22nd, one of the first units to engage enemy convoys on the causeway between Saudi Arabia, Iraq and Kuwait," said Maj. Matt Barnett, assistant project manager for applications. "Their missions were at night under adverse conditions with a lot of oil fires and smoke; and they still had great success and were attributed with 50 tank and light-armored vehicle confirmed kills." He and Col. Robert Huston, the project manager for air to ground missile systems, are at Rockwell this morning representing the project office for the visit.

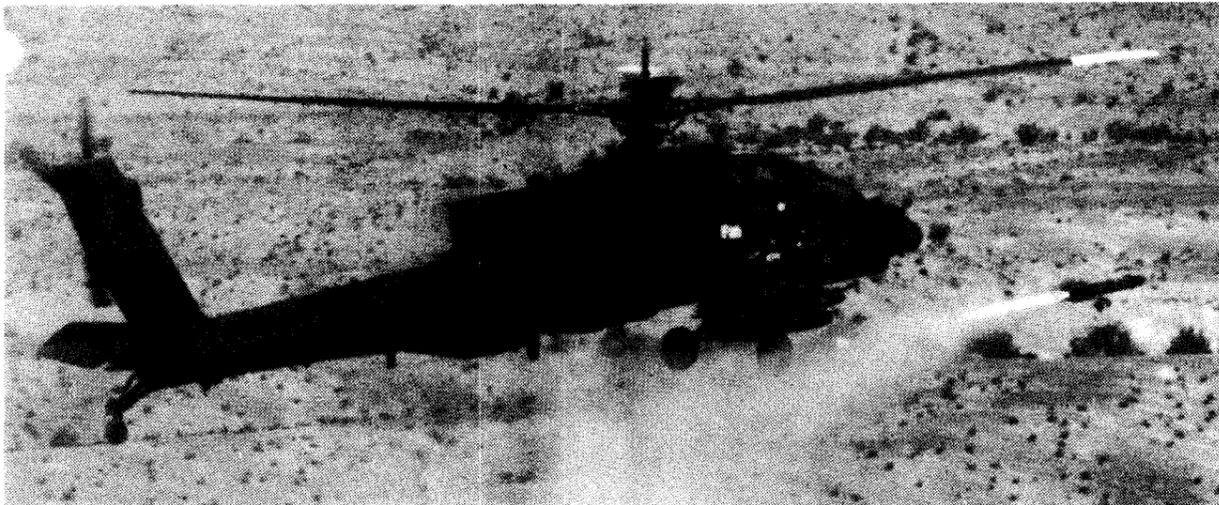
This trip is similar to efforts sponsored by the Multiple Launch Rocket System Project Office which has enabled soldiers who used MLRS in the war to visit its contractor's plant.

"The objective is to kindle a relationship between the user and the manufacturer of the system," said Maj. Brian Foulkes, assistant project manager for production in international operations at Air to Ground Missile Systems. Hellfire's wartime performance was a joint effort between the manufacturer who developed the system and the soldier who used it, he said. "One without the other and we would not have succeeded, it took both."

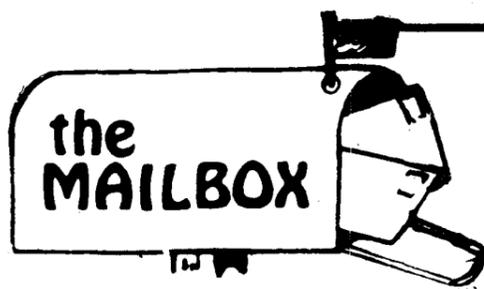
Besides Rockwell, the system's other prime contractor is Martin Marietta Corporation missile systems division of Orlando, Fla. Representatives from both Rockwell and Martin Marietta were here Friday morning to meet with officials of the project office, the Test and Evaluation Directorate, and the Research Development and Engineering Center. They were to discuss any problems relating to Hellfire's use in the war, and come up with a plan of action to address unresolved issues.

Hellfire was fired by Army and Marine helicopters to knock out enemy tanks, light armored vehicles, bunkers and fortified positions. "The first shots of the war were Hellfire engagements used in clearing out enemy munitions on Jan. 11," Barnett said. "At first this was kept secret so the enemy would not be ready for attack helicopters. That's why the Air Force was given the credit for clearing out the enemy, when it was really the Apache using the Hellfire missile that open-

(See Project, cont'd on page 2)



RAINING MISSION — An AH-64 Apache fires a Hellfire missile during desert training.



Customer services

Editor:

I want to commend the Redstone Arsenal Support Activity for publishing its "Customer Information Guide for Installation Support Services," dated June 1991. I just received a copy, and was impressed that someone finally took the time to document in one source the various services that are available from RASA. I realize that this does not speed up work orders, but it is a small improvement that should be praised.

The usual method of finding out how to do something is to ask around to see if anyone you know has done it before. This usually fails, so you branch out to someone who knows someone else. Finally, you find a person who can tell you what organization to contact and what form to use. Of course, people who use certain services a lot already know the procedure. But many people only use certain services infrequently, and this new guide will be very beneficial as a place to start.

Finally, I want to encourage RASA to go the next step, and provide references to more detailed information, such as the exact way to fill out the various forms, etc. This information could even be put "on-line," so that people could get the information from a computer terminal through a simple menu program. For example, within our organization, we have a menu program to allow us to get schedules, check per diem rates, obtain phone numbers, etc. The information contained in RASA's guide could be done in a similar manner.

Thanks for the improvement — and don't stop here.
Name withheld by request

Genuine pride

Editor:

Although it all began nearly a year ago, each event leading up to the Persian Gulf War remains vivid in my memory. I remember the news stories. I remember the headlines. I remember wondering how many of my young friends who are now faithful servers in this country's great military would be going off to the Gulf to risk their lives. You see, I am only 23 years old; and until this past year, war was only something I read about in history books and viewed on the television and movie screens. However, with all the shocking events leading up to the Gulf War, there is one event that sticks in my mind and gives me chills each time I remember.

It was Thanksgiving of 1990 and already several

thousand soldiers had been deployed to Saudi Arabia. I was living in Florida at the time and had come home to Huntsville to visit my family for the holiday. I was sitting in my parent's living room when my mother delivered the news. "Your brother David is going to Saudi Arabia." She had to be joking. David W. Jones is not a soldier. David is employed here with Redstone Arsenal Support Activity. My mother went on to explain that a paper was routed through David's building requesting people to serve in Operation Desert Shield in necessary positions. David was qualified for one of these needed positions and volunteered his life and skills to the service of the United States of America.

As I mentioned before, this memory brings chills each time I reflect on it. However, the chills don't come from fear, they come from pride. This is a genuine type of pride. The kind of pride that travels from the top of one's head to the ends of one's toes. The kind of pride that brings tears to your eyes. David W. Jones is my brother and I have never been more proud of a person or held such respect for David as I do now.

David left for Saudi Arabia in the first days of February, right in the middle of Operation Desert Storm. It was a difficult time to leave not only because the thick of war was in full force but also because of personal conflicts at home. David never backed down though. He pushed forward with the force of the greatest soldier and has been plugging away for the good of our country for the time which he has served. It makes me feel elated and hopeful that when the offender shows his colors, the defender, our military and civilian personnel alike, pushed them aside to fly their own. These are the men and women who have made America what it is today and I choose to praise them and hold them in the uppermost regard.

David W. Jones will not be coming home until August of this year. I want my brother to know how proud the people of America are of those he represents. We have had parades, celebrations, acts of patriotism, laughter, tears, and the finest Fourth of July spirit since 1776. I want David and all those serving who have not returned home since America's victory in the Gulf to experience the celebration. I want them to know how proud I am and how proud you are. This letter is not only for David W. Jones. It is for each man and woman who served. It is for each family member who let go. It is for each of those serving who gave their lives. And it is for America and our God who let good prevail and delivered justice and right through the hands of America's finest. Let's keep this spirit alive and keep the celebration at its highest level.

Project

(Cont'd from page 1)

ed the corridor for the Air Force to start its raids into Iraq in mid-January."

The Army's AH-64 Apache and OH-58D Kiowa Warrior helicopters were armed with Hellfire missiles; and the Marine Corps had them on its Cobra helicopter. Several thousand Hellfires were deployed and more than 3,000 were used, according to Barnett. "There were probably thousands of vehicles and bunkers destroyed, using Hellfire systems," he said.

Barnett was in Saudi Arabia from Feb. 7-21 and from March 7 until May 4. On the first trip, he served as technical team chief assisting the 11th Aviation Brigade in training and use of Hellfire in a desert environment. He also used the brigade, which is from Ilshheim, Germany, to distribute gathered information to

Be proud, America, and be thankful. Thank you, David. I love you.

Cynthia Jones McNeil
Chaparral/FAAR Project Office

Road warriors

Editor:

This letter is directed to the drivers on the south end of Redstone Arsenal whose time is so much more valuable than others'. I specifically refer to those who take the Briar Road/Sheffield Road "shortcut" between Buxton and Patton Roads in an attempt to get one or two car lengths ahead of flowing traffic.

Speeding through the "shortcut" is one matter; however, when you totally ignore the STOP signs when entering onto Patton or Buxton and pull right out in front of oncoming traffic, it becomes another. STOP means STOP. If the Provost Marshal had meant for traffic to yield at those points, YIELD signs would have been posted there in lieu of STOP signs.

On many occasions, I have had to quickly reduce my speed to avoid hitting you after you have run the STOP signs and pulled onto Buxton or Patton as I approached the intersection. This practice is not only illegal and discourteous, but also shows your total disregard for the safety of others.

I feel that Provost Marshal personnel should monitor this dangerous situation and cite the offenders.

William R. Barksdale

Likes the flowers

Editor:

I would like to express my appreciation to the people who planned, planted and care for the plants and flowers around building 5250. I have also really enjoyed the wildflower (test) beds. Thanks to those of you responsible for these day-brighteners!

Cathy Gant

Sign your letter

Letters will not be considered for publication in the *Redstone Rocket* unless they are signed and contain an address or phone number for the writer. Names are withheld on request but unsigned letters will not be used. Send letters to: *Redstone Rocket*, AMSMI-IN.

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KIOWA WARRIOR — This OH-58D "Kiowa Warrior" is armed with Hellfire missiles.

Redstone site for celebration of Guam Liberation Day

BY SKIP VAUGHN

Native Guamanians and their families will get together at Redstone Arsenal Saturday to celebrate the 47th anniversary of the liberation of Guam.

This marks the first time the local Guamanian community will conduct the celebration; in past years, these families have had to travel to other southern locations. July 21 is Liberation Day, a national holiday in Guam to commemorate the liberation of this North Pacific island from Japanese occupation in 1944.

The Guam Liberation Day committee in Huntsville plans to hold the local celebration at noon Saturday in the Vincent Park recreation area. In the event of bad weather, the festivities would be held in the Recreation Center, building 3711. The celebration committee is led by Al Corbin, a retired warrant officer, and his wife, Tita.

Those expected to attend include Guamanian families from the local area, Fort McClellan and Aniston; Nashville; Fort Gordon and Fort Benning in Georgia; Fort Campbell, Ky.; and possibly people from the Washington, D.C., area. Last year families traveled to Fort Campbell to celebrate Liberation Day.

"We expect quite a large gathering," said Frank Chargualaf, a local resident and native Guamanian. "It's going to be a gathering of probably 100 to 200 people, maybe more."

The picnic will feature Guamanian-style food. The local Guamanian community includes a number of military retirees, such as Corbin and Chargualaf, plus current servicemembers and others. Chargualaf says at least 15 local families include native Guamanians. "Several of the retirees have sons in the military who are now on active duty and will be coming to join this celebration," he said.

This free event is "like a family reunion," according to Chargualaf. He was born in Agana and raised in Barrigada, Guam. His uncle Guerrero, a former governor of Guam, appointed him as "ambassador-at-large for Guam." Chargualaf served 22 years in the U.S. Army, retiring as a first sergeant in 1976 at Redstone. He is a major in the Alabama State Defense Force. He works for Weiser Security Services Inc., a New Orleans based company, as operations manager at the Huntsville branch office. Chargualaf and his wife, Doris, a Tennessee native, have two sons, Danny, 32, Ronnie, 30; a daughter, Shannon, 19; and six grandchildren.

At 53, he has not been back to his native homeland since 1974. Liberation Day is celebrated there each year with parades and other festivities. "This is similar to your Fourth of July here," Chargualaf said. Spanish explorer Ferdinand Magellan discovered Guam for the western world in 1521, and the island was claimed for Spain in 1565 by Miguel Lopez de Legaspi. After the Spanish American War, Guam passed into American hands and was run as a U.S. naval station. Guam was surrendered to a Japanese invasion force in 1941, and the U.S. military liberated the island in 1944. U.S. Marines invaded Guam on July 21, 1944, and the Japanese surrendered on Aug. 10. Thus began the tradition of celebrating Guam's Liberation Day each year on July 21. The local celebration is being held on a Saturday to better accommodate people traveling here from other places.

"It (Liberation Day) is a national holiday for the Guamanians which means a lot for the Guamanians who lived through the Second World War, and I'm one of those people. And this is why Guamanians are so loyal to the United States. We don't forget that, you see," Chargualaf said.



CHARGUALAF

These 'medals' represent data base

The Defense Logistics Services Center introduced the Military Engineering Data Assets Locator System (MEDALS) to its customers in October 1988. Since then, the center has improved the system.

MEDALS is a data base which houses technical data asset information. A data asset is a blueprint, specification, or technical drawing found in a data repository. No security service drawings, nuclear weapons or communications equipment are in MEDALS.

MEDALS identifies the repository location of a data asset. There are now 24 Defense Department repositories. They are the Defense Logistics Agency (DLA) Supply Centers, Army, Navy, Air Force and Marine Corps. It is a good system to use when developing or preparing technical data packages. MEDALS helps in researching procurement of spare parts, design control, system maintenance, provisioning, cataloging and value engineering. This system helps to cut storage costs and prevent duplicate purchases of engineering data.

This is a stand-alone system, interfacing with other automated data processing systems. The MEDALS uses the DLANET and DDN network. Using this system saves valuable hours in the procurement/inventory management areas. As of this writing the data base has 13.5 million data assets. Officials expect it will eventually have more than 30 million data assets.

Authorization for accessing MEDALS requires approval of the headquarters of a service/defense agency or Defense Logistics Agency. After authorization approval, the customer receives a user-code/password assignment not a specific terminal. If you are a LOGRUN user and want access to MEDALS, contact DLSC-JCB by telephone at Autovon 932-4754 or FTS 552-4754; electronic mail address: dlsc-jcb@dlsc.dla.mil; or fax machine, (616) 961-4725. If you do not have access to the DLSC remote terminal system (LOGRUN) and you want MEDALS, contact your service or agency focal point. (Adapted from Defense Logistics Agency release)

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Annual family picnic promises fun-filled September day

BY JANET PEA

The 1991 Redstone Arsenal Community Family Picnic is sponsored by the Research, Development and Engineering Center; and the committee members are hard at work planning for a great day of fun! There will be plenty to see and do for the entire family.

This year's picnic will be Saturday, Sept. 7 — rain date is Sept. 14 — at the Civilian Recreation Area. A full day of music and recreation will be held from 10 a.m. to 4 p.m.

Admission is free and tickets for a free lunch will be given out as you arrive at the picnic. The meal includes one hot dog and/or hamburger, chips, and drinks.

All activities are free with the exception of bingo. There is a 50 cents fee per card, and prizes will be awarded for all games. Bingo games will begin at 10:30 and will be completed by 3:30. The grand prize, a television set, will be played for at 2.

There will be many children's activities — such as sea-of-balls, moon bounce, face painting, make-a-visor, a train ride, clowns, bubble art, and lots of carnival games where prizes and ribbons will be awarded.

Some of the activities planned for teens include a motorcycle trick-riding show, a rap group, a Christian Rock band, putt-putt, wheel-of-fortune, drawings for a personal cassette stereo, and contests in basketball toss, darts, waterballoon toss, and hula hoop. Prizes will also be awarded for these activities.

There are lots of activities for all ages. We have the dunking booth for our selected Redstone Arsenal celebrities. Door prizes will be given away in the afternoon with the grand prize drawing at 3:30.

Scheduled entertainment will be offered all day. There will be music by the Huntsville Concert Band, a Country Band, a Christian Rock band ("Straight Street"), and a Spanish band ("Moonlighters"). Other performers include a magician, karate show,

water ski show, trick motorcycle riding show, cloggers, and rap performers. This is a great variety of entertainment for everyone in the family to enjoy!

There will also be displays and exhibits of major weapon systems.

Sports finals will be played the day of the picnic. Playoff games in softball and volleyball will be played nightly Tuesday through Friday, so the teams will be out for blood come Saturday.

For those of you who wish to take home a souvenir of your fun-filled day, T-shirts and visors will be available for purchase at cost.

A big crowd is expected on picnic day. Lots of activities are being planned for the entire family, so save the date Sept. 7 as a time for the whole family to come and join in on the fun!

(Editor's note: Pea is publicity chairman for this year's picnic.)



PICNIC COMMITTEE CHAIRMEN — Ken Allen, software configuration manager at the Software Engineering Directorate, is chairman of this year's Redstone Family Picnic. Standing behind him, from left, are committee chairmen Tommy Harris, George Sanders, Janet Pea, Angela Matthews, Martha Maddox, Norma Lee, Barbara Jernigan, Susan Teir and Gerald Russell.

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MICOM pair lives to tell about California quake

BY SKIP VAUGHN

Two Missile Command workers were literally on shaky ground during their business trip to California in June.

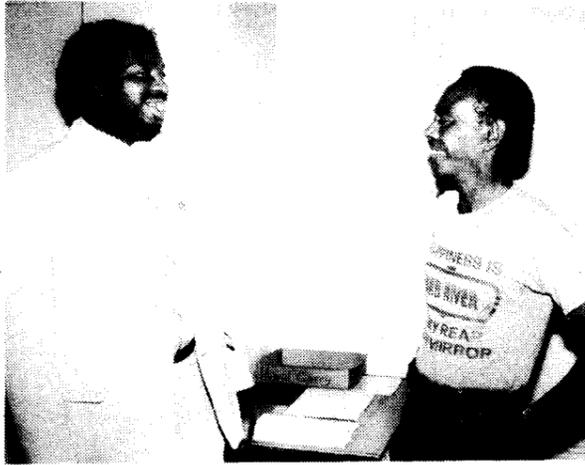
Robert Anderson Jr., a packaging specialist, and Willie Readus, a traffic management specialist, experienced an earthquake which killed two people and injured more than 100. It happened the morning of June 28, their final day there in support of a foreign military sales case involving Japanese co-produced Hawk equipment.

Anderson works in the packaging branch and Readus works in the transportation branch in the distribution and transportation division of Materiel Management Directorate, Missile Logistics Center. They left for California June 19 to coordinate the movement of Japanese equipment for training from the San Pedro (Calif.) Port to Fort Bliss, Texas.

When the quake occurred at 7:44 a.m. (California time) June 28, they were on the second floor at the Military Traffic Management Command, a two-story building in Compton in Southern California. "We were coordinating last movements of equipment because that was supposed to be the final day to get all trucks in to move this last load of equipment," Anderson said. All of a sudden, the building started shaking and he couldn't keep his balance, he recalls.

"Willie was out there talking with someone else. I was talking to the master sergeant (from Fort Bliss), and I couldn't keep my balance. I hit for the outside; I ran for the outside," Anderson said. "That's the first experience I've had with that type of thing."

Readus was similarly shaken up by the incident. He had just gotten off the phone with the Missile Command and had gone to another office to talk with someone when "the building started swaying," Readus recalls. "It started to rumble. And it just scared the life out of me. It was scary. The whole building shook. The quake lasted 18 seconds; the drapes rocked another 45 seconds; and I rocked for an hour. It was a bad experience."



BACK HOME — Readus, left, and Anderson are back on the job at Redstone after their frightening experience during a temporary duty trip to Southern California.

He can laugh now about how fast the terrified Anderson ran out the door. "They told me the quake shook for 18 seconds and it took Robert one second to get out the door," Readus said.

Both men recall that the experienced Southern Californians seemed to remain calm while they, native Southerners, panicked. "I did have to take a nitro pill because I was seriously scared out of my wits," Readus said.

"It's scary," Anderson said. "It's not an exaggeration. It's just really scary because you don't know what's going to open up or if something's going to fall on top your head."

Readus, 41, a native Huntsvillian, spent four years on active duty in the Marine Corps including two years in Vietnam. "I've been afraid in Vietnam, but that was a different kind of fear," he said. Upon leaving active duty in 1970, he spent five years in the Marine Corps Reserves. He began his civilian service at Redstone in

1978, and has been working in transportation branch since 1981. He and his wife, Jo Anne, have five children ranging in age from 25 to 9 and four grandchildren.

Anderson, 53, a New Orleans native, served 27 years in the Army, retiring in 1981 as a sergeant first class. His civilian career began here in January 1983 as a taxi driver. He was an item manager before becoming a packaging specialist three years ago. He is a single parent of a 9-year-old son, Robert III, and 17-year-old daughter, Trina. Like Readus he too is a Vietnam veteran, having served two tours there.

"That trip shook me up more than the trips to 'Nam, honest it did," Anderson said.

"I want to thank God that I made it through safely and that no more people died than they did," Readus said. "And I hope that I won't ever have to be caught in another (earthquake)."

Federal employees' group has office in Huntsville

The Federal Employee Association is a non-profit organization for federal workers.

FEA says membership benefits include the following: articles written by government officials, leading businessmen and association members; the *National Eagle* newspaper; real estate program; discount auto purchases; hotel and motel discounts; discount on car rental; eye wear discount; a travel program; scholarship program; savings on prescription drugs and vitamins; investment protection; and an endorsed insurance program.

"It is through strength and unity that we can make a difference," states George Callaway, FEA president, in an open letter to prospective members.

The association is based in San Antonio, Texas. It has a local service center at 303 Williams Ave., suite 312 in Huntsville. For more information call Bill Holland, an authorized FEA counselor, at 551-7756.

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Program reaches out to military families in need

Editor's note: Army Community Service will celebrate its 26th birthday July 25. ACS provided the following information as part of a series of articles about its programs.

The Outreach Program at Army Community Service was initiated to help soldiers and family members develop a sense of self-reliance and belonging in the military community, to assist spouses in adjusting to Army life and to increase family satisfaction with the military lifestyle.

Outreach Program Manager Virginia Dempsey targets those families who have the greatest level of need, but are the least likely to seek out and take advantage of services until they have reached a state of crisis.

"Through the Outreach Program, I assist soldiers and families in making the best possible use of all services and resources available to them," Dempsey said.

She is especially interested in working with the first-

time soldiers and their families, the single-parent families and families who are geographically or socially isolated. Through the Family Support Group, she can reach the spouses of soldiers on unaccompanied tours or extended temporary duty.

Dempsey furnishes the family with information about the services available to them in both the military and civilian community, assists them in developing a plan of action that will meet their needs and provides support as they resolve their problems.

There are many education and prevention programs as well as support networks and services which are available. However, many families never have the opportunity to learn about these resources and how they can be used. Dempsey is a link between the family and the organizations to bring the two together.

Other duties of the Outreach Program include distributing and tabulating the yearly Family Symposium survey forms. It is important for the communi-

ty to know that each survey form they complete offers an issue and a solution to be presented to the delegates at the symposium.

"These issues let the command know what the problems are and how the community would like to see the situation resolved," Dempsey said.

Through briefings and desk side visits, the Outreach Program manager draws together commanders, first sergeants, agencies and individuals with ideas and interests in improving the quality of life of soldiers and family members. These discussions provide the program manager with suggestions to identify community or unit needs which encourages the development of needed services not already available.

"From the commanders and agencies' staff, I learn what new programs need to be expanded or developed to meet the needs of our community. This vital interaction provides the focus and direction of my program," Dempsey said.

Total Tots Program pays for emergency child care

From time to time, military families find themselves in a crisis where they suddenly need child care, but they cannot afford to pay for it.

In the past, neighbors, family or someone from the unit would lend a helping hand. Today, it is not so easy to find that kind of help, but the Total Tots Program (TTP) can assist the military family.

"Our function is to serve the community as a safety net for those children and families whose lives have been unexpectedly disrupted by medical emergency, conflicts with duty and other circumstances that sometimes occur in a military lifestyle," said Virginia Dempsey, TTP coordinator. "As a volunteer agency which derives our funding from community goodwill, we can respond immediately and craft a solution to the family's child care problem that is in the best interest of the children and the parents."

Military families are often stationed away from relatives and close friends or get reassigned so when a family needs help, there is no one there to ask. More and more women are working full or part time and

"... We can respond immediately and craft a solution to the family's child care problem that is in the best interest of the children and the parents."

cannot provide the community volunteer services that they did in the past.

In an emergency, the parent of the small child is often faced with two problems: where to find quality child care quickly and how to pay for it when there is no money.

When faced with this situation, call Dempsey at 876-5397 between 7:30 a.m. and 4:30 p.m. Monday through Friday. She is located at Army Community

Service, building 3491. Commanders, leaders and agency representatives are encouraged to refer cases at the earliest possible moment. Total Tots Program services are available after duty hours through the Ordnance Missile and Munitions Center and School staff duty officer, and through the Family Crisis Hotline at 876-8000.

The program was developed in 1986 at Redstone to meet the emergency child care needs caused by these realities of modern military life. The idea behind TTP is to provide immediate and direct assistance to families in crisis.

Many times, soldiers and their dependents may not be eligible for assistance from other support agencies. These people comprise the TTP committee's target population, Dempsey said. Over the past five years,

(See Tots, cont'd on page 13)

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Oak Reproductions



AERONAUTICS/ASTRONAUTICS GROUP — Steve Hollich, left, of Marshall Space Flight Center materials and processes laboratory, has been installed as chairman of the Alabama-Mississippi Section of the American Institute of Aeronautics and Astronautics. With him is Frank Klatt, distinguished AIAA lecturer, at the latest meeting of the AL-MS Section. Klatt spoke on "The History and Future of America's Launch Vehicles."



DENTAC RECOGNITION — Col. James D'Anna, commander of Dental Activity, presents the DENTAC Civilian of the Quarter award to Walter Manasco, X-ray technician for the Main Dental Clinic. Manasco received a plaque and cash award.

Troop softball

Here are the troop softball standings as of July 12:

Conference	W	L
Eastern Conference		
NCOA	7	2
F Company 832nd	6	2
HHC C&S	4	4
Navy	4	5
C Company 832nd	4	5
HHC MICOM	3	6
MEDDAC	0	9
Western Conference		
515th	9	1
HHC 832nd	6	3
D Company 832nd	6	5
95th	4	4
Marines	4	5
E Company 832nd	3	6
HHC MICOM (Airfield)	2	5

Soldier's daughter joining Reserves

Diane Crisostomo, daughter of Sgt. Maj. and Mrs. Antonio Crisostomo of Redstone Arsenal, has joined the Army Reserve and will receive training as a technical drafting specialist.

A graduate of Butler High School, she will join the 926th Engineers Combat Battalion (Headquarters) in Huntsville.

Crisostomo was assisted in choosing her enlistment options by SFC Danny Golden of the U.S. Army Recruiting Station at 2519 North Memorial Parkway (telephone 539-7431).

The 19-year-old will report for basic training in July at Fort Jackson, S.C., and will proceed to Fort Leonard Wood, Mo., for advanced training. She has qualified for a \$10,000 Student Loan Repayment and the \$5,040 Reserve GI Bill.

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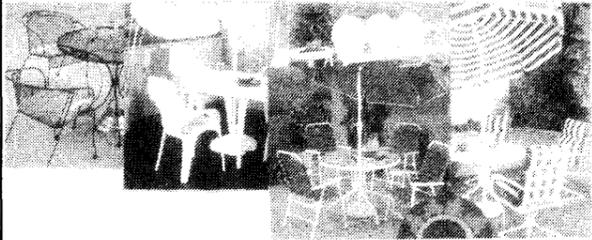
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Saves

(Cont'd from page 1)

proves such exceptions for contracts ranging from \$100,000 to \$1 million. The Head of the Contracting Activity — the commanding general or his deputy for procurement and readiness — approves exceptions for \$1-10 million. And the Army's Acquisition Executive approves exceptions for contracts of more than \$10 million.

The Competition Management Office here consists of Howard and nine civilians including logistics analysts, procurement analysts and management analysts. Ongoing programs include reviewing major acquisition plans to assure that competition is considered early in the process. Program managers and others who want to make purchases are also asked to do a market survey. The competition management office reviews justifications and approvals for major items and repair parts. The office recommends items for Defense Federal Acquisition Regulation Supplement screening where information delivered by the previous contractor is reviewed to see if it can be used in a competitive procurement.

Reverse engineering is a program in which a potential contractor takes a partially complete package of specifications and makes a prototype of the needed item; the resulting complete package is then open for competitive bidding between that company and others, and a contract is awarded. The Department of Defense has done reverse engineering on a trial basis, and says each dollar spent on this initiative results in \$18 of sav-

ings. "That's one of the programs we want to work harder here at the Missile Command," Howard said. Another ongoing program is component breakout within major systems; in this, managers determine which major parts of their weapon system can be opened to competition without sacrificing readiness of the system itself. Also, the competition management office publishes periodically a newsletter for the MICOM community with information and recommendations on ways to improve the competitive procurement process.

Typically, opening spare parts to competition results in average savings of 25 percent. "It just depends on the item. Rule of thumb is 25 percent but it (the savings) could be considerably greater. What this will do is create more money within the budget for other defense needs," Howard said.

In one case this fiscal year, Stinger Project Office reported savings of \$5.1 million by applying competition to its standard vehicle mounted launcher assembly. The old unit price was \$96,002 for 96 items, a total bill of \$11,520,196. Through competition, the new cost is \$42,734 for 96 items, a total of \$4,102,464 and savings of \$5,113,728.

In another case, TOW Project Office reported savings of \$55,616 by applying competition to missile overpacks for ground TOW. The previous sole source, Milan Box, had a unit price of \$27.98. When the item was opened to competition, Milan Box won the bidding but dropped its price to \$25.50. "The same guy

got it back but lowered the price as a result of competition," said David Mellberg, a procurement analyst in the Competition Management Office.

Benefits of competition include "we don't get locked into one manufacturer and are dictated by him as to what he'll charge and what he'll deliver," Mellberg said. "Plus you expand the industrial base and you develop other people with the capability."

"Competition makes us all smarter managers," said Shelley Muhammad, a logistics analyst in the Competition Management Office. "We're here to save taxpayers' dollars — my money, your money — and competition does that."

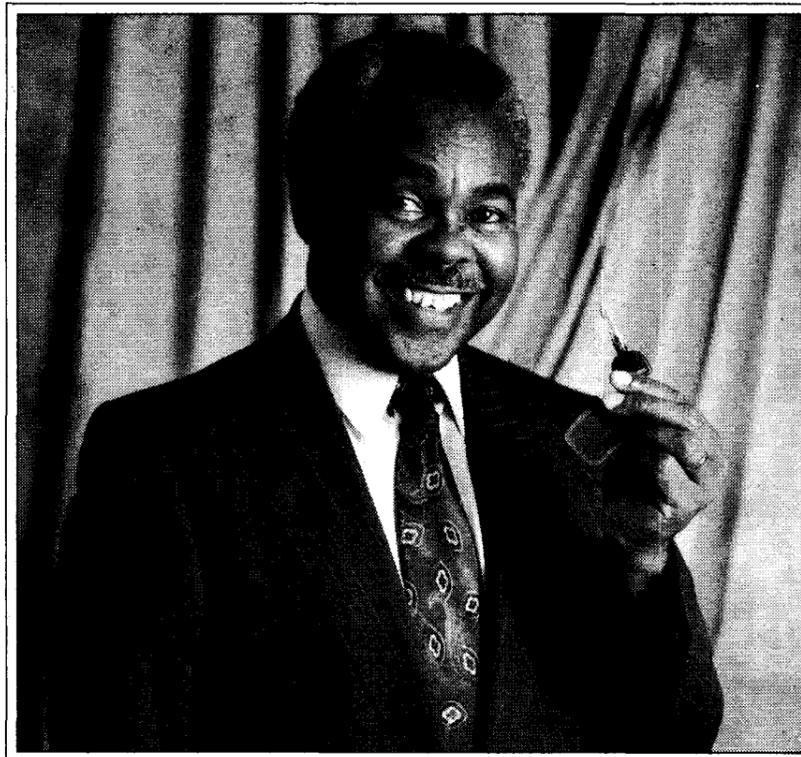
Coed softball

Here are the standings for the Civilian Welfare Coed Softball League as of July 11:

Team	W	L
DCD	8	2
SDC	6	4
MSIC	5	4
Procurement	4	4
F&A	3	6
OMMCS	2	8



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Logistics deputy director came up through ranks

BY SANDA MARTEL

The Missile Logistics Center's deputy director has been on the job for about three months, but he's no stranger to the logistics business. His entire 16-year career has been spent at various jobs within Missile Command and Program Executive Office logistics organizations.

"I've had the opportunity to do lots of different things, and I'm trying to encourage other MLC employees to do likewise — not to have tunnel vision. Here, we want to grow logisticians, not label one person 'supply,' another 'cataloguer' or 'inventory management,'" said John Chapman, who has been the deputy director since April.

He had his baptism in Army logistics by immersion in the DARCOM intern program, beginning in 1975. He completed nine months training at Red River Army Depot, Texarkana, Texas, among the top in his class and received his first location choice — Huntsville, Ala. Born in Port Arthur, Texas, his parents moved to Atlanta in 1966, where Chapman graduated from high school in 1967.

Drafted into the Army in 1969, Chapman was halfway into a year's tour in Vietnam, serving with the 101st Airborne Division, when his helicopter was shot down. He suffered second and third degree burns in a crash that killed three of an eight-man team.

Chapman spent the next six months in Army hospitals in Japan and Fort Sam Houston, Texas, recovering from his wounds and undergoing rehabilitation. After release from the Army in November 1971, he returned home to Atlanta to enroll at Georgia State University. He graduated in March 1975 with a bachelor's degree in business administration.

His plans were to follow his father's footsteps in the airline industry. In 1975, however, the airlines weren't hiring so his father-in-law, a civil servant, convinced him he should investigate the possibility of federal employment.

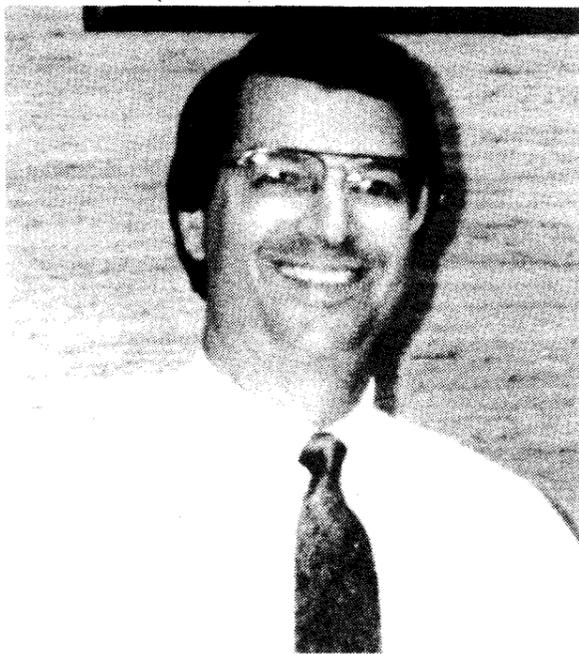
"My first interview was with the Internal Revenue

Service for a position as collector. They asked me how I felt about being shot at, and I told them I had had my fill of that in Vietnam. I thanked them for the interview and left," Chapman said.

He found out about the DARCOM (now Army Materiel Command) supply management intern program, which has its regional office in Atlanta, and was hired as a government employee in March 1975.

From 1975-83, Chapman advanced through positions in the MLC's Materiel Management Directorate as a supply management assistant, supervisory systems analyst, supervisory inventory management representative, supply systems analyst and inventory management specialist.

He was a logistics management specialist in the



CHAPMAN

Patriot Project Office, PEO Air Defense, from October 1983 to April 1985, and returned to Materiel Management Directorate where he was chief for air defense systems until October 1988.

His next job was Logistics Division chief in the Non-Line of Sight Project Office, PEO Air Defense, before reassignment back to MLC as inventory management officer in September 1990. He was selected deputy director last April.

He said one of the most important responsibilities he has in his new job is making sure people are given the opportunity to grow and advance in their jobs.

"People are our most important resource. In the future, we know we're going to have cuts in the force structure, and we have hiring freezes year after year. So we have to make sure we do with what we've got," Chapman said.

"We have to invest in the present for the future," he said, giving the Logistics University operating in the MLC now as an example of investing in people. LogU is the program that allows logistics employees to earn college credit in classes conducted on post by three local colleges. The government pays for the classes.

The GM-15 deputy director's wife, Brenda, is a native of Alexander City. Their 15-year-old daughter, Michele, will be a junior at Grissom High this fall.

Chapman enjoys golf and working with children. He volunteers his time as softball coach through the Huntsville Parks and Recreation Department. He is coaching his daughter's team this year, and they are undefeated thus far and presently competing for the district championship.

"All the practice and games takes a lot of my time, but it's worth it," Chapman said.

And time is one thing at a premium in Chapman's life now, he said.

"The time demands of the job are heavy," but Chapman said he's quite happy to be where he is.

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<p>'90 Ford Mustang LX 2 door, light blue, automatic, air, power door locks, cruise, tape, luggage rack, Unit 504-8, 26,953 miles. \$8,499.</p>	<p>'91 Buick LeSabre 4 door, maroon, automatic, air, power windows, power door locks, tilt & cruise, tape, V-6, wire wheels, Unit 783-1, 21,455 miles. \$13,999</p>	<p>'89 Pontiac Grand Am LE 4 door, silver, automatic, am/fm, tilt & cruise, quad 4, Unit 1352-4, 25,791 miles. \$6,999.</p>
<p>'90 Nissan Sentra XE 4 door, red, automatic, air, tilt, am/fm, Unit 1561-0, 22,850 miles. \$7,599.</p>	<p>'91 Oldsmobile Delta 88 4 door, white, automatic, air, power windows, power door locks, tilt & cruise, power steering, tape, V-6, Unit 812-8, 72,240 miles. \$13,999</p>	<p>'89 Oldsmobile Ciera 4 door, silver, automatic, air, tilt & cruise, am/fm, Unit 1298-9, 12,769 miles. \$8,399.</p>
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Missile Logistics Center's 10th anniversary

BY SANDA MARTEL

The July sun was torrid, the air sultry. Musicians and dancers entertained, cameras flashed, old acquaintances were renewed. The hot dog and cold drink line moved at a snail's pace while the noon crowd jockeyed for scarce shade.

It could have been a summer family reunion of the Joneses, or the Smiths in Anytown U.S.A. But it was the Missile Logistics Center celebrating its first decade as an element in the Missile Command at Redstone Arsenal.

It opened at 9 a.m. July 9 with missile hardware displays and the jazz sound of the 313th Army Reserve Band from Birmingham. The opening ceremony featured laudatory remarks from the present director Jim Flinn, former director Jack Isom and former acting directors Col. Maury Jones, now retired, and Col. Jim Link.

Flinn welcomed the retirees present and commended them for setting the stage to make the MLC what it is today — a shining example of logistics excellence in the Army Materiel Command.

Twenty-two soldiers and civilians who deployed in support of Operation Desert Storm were recognized and given certificates and T-shirts in appreciation of their service to country.

Some 800 invitations were sent to former MLC employees and all workers' families were invited. Work displays in building 5681 illustrated the type work employees perform in the MLC.

Numerous hours went into making the day a success and the following people contributed their talents:

Program, publicity and invitations: Jim Wasson, Rod Johnson, Bonnie Stewart, Dena King and Tech Analysis.

Refreshments: Pat Kapolis and MED. Flag cake design by Joyce Brown, Creative Cake Decorating.

Arts and craft display: Marilyn Bolyard and Log Data Management.

Entertainment: Mary Alice Fisher and Materiel Programming and Budgeting Division, MMD.

Building 5681 decorations: Automation display — MICOM CAL office and MMD; hall displays — designer Mike Boecking, Tech Pubs Division, MED, coordinator — Debbie Ayers, Policy and Resource Management Office; special thanks to each directorate for

board displays; special thanks to Gay Money and Jimmie Self; cafeteria — Sheila Norckauer and group from Land Combat Division, MMD; outside of building — Brenda King, MMD and Joe Brown, MED; facilities — Louie Price, MMD and Jimmie Dean, MED; fire truck/first aid/Uncle Sam — Jackie Moncrief, Air Defense Division, MMD; T-shirts — Brenda King, MMD.

Building 5678: Ron Walton and D&T group; Patsy Parvin and log data management group.

Building 5687: Margot Sheaffer and Air Defense and Land Combat divisions for overall beautification; Ralph Smith for north end project.

Building 7612: Land Combat Division, MED.

Special thanks to Col. Edmondson and Ann Corum for making sure it all happened.



LUNCH TIME — Hungry celebrants line up for refreshments, where for \$1 a hot dog, soft drink and chips could be had.



PATRIOTIC CAKE — Ernie Young, left, Nancy Flinn, Jim Flinn, Brenda Capps, Brig. Gen. Larry Capps, Brenda Chapman and John Chapman pose behind flag cake in building 5681 cafeteria.

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SHADY SPOT — These lucky MOP Shop employees found a spot for lunch. Clockwise from foreground are Joe Gregory, Roger Grider, Robert Durham, Doc Price and Sarah Gregory. Joe Gregory is the son of Sarah Gregory.



A DAY FOR FAMILIES — Barbara Stone, 4, and BobbieSue, 6, granddaughters of MLC employee Corrine Stone, pose with grandpa Lindon Stone, an employee of Marshall Space Flight Center.



TARGET, AIM, FIRE! — Jason Carter of Hazel Green gets a TOW gunner eye-view. He is the son of Pat Carter, an MLC employee.

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84.99 each with coupon & trade-in #8649,8654-R-4
25% OFF all other #'s in normal stock
 Coupon good through July 21, 1991
 Limit one coupon per household
 Salesclerk: handle as price mod-Ad coupon #3
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89¢ each qt with coupon
 Coupon good through July 21, 1991
 Limit one coupon per household
 Salesclerk: handle as price mod-Ad coupon #4
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LIMIT 12

PRO-GARD FUEL INJECTOR CLEANER
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LIMIT 6
 Coupon good through July 21, 1991
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LIMIT 2
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 Coupon good through July 21, 1991
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 Salesclerk: handle as single item discount
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KIT CAR WAX
 #2662-pasta
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2.49 each with coupon
 Coupon good through July 21, 1991
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 Salesclerk: handle as price mod-Ad coupon #4
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SIMPLE GREEN
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MAKE-A-WY FOUNDATION DONATION CENTER

Center honors its Total Quality Management instructors

Last fall the Missile Logistics Center began what its director called a long journey toward total quality management. The MLC thanked some of its people Friday for their efforts in training their fellow workers on this new way of doing business.

Ten instructors are credited with conducting 696 classes for more than 1,300 people from October through April. The subject of those phase one classes was Total Quality Management which means better understanding current processes and streamlining those processes.

"The result was absolute unequivocal total

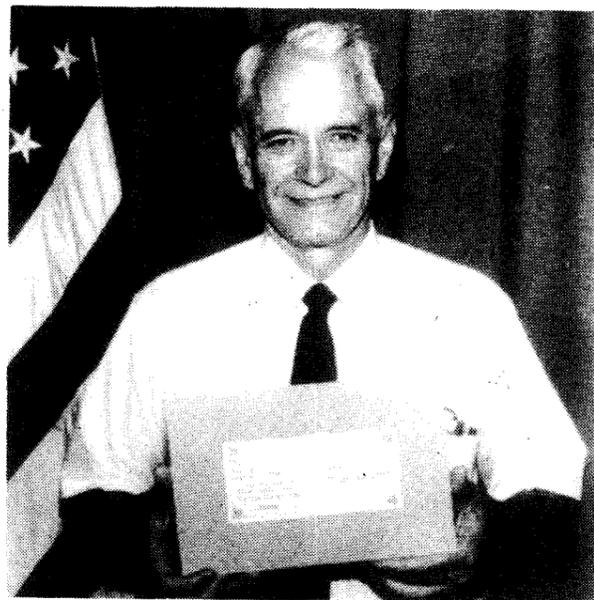
success," said Jim Flinn, MLC director, in discussing the work of the phase one instructors.

Each instructor received a plaque and a packet which included a \$250 on-the-spot award, a certificate, and a special \$1,500 check to be used for training of the recipient's choice. The check for training is a unique idea, according to Charles Hancock, one of the recipients. "This is an investment in that individual which will pay dividends back to the organization, which is really great," he said.

Hancock serves as TQM executive officer for the Missile Logistics Center, along with Gloria Brown.



TQM INSTRUCTORS — Phase one Total Quality Management instructors at the Missile Logistics Center include, from left, Dave Michaels, Gwyn Bredeson, Peggy Harper, Barbara Karbens, Darla Andersen, Jeanette Dean, Carolyn Hubbard, Jim Clements and Rey Edmondson.



TRAINING INVESTMENT — Hancock shows the \$1,500 check he received to be used for the training of his choice.



PROGRAM OFFICERS — Brown and Hancock, the TQM executive officers for Missile Logistics Center, talk after Friday's awards ceremony.

Tots

(Cont'd from page 6)

172 families have been helped with emergency child care expenses.

Some examples of situations that required TTP assistance include an Advanced Individual Training student whose spouse is hospitalized and the children need day care while the soldier attends class. A single soldier is hospitalized and 24-hour child care is provided for the children until a family member arrives to help. A couple wishes to attend counseling or a parenting class, but cannot afford the child care. Total Tots Program helps so the family can improve their situation.

Members of the advisory committee include Blanche Moore, NCO Wives Club; Ann Patterson, Officers Wives Club; Nancy Birdsong, American Red Cross; Chaplain (Capt.) Donal Sheahan, Office of the Chaplain; Lucy Burdine, Community Mental Health; Shirley Mohler, Child Development Services; Dan Kelly, Consumer Affairs and Financial Assistance Program at Army Community Service; and Dempsey, Total Tots Program coordinator, ACS.

The TTP is able to provide services due to the generosity of its sponsors, the Redstone Arsenal Catholic and Protestant congregations, the NCO Wives Club, the Officers Wives Club, the Thrift Shop and individual donations. The program is funded entirely by donations from the community. All monies are used to provide child care. There are no administrative costs.

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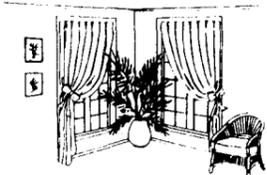
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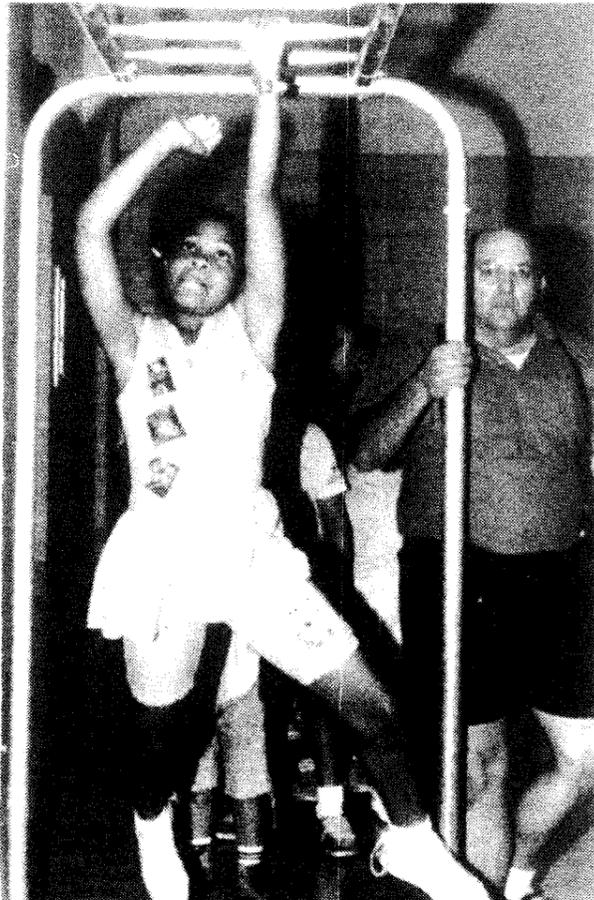
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Program puts youngsters on road to physical fitness

BY PAM ROGERS

Many of Redstone's military kids are finding out what it means to be in good physical condition through their participation in the Youth Center's summer fitness program.

The program meets three times a week in the Youth Center gym for an hour session of exercise. There's still time for military children ages 6-12 to join and perhaps pass either the President's, Governor's, or Lieutenant Governor's Fitness Tests.



GETTING FIT — Elizah Pollard, daughter of Michael and Dorinda Pleasure, concentrates on her exercises as Gordon Keene looks on.

Youth Sports Director Gordon Keene is running the program, and believes the children who are participating are having so much fun, they may not realize until they've finished the 10-week program how much they have accomplished.

The fitness tests will include a prescribed number of situps and pullups, along with V-sit stretching and running. If a child passes one of the tests, he or she will receive a certificate.

Additionally, incentives will be awarded for attendance. A child who logs perfect attendance will receive a T-shirt and a patch. Those who attend 20 or more days will receive T-shirts, and those who come 10-19 days will get patches.

Money for the T-shirts and patches was donated by the Officers Wives Club.

For more information about the program, call Keene at 876-2255.

Thiokol-1 rallies to defeat USAIC

BY MARK SIMS

Here are some scores and highlights for the week that was from the Civilian Welfare Softball League.

Greg Edmunds went three for four, including an inside-the-park home run, to pace Thiokol-1 team past USAIC 19-11. In the bottom of the second inning USAIC's lead had ballooned to 10 runs, aided by Mike Malone's bases-clearing triple. But Thiokol-1 rallied to tie the game in the fifth, then iced the victory with eight runs in the seventh.

Jeff Toney's two-run monster blast sparked a seven-run first inning as the Scud Patrol coasted 20 to 5 over PAD.

Barry Price had a single, triple and home run to help TSPO Threats hang on to a 12-10 win over Smith AT.

The Hawaiianoids squeaked by PAD 9-8. PAD had rallied with three runs in the bottom of the seventh to pull within one run of tying the ballgame with one out and bases loaded.

Thiokol-2 team erupted for seven runs in the first inning and went on to defeat Telos 24-9.

The saga of the home-run limit continues. The limit is now six home runs per team per game. Each home hit after the limit is reached is counted as a single.

Here are the standings as of July 12:

A Division	W	L	Pct.	GB
Hawaiianoids	2	0	1.000	—
MLC Lasers	1	1	.500	1
RADS	1	1	.500	1
Scud Patrol	1	1	.500	1
Smith Adv. Tech.	1	1	.500	1
TSPO Threats	1	1	.500	1
PAD	0	2	.000	2

B Division	W	L	Pct.	GB
Major League	2	0	1.000	—
Thiokol-1	2	0	1.000	—
Thiokol-2	2	0	1.000	—
USAISC Storms	1	1	.500	1
Aeroheads	0	2	.000	2
Telos	0	2	.000	2
TMDE	0	2	.000	2

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10:30 Servicio

Miercoles: 7:00 PM Estudio Biblico

ARRAL Industries receives award

ARRAL Industries Inc., a major supplier of military equipment for the Stinger missile system, has received an Army Materiel Command Certificate of Recognition for its support to Operation Desert Storm.

The award was presented June 26 at a ceremony in Ontario, Calif. Louis Arranaga, president of ARRAL, accepted the award from Maj. Gen. William Chen, commander of the Missile Command, for his com-

pany's cooperation and support during the Persian Gulf War. Of the more than 300 companies nationwide considered for this honor by the Missile Command, ARRAL was one of 19 chosen to receive it.

ARRAL Industries Inc. is a minority-owned small business in Ontario, Calif., with a regional office in Huntsville. The company specializes in the manufacture of high-pressure cryogenic systems and ground support equipment for tactical missile systems. (Adapted from ARRAL news release)

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DECEMBER
1991

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Course Title & Course No.	Dates	Days	Time	Fee
SCIENCE & ENGINEERING				
• Digital Signal Processing Workshop: From Theory to Practice PD3147-01	Sept 9-13	Mon-Fri	8 a.m.-5 p.m.	\$1695 *
• Remote Sensing of Severe Storms and Their Environment PD3148-01	Sept 10-Oct 10	Tues & Thurs	6:30-8:30 p.m.	\$ 525 *▲
• Effects of Radiation on Electronic Systems PD3128-02	Sept 16-20	Mon-Fri	8 a.m.-5 p.m.	\$1295 *
• Numerical Optimization Workshop: Applied to Structural & Mechanical Design PD3135-02	Sept 23-26	Mon-Thurs	8:30 a.m.-4:30 p.m.	\$ 895 *
• EMI Control Techniques in Electrical/Electronic Systems PD3120-02	Sept 30-Oct 4	Mon-Fri	8 a.m.-5 p.m.	\$1095 *
• How to Plan, Estimate & Schedule Maintenance PD3137-02	Dec 4 & 5	Wed & Thurs	8 a.m.-5 p.m.	\$ 615 *
NONDESTRUCTIVE TESTING SERIES				
• Magnetic Particle Inspection Level I-II PD3132-02	Oct 23-25	Wed-Fri	8 a.m.-5 p.m.	\$ 775
• Liquid Penetrant Level I-II PD3131-02	Oct 28-30	Mon-Wed	8 a.m.-5 p.m.	\$ 775
• Visual Weld Inspection PD3149-01	Dec 2-6	Mon-Fri	8 a.m.-5 p.m.	\$ 850
• Radiography-Film Interpretation PD3133-02	Dec 9-13	Mon-Fri	8 a.m.-5 p.m.	\$ 850
MANAGEMENT DEVELOPMENT				
CAREER SKILL BUILDERS				
• Giving & Taking Criticism and Managing Anger PD6113-03	Sept 12	Thursday	8:30 a.m.-4 p.m.	\$ 195 *
• Managing Your Priorities PD6140-03	Sept 13	Friday	8:30 a.m.-4 p.m.	\$ 195 *
• Material Management Accounting Systems PD6141-02	Oct 8-10	Thurs-Thurs	8:30 a.m.-4 p.m.	\$ 400 *
• TQM II: World Class Quality by Total Quality Management PD6136-02	Oct 24 & 25	Thurs & Fri	9 a.m.-7:30 p.m. &	\$ 250 *
• Empowering for Commitment: Creating Organizations that Work PD6150-01	Nov 19	Tuesday	8:30 a.m.-1 p.m.	\$ 95 *
WRITING SKILLS				
• Writing to Government Standards: The GPO Style Manual PD6025-05	Sept 25	Wednesday	8:30 a.m.-4 p.m.	\$ 145
• Clear Writing PD6116-02	Nov 4-8	Mon-Fri	8:30 a.m.-noon	\$ 425 *
ADVANCED SPECIALIZATION CONTRACT MANAGEMENT CERTIFICATE PROGRAM				
• Proposal Preparation PD6098-03	Sept 9 & 16	Mondays	6-9 p.m.	\$ 140 *▲
• Current Procurement Issues PD6099-03	Sept 23 & 30	Mondays	6-9 p.m.	\$ 140 *▲
• Principles of Subcontract Management PD6100-03	Oct 7-Nov 4	Mondays	6-9 p.m.	\$ 280 *▲
• Cost Accounting Standards and Principles PD6103-03	Nov 18 & 25	Mondays	6-9 p.m.	\$ 140 *▲
• Financial Management of Government Contracts PD6104-03	Dec 2 & 9	Mondays	6-9 p.m.	\$ 140 *▲
SUPERVISORY DEVELOPMENT CERTIFICATE PROGRAM				
• Principles of Supervision PD6040-13	Sept 30-Dec 2	Mondays	6-9 p.m.	\$ 295 *▲
• Principles of Supervision PD6040-14	Oct 29-31	Tues-Thurs	8:30 a.m.-4:30 p.m.	\$ 295
SECRETARIAL AND ADMINISTRATIVE SKILLS CERTIFICATE PROGRAM				
• Office Communication & Technology PD6092-05	Sept 16-Oct 7	Mondays	6-9 p.m.	\$ 105 ▲
• Intro to Business Law PD6096-05	Oct 21-Nov 18	Mondays	6-9 p.m.	\$ 105 ▲
MANAGEMENT DEVELOPMENT CERTIFICATE PROGRAM				
• Managing a Customer-Driven Environment PD6156-01	Oct 1	Tuesday	8:30 a.m.-4p.m.	\$ 195 *
• Quality Planning and Implementation PD6157-01	Nov 6	Wednesday	8:30 a.m.-4 p.m.	\$ 195 *
• Managing Resistance to Change PD6158-01	Dec 9	Monday	8:30 a.m.-4 p.m.	\$ 195 *
COMPUTER APPLICATIONS				
MICROCOMPUTER FUNDAMENTALS				
• Intro to IBM PCs and Compatibles PD0064-30	Oct 21-31	Mon-Thurs	6-8 p.m.	\$ 275 +▲
• Intro to IBM PCs and Compatibles PD0064-31	Nov 18-21	Mon-Thurs	8 a.m.-noon	\$ 275 +
OPERATING SYSTEM				
• MS-DOS PD0001-37	Oct 21-25	Mon-Fri	8 a.m.-noon	\$ 325 +
• Advanced MS-DOS PD0136-04	Dec 2-5	Mon-Thurs	8 a.m.-noon	\$ 295 +
• Microsoft Windows 3.0 PD0146-03	Oct 28-31	Mon-Thurs	8 a.m.-noon	\$ 295 +
• UNIX PD0067-07	Oct 1-12	Tues, Thurs & Sat	6-8:30 p.m. & 9 a.m.-noon (Sat. only)	\$ 395 *▲
WORD PROCESSING				
• Microsoft Word for Windows PD0153-01	Sept 3-5	Tues-Thurs	8:30 a.m.-12:30 p.m.	\$ 295 +
• Intro to WordPerfect PD0027-17	Sept 9 & 10	Mon & Tues	8 a.m.-4:30 p.m.	\$ 325 *+
• Intro to WordPerfect PD0027-18	Nov 21 & 22	Thurs & Fri	8 a.m.-4:30 p.m.	\$ 325 *+
• Intro to WordStar 6.0 PD0046-12	Oct 1-3	Tues-Thurs	8 a.m.-12:20 p.m.	\$ 295 +
DESKTOP PUBLISHING				
• GEM Draw Plus PD0144-02	Sept 16-20	Mon-Fri	8 a.m.-noon	\$ 295 +
• Harvard Graphics PD0137-05	Dec 9-13	Mon-Fri	8 a.m.-noon	\$ 395 *+
• Intro to Ventura Publisher PD0092-12	Nov 12-15	Tues-Fri	8 a.m.-noon	\$ 325 +
ELECTRONIC SPREADSHEETS				
• Beginning Lotus 1-2-3 PD0005-63	Sept 16-18	Mon-Wed	8:30 a.m.-4:10 p.m.	\$ 395 +
• Beginning Lotus 1-2-3 PD0005-64	Nov 18-20	Mon-Wed	8:30 a.m.-4:10 p.m.	\$ 395 +
• Intermediate Lotus 1-2-3 PD0047-20	Sept 19 & 20	Thurs & Fri	8:30 a.m.-4 p.m.	\$ 295 +
• Intro to Excel for Windows PD0130-08	Oct 15-24	Tues-Thurs	6-8:20 p.m.	\$ 395 *+▲
DATABASE MANAGEMENT				
• Intro to dBase III Plus PD0002-37	Nov 4-8	Mon-Fri	8 a.m.-noon	\$ 395 *+
• Intro to dBase IV PD0124-05	Dec 2-6	Mon-Fri	8 a.m.-noon	\$ 395 *+
• Advanced dBase III/IV PD0068-08	Dec 9-12	Mon-Thurs	8 a.m.-noon	\$ 395 *+
• Intro to Oracle PD0142-05	Sept 23-27	Mon-Fri	8 a.m.-noon	\$ 595 *+
TECHNICAL COMPUTER COURSES				
• PC Troubleshooting PD0080-20	Sept 11-13	Wed-Fri	8 a.m.-12:20 p.m.	\$ 425
• Applied Data Communications & Networking PD0020-09	Oct 21-25	Mon-Fri	8 a.m.-noon	\$ 395
COMPUTER LANGUAGES				
• QUICKBASIC PD0152-01	Sept 16-26	Mon-Thurs	6-8:30 p.m.	\$ 295 ▲
• C Programming PD0010-30	Sept 9-Oct 3	Mon-Thurs	6-8:30 p.m.	\$ 645 *▲
• Advanced C Programming PD0112-06	Nov 18-Dec 12	Mon-Thurs	6-8:40 p.m.	\$ 645 *▲
APPLE MACINTOSH COURSES				
• Intro to the Apple Macintosh PD0016-52	Sept 10-12	Tues-Thurs	6-8:20 p.m.	\$ 195 ▲
• Intro to the Apple Macintosh PD0016-53	Oct 2 & 3	Wed & Thurs	9 a.m.-12:30 p.m.	\$ 195
• Intro to the Apple Macintosh PD0016-54	Nov 13 & 14	Wed & Thurs	9 a.m.-12:30 p.m.	\$ 195
• Intro to the Apple Macintosh PD0016-55	Dec 10 & 11	Tues & Wed	9 a.m.-12:30 p.m.	\$ 195
• Microsoft Word PD0079-29	Oct 8-10	Tues-Thurs	6-8:20 p.m.	\$ 195 ▲
• Microsoft Word PD0079-30	Dec 4 & 5	Wed & Thurs	9 a.m.-12:30 p.m.	\$ 195
• Advanced Microsoft Word PD0090-04	Sept 19 & 20	Thurs & Fri	9 a.m.-12:30 p.m.	\$ 195
• Intro to Excel PD0058-20	Oct 15-24	Tues-Thurs	6-8:20 p.m.	\$ 395 ▲
• WingZ PD0141-02	Nov 18-21	Mon-Thurs	8 a.m.-noon	\$ 325
• Drawing with the Apple Macintosh PD0115-11	Sept 23-26	Mon-Thurs	6-8 p.m.	\$ 225 ▲
• Desktop Publishing PD0026-33	Oct 22-25	Tues-Fri	9 a.m.-noon	\$ 295
• Presentation Graphics PD0060-17	Nov 4-7	Mon-Thurs	6-8 p.m.	\$ 225 ▲

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DATES: MW Sessions Sept. 4-Oct. 28; TT sessions; Sept. 3-Oct. 24; Sat. Sept. 7-Oct. 26.

REGISTRATION: Continuous through first session. Reservations are required (telephone 837-9726 or 837-9769).

FEES: Full-term 300/600 level: \$300 tuition per course plus \$5 registration, or as noted. 700-level: \$150 per credit. Application (one-time): \$5 special (non-degree); \$25 regular. Textbooks additional.

Approved for tuition assistance from most governmental and industrial organizations; limited VA assistance. Half-tuition scholarships are available from Southeastern for qualified attendees. NOTE: Most training offices require assistance requests 30 days prior to course start.

INFORMATION: Telephone (205) 837-9726/837-9769 or write P.O. Box 1485; Huntsville, AL 35807.

11-571 RADAR SYSTEMS MW 4:30-6:40 p.m.
An introduction to the theory and applications of modern radar systems. Background: basic knowledge of signals and systems. Instructor: Stephen M. Gilbert, Ph.D.; Radar Consultant.

11-581 DIGITAL SIGNAL PROCESSING TT 4:30-6:40 p.m.
A study of signal processing, with an emphasis on discrete-time techniques. Background: basic knowledge of signals and linear systems mathematics. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.

14-520 AERODYNAMIC PRINCIPLES TT 6:50-9:00 p.m.
An intensive introduction to aerodynamic principles, emphasizing low-speed, incompressible flow. Background: basic knowledge of fluid-thermodynamics and differential equations. Instructor: Terry F. Greenwood, Ph.D.; NASA/MSFC.

17-504 COMPUTER ORGANIZATION MW 6:50-9:00 p.m.
An introduction to the organization and software/hardware interactions in contemporary computer systems. Background: basic knowledge of programming and computers. Instructor: J.B. White, Ph.D.; United Technologies Corporation.

17-522 ADA SOFTWARE TT 4:30-6:40 p.m.
A study of the Ada programming language and its use in large-scale software development. Background: knowledge of structured programming; Pascal desirable. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

17-571 SOFTWARE ENVIRONMENTS TT 6:50-9:00 p.m.
A study of the processes, methods, and automation requirements to produce large software systems. Background: data structures and good knowledge of programming. Instructor: Robert R. Covelli, S.M.; Software Consultant.

24-532 DECISION ACCOUNTING MW 4:30-6:40 p.m.
An examination of accounting information for managerial decision-making. Background: basic knowledge of accounting desirable. Instructor: Richhard H. Shuford, Jr., D.B.A.; Business Consultant.

24-652 MANAGEMENT OF CONTRACTS TT 4:30-6:40 p.m.
A detailed study of the post-award administration of government contracts, emphasizing case studies. Background: basic knowledge of government contracts. Instructor: David L. Balint, M.B.A.; Teledyne Brown Engineering.

27-540 ECONOMICS OF TECHNOLOGY MW 6:50-9:00 p.m.
A study of analysis techniques for evaluating the economic worth of technical products, systems, and services. Background: basic knowledge of quantitative methods. Instructor: Leonard S. Yarbrough, Ph.D.; Teledyne Brown Engineering.

27-671 R&D MANAGEMENT MW 4:30-6:40 p.m.
A seminar on management problems in research and development programs and organizations. Background: studies or experience in technical management. Instructor: Julian S. Kobler, J.D., D.Sc.; Management Consultant.

31-504 QUANTITATIVE METHODS/CALCULUS Sat 8:00-12:00 noon
A survey of mathematical methods, including elementary calculus, for applications in management. Background: knowledge of college algebra. Instructor: Raymond C. Watson, Jr., Ph.D.; Teledyne Brown Engineering.

31-641 DYNAMICAL SYSTEM MATHEMATICS MW 4:30-6:40 p.m.
An examination of topics in mathematics for dynamic modeling, including catastrophe and chaos. Background: basic knowledge of differential equations. Instructor: John R. Glaese, Ph.D.; Control Dynamics Company.

34-530 OPTICS PRINCIPLES MW 6:50-9:00 p.m.
An intensive survey of geometrical and physical optics principles with contemporary applications. Background: knowledge of basic physics and calculus. Instructor: Charles L. Wyman, Ph.D.; Omega Systems.

SHORT-TERM COURSES

RADAR PRINCIPLES & APPLICATIONS July 22-26; 8:00-12:00
An intensive examination of modern radar theory and systems, emphasizing tactical and strategic applications. The course is primarily for updating of radar specialists, but should also be of value to systems analysts and technical managers. Instructor: Stephen M. Gilbert, Ph.D.; Radar Consultant. Fee: \$650.

SOVIET MONOPULSE RADARS Aug. 12-16; 8:00-12:00
An intensive examination of the theory and technologies of Soviet monopulse radars. The course should be of value to persons involved in developing advanced radars or in threat analysis. Background: basic knowledge of radar. Instructor: Larry D. Bennett, D.Sc.; U.S. Army Missile & Space Intelligence Center. Fee: \$650

FREE ELECTRON LASERS Aug. 15, 16, 19, 20 & 21; 8:00-4:00
An intensive study of the theory, characteristics, and design of free-electron lasers. This course is primarily intended for engineers and scientists working in the analysis and development of directed-energy weapon systems. Instructor: John M.J. Madey, Ph.D.; Professor of Physics, Duke University. Fee: \$800.

TECHNICAL AND MANAGEMENT PROGRAMS

Southeastern offers specializations in the following areas for professional programs at the master's level:

- Aerospace Engineering
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- Communications Engineering
- Computer Engineering
- Contracts Management
- Electro-Optics Engineering
- Electronics Engineering
- Engineering Management
- Engineering Mathematics
- Industrial Management
- Operations Research
- Radar Engineering
- Signal Processing
- Software Engineering
- Software Management
- Systems Engineering
- Systems Management

At the doctoral level, professional specializations are available in the following areas:

- Computer and Software Systems
- Management and Business Systems
- Optics and Electro-Optical Systems
- Research and Engineering Management
- Sensor Systems and Signal Processing
- Systems Engineering and Operations Research.

1991-1992 TENTATIVE SCHEDULE

Late Fall Term (Oct. 29–Dec. 21)	Winter Term (Jan. 2–Feb. 26)
11-531 RADIO ELECTRONICS	11-611 ANTENNAS & ARRAYS
11-675 ELECTRONIC COUNTERMEASURES	11-671 ADVANCED RADAR SYSTEMS I
14-544 MISSILE GUIDANCE & CONTROL	14-642 MISSILE DESIGN & SIMULATION
14-672 LIQUID PROPULSION SYSTEMS	17-501 COMPUTERS & SOFTWARE
17-508 DATA STRUCTURES/ALGORITHMS	17-633 EXPERT SYSTEMS
17-431 ARTIFICIAL INTELLIGENCE/LISP	17-663 COMPUTER DATA NETWORKS
17-561 COMPUTER TELECOMMUNICATION	17-683 SOFTWARE MANAGEMENT
17-623 OBJECT-ORIENTED SOFTWARE	24-501 MANAGEMENT & BEHAVIOR
24-635 MANAGERIAL FINANCE	24-516 CONTRACTS, LAW, & ETHICS
24-621 PROJECT/PROGRAM MGMT.	27-625 SYSTEM MODELING & ANALYSIS
31-505 STATISTICS & PROBABILITY	31-503 INTERMEDIATE ANALYSIS
31-544 MATHEMATICS OF SIGNALS	31-616 PROBABILITY/RANDOM VARIABLES
34-531 OPTICAL SENSOR SYSTEMS	34-637 OPTICAL PROPAGATION
Early Spring Term (Feb. 29–Apr. 29)	Late Spring Term (May 4–June 29)
11-535 COMMUNICATION SYSTEMS I	11-635 COMMUNICATION SYSTEMS II
11-672 ADVANCED RADAR SYSTEMS II	11-681 ADVANCED SIGNAL PROCESSING
14-521 FLIGHT VEHICLE AERODYNAMICS	14-661 SPACE VEHICLE DESIGN
17-513 PROGRAMMING LANGUAGES	17-515 INFORMATION SYSTEMS
17-525 SIMULATION METHODOLOGY	17-524 UNIX SYSTEM/C
17-541 COMPUTER SYSTEM STRUCTURES	17-541 COMPUTER SYSTEM PERFORMANCE
17-674 SOFTWARE ECONOMICS	17-671 ADVANCED SOFTWARE DESIGN
24-552 GOVERNMENT CONTRACTS	24-541 DECISION ECONOMICS
24-623 STRATEGIC MANAGEMENT	24-672 ALTERNATIVE MANAGEMENT
27-624 SYSTEM ENGINEERING PROCESSES	27-541 COST ESTIMATING TECHNIQUES
31-504 QUAN. METHODS/ CALCULUS	31-525 OPERATIONS RESEARCH MODELING
31-617 APPLIED STOCHASTIC PROCESSES	34-504 APPLIED ELECTROMAGNETICS
34-542 LASERS & PHOTONIC SYSTEMS	34-656 OPTICAL SYSTEM ENGINEERING

Additional courses will be available during the Summer Term (July 6–Aug. 27).

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

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- Doctor of Engineering
- Doctor of Management

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(205) 837-9726/9769

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

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77¢ Qt. After Rebate
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Our Best Price EVERYDAY

STP Oil Filters
 Store stock only. Or \$2.17 each. **2 FOR \$4**

STP Air Filters
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 15 oz. **EVERYDAY 1³⁹**

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Air Conditioning Receiver Dryers
\$9⁰⁶
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Air Conditioning Compressors
 Remanufactured. Store stock only. Price with exchange.
 For most early model GM's A-6 with clutch. **59⁹⁹**

For some late model GM's R-4 with clutch. **89⁹⁹**

For some later model GM's DA-6 with clutch. **119⁹⁹**

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OPEN NIGHTS AND SUNDAYS

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New & Used Furniture BUNK BEDS FOR SALE
 New, Complete With Mattresses, Solid Pine, \$120.
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SLEEPER SOFA
 Queen-size, Durable Hercules Fabric, New, \$195.
ELECTRIC HOSPITAL BED & NIGHTSTAND
 Excellent Condition, \$275
 Over-The-Head Table, \$50
CALL 539-6399

Announcements

Education careerists

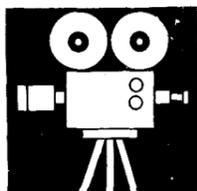
The next Department of Army accomplishment rating session for submission of Army Civilian Career Evaluation System packages for career program 31, Army Continuing Education Services, is scheduled for Oct. 22-23. Completed DA Form 5470-31-R packages — original plus three copies — are due to AMSMI-PT-MO-E, Dr. Mary McGough, no later than Aug. 30 in order to reach PERSCOM by Sept. 20. Packages received after close of business Sept. 20 will be held for the next rating session. This submission is for Army Continuing Education Services series 1740 employees desiring to register for promotion opportunities and lateral consideration in grades 11 through 15. Registration packages must be completed in accordance with PERSCOM Letter 690-88-5, dated Sept. 30, 1988. Employees currently registered and active in the career program 31 evaluation system may change any part of their record at any time when accompanied by part H of the DA Form 5470-31-R. For more information, call McGough 876-3465.

Hospital commander

At 10 a.m. Thursday, Col. Karl Snyder will relinquish command of Medical Department Activity to Col. Percy Dunagin in a ceremony in front of Fox Army Community Hospital. A reception will be held immediately following the ceremony. All interested persons are invited to attend.

Computer exam

The Education Center will administer the Associate Computer Professional (ACP) Exam on Sept. 23; you must be pre-approved to test and submit an application and test fees by July 26. For more information, call an education counselor 876-0080/9762.



Post Theater movies

Thursday — *Switch*, rated R, 104 minutes. Friday — *Switch*. Saturday — *Backdraft*, R, 135 minutes. Sunday — *Backdraft*. Tuesday — *Drop Dead Fred*, PG-13, 99 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

Evening pet clinic

Redstone Arsenal Veterinary Services, building 3543, will hold an after-hours clinic Tuesday, July 30 from 4-6 p.m. This clinic is limited to vaccinations and annual lab work. Appointments are requested. Services are available to active-duty and retired military and their ID cardholding dependents. For an appointment, call 876-2441.

Military engineers

The Society of American Military Engineers will meet 11:30 a.m. Thursday at the Holiday Inn, Madison Mall. Luncheon cost is \$7. For reservations, call Gaynell Beam 722-5801.

Comptroller careerists

A MACARS panel will be held in September for Comptroller (Career Program-11) career field for promotion to grades GS-11 and GS-12. Any initial submissions, changes or updates — original and three copies — should be forwarded by Aug. 19 to AMSMI-RM-MS, building 5250, room A-304. In accordance with CPO Bulletin 438 dated April 26, 1989, careerists should not request a rating higher than a Demonstrated or Potential 3. For more information, call 876-6188.

MICOM hail/farewell

The MICOM Hail and Farewell is scheduled for 4-6 p.m. July 23 at the Officers Club. Hors d'oeuvres will be served, and cash bars will be available. All military and civilian employees are encouraged to attend. Honorees will include military officers, and civilian employees GS/GM-13 and above. An advance fee of \$4 per person is required. See your administrative officer for response forms. For more information, call Pat Davis 876-2635.

Education committee

The Education Committee will meet at 7 tonight at Army Community Service, building 3491. All committee members and other interested persons are encouraged to attend. For more information call Dr. William Resha, ACS chief, 876-9289/5397.

Toastmasters club

Tennessee Valley Toastmaster Club, Toastmasters International, will meet at 6:30 p.m. Thursday at Shoney's Restaurant, 3301 Memorial Parkway southwest. "Come early and join us for dinner and conversation before the meeting." Meetings are held the first and third Thursday of each month. For more information, call Anne Hughes 881-8707.

Supply managers

The ad hoc DA Supply Management Civilian Career Program (CP-13) screening panel originally scheduled for September has been rescheduled to meet Oct. 15-18. The panel will evaluate employees — series 2001, 2003, 2010, 2030, 2032, 2050 and 0346 — eligible for promotion and/or reassignment to GS/GM-13 through GS/GM-15 grade level positions. All categories of Skills, Knowledge, Abilities and Personal Characteristics (SKAP) submissions will be accepted. Reconsiderations and add-ons from the last two panels conducted in March 1991 and June 1990 will be accepted. Since the no-change option is in effect, all registered careerists must submit a package. An original and four copies must be submitted by Aug. 31 to AMSMI-LC-MM, building 5681, room B4S, Attn: Vivian Hollingsworth. Careerists who fail to submit a SKAP package will be deleted from the system.



Computer users

The Huntsville MAC Users Special Interest Group on Desktop Publishing will meet at 7 p.m. July 24 at Parisians Community Room, Parkway City Mall. The meetings help Macintosh users exchange information and understand the process of desktop publishing using various software application programs. For more information, call 880-3761.

Pet breeding

Redstone Arsenal pet owners, for both cats and dogs, are reminded that selling pets on a one-time basis is allowed. Further breeding and maintaining additional pets for sale is strictly prohibited in accordance with the Redstone Arsenal Housing Community Standards, dated June 19, 1990, subject: Control of Pets. Violators could lose post pets privileges and face administrative or judicial actions for violation of Army Regulation 210-7, Commercial Solicitation on Army Installations.

Newcomers orientation

The Newcomers Orientation dates have been changed and will be held the first Tuesday of every other month. The next orientation will be held 9-11:30 a.m. Aug. 6 at the Recreation Center, building 3711. It is mandatory that all newly-arrived permanent party attend the orientation, and family members are encouraged to attend. Child care is provided at no cost to the attendee. For more information, call Frances Howard of Army Community Service 876-2859/5397.

Canoe club

Huntsville Canoe Club will meet at 6:30 p.m. Thursday at Mr. Gatti's, Highway 72 East and North Parkway. For more information, call Dave 650-0818.

Community service group

Young Adults for a Better World, a community service organization, will meet at 6 p.m. July 23 in the Alabama A&M University library auditorium. For more information, call Alfred Howard 876-1020 or 461-7043 (home).



Logistics engineers

Society of Logistics Engineers will celebrate SOLE's 25th anniversary and National Logistics Month from 4:30-7 p.m. Thursday at the Officers Club. There will be free hors d'oeuvres, anniversary cake and cash bar. This event is open to the public. For more information, call Roberta Peek 876-9132.

Friendship force

Friendship Force, an exchange travel group designed to allow people to live with a foreign family for a week or two, is starting a new chapter in the Huntsville area. The club was formed by President Jimmy Carter and his wife, Rosalyn, to promote friendship among people of the world. The Huntsville area group will hold a meeting Sunday, July 28 at 2 p.m. at the Faith Presbyterian Church on the corner of Whitesburg and Airport Roads. All interested people are invited to attend. For more information, call Randy Neal 539-4810.

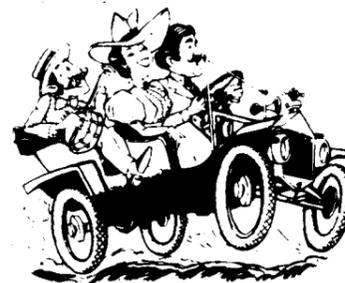


Family practice clinic

The Family Practice Clinic at Fox Army Community Hospital is updating its enrollment data base to provide better service for its members. To update information on their locator cards, all Family Practice members should visit the FACH Retiree Services Office or the clinic or call by Friday. For more information, call the Retiree Services Office 955-6142 or the Red Cross Volunteer Office 876-2812.

Trap/skeet clinic

Outdoor Recreation says a "Trap and Skeet Shoot Clinic" will be held 10 a.m. to 2 p.m. Saturday for beginners and advanced shooters. Shotguns are available; cost is \$3 per round. Sign up now at the Outdoor Recreation Center, building 5132. This clinic is open to all military and civilian employees and guests. For more information, call 876-4868.



Carpool Hotline

Call 876-1500 to place your free carpool ad.

Scottsboro

Carpool member wanted from Scottsboro to Martin Road vicinity, hours 6:45-3:15. Sue Hall 876-4766.

Guntersville

Carpool wanted from Guntersville to 4722 area, hours flexible. Terri Jackson 876-5319.

Decatur

Carpool wanted from Decatur to 3651, hours 7-3:30. Joyce Steenson 876-2576.

classifieds

FOR SALE: 1985 Honda LX sedan, 5 speed, 48,000 miles, wife's car. Call 353-7643.

Federal law makes it illegal to advertise any preference, limitation or discrimination in housing based on race, color, religion or national origin. The REDSTONE ROCKET will not knowingly accept advertising that is in violation of the law, and readers and advertisers are hereby informed that all dwellings advertised in this paper are available on an equal opportunity basis.

FOR SALE: King size waterbed, headboard with mirror and lights, heater, semi-mattress, and 1 set of satin waterbed sheets, \$190. Rabbit with cage and food, free to good home. Phone 722-0904, anytime.

FOR SALE: Panasonic 21" console color TV, excellent condition. Call 536-6696.

FOR SALE: Peavey stereo chorus 400, guitar amp with 130 watts per channel, built in chorus and reverb with foot switch, excellent condition, \$225. 883-2636.

FOR SALE: Large kitchen table, pine, 4 chairs, bench, seats 8 comfortably, excellent condition, \$130; RCA color console TV, 25", good condition, \$150; J.C. Penney's microwave, large, \$75. Call after 4 p.m., 586-3998, Arab.

FOR SALE: 1980 Fiat X19 convertible. Gold and black. Runs great and looks super. 105,600 miles. Good rubber, new battery. \$1650. 837-7480.

FOR SALE: Large dryer, \$75; Door, 32"x80" and fixtures, \$15; Louvers, 2 sets, 36"x79", \$40. 881-8638.

FOR SALE: Amana Radarange microwave/convection oven, new in box, \$350; Electric chain saw, \$25; Lawn mower, rear bagger, \$85; Two man saw, old, \$20; Kettle BBQ, \$25; Sofa, 100", excellent condition, \$150; Round coffee table, \$20; Porch glider/swing, \$5; Miscellaneous shelving, small tools and appliances, can opener, toaster oven. Call 533-6962 after 5 p.m.

FOR SALE: Walnut German schrank. Lighted, height 6'4", width 8'5". Valued at \$3,500-\$4,000, asking \$1200. 582-0226 after 5 p.m.

FOR SALE: 1978 Lincoln Continental, roomy, comfortable, all original, good shape, runs well, quadrophonic sound, leather interior, air, power everything, \$1100. 464-9917.

FOR SALE: Pool, 3' above ground, needs liner, \$60; Thermal pool cover, keeps water warm at all times, \$25. 464-0066.

SCHRANK FOR SALE: 12"x8" long, 7'8" height, \$600. Call 722-9029.

FOR SALE: 1983 Hunter sail boat, 25' 9.9 O/B. Excellent condition. \$12,500. 828-3217.

FOR SALE: 1987 Acura Integra, 5-speed, cruise, sunroof, tinted windows, \$6500. Call 534-0813.

FOR SALE: AKC Registered female Toy Poodle, 8 weeks old, excellent companion, \$150. 895-9227.

According to the Inspector General, the use of office phone numbers in classified advertising is contrary to regulation. Please submit home numbers only.

FOR SALE: 1988 Mercury Sable, 3.0 liter engine, automatic, power steering, air conditioner, power windows, 39K miles, \$6900. Call 772-3364.

FOR SALE: 1986 325 BMW. Original owner, 5 speed, 4 door, oil changed every 2500 miles, air conditioning, sunroof, stereo/cassette, anti-lock brakes, all power, 76,000 miles, charcoal with ivory interior, excellent condition, must see! \$9200. Call after 6 p.m., 582-1064, Guntersville.

HOT DEALS

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YOU CAN NOW GET **2.9% A.P.R.** FOR 48 MONTHS

...ON THE ALL NEW **1991 FORD ESCORT**

\$0 DOWN \$217⁹⁶ Per Month

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\$500 DOWN	\$206⁹¹ PER MONTH!
* \$1,000 DOWN	* \$195⁸⁷ PER MONTH

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1991 FORD RANGER XLT VALUE PACKAGE

- AIR CONDITIONING • AM/FM CASSETTE STEREO • CHROME BUMPERS
- POWER STEERING • SLIDING REAR WINDOWS • CAST ALUMINUM WHEELS

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#1 SELLING TRUCK IN AMERICA!

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Get Started In This Exciting Hobby For As Little As **\$174.99 COMPLETE SET UP**

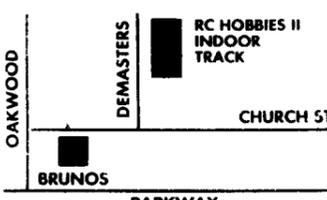
CAR RADIO BATTERY & CHARGER
RACING EVERY SAT. NIGHT — 6 PM
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SUN 2 PM-8 PM
WED CLOSED
SAT 10:30 AM-Midnight

MON 2 PM-9 PM
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(With This Coupon, excluding Sat.)
CHILD MUST BE ACCOMPANIED BY PARENT.



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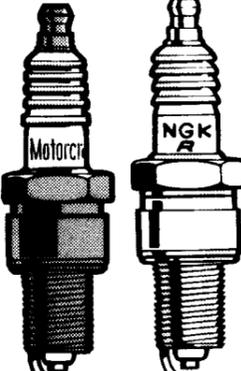
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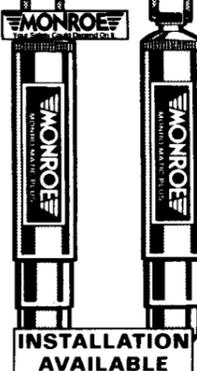
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A Trip for Two to the 1992 Daytona 500!
25 LUCKY WINNERS!
Includes air fare, 5 nights lodging, race tickets and **\$500.00.**
Complete details available at Western Auto.
CASTROL Motor Oil
Your Choice of 5W30, 10W30, 10W40, HD30 or 20W50. Limit 12. **99¢** Qt.



FRAM Oil Filters
Many U.S. cars except diesel units. Each. Limit 2. **2.29** Each Limit 2
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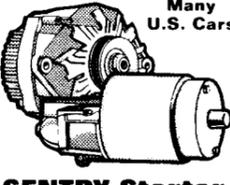
MOTORCRAFT or NGK Spark Plugs
99¢ Each Limit 16
NGK Specialty Not Included.



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15.97 Carry-out Each
Installed, Ea....21.97

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THE OFFICIAL AUTO PARTS AND SERVICE STORE OF... **NASCAR**

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 <p>TOUGH ONE Water Pump Only... Domestic applications in stock. 22.88 Exch. 1 Yr. Model...14.88 Exch.</p>	 <p>PIRELLI V-Belts O.E. Quality. Available for many cars, light trucks, vans. 20% Off Multi-Rib & Serpentine 4.99</p>	 <p>REX Radiator Caps Swivel-type caps. Many U.S. cars. 2.88 Each Lever-type caps3.88</p>	 <p>CAROL 3-Yr. Spark Plug Wire Sets 64-4100 ser. 9.99 6 Cyl. 14.99 8 Cyl. 17.99</p>	 <p>SENTRY Starter or Alternator 19.99 UP TO 79.99 Remanufactured. W/Exchange</p>	 <p>DieHard Battery Official Battery of NASCAR. To 650 CCA. 59.99 Exch. DieHard Gold79.99 Exch.</p>
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<p>MICHELIN XA4 All-Season Steel Radials 2 Steel Belts</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>P165/80R13</td><td>49.64</td></tr> <tr><td>P185/70R14</td><td>57.31</td></tr> <tr><td>P195/75R14</td><td>69.76</td></tr> <tr><td>P205/70R14</td><td>75.48</td></tr> <tr><td>P215/75R15</td><td>79.31</td></tr> <tr><td>P225/75R15</td><td>81.97</td></tr> <tr><td>P235/75R15</td><td>86.37</td></tr> </tbody> </table> <p style="text-align: center;">17-4131 series</p>	P165/80R13	49.64	P185/70R14	57.31	P195/75R14	69.76	P205/70R14	75.48	P215/75R15	79.31	P225/75R15	81.97	P235/75R15	86.37	<p>Western Auto Ultra 770 All-Season Radial 65,000 MILE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>P175/70SR13</td><td>42.25</td></tr> <tr><td>P185/70SR13</td><td>44.75</td></tr> <tr><td>P195/70SR13</td><td>46.75</td></tr> <tr><td>P185/70SR14</td><td>47.75</td></tr> <tr><td>P195/70SR14</td><td>49.75</td></tr> <tr><td>P205/70SR14</td><td>51.75</td></tr> <tr><td>P215/70SR14</td><td>52.75</td></tr> <tr><td>P215/70SR15</td><td>54.75</td></tr> <tr><td>P225/70SR15</td><td>55.75</td></tr> <tr><td>P235/70SR15</td><td>56.75</td></tr> </tbody> </table> <p style="text-align: center;">16-9200 series</p>	P175/70SR13	42.25	P185/70SR13	44.75	P195/70SR13	46.75	P185/70SR14	47.75	P195/70SR14	49.75	P205/70SR14	51.75	P215/70SR14	52.75	P215/70SR15	54.75	P225/70SR15	55.75	P235/70SR15	56.75	<p>Western Auto Deluxe Sport Radial 30,000 MILE 19.97</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>155SR12</td><td>19.97</td></tr> <tr><td>155SR13</td><td>24.75</td></tr> <tr><td>165SR13</td><td>26.75</td></tr> <tr><td>175/70SR13</td><td>29.75</td></tr> <tr><td>185/70SR13</td><td>31.75</td></tr> <tr><td>185/70SR14</td><td>33.75</td></tr> </tbody> </table> <p style="text-align: center;">16-5700 series</p>	155SR12	19.97	155SR13	24.75	165SR13	26.75	175/70SR13	29.75	185/70SR13	31.75	185/70SR14	33.75	<p>Western Auto Performance Radial GT All-Season 40,000 MILE RWL</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>P175/70SR13</td><td>38.95</td></tr> <tr><td>P195/70SR13</td><td>41.95</td></tr> <tr><td>P205/70SR14</td><td>47.95</td></tr> <tr><td>P215/70SR14</td><td>49.95</td></tr> <tr><td>P225/70SR14</td><td>50.95</td></tr> <tr><td>P225/70SR15</td><td>50.95</td></tr> <tr><td>P235/70SR15</td><td>51.95</td></tr> <tr><td>P205/60SR13</td><td>49.95</td></tr> <tr><td>P235/60SR14</td><td>53.95</td></tr> <tr><td>P245/60SR14</td><td>56.95</td></tr> <tr><td>P215/65SR15</td><td>54.95</td></tr> <tr><td>P235/60SR15</td><td>55.95</td></tr> <tr><td>P255/60SR15</td><td>59.95</td></tr> </tbody> </table> <p style="text-align: center;">16-8300 8400 series</p>	P175/70SR13	38.95	P195/70SR13	41.95	P205/70SR14	47.95	P215/70SR14	49.95	P225/70SR14	50.95	P225/70SR15	50.95	P235/70SR15	51.95	P205/60SR13	49.95	P235/60SR14	53.95	P245/60SR14	56.95	P215/65SR15	54.95	P235/60SR15	55.95	P255/60SR15	59.95	<p>FALKEN FK06U/FK05G High Performance</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>185/70HR13</td><td>53.97</td></tr> <tr><td>185/70HR14</td><td>57.97</td></tr> <tr><td>195/70HR14</td><td>62.97</td></tr> <tr><td>205/70HR14</td><td>66.97</td></tr> <tr><td>185/60HR14</td><td>74.97</td></tr> <tr><td>195/60HR14</td><td>78.97</td></tr> <tr><td>195/60HR15</td><td>84.97</td></tr> <tr><td>205/60HR15</td><td>86.97</td></tr> <tr><td>215/60HR15</td><td>96.97</td></tr> <tr><td>225/50VR16</td><td>162.97</td></tr> </tbody> </table> <p style="text-align: center;">17-8979 series</p>	185/70HR13	53.97	185/70HR14	57.97	195/70HR14	62.97	205/70HR14	66.97	185/60HR14	74.97	195/60HR14	78.97	195/60HR15	84.97	205/60HR15	86.97	215/60HR15	96.97	225/50VR16	162.97																																																												
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