

Redstone Rocket

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1992 a year for internal improvements at MICOM

BY SKIP VAUGHN

1992, the year after Army missiles performed so well in the Persian Gulf War, will be a time for this command to turn its attention toward its internal processes.

That's the view of Maj. Gen. William Chen, commander of the Missile Command and Redstone Arsenal. "I think 1992 is going to be a year where the Missile Command needs to focus internally in terms of its organization and the processes that govern our business, whether it's research and development, technology base, acquisition, logistics or security assistance," he said.

"We have to look internally in order to ensure that we are organized properly; and we have to look internally toward all of our processes, particularly in cross functional areas regarding one organization to another. So that we ensure these processes are streamlined and efficient, and that organizationally we are productive. We need to do that ourselves because we ourselves know better what those processes are; so that we set our standards. And it's always better that we do it ourselves rather than let some external element set those standards for us," Chen said.

He listed examples of how successful programs here can become the standard for other commands to emulate: the Value Engineering program, concurrent engineering, and Total Quality Management.

Fiscal 1992 has already brought some internal changes at the Missile Command. The Acquisition Center has replaced the Procurement Directorate; the Integrated Materiel Management Center consists of what was formerly the Integrated Logistic Support Office, Missile Systems Readiness Directorate, and Missile Logistics Center; and the Product Assurance Directorate is now part of the Research Development and Engineering Center. "RDEC, Acquisition Center and Integrated Materiel Management Center as well as our Security Assistance Management Directorate constitute the major functional activities of our command," Chen said. "And in addition to this internal

look, fiscal year '92 will have more detailed planning and coordination associated with the new command that encompasses the armament and chemical functions."

A Missile, Armaments and Chemical Command will be created by moving armament and chemical functions and about 1,400 associated civilian spaces from the Army Armaments, Munitions and Chemical Command at Rock Island, Ill., to Redstone and merging them with the Missile Command. Also, missile related fuze development and production and associated civilian spaces are to be moved from Harry Diamond Labs in Adelphi, Md., to the new command here. In addition, plans are to move the Materiel Readiness Support Activity at Lexington-Blue Grass Army Depot (Ky.) and the Logistics Control Activity at San Francisco to Redstone, merge them, and establish a separate activity reporting directly to headquarters Army Materiel Command; about 230 civilian spaces would be moved here in that action. Altogether, Redstone stands to gain 1,884 civilian jobs and major

(See 1992, cont'd on page 11)



CHEN

Army chief of staff congratulates post

Editor's note: Gen. Gordon Sullivan, the Army's chief of staff, sent the following letter to Maj. Gen. William Chen, commander of the Missile Command and Redstone Arsenal.

Dear General Chen,

Congratulations on the selection of the Redstone Arsenal community as a finalist in the "Most Improved" category in this year's Army Communities of Excellence (ACOE) awards competition.

Your community's demonstrated ability to provide excellent services in excellent facilities embodies the essence of the ACOE program — uncompromising support to the men and women of the trained and

ready Army. Your hard work has created an environment in which soldiers, civilians, and families can attain their highest aspirations for personal growth and professional achievement.

Please convey to every member of the Redstone Arsenal community my enormous pride in your collective accomplishments and in your success in this competition. It has truly been a team effort, and I thank you for a job well done.

Gordon R. Sullivan
General, U.S. Army
Chief of Staff

Year in review: 1991 a golden year for Redstone

Wartime success, consolidation gains, 50th anniversary among highlights

BY ED PETERS

1991 was a pivotal year for Army operations at MICOM. Of particular note, it saw the first combat test of the Army's modern missile arsenal and the first consolidation gains under BRAC 91. It also was Redstone's golden anniversary year.

Also of note, we completed INF treaty obligations of the United States by eliminating the last of the Pershings in May and are now getting postured to take on new responsibilities and employ our unique expertise as the U.S. begins to eliminate Lance and perhaps others.

Missile Command budget in FY91 was \$6.4 billion. Key lines: Procurement \$3.35 billion; Research & Development \$721.2 million; Operations & Maintenance, Army \$587.7 million; and Foreign Military Sales \$1.278 billion.

The war was a watershed event for MICOM and the Program Executive Offices in that our high-tech systems and associated technologies performed brilliantly in their first time out:

- Patriot, rushed into production in its PAC2 version, scored the first-ever battlefield kill of a missile by another missile and became the world's "Scudbuster."
- MLRS fire so devastated the Iraqi forces that they called it "Steel Rain."
- Army TACMS was consistently reliable and accurate through more than 30 long-range firings,

destroying or silencing all target objectives including SAM sites, a Scud position, a bridge, artillery and rocket battery positions and supply, fuel and rearming points.

- Hellfire was lethal first to last, from the initial attack on Iraqi early warning radars that opened the air war to the final attack on the retreating armored column on the road to Basra where it demonstrated the stunning efficacy of the missile-armed helicopter as a stand-off tank destroyer.

- Those smart bombs that the Air Force stuffed into bunker air shafts and doorways were guided by the pulsed laser guidance which Hellfire uses and MICOM developed.

Operation Desert Shield/Desert Storm was the largest deployment and subsequent combat use of Army missiles in history, involving virtually all systems managed at Redstone. All achieved high operational readiness rates despite the harsh environment.

Deployed systems included these managed by the PEO Air Defense, Brig. Gen. Robert Drolet: Stinger, Avenger, Patriot; And these managed by the PEO Fire Support, George Williams: TOW, Hellfire, Multiple Launch Rocket System, Army Tactical Missile System; And these managed by MICOM: Hawk, Chaparral, Shillelagh.

Here's where some of our developmental programs stand: ADATS reliability is improving steadily as predicted; Javelin (AAWS-M) has five consecutive

successful developmental firings and became a 54-month program; the Bat self-guided submunition was brought into the open; a Losat prototype was successfully demonstrated in four scored scenarios and the test results are now being gone over as part of the system design phase which is the last step before entering EMD; Corps Sam is funded for FY92 and transitioned from MICOM to PEO Air Defense in December in conjunction with receipt of industry RFI inputs.

Gen. Tuttle's vision to consolidate Army acquisition activities at a single site is potentially as significant to Redstone and the community as the Toftoy decision of 1949 to make Redstone the home of Army missiles. The vision has not gone away and in fact the circumstances that led to it are still present and intensifying. Already it has set irreversible forces in motion that have brought important new missions (e.g. management of armaments and chemicals) and 1,884 new jobs to Redstone and may have set the stage for large-scale expansion in future years.

Having marked its 50th anniversary in June, Redstone is in the process of posturing itself for the next 50 years, evidenced by \$240 million in new construction either planned or approved or recently built. We are expanding and modernizing our administrative facilities and laboratories and also the post exchange, commissary and others and upgrading utilities to

(See Review, cont'd on page 14)



Special people

Editor:

Last year at this time was not a very happy time for many who had family in Saudi Arabia.

My husband was sent there and this is not my hometown so I was here with my six children and no family.

I thank God for the support from many people but I especially want to thank a special group of people who cared enough to make my family's Christmas special. These people wanted to do this of their own choice — no one asked them to — and that's why it was so special. They got together and bought us presents and dinner. It wasn't only that they did this, but that they cared and went out of their way to touch someone's life by their kindness. They were angels from heaven.

It made my husband feel better knowing that people cared while he couldn't be here.

Again we thank you; and even though we have not been in touch, you are not forgotten. You made it a special Christmas.

Name withheld by request

Pharmacy helpers

Editor:

Pharmacy Service at Fox Army Community Hospital serves active duty, dependents, retired military and their dependents. We are blessed with 18 devoted and dedicated Red Cross volunteers who give of their time and labor working long hours (inpatient and outpatient pharmacy). Is it too much to ask patients using Pharmacy Service to treat our Red Cross workers in a courteous manner? There is no reason for patients to harass personnel, much less our volunteers working the windows in the pharmacy. Recently, a patient had one of our volunteers in tears; the patient was asked to have a DEERS stamp put on the prescription at Outpatient Records. The volunteer was following pharmacy procedure, not trying to inconvenience him. All military installations have policies and procedures that must be followed. The pharmacy has state, federal and Army regulations which we must adhere to. No patient should abuse pharmacy personnel, much less our dedicated and devoted Red Cross volunteers. We do our very best to serve each and every individual who comes to the pharmacy; so please be kind, it's Christmas.

Name withheld by request

Deep appreciation

Editor:

I would like to express my deep appreciation to my fellow employees at Product Assurance and throughout MICOM for the support, love, concern, and time given to me during my absence from work. Without this donation, my absence would have been almost unbearable. It takes people like you, helping your fellow employees, to make coming to work a pleasure. Now that I am back at work, I hope to be able to repay some of the generosity you have so graciously shown me. The calls, the cards, and words of encouragement really meant a lot to me.

Ann Cagle
Product Assurance Directorate
RD&E Center

Reference library

Editor:

I don't understand why the MOS Library has been directed to minimize the stockage of its material. Currently there are several tables stacked about 3 feet deep each of reference material which is being disposed of. The ladies who run the library do not understand why they have to get rid of the material.

The MOS Library tried to maintain several copies of each TM, FM, regulation, circular, etc. in order to best support the soldier. One copy was marked as the reference copy which always stayed within the library. The other copies could be checked out by the soldiers to support their training requirements.

Now there is only one copy of each reference material. Soldiers are not allowed to check the material out. The librarians don't understand why.

Capt. George M. Lucas
HHC MICOM

(Editor's note: Dr. Mary McGough, the education officer here, provided the following response. "Please be assured that the MOS reference library's foremost mission is to provide all required references to support the soldier in preparing for the Self Development Test (SDT), performing his/her job and the military training mission. These references are available for both reference and checkout use. However, the majority of our loan copies are not returned, and we are required to continually reorder. It is the responsibility of the unit publication clerk to order and provide their soldiers personal copies of references.

"Effective FY 92, Army standards require units to provide each sergeant, staff sergeant and sergeant first class a personal reference set of the four training and leadership field manuals and the 'Soldier's Manual.' The MOS Library is only responsible for providing shortfall requirements. The MOS reference library is in the process of inventorying and ordering all supporting technical references according to MOS densities and as identified in the SDT notices.

"In the process of inventorying, it was found that some of the existing materials are obsolete and are being recycled if appropriate to do so, or are otherwise being disposed of. Current references that are not required to support the primary MOS reference library mission are being given to other Redstone Arsenal libraries. This realignment releases space resources to support incoming references and other soldier-support programs."

Extended family

Editor:

Christmas is a time to show that you love and care for your fellow man. This letter is to thank every individual, group and association that helped the families of Redstone Arsenal whose spouses could not be home for the holiday.

On Dec. 5 the Officers Club, by arrangement and overseeing of Barbara Langford, willingly donated the Twickenham Lounge for a dinner party for the wives of deployed soldiers. Lee Hicks, manager of the club, and Chaplain McLean, through the Post Chapel Family Support Fund, picked up the tab for the dinner. Betty Showers of the Country Corner Flower and Gift Shop (294 Hughes Road, Madison) donated beautiful carnation corsages for the ladies. After a delicious dinner, served by Debby Desgranges (a wonderful waitress!), we were serenaded by Brenda Oberholtzer, Myrtle Jolly, Thomas Arnold and John Vance, waiters and waitresses at the club. Every one of us truly enjoyed the evening.

On Dec. 19 Shelby Williams, manager of the Youth Services Center, donated a decorated room for the children to have a Christmas party of their own. Santa Claus, played by George Stewart, came and handed out gifts that were bought by donations from the Officers Wives Club, the Post Chapel Family Support Fund (Sgt. Annie Dozier helped us keep up with the necessary paperwork), and the NCO Wives Club. The NCO Wives Club also furnished the wrapping paper and the time to wrap the presents. Maryrose Ball brought Girl Scout Troop 91 to sing and read Christmas stories with the children. April Sherrill also helped entertain and played Santa's Helper.

The Army Community Service donated the guidance and time of Virginia Dempsey, Eva Carlton and Ruth Briscoe. All of whom worked hand in hand with Valerie Carey, Maryrose Ball, Rhonda Robertson and myself to coordinate and arrange all the details for both dinner and party.

Being in the military means you may not be in your hometown, but you will always have an extended family. There is always someone who is willing to help you, regardless if it is Christmas time or not. Again, I would like to thank those who took time, or contributed donations, to make this Christmas a little easier to bear for the families of deployed soldiers.

Mona Daniels

Untimely cards

Editor:

I am a strong proponent of automation. I believe we have only scratched the surface in the use of computers as beneficial management, data transfer, and communication tools. However, the system that is in place to review and certify time cards has increased the burden on the supervisor several hundred percent. What used to take three or four minutes can now take literally hours and can result in trips to Finance & Accounting for manual certification when the computer process fails. In Total Quality Management (TQM) terms, it appears as though someone has been tampering with the system. Whoever controls this process needs to go back to the drawing boards.

Name withheld by request

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.

Red Cross needs blood donors here

Redstone Arsenal people can help the American Red Cross meet its critical need for blood by participating in blood drives here this week.

Some 200 units are needed for hospitals in the 10-county northern section of Alabama, according to Linda Clark, a donor consultant with the American Red Cross.

Beginning this Friday, and the second Friday of every month thereafter, a blood drive will be held from 7 a.m. to noon at Bicentennial Chapel. "And it'll hopefully get some donors up that way, and we do still need our donors to come out," Clark said.

"We still need all blood types," she added. To accommodate blood donors on the Alternative Work Schedule, the Red Cross has blood drives the first Thursday of every month from 8 a.m. to 12:30 p.m. at the Recreation Center, building 3711.

Besides Bicentennial Chapel, other blood drives this Friday include the following: building 4488, from 7 a.m. to 12:30 p.m.; building 8027, from 8:30 a.m. to 12:30 p.m.; and building 3435 west from 6 a.m. to noon. For more information, call the Red Cross office 536-0084 (ext. 342).

Research works.



THE REDSTONE ROCKET

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Everything advertised in this publication must be made available for purchase, use or patronage without regard to race, color, creed, sex or national origin of the purchaser, user or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in refusal to print advertising from that source.

Carpool parking permits due for renewal by Jan. 31

All current carpool/vanpool parking permits will expire Jan. 31, according to the Missile Command's transportation coordinator.

Bobby Noles says people who want to renew permits or organize carpools must submit SMI Form 1231 to attention at AMSMI-RA-EH-MP-PM. Renewals should be submitted before Jan. 15 to ensure that new permits are received before Jan. 31.

New carpool requests can be submitted any time. Processing is usually completed within five working days.

MICOM regulation 210-2-B1 requires at least three people in a carpool. These can be government employees (Nasa and/or Army); government contractors who work on post; or government employees who work off post in a government-owned or leased building. Any combination of these employees is acceptable.

People sharing rides with Nasa employees should apply for a rideshare permit through Army channels. Carpools that consist totally of Nasa employees should apply for their permit through the Nasa rideshare coordinator.

The new 1992-93 permits, when received, may be used immediately to replace the 1991-92 permits.

Some 1,509 employees are registered in ridesharing with the MICOM rideshare coordinator, and 239 are registered with the Nasa coordinator.

"Employees should appreciate a ridesharing program because of its substantial benefits," Noles says.

He listed the following advantages of ridesharing:

- Less need for parking space. Ridesharing can reduce or eliminate the need for new installation parking facilities and, therefore, can result in a substantial money savings: For each vanpool formed, parking demand can be decreased by six or more vehicles; for each carpool formed, parking demand can be reduced by at least three vehicles.

- Less congestion. Fewer vehicles cause less traffic congestion on roadways, both on and off the installation. In turn, the need for road widening or other costly improvements can be eliminated.

- Community relations. Ridesharing can establish or enhance an installation's reputation as a concerned and socially conscious employer who is participating in

nationalwide efforts to reduce energy consumption and improve air quality.

- Employee morale. Employees appreciate a ridesharing program because of its substantial benefits.

- Lower commuting cost. To the participants, ridesharing means saving money. A three-member carpool can save 75 percent on commuting cost vs. driving alone.

- Personalized service. Driving times are preset and reliable. Many pools operate door-to-door; others establish pickup points to suit the needs of pool members.

- Reserved parking spaces. Parking areas at installation buildings are reserved for ridesharing participants. These reserved areas are generally closer to the door of buildings than management officials' and open parking.

Ridesharing pools are generally formed through mutual consent, consisting of either friends, family members or persons working or living in close proximity, Noles says. For more information about ridesharing, call him at 876-1434 or call the carpool hotline 876-1500.

Soldiers should be aware of war trophy regulations

Units that have enemy equipment captured from the Persian Gulf War are supposed to turn these items in before displaying them as war trophies.

The Provost Marshal Office provided the following summaries of regs related to war trophy accountability and security:

- Army Regulation 700-99, "Acquisition, Accounting, Control and Disposal of Captured Enemy Weapons and Equipment and Foreign Materiel," requires units to turn in all captured enemy equipment to a central pool for control, accountability, demilitarization and transportation before issue to units/activities for legitimate testing, training and use as war trophies. Unit commanders will locate and identify historical artifacts of particular significance to their unit. Headquarters Department of Army will authorize small numbers of identified equipment to be returned to continental United States and European Command for use in unit museums and unit memorabilia. Equipment may be moved on scheduled unit transportation. Captured equipment will be properly accounted for and

reflected temporarily on a unit property book record. Army Central Command, based in Saudi Arabia, will monitor a consolidated equipment request and pass to headquarters Department of Army for approval.

- Army Regulation 190-1, "Physical Security of U.S. Army Museums," provides the physical security standards, policies, procedures and guidance to safeguard historically significant items in the Army museum system. Section III, "Museum Weapons and Ammunition," provides policy concerning the safeguarding of arms, ammunition and explosives either on display or in storage in an authorized arms room of the museum.

- Army Regulation 190-11, "Physical Security of Arms, Ammunition and Explosives (AA&E)," prescribes policy, procedures and standards for physical security of sensitive AA&E in the custody of Department of Army. Captured enemy weapons on unit property books identified as unit memorabilia would be subject to the provisions of this regulation. It requires physical security standards equivalent to those

utilized to secure U.S. Army weapons. If the unit desires to display the captured enemy weapons, they must be demilitarized by accomplishing the following steps: The weapon barrel will be plug welded one inch at the breech; if the barrel is removable, it will be welded to the receiver; and enemy weapons obtained as training devices will be secured in the arms room in accordance with physical security standards.

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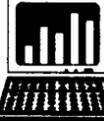
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Firefighters share direct routes with ambulance drivers

Members of Redstone Fire Department are sharing their knowledge of shortcuts to various buildings on post with members of the Fox Army Community Hospital ambulance section.

Firefighters and drivers of B shift at fire station 2 presented the first of three locator books to the ambulance section in December. The other two books should be ready by August.

"It sort of enhances the system that they already employ as far as going from the hospital to any building on post," said Fire Capt. Wendell Sales of B shift, Station 2 on Vincent Drive. The locator books being done for the ambulance section are similar to those in use at his station.

The first installment gives directions from the hospital to buildings in station 2's area, the northeast side of the Arsenal. The next book will have directions to buildings on the south end of Redstone; and the third book will cover the NASA area on the west side of the post.

"This was more or less a project for the Redstone community," Sales said. "We offered to do it because we felt like the system that we employ here could only enhance the one that they're using (at the hospital)."

SSgt. James Preston Walker, NCO-in-charge of the ambulance section at Fox Hospital, gladly accepted the first of the three locator books being prepared by Sales' shift at fire station 2. "I think it'll work out real well because it gives you the most direct route," Walker said.

The book represents a team effort by the members of B shift. The two drivers, Jerry Lewis and Joey Boyd, did the typing. Proofreading was performed by Sales and firefighters Bill Riddle and Buford Smith.

"We made up one here for our fire trucks two years ago," Lewis said. Members of B shift work every other day, from 8 a.m. until 8 the next morning.



LOCATOR BOOK — From left SSgt. Walker of Fox Hospital's ambulance section accepts the locator book from Redstone Fire Department's Smith, Sales, Riddle, Boyd and Lewis.

Food truck routes change on Jan. 13

The Post Restaurant Fund has rescheduled its mobile food truck routes to eliminate duplicate and non-productive stops, according to the post restaurant fund manager.

Bill Bullen says buildings 5437, 5436, Test Area One, 7805, 7471, 7437, 7442, 7421 and 7427 will no longer be serviced. Buildings 4500, 4505, 5201, 5687 and 5435 will be serviced once per day.

All other stops will remain on the schedule. The time at which stops are made at each building may vary due to the rescheduling. Scheduled stops will be posted in each mobile food truck during this week.

Effective date of the new schedule will be Jan. 13, Bullen says. For more information, call 876-8741.

Many soldiers unaware of PCS entitlement

WASHINGTON — Soldiers are not taking advantage of an allowance meant to offset the added temporary living expenses incurred during a PCS move. There is a perception that soldiers are unaware of this entitlement, said Lt. Col. Pat Clark of the office of the deputy chief of staff for personnel.

Temporary living expense, or TLE, was established by Congress in 1981 to help defray the expenses of soldiers PCSing in the continental United States who are forced to occupy temporary quarters at their old or new permanent duty station. The law, which pays the established per diem rate, allows for reimbursement of lodging and meal expenses for both the soldier and family members not to exceed \$110 per day for up to four days.

Soldiers are required to use government lodging facilities if they are available. (Arnews)

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Army's Avenger air defense system arrives in Korea

Editor's note: Ray is training manager in the New Equipment Training Division here at the Integrated Materiel Management Center.

BY MALCOMB RAY

The first major overseas simultaneous fielding and training efforts of Avenger to D Battery, 5th Battalion, 5th Air Defense Artillery, 2nd Infantry Division at Camp Stanton, Korea has been completed.

This is the first overseas unit to receive a fully active Avenger Battery. As the forerunner of the Forward Area Air Defense Systems the Avenger introduces a vastly improved, highly mobile air defense system to protect against both fixed wing aircraft and helicopters in the corps, division and brigade rear areas. By incorporating a mobile platform (HMMWV) with Forward Looking Infrared tracking and uploaded Stinger missiles, the Avenger offers a significant firepower enhancement and replaces Chaparral in the 2nd Infantry Division.

This significant and successful activity was highlighted with a graduation ceremony at Camp Stanton. Diplomas issued by the New Equipment Training Division, Maintenance Engineering Directorate, Integrated Materiel Management Center, Missile Command were awarded to all military personnel successfully completing training. Guest speakers were



TRACKING TARGETS — Avenger systems track aerial targets while on the move during training in Korea.

Brig. Gen. Robert Foley, assistant division commander for support, and Malcomb Ray of New Equipment Training. Other special guests included Col. Gilbert Edmondson, logistics assistance officer; Lt. Col. Thomas McGinnis, battalion commander; Lavelle Smalley and Clover Wakefield, Avenger Product Management Office; and Bill Clark, Boeing logistics manager. The speakers were followed by the presentation of diplomas to each student by Foley accompanied by Ray, McGinnis and Clark.

This fielding was significant because Korea is probably the most difficult site for any fielding and the 2nd Infantry Division was originally scheduled to be the first fielding to an overseas unit. Operation Desert Shield/Desert Storm forced a new schedule plan. The new priority was given to the 1st Cavalry Division at Fort Hood, Texas, in order to fully equip and train an Avenger Battery for immediate deployment to Saudi Arabia. After the Persian Gulf conflict the 5th Air Defense Artillery, 2nd Infantry Division was rescheduled in a time frame which placed a very demanding work requirement on the Avenger Product Management Office. Due to the dedicated efforts of all members of the fielding team and all support organizations, the mission was successfully completed Nov. 29.

Command's Total Quality cadre has full day of training

Members of the Missile Command's Total Quality Management cadre and their directors had a full day of in-service training Dec. 18 at the Recreation Center.

Activities for the approximately 150 attendees included a customer-supplier exercise featuring MICOM directors. Resource Management Directorate's TQM office conducted the training day aimed at sharing Total Quality Management information.

"I would say every organization (from throughout the command) was represented," said Una Ridgell, a Total Quality Management specialist in the directorate's three-member TQM office. The other members include Jack Moring, the TQM officer, and Carolyn Howard, a TQM specialist.

"We had several things going on that day. It was just a day filled with a lot of fun. We tried to utilize the talents within the cadre," Ridgell said.

Besides musical entertainment and role-playing, the attendees discussed issues and concerns of the cadre and reported on lessons learned.

Sheila Keidil, a representative from Teledyne Brown Engineering, conducted the "pingpong factory"

customer-supplier exercise in which Maj. Gen. William Chen, the MICOM commander, played the role of customer. Col. David Roesler, director of resource management, introduced the exercise and selected the players for it. Participants included John Chapman, deputy director of Integrated Materiel Management Center; Al Reeder, director of the Acquisition Center; John Mountain, deputy director of Information Systems Command-MICOM; Col. Bob Hueffed, director of Security Assistance Management Directorate; and Marty Martin, chief of logistic assistance division at Missile Systems Readiness Directorate which is part of Integrated Materiel Management Center. Teledyne's pingpong exercise is part of the company's Continuous Process Improvement program.

"Resource Management Directorate is in the process of obtaining the rights to use the pingpong factory exercise for the command," Ridgell said.

This was the command's second TQM cadre in-service training day. The first was conducted last Aug. 2 by Information Systems Command-MICOM. The

Acquisition Center is to conduct the next training day in March.



TQM EXERCISE — Among the participants in a customer-supplier exercise are, from left, Maj. Gen. Chen, playing the role of customer; John Chapman, deputy director of Integrated Materiel Management Center; and Al Reeder, director of the Acquisition Center.

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Desert Storm work was best part of retiree's career

BY SANDA MARTEL

When Jimmy Smith decided in 1965 to seek employment with the federal government, he wanted to work for the Social Security Administration. But when he was called to Redstone Arsenal for a job interview, he decided to accept the offer because he thought missiles were made here.

"I had never seen one and I thought it would be a big deal to see a missile," Smith said. He was then working for the U.S. Post Office in Tuscaloosa.

Smith was born Dec 21, 1924, in Gadsden and grew up in Holt, near Tuscaloosa. He was drafted into the Army on May 21, 1943, one day after high school graduation.

While a student at the Aerial Gunnery School in Kingman, Ariz., he was stricken with rheumatic fever and spent six months in Army hospitals recovering. Although grounded from flying duties, he was reclassified into Army administrative work and served out his enlisted time.

Smith enlisted in the Alabama Army National Guard in 1946 and served three years in Company A, 167th Infantry, while a student at the University of Alabama.

After his college days he reenlisted, in 1950, in the Alabama Army National Guard just days before the Korean War began. In 1951, Warrant Officer Smith was called to active duty and eventually served 11 months in combat with the 3rd Infantry Division Artillery in Korea.

He stayed with the Guard's Regimental Headquarters Company until September 1965, serving as recruiting, personnel, payroll, supply and mess officer.

His unit was called to active duty in 1963 for six months when the federal authorities ordered the University of Alabama to racially integrate.

"One of my sergeants was Ray Perkins, later football coach at the University of Alabama and two professional teams," Smith said.



SMITH

He was again called to active duty for two weeks in March 1965 to provide security for the civil rights people making the march from Selma to Montgomery.

In 1965 Smith left the National Guard and was assigned to a military intelligence detachment in the U.S. Army Reserves, and accepted a full-time job with the U.S. Post Office in Tuscaloosa.

When Smith retired last week after more than 44 years military and civilian service, he recalled his years at Redstone that included 14 years in the former Procurement and Production Directorate, assignments in the Dragon Project Office, Hellfire/GLLD a Hydra-70 Rocket Management Office. He is retiring as a GS-13 industrial specialist in the Chaparral/FAAR Project Office.

Smith said working in the Hydra-70 Rocket Management Office during Operation Desert Storm was the best time of his life.

"We worked many long hours, six and seven days every week, getting rockets and rocket motors shipped direct from ammunition plants in Camden, Ark. and Shreveport, La. to the Air Force, Navy, Marine Corps and Army ports of embarkation," he said.

It was in October 1990 that the Hydra-70 management office moved to Rock Island Arsenal, Ill., but Smith chose not to transfer with it. "Who wants to live there in the winter?" Smith asked.

One of his hobbies is collecting old cowboy movies and he now owns some 200, he said. His favorites are Hoot Gibson and Ken Maynard cowboy movies. "And as far as I'm concerned, John Wayne and Randolph Scott never made a bad movie," Smith said.

Smith has been married to the former Peggy Ann Deakins since 1948. They grew up only two blocks away from each other in Holt.

Smith said he looks forward to retirement and hopes to start right away writing a book based on his experiences while serving in the Army Air Corps during World War II.



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Video visit brings relatives together for holidays

BY SKIP VAUGHN

There was laughter — and some tears — as a family here shared a holiday video visit with relatives in the state of Washington through the magic of video teleconferencing.

Lisa Braswell, a secretary in the system integration office of Research Development and Engineering Center, brought her parents, uncle and aunt to MICOM headquarters Dec. 26 for a half-hour video visit with her sister and her sister's family at Fort Lewis, Wash. The Missile Command's video teleconferencing facility offered 30-minute Christmas holiday visits Dec. 16 through Jan. 3.

This was the fourth year for the holiday video visits here. The Braswells' slot was the third of those scheduled. Though the number of available sites had expanded, the usage by soldiers, civilian employees and their families was down this year. "It's down this year, I guess because of Desert Storm. Everybody had to pretty much stay put where they were at last year," said Don Banes, a video teleconference production specialist here.

"It sure beats travel," Banes said, referring to the benefit of video teleconferencing with friends and relatives.

The video teleconferencing facility at MICOM headquarters building 5250, room B-300, can accommodate up to 16 people at a time. Facilities at other locations vary in size.

The holiday visits were offered free of charge on a first-come, first serve basis. On Dec. 19-20, AT&T provided an international connection to two military installations in Germany at no charge to the government. The connection was available in Frankfurt Dec. 19 and at Stuttgart Dec. 20 for four hours each day.

"Did you bring any tissues?" Braswell asked her relatives as they settled down in the video teleconferencing facility here and waited to see her pregnant sister, Gayle, for the first time since July 4.

Moments later they could see and hear Sgt. Danny and Gayle Vorreyer and his two children, Carol, 15, and Dale, 10. "Like my hat? It's the Georgetown Hoyas," an excited Dale told his Southern relatives whom he could see on his video screen at Fort Lewis. "Hey gal, you look good fat," joked Eddie Braswell

as he looked at his daughter who is due to deliver his first grandchild April 3.

Others on this end included Eddie's wife, Polly; his brother, Herman and Herman's wife, Myra, who were visiting from Georgia; and of course, Lisa who made good use of the tissue in her hand.



HELLO, FORT LEWIS — Braswell family members participating in a video teleconference include from left Herman, Myra, Polly, Eddie and Lisa.

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Oldtimer recalls the sale that never happened

No buyers could be found when Arsenal was advertised for sale in 1949

Editor's note: Historical dates and events in the following story were taken from "Redstone Arsenal Complex Chronology, Part I: The Pre-Missile Era (1941-49)," compiled by Michael E. Baker and Dr. Kaylene Hughes, MICOM Historical Division.

BY SANDA MARTEL

Back in September 1947, Huntsville Arsenal was declared excess. With World War II ended, the Department of the Army no longer needed the facility which had been established in 1941 for the manufacture and storage of chemicals.

With a deadline for complete Arsenal deactivation set for June 1949, the 34,680 acre Huntsville Arsenal was advertised for sale. (Excluded from the sale was the adjacent 4,000 acre Redstone Arsenal, which had been designated the center for ordnance rocket research and development in October 1948.)

Responsible for that sale was a young Army officer assigned to the Mobile Corps of Engineers District, now retired Col. Warren Everett.

"We couldn't find anyone interested in buying Huntsville Arsenal," the 81-year-old Everett said when he visited Huntsville last week.

No bids were received by the Corps of Engineers, even though a brochure was prepared and widely distributed.

"The only people interested in the Arsenal were farmers, to whom we leased some of the land for cattle grazing," Everett said.

In June 1948, some 12,651 acres of land had been rented to local farmers for grazing and hay and grain crops, according to Historical Division records.

The sale of Huntsville Arsenal never happened because the Army found a need for the land for a new mission that was developing at the adjacent Redstone Arsenal.



FRAGMENT FROM THE PAST — Everett holds a copy of the 1949 booklet that advertised Huntsville Arsenal for sale while standing beside a photo of an Arsenal building with a "For Sale" posted in front of it. The photo is included in a historical photographic exhibit in the Regimental Room at the Officers Club. The 1949 booklet is in the MICOM Historical Division archives.

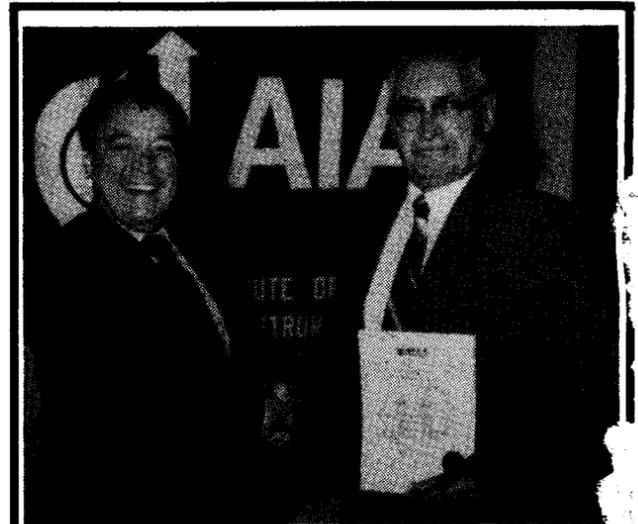
It was in October 1948, after an extensive survey of all Army ordnance installations that the Chief of Ordnance designated Redstone Arsenal as the center for ordnance rocket research and development.

And it was in October 1949 that the Secretary of the Army approved transfer of the Ordnance Research and Development Division Sub-Office (Rocket) at Fort Bliss, Texas, to Redstone.

Among those transferred were Dr. Werhner von Braun and the team of German technicians and scientists who came to the United States in 1945-46 to work on the United States' emerging rocket program.

And the rest is history that is well known by most Americans, and especially those living around Huntsville.

Everett said that when he was assigned the mission of trying to find a buyer for Huntsville Arsenal, he never imagined that it would one day become so important to the nation's space program.



SERVICE AWARD — Dr. Karl Helmbert, right, an original member of the Von Braun Team, receives a certificate and pin for 40 years of continuous membership in the American Institute of Aeronautics and Astronautics. Making the presentation is Steve Hollich, chairman of AIAA's Alabama-Mississippi Section.

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Surface-to-air project shifts to program executive office

BY SANDA MARTEL

A ceremony marking the transition of the CORPS Surface-to-Air-Missile Project Management Office from MICOM to the Program Executive Office, Air Defense, was held Dec. 17 at 4910 University Square.

Maj. Gen. William Chen, commander of the Missile Command, terminated the MICOM charter for CORPS SAM; and Brig. Gen. Robert Drolet, PEO for Air Defense, presented a PEO Air Defense charter and flag to Col. Richard Black, project manager.

The transfer was termed a "historic event" by both Chen and Drolet, in that the missile program was born and nurtured by MICOM and handed over to the PEO/Air Defense for maturity.

"This is a living example of what the Packard Commission had in mind when it put together the PEO structure," Drolet said.

The office's everyday activities won't change. The PEO's project office will be supported by MICOM's matrix management personnel structure and there won't be any change in personnel who run the office.

CORPS SAM, envisioned as the replacement for the 35-year-old Hawk missile around the turn of the century, is "extremely important" not just to air defense but to the Army's need for a rapidly deployable force, Drolet said.



TRANSITION CEREMONY — Chen, Black and Drolet participate in ceremony where program responsibilities for CORPS Surface-to-Air Missile were transferred from MICOM to the Program Executive Office, Air Defense.

Troop bowling

Here are the Troop Intramural Bowling standings as of Jan. 6:

Tuesday's Conference	W	L
HHC 832nd-1	247.5	102.5
F Company 832nd-2	214.5	135.5
HHC MICOM-1	195.5	154.5
Navy	179	171
HHC MICOM (Airfield)	174.5	175.5
HHCTSG	172	178
MEDDAC	172	178
D Company 832nd	164.5	185.5
E Company 832nd (DCD)	164	186
NCO Academy	156	194
Marines-2	137.5	212.5
E Company ETTD-3	114	236

200 games/600 series bowled Dec. 17:

Dave Lewis (E Company DCD)	241, 205 & 615 series
Phil Mosley (MEDDAC)	233
Gary Ulibarri (NCO Academy)	224
Dave Edwards (MICOM-1)	203
Al Poulin (HHCTSG)	203

Thursday's Conference	W	L
F Company 832nd-1	219	131
E Company ETTD-1	213	137
HHC Cmd & Staff	208.5	141.5
	190.5	159.5
E Company ETTD-2	190.5	159.5
E Company CAD	186.5	163.5
515th Ord. Co.	185.5	164.5
I & I Staff USMC	165.5	184.5
F Company 832nd-3	143	207
HHC MICOM-2	140	210
HHC 832nd-2	133.5	216.5

200 games/600 series bowled Dec. 19:

Graham Van Oostrum (F Company-3)	220 & 603 series
Jim Stracke (ETTD-1)	215 & 602 series
John Jarboe (F Company-1)	210
Gary George (F Company-3)	206



VENTRILOQUIST — Joe Boley, a ventriloquist/magician from Hopkinsville, Ky., donates his time to perform for the MEDDAC/DENTAC youth in their first Christmas Party held Dec. 14 at the Youth Center. In addition to the festivities and receiving of gifts, the children collected cans of soup and vegetables for the Huntsville Rescue Mission.

Youth chess club plans tournament

All military kids in kindergarten through seventh grade who are eligible to join the Youth Center are invited to participate in a chess tournament Saturday.

Players will be divided into two categories: one for children in grades K through 3 and the other for those in grades 4 through 7. Winners in each category will receive trophies and everyone will receive a participation ribbon. To register for the tournament, contact the Youth Center by Friday.

The Youth Center's chess club was organized six months ago, and has already had one tournament. Membership in the club is open to all youngsters ages 5 through 13 who are eligible to join the Youth Center.

The club meets every Saturday from 2 until 4 p.m. for informal play. The club is always in need of volunteers to teach the members to play. For more information, call 876-5437.

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THAAD will obliterate enemy ballistic missile warheads at a range and altitude of up to 100 miles. THAAD interceptors will be guided initially by a ground-based radar, while an extremely accurate on-board seeker will pinpoint



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1992

(Cont'd from page 1)

new missions — managing Army armament and chemical functions as well as missiles and rockets.

The new command or MACCOM is planned to be operational Oct. 1, 1994. "And so we can see that during fiscal year '92, there will be many more meetings with our counterparts at Rock Island (Ill.), Picatinny Arsenal (N.J.) and Edgewood Arsenal (Md.) as we consolidate the armaments and chemical management under MACCOM," Chen said. "On 1 Oct. 1993, the plan is that the Armaments Research, Development and Engineering Center at Picatinny and the Chemical Research, Development and Engineering Center at Edgewood will come under the command and control of the Missile Command. In effect, this will take place a year before the MACCOM organization; and by doing so, we will facilitate the integration of the ar-

maments and chemical research, development and engineering to the Missile Command as a lead into the new Missile, Armaments and Chemical Command."

Turning his attention to the budget, Chen said the Missile Command's budget for 1992 is stable. "The good news is that based upon our projections, there will be no reductions in force in FY '92. And if the Army's budget submission to OSD (Office of the Secretary of Defense) for the President's budget in FY '93 holds, we also would expect there would be no reductions in force in fiscal year '93."

Redstone Arsenal can expect a visit about mid-March from an Army evaluation team in the aftermath of its selection as a finalist in the 1991 Army Communities of Excellence awards program. Redstone was picked as a finalist in the most improved category.

"First of all I'm extremely pleased to see that Redstone Arsenal was selected as an Armywide finalist in the ACOE competition because this really represents a lot of hard work on the part of all organizations on Redstone Arsenal for the past two years. We've seen a lot of improvement in our facilities and services. We've seen a lot of hard work and effort on the part of all our organization heads in embracing the tenets associated with ACOE which extends not just to the present work environment but also to customer service," Chen said.

"The best way to prepare for the upcoming Department of Army evaluation is for all of us — from the top down as well as from the bottom up — to take a look around our office and work environment and to satisfy ourselves that our own areas look good, are presentable and that we have done all that we can to improve the work environment for our employees. We need to also continue to recognize that no matter what organization we represent — whether it's pure MICOM mission, a Redstone Arsenal support activity, a medical/dental activity, or the PX/Commissary or morale, welfare organization — that we have our customers, that we are a service organization predominantly, that we need to be sensitive to customer satisfaction, and that we are sensitive to the role that our organizations play here at Redstone Arsenal," he said.

"We are competing against Fort Polk, La., but should not be concerned so much about that as opposed to our continuous efforts in making Redstone Arsenal a good place to work, and that this community is one of the best in the Army."

Total Quality Management — looking for a better way or a simpler, quicker way of doing business and doing it right the first time — will continue to be a force here in 1992. "TQM is an area for which I personally have gotten a lot of satisfaction out of in terms of our implementation. Back over two years ago we developed an approach, an integral part of which was our training strategy. That training strategy evolved based upon my recognition that before we could seriously achieve progress, we must first educate and train our work force. We developed the concept of TQM cadre; and thus far we have trained over 175 TQM cadre. We have TQM offices in all of our principal organizations. And so, up till now we have implemented the training phase. For 1992 my vision is that we get more into processes, particularly those in cross functional areas," Chen said.

Looking ahead to 1992, the commanding general also reflected on the success the Army missile team enjoyed in 1991. "As we look at this past year, 1991 has been a great year for Army missiles. We saw our performance in the Gulf War, and that's a tribute to our individual soldiers, their unit commanders and the leadership of those unit commanders; it's a tribute to our management team, both contractor and government. And in the post-Desert Storm activities I'm glad to have seen the progress and achievements in the retrograde of our sensitive missiles from Southwest Asia. We can't forget that on the ground today we have representatives of our work force that are still there in Saudi Arabia. And they have done a great job in the retrograde of our missiles as well as the ongoing support of the two Patriot battalions that are still there."

Chen, 52, assumed command here in October 1989 after serving at the Pentagon as assistant deputy for systems management in the Office of the Assistant Secretary of the Army for Research, Development and Acquisition. He had served here from 1982-84 as Chaparral/FAAR project manager, and had earlier assignments with Patriot and the Nike Hercules project offices. He and his wife, Sandra, have two sons: William, 10, and Stephen, 8, both of whom attend the Academy for Science and Foreign Language.

Improved drug testing targets users in 1992

WASHINGTON — Drug users who tested negative during past urinalysis tests may not be so lucky this year.

Because of technological improvements, detecting illegal drug use from initial test levels for cannabis, cocaine and amphetamines is now much easier.

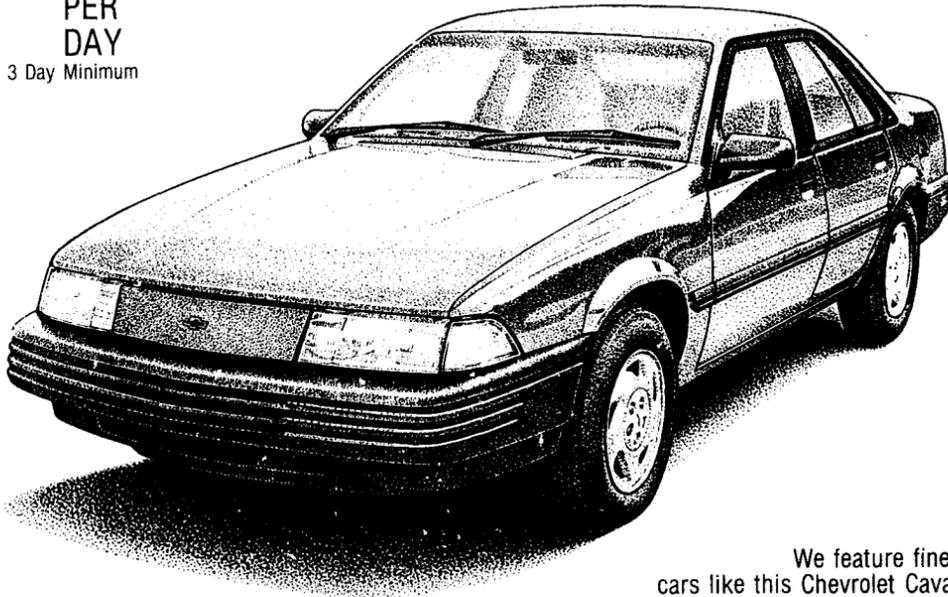
Officials at the Pentagon are advising commanders to "be prepared for an increase in the number of confirmed positives." (Arnews)

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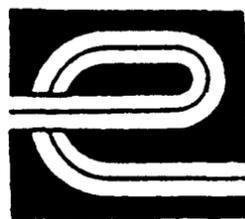


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ENTERPRISE RENT-A-CAR

German trailer gets new owner: the chaplains office

BY SANDA MARTEL

For the last 17 years it's been the scene of leisure and recreation for Germans stationed at Redstone Arsenal — a place where homesick German soldiers could gather to eat their native cuisine and socialize in a cozy atmosphere reminiscent of home.

The Deutsche Soldatenstube, better known to some as the German trailer, got a new owner a few weeks ago, as the German Protestant Military Church, the Soldatenstube owner, transferred it to the U.S. Army Chaplaincy at Redstone Arsenal.

"I know the transfer of the trailer doesn't please everyone, but due to the definite deactivation of the German Training Unit by end of the year, continuation of the operation cannot be justified," said Col. Helmut Bosch, senior German liaison officer to the Patriot Project Office.

The idea of providing German military personnel training at Redstone with a facility for leisure and recreation dates back to the 1960s, Bosch said.

When he was a student at the missile school in 1963-64, there was already discussion on what could be done to improve the situation of bachelor soldiers, he recalled. But it was not until March 29, 1974, that the trailer was formally inaugurated. Five days later, April 3, 1974, a tornado touched down on Redstone and "virtually atomized the just complete building,"

Bosch said. There were no casualties, fortunately; and a new trailer was built and opened Aug. 20, 1974.

Over the years the trailer saw many visitors — general officers, members of the Parliament, consuls, etc.; and many formal functions with American and international guests were held there. It was the site for celebrating German Unity on Oct. 3, 1990, and will long be remembered as the scene of unforgettable feasts, especially Oktoberfests.

It was run from the beginning until 1989 by Lisa Folgmann and since then by Karin Mills.

Under the direction of the U.S. Army Chaplaincy at Redstone, the facility will now be used to complement the installation's religious program, Chaplain (Col.) Norbert Bykowski said. "Under the supervision and operation of the Chaplain's Office, we'll have religious meetings here, things like choir groups, youth retreat groups. Events that improve morale. It will also be used as another meeting place for people on post, things like TQM meetings."

Bykowski said the trailer has a seating capacity of about 100 and will be available to users free of charge.

"Right now we're open to suggestions on how the facility could be further used. We want to hold to the intent of what the Germans established it for — to improve morale. We want to make sure it's used by

responsible adults who sign up for using it and make sure care is taken when using it," Bykowski said.

The schedule book will be kept at the Post Chapel. Anyone with suggestions or wanting to schedule an event should call the Post Chapel at 876-8653.



NEW OWNER — Chaplain (Col.) Norbert Bykowski, left, accepts a key plaque that hangs in the Deutsche Soldatenstube from Col. Helmut Bosch, German liaison officer.

Missile school's support helps spur good charity year

The Ordnance Missile and Munitions Center and School was among the many organizations that helped the Combined Federal Campaign to its best year ever in 1991.

Some 1,350 OMMCS employees and students contributed \$64,501.58 for 113 percent of its \$57,000 goal. This represented 56 percent participation and an average donation of \$48. Compared to the previous year, the school had 205 more contributions.

"This year's CFC was held after the Army Emergency Relief fund drive. That fact coupled with the holiday season makes this achievement very significant. In the spirit of giving, the OMMCS family exceeded their 1991 goal," said Col. James Boddie, the OMMCS commandant, during a Dec. 17 awards ceremony for the school's effort.

A number of organizations at the school were recognized in various categories for their contributions. Those honored in the category of per capita giv-

ing included: gold award (greater than \$75 giving per individual) Combat Developments, Office of Inspector General, EOD Center for Training and Technology, and Threat Office; the silver award — for greater than \$60 but less than \$75 giving per individual — went to Directorate of Training & Doctrine, and Command and Staff Department. In the participation category the gold awards — for 96 to 100 percent — went to Combat Developments, Office of Inspector General, Resource Management Office, Directorate of Reserve Components, TRADOC Munitions System Manager Office, Leader Development/Personnel Propensity Office, Logistics Division, and D Company of 832nd Ordnance Battalion.

Boddie singled out D Company for its exceptional support. "The Delta Dogs really came through late in the campaign. Their gift exceeded \$14,000 with 100 percent participation. This gift pushed the CFC campaign over our goal. All of that from an AIT (advanc-

ed individual training) company. The 'Dawgs' did well," he said.

The commandant also honored Paul A. Michael, the 1991 OMMCS CFC representative, for his superb service throughout the CFC year. Ken Meacham will serve as the school's Combined Federal Campaign representative during the next two years.

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Redstone airfield supports military customers in region

Editor's note: Lt. Col. Kincaid is director of Redstone Arsenal Support Activity's Directorate of Flight Operations.

BY JAMES KINCAID

Once again someone has said, "I didn't even know there was an airfield at Redstone." That came from a passenger who was flown from Redstone Arsenal to Augusta, Ga., for a medical appointment.

Although most people in the area know that we have an airfield at Redstone, too few realize what our Operational Support Airlift assets really are.

The OSA is airlift transportation in support of command, installation or management functions using Department of Defense-owned or controlled aircraft.

There are three U-21 series airplanes, assigned to the Directorate of Flight Operations here, that are part of a fleet which supports the Army worldwide. In addition to serving our command group, these planes are available for official use by 15 government agencies in the Huntsville/Redstone area.

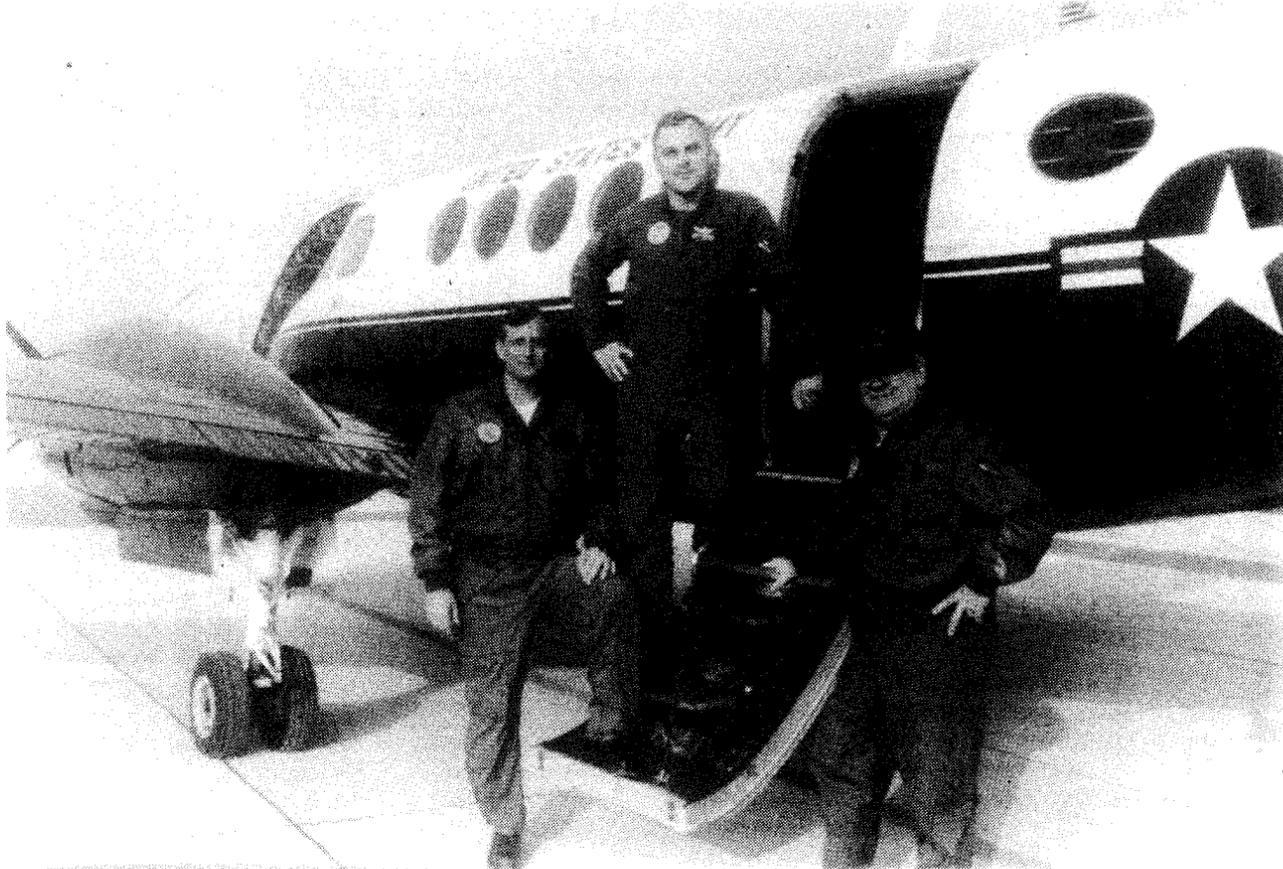
In addition to our primary area of service Redstone aircrews, through the centralized OSA scheduling system, also serve customers from other commands.

The Army has been refining the OSA scheduling process throughout the past three years, and now has a centralized command point at the Central Army Aviation Support Office located at Davison Army Airfield, Fort Belvoir, Va. All Army installations are linked to the Office via a computer data link. Requests are forwarded to the CAASO which, in turn, makes mission assignments.

Prior to the central scheduling concept, it was not unusual to have aircraft arrive at a conference location from several posts or headquarters, each aircraft having transported only one or two passengers. Central scheduling allows more efficient use of airplanes and thus more mission capability.

There are very few OSA missions flown on a regularly-scheduled basis. The vast majority are flown to satisfy customer-requested time schedules. Frequently, OSA can turn a three-day TDY trip into a one-day working session. This is because OSA airplanes can operate into and out of most airports in the U.S., where there is no commercial service. The other great advantage is that the customer sets his or her own flight schedule, depending on the needs of the office.

There are some guidelines that must be followed when using OSA aircraft. The customer requesting support, usually an agency chief, must certify that the mission meets criteria of official use and priority. There is no charge directly to the customer for OSA service. At Redstone the operational cost of the air-



ARMY PILOTS — From left are Sam Maki, CW04 Loren Dethlefs and Jim White with one of the fixed-wing aircraft available for official business use at the Redstone Army Airfield.

craft, salaries, TDY and overtime for the flight crews are funded through the Directorate of Flight Operations. Single passenger missions are not usually cost effective, and generally will not pass the "acid test" for justifying the cost to fly OSA vs. commercial. Missions that contain deadhead legs (a flight carrying no passengers or cargo) are also often not cost effective.

There are certain circumstances where missions must be flown by OSA airplanes as a cost of doing business even though it would appear otherwise. Some examples are: classified cargo, explosives or hazardous cargo, classified courier missions, or travel by groups who must remain cohesive to conduct business en route or must arrive together for specific functions.

Regulations permit a wide variety of passengers to use Army aircraft. The underlying purpose must be official business. Passengers are not allowed to ride during emergency procedures training maneuvers, or dur-

ing research and development test flights. There are also passenger restrictions when certain types of cargo are transported. The following categories or personnel are generally authorized as passengers on Army aircraft: active duty military, DoD civilian employees, National Guard members and reservists when performing drill or otherwise in an activated pay status, retirees (on a space available basis) and, under certain specific conditions, dependents and civilian personnel.

Some people may not understand, or may be apprehensive about flying in military aircraft. The OSA fleet are almost all twin turbine Beechcraft civilian production airplanes. They are configured much like any charter or corporate airplane anywhere, and differ only in the paint scheme. Maintenance is performed by Beech Aerospace Services Inc. under an Armywide service contract. Mechanics generally hold a Federal

(See Airfield, cont'd on page 15)

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AutoCAD, Drafting (10.0 Release)	45	Electricity/Electronics, Basic	45
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Heating & Cooling (H.V.A.C.) I	45	MS-DOS, 5.0	24
House Construction	45	Programmable Motor Controls	45
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Macintosh, Introduction	24	Thurs. Night Starts Jan. 23	Hours
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Welding, Practice I	45	AutoCAD, Drafting (10.0 Release)	45
		C++ Programming	45
		(Furnish Own Compiler)	
		Cabinetmaking, Basic	45
Tuesday Night Starts Jan. 21	Hours	Heating & Cooling (H.V.A.C.) II	45
Auto Body Repair, Beginning	45	House Wiring	45
AutoCAD, Drafting (10.0 Release)	45	Macintosh, Introduction	24
Auto Tune-Up & General Maintenance	30	Plumbing (Home)	45
Brick & Block Masonry	45	Small Engine Repair	45
Drafting, Technical/or Architectural	45	Welding, Practice II	45
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MS-DOS 5.0	24		
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Review

(Cont'd from page 1)

facilitate future expansion, building a waste water treatment plant and improving the road network. There is a community/Army agreement to route Huntsville's new bypass road across Redstone which will be a major benefit to both. A construction rundown follows:

- Enlisted Club: opened March 91, cost \$2 million.
- Civilian Wellness Center: opened August 1991, cost \$190,000.
- Main PX: being renovated by Army and Air Force Exchange Service, cost \$550,000.
- Commissary: Defense Commissary Agency has just approved complete upgrade and add 6,000 square feet, cost \$3.5 million.
- Golf Course: Congress has approved NAF-funded upgrade to add nine holes, a new club house and renovate the existing 18 holes, cost \$4.6 million.
- Housing: We have programmed \$10 million (not yet approved) in new enlisted family housing in FY94.
- Physical Fitness Facility: programmed (not yet approved) \$2.5 million for 15,000 square feet in FY94.

Mission and Admin

— Just broke ground for new Systems Engineering Addition to McMorrow Lab, space for 300 people, scheduled complete December 1993, cost \$17 million.

— Physical Science Research Center (laser Lab) approved by Congress, was held up pending outcome of a DOD Lab Commission study, and has now been approved to be built. Cost \$14.5 million.

— Sparkman Center, approved by Congress, we plan to issue RFP momentarily as soon as Army gives us final go-ahead. Congress approved \$67.5 million and told us to build as big as we can for the bucks, hope it will be around 600,000 square feet.

BRAC Projects

- Office building for 1,900 people, not yet approved, funds to be requested in FY93, cost \$42 million.
- Addition to McMorrow Lab for missile fuze operations, not yet approved, funds to be requested in FY94, cost \$2.5 million.
- Weapons maintenance and operations center, not yet approved, funds to be requested in FY95, cost \$5.9 million.

Utilities

— Electrical upgrade in process will replace all substations and convert electrical system from 4,160 volts to 12,470 volts, 40 percent complete, finish in FY94, cost \$29 million.

— Just began new waste water treatment plant replacing three old ones on post, first built in DOD on leased services, complete July 1992, cost \$6 million.

The year in review by months

● January: Col. Jack Conway becomes TOW project manager; George Williams appointed PEO fire support; Desert Shield becomes Desert Storm (Jan. 16); Patriot scores first Scud intercept (Jan. 17); security tightened at entrance gates, security guards reinstalled at MICOM headquarters and other points; 450 attend MICOM "Capability Introduction" for small businesses at Von Braun Civic Center; Redstone helicopter crew rescues 15-year-old lone survivor of five occupants of plane that crashed in woods in

Bessemer; new law prohibits federal employees from receiving compensation for personal appearances, speeches or written articles; 100th Avenger fire unit rolls off production line; Tom Moore, Von Braun team member with longest tenure in Army missile program, retires.

● February: RD&E Center named best in Army; new budget shows sharp drop in Army missile procurement as several major programs buy out, others killed; MICOM wins AMC Safety Award of Honor; MICOM has 55 civilian LARS (logistics assistance reps) in Middle East; new \$2.3 million Enlisted Club opens for business; NCO Wives dedicate flag, Chapel dedicates shrine to deployed service members; new Gate 9 checkpoint opens on Rideout Road; seven Redstone soldiers return home after month-long mission to upgrade G/VLLD in Saudi.

● March: Redstone community takes pride in war-time support it provided; MICOM's senior command rep in Southwest Asia says Army missiles a big hit in Persian Gulf War; Desert Storm spouses thanked for support; Redstone has its first female firefighter; post hospital welcomes its personnel back from Saudi; MICOM contracts for third-party sewage treatment plant.

● April: Huntsville native who fought in Persian Gulf War reports his BFV had nine tank and bunker kills from 10 TOWs fired; BRAC 91 changes announced, MICOM to gain 1,884 civilian jobs; Col. Joe Mabry named deputy post commander; Hawk missile system has 35th birthday.

● May: Sen. Howell Heflin in Redstone visit says Army missile systems proved themselves in Gulf War; last Pershing II destroyed in Texas ceremony; MICOM awards \$265 million Hellfire Longbow contract to Martin Marietta-Westinghouse joint venture; Col. Norbert Bykowski is new post chaplain; Redstone Army Airfield's C-7A Caribou takes final flight to aviation museum.

● June: Redstone Arsenal has 50th anniversary; "Celebration of Patriots" held in Huntsville; MICOM wins five of seven DOD awards for value engineering achievement; Bat, self-guided submunition, announced as major new start.

● July: Missile Logistics Center marks decade of service; MICOM gives awards to its Desert Storm soldiers and civilians; Europeans react favorably to Army air defense systems and soldiers at Paris Air

Show; Procurement Directorate wins Secretary of Defense Superior Management Award; command has ombudsman working to resolve contractor and industry problems.

● August: Civilian Wellness Center opens; CSM David P. Holmes is new MICOM command sergeant major.

● September: Army terminates Ground Launched Tacit Rainbow; PFC Connie Brannock and SSgt. Dennis Andersen named Redstone's Soldier of Year and NCO of Year, respectively; post commander OKs proposed bypass road across Redstone; MICOM deputy commander Brig. Gen. Larry Capps retires; Two-day conference explores how missile technology can assist in drug-war; Chaparral radar and sensor demonstrate anti-drug plane capabilities in Florida demonstration.

● October: Clerical job reclassifications reflecting automation duties to affect 2,000 here; Eagle Picher fire delays thermal battery deliveries; Patriot Project busy supporting re-deployment to Saudi Arabia; Transition Assistance Office opens to assist transition personnel with job-hunting; Col. Arthur Meier II named RDEC deputy director; missile readiness rates reported climbing back to pre-war levels; first total-quality forum held at Von Braun Civic Center; MICOM Soldier of Year, PFC Connie Brannock, selected AMC Soldier of Year.

● November: Ground broken for 10,000 square foot addition to Redstone Scientific Information Center; Redstone Arsenal fire department named best in AMC; Alternative Work Schedule giving workers option of being off on alternate Fridays in exchange for longer work hours takes effect; final German Pershing missile eliminated; Combined Federal Campaign has record \$1,292,473 collections; Col. (promotable) James M. Link named MICOM deputy commander with Jan. 5 reporting date; Redstone selected finalist in most improved category of 1991 Army Communities of Excellence awards program.

● December: Brig. Gen. Robert Drolet, the PEO for Air Defense, defended Patriot's performance in the Gulf War in response to criticism from a professor at Massachusetts Institute of Technology; the chaplains' annual Christmas food basket drive got enough support from the community to serve about 300 families; and individuals and agencies were recognized for helping this area's Combined Federal Campaign achieve its best year ever.



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	40-44	40,000	20,000	2,000	8.00	4.00	
	45-49	30,000	15,000	2,000	10.00	5.00	
	50-54	25,000	10,000	2,000	12.00	5.00	
	55-59	15,000	6,000	2,000	12.00	5.00	
	60-64	7,500	3,500	2,000	12.00	5.00	
65-69	6,000	3,000	2,000	12.00	5.00		
70 & Over	3,000	1,500	2,000	12.00	5.00		
Two Units of Coverage	30-34	\$80,000	\$40,000	\$4,000	\$10.00	\$5.00	
	35-39	80,000	40,000	4,000	12.00	5.00	
	40-44	80,000	40,000	4,000	14.00	7.00	
	45-49	60,000	30,000	4,000	18.00	9.00	
	50-54	50,000	20,000	4,000	22.00	9.00	
	55-59	30,000	12,000	4,000	22.00	9.00	
	60-64	15,000	7,000	4,000	22.00	9.00	
65-69	12,000	6,000	4,000	22.00	9.00		
70 & Over	6,000	3,000	4,000	22.00	9.00		
Three Units of Coverage	30-34	\$120,000	\$60,000	\$6,000	\$14.00	\$7.00	
	35-39	120,000	60,000	6,000	17.00	7.00	
	40-44	120,000	60,000	6,000	20.00	10.00	
	45-49	90,000	45,000	6,000	26.00	13.00	
	50-54	75,000	30,000	6,000	32.00	13.00	
	55-59	45,000	18,000	6,000	32.00	13.00	
	60-64	22,500	10,500	6,000	32.00	13.00	
65-69	18,000	9,000	6,000	32.00	13.00		
70 & Over	9,000	4,500	6,000	32.00	13.00		
Four Units of Coverage	30-34	\$160,000	\$80,000	\$8,000	\$18.00	\$9.00	
	35-39	160,000	80,000	8,000	22.00	9.00	
	40-44	160,000	80,000	8,000	26.00	13.00	
	45-49	120,000	60,000	8,000	34.00	17.00	
	50-54	100,000	40,000	8,000	42.00	17.00	
	55-59	60,000	24,000	8,000	42.00	17.00	
	60-64	30,000	14,000	8,000	42.00	17.00	
65-69	24,000	12,000	8,000	42.00	17.00		
70 & Over	12,000	6,000	8,000	42.00	17.00		
Five Units of Coverage	30-34	\$200,000	\$100,000	\$10,000	\$22.00	\$11.00	
	35-39	200,000	100,000	10,000	27.00	11.00	
	40-44	200,000	100,000	10,000	32.00	16.00	
	45-49	150,000	75,000	10,000	42.00	21.00	
	50-54	125,000	50,000	10,000	52.00	21.00	
	55-59	75,000	30,000	10,000	52.00	21.00	
	60-64	37,500	17,500	10,000	52.00	21.00	
65-69	30,000	15,000	10,000	52.00	21.00		
70 & Over	15,000	7,500	10,000	52.00	21.00		

† The member's life insurance benefit is based on the member's attained age at the date of death as set forth in the table above. The life insurance benefit for spouses and dependents is based on the attained age at the date of death of the spouse or dependent, respectively as set forth in the table above.

†† The amount of life insurance on the spouse shall at no time exceed 50% of the amount of life insurance on the member. For members applying from Kentucky, spouse coverage is limited to the smaller of 50% of the amount of life insurance on the member and \$10,000.

††† The amount of life insurance on children ages 14 days through 6 months is 25% of the amounts shown.

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Airfield

(Cont'd from page 13)

Aviation Administration issued license. The aircraft are maintained to FAA and Army standards, which sometimes creates more stringent criteria than FAA only. They have civilian, off-the-shelf navigational systems, radios and weather radar. The pilots of OSA airplanes are both civil service and military.

Redstone's crews are somewhat representative of OSA crews. Our pilots average 42 years of age, 18 years flight experience, 5,643 hours flying time and have worldwide experience. Crews that would typically fly on commercial commuter planes out of Huntsville average 36 years of age and 5,300 flying hours, most of which is regionalized in the United States.

A detailed explanation OSA and request procedures are contained in MICOM Regulation 95-4, dated April 22, 1991. Redstone area customers can request services by submitting an SMI Form 1280, dated Aug. 1, 1991

(all other editions are obsolete). Forms can be ordered and are reproducible. You can also get forms at Flight Operations, building 4809, at the airfield. We can assist you with completing the form and your mission planning.

In addition to OSA, the Directorate of Flight Operations has non-OSA aircraft to provide other types of support to MICOM and the Redstone community.

Two C23-A Sherpa airplanes are available for cargo transport and groups of more than seven passengers. There are also UH-1H utility helicopters available to perform a variety of missions.

Missions flown by these aircraft may be on a reimbursable basis for certain agencies in the Redstone area. The determination would be based on the specific installation support agreement between those commands and Redstone Arsenal.

Redstone's helicopter crews provide VIP transport,

traffic survey and control, search and rescue, firefighting capability, medical evacuation, disaster survey and relief, photographic mission support, research and development test support, public affairs support and many other capabilities. Briefings by the Directorate of Flight Operations can be provided to agencies interested in knowing more about OSA and the other services available. For information or for assistance in mission planning, call 876-4299/1916. Forms can be faxed to 842-0562. To request a briefing, call 876-2186/2187.

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Whether you aspire to be a serious photographer or to just make clear, sharp vacation pictures, UAH's Photography Certificate Program has a course for you. A variety of courses are offered each term, ranging from the technical to the aesthetic aspects of photography, to help you develop your photographic skills.

Winter 1992 Course Offerings:

- Photographic Fundamentals**, SE 0260-13, 1/15-3/4, Wed., 6-8 pm, Madison Hall 223, \$84
- Applied Photography**, SE 0251-07, 1/21-3/10, Tues., 6-8 pm, Madison Hall 309, \$84
- Black & White Photography**, SE 0482-03, 1/14-3/3, Tues. & Sat., 6-8 pm (variable), Spragins Hall 206, \$86

For more information about these courses or UAH's Photography Certificate Program, call the Personal Development office at 895-6355. To register, call 895-6010. Visa and MasterCard accepted.



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T&G

Space museum offers free admission to Army workers

Redstone government employees — including Army and NASA workers — and their families can visit the U.S. Space & Rocket Center for free during January and February.

From Jan. 1 through Feb. 29, federal employees and their accompanying family members can gain free admission to the space and rocket center by displaying their badge at the center's guest services desk. The offer extends to Army employees — including those at Huntsville's Strategic Defense Command — and NASA workers but not to contractor employees, according to Pheaton Guinn, manager of advertising and promotions at U.S. Space & Rocket Center.

Admission entitles the employees and their families to all of the regular features of the center to include seating at the Omnimax movie "Blue Planet," a self-guided tour through the space museum, and the narrated bus tour through Redstone/Marshall Space Flight Center.

OWC garden club wins recognition

The Officers Wives Club's Garden Club received honorable mention for its tree on Christmas Tree Lane.

President Cindy Pannier made that announcement at the OWC Garden Club's December meeting which was held at the home of Helen Fries. Gifts were exchanged at the end of the business meeting.

Helen Charles and Brigid Iannuzzi were hostesses for the event.

Ed Buckbee, director of the space and rocket center, issued the invitation in a Dec. 24 letter to Maj. Gen. William Chen, commander of the Missile Command and Redstone Arsenal. "Now, in the midst of a joyous holiday season, thoughts turn to family and friends. As director of the U.S. Space & Rocket Center and U.S. Space Camp, it is only natural that my thoughts and those of the board membership should turn to our friends at the U.S. Army Missile Command and Redstone Arsenal," Buckbee wrote. "Reflecting upon the tremendous assistance you and your associates gladly provide throughout the year to Space Center management and staff, it seems appropriate that we should, during this season of goodwill, reciprocate such acts of kindness.

"It is the consensus of the Alabama Space Science Exhibit Commission and executive management of the U.S. Space & Rocket Center, to extend a special invitation to our friends at Redstone. During the months of January and February, any Army Redstone employee, upon displaying their badge, shall receive free admission to the U.S. Space & Rocket Center. Additionally, any of the employee's accompanying, immediate family shall likewise receive free admission," Buckbee stated.

Located at One Tranquility Base in Huntsville, the U.S. Space & Rocket Center is open seven days a week from 9 a.m. to 6 p.m. It can be reached at 837-3400.

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Shop your local commissary and save over \$14 on your favorite Procter & Gamble brands. And for each coupon you redeem, we'll donate 10¢ to the Special Olympics. Plus, mail in 10 UPC symbols from any of these Procter & Gamble brands and the refund coupon available at the commissary, and we'll mail back a \$3.00 refund or make a \$3.00 cash donation to the Special Olympics. It's your opportunity to get special savings and contribute to a special moment.

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Announcements

Blood drive

E Company, 832nd Ordnance Battalion, will hold a blood drive for the American Red Cross Jan. 10 from 6 a.m. until noon in the day room of building 3435 W. For more information call 1st Sgt. Larder 842-2219.

Officers wives

The Officers wives club will meet Tuesday, Jan. 14 at the Officers Club. There will be a mini-sign-up for craft classes beginning at 10:30 a.m. followed by a luncheon and program featuring Huntsville newswomen Linda Allen, Chris Hall and Erica Lathon. Cost is \$6.25. For reservations call Suzanne Bessler 721-9362, Martha Fisher 772-8255 or Sonia Taylor 722-8134 by Jan. 10.

Logistics engineers

Tennessee Valley Chapter of the Society of Logistics Engineers (SOLE) will have a luncheon meeting from 11:30 a.m. to 1 p.m. Jan. 15 at the Madison Square Holiday Inn. Jim Flinn, director of the Integrated Materiel Management Center, is to speak on "Logistics in the '90s." For reservations call Richard Oljey 461-6209, Roberta Peek 895-3072 or Marilyn Phillips 842-6777.

832nd families

The 832nd Ordnance Battalion Family Support Group will meet 7 p.m. Thursday at the Recreation Center. "Come dressed tacky; the tackiest outfit wins a prize."

Bowling center

Redstone's All-Star Bowling Team will be determined Jan. 21-24 at 1 p.m. at the bowling center, building 3707. There will be seven games per day for a total of 21 games. "Remember, you must be active duty, a member of at least one league at Redstone Lanes and bowl three out of four days." For more information, call 876-6634.

HHC 832nd command

Capt. Vanessa Engquist will relinquish command of Headquarters and Headquarters Company, 832nd Ordnance Battalion to Capt. Dana Allison in a change of command ceremony at 4 p.m. Friday at the quadrangle behind building 3435. In the event of inclement weather, the ceremony would be held in Pagano Gym. All interested persons are invited. For more information, call SFC Susan Willis 876-8468.

Motorcycle safety course

A motorcycle safety course will be offered 8 a.m. to 2:30 p.m. Feb. 8 at building 3222. Course completion is required to operate a motorcycle on post. To register call 876-3084 or stop by the MOS Library, building 3324. Civilians must pay \$15 to register, and military personnel must show their I.D. For more information, call Marilyn Lewis 876-3084/8838.

Job information

Army Community Service will hold its monthly job information day Jan. 14 in building 3491 from 8 to 11 a.m. Representatives from Civilian Personnel and the Non-Appropriated Fund will be available to answer questions about employment and give information about job opportunities. At 1 p.m. there will be a seminar on completing a Standard Form 171 (Application for Federal Employment). This program is geared primarily toward military spouses who are new to the Huntsville area. For more information, call 876-5397.

Government accountants

North Alabama Chapter for the Association of Government Accountants will meet Jan. 16 at the Huntsville Hilton. Social time begins at 5:30 p.m., and the program at 6:15. Scheduled speaker is Ira Williams of IBM Corporation. He is participating in the Loan Executive Program as executive dean, School of Business and vice president for business and finance at Alabama A&M University. For reservations call Terry Rains 955-5894 or any reservation member.



Engineer Run races

The ninth running of the Engineer Week 5K (3.1 mile) and 10K (6.2 mile) events will be held Feb. 22 on Redstone Arsenal. Dr. David Branham, the director of engineering and housing here, has been named to head up the 1992 event which benefits the scholarship fund of the Society of American Military Engineers. Prime sponsor for the 1992 Engineer Run is Lockwood-Greene.

ACS news

Education Committee: The Army Community Service Education Committee will meet 7 p.m. Jan. 15 at ACS, building 3491. For more information call Dr. William Resha, liaison officer for youth education at Redstone Arsenal, 876-9289/5397. **Tax assistance volunteers:** ACS is seeking volunteers for the 1992 Volunteer Income Tax Assistor (VITA) Program at Redstone Arsenal. Volunteers should be good with numbers, have some experience with tax preparation, and be willing to contribute no less than four hours weekly to provide income tax assistance from Feb. 4 through April 14. Each volunteer will receive approximately 20 hours of training, and be tested on tax preparation ability. Volunteers who pass the screening will then prepare federal and state income taxes for soldiers, retirees and their family members. If interested in assisting, call Dan Kelly or Norma Dalton 876-2859.

AUSA meeting

U.S. Rep. Bud Cramer, 5th district of Alabama, is scheduled guest speaker for the Jan. 15 meeting of the Association of the U.S. Army. The meeting, with a social hour at 6:30 p.m. and dinner at 7:30, will be held at the Officers Club. All AUSA members are encouraged to attend. "Additionally, those members of the general public interested in the affairs of the Army as they relate to the Huntsville community are invited to attend." Cost of the dinner will be \$17 per person. For group or individual reservations, call Mae Galloway or Doug Grice 883-7520.

Women's Network

The Women's Network of Huntsville, local affiliate of the National Association of Female Executives, will meet Thursday at the Huntsville Hilton. Social time begins at 5:30 p.m. with dinner served at 6. John Haley, president of Lees-Haley Inc., is to speak on "Strengthening the Net: A Teambuilding Night." For more information, call Patty Schuessler 837-9367 or Cheryl Crabb (evenings) 882-1341.

Young apprentices

The Science and Engineering Apprentice Program (SEAP) places academically talented high school students with interest and ability in science and mathematics as apprentices in Missile Command laboratories for an eight-week period during the summer. MICOM scientists and engineers serve as mentors to guide students through research in physics, chemistry, engineering, computers and mathematics. The SEAP will begin at MICOM Friday, June 19 and end Friday, Aug. 14. The deadline for postmarking applications is Jan. 31. Children of government employees, including military dependents, are eligible to participate in this program. Applications have been mailed to senior counselors at high schools in north Alabama. Persons not covered by this distribution should write or call Dr. Katie Blanding at the Missile Command, AMSMI-RD-WS-AA, Redstone Arsenal, Ala., 36898-5248, phone 876-9296.

Civilian Wellness Center

"Eat For Life" is a weight maintenance program for all who are interested in learning how to eat properly for a lifetime. Classes begin Tuesday, Jan. 21 at 4:30 p.m. or Thursday, Jan. 23 at 11 a.m. The program will be held in the TV room at the Recreation Center, building 3711, and is open to Wellness Center members. Call the Wellness Center soon to register 955-6844. **Aerobics class:** Burn off some of those holiday calories with aerobics. The Civilian Wellness Center offers classes free of charge to members on Mondays, Wednesdays and Thursdays at the old post gym, building 5663, at 4:45 p.m. Call the Wellness Center for more information 955-6844.

Resource management seminar

The American Society of Military Comptrollers (ASMC) will hold its sixth annual Resource Management Seminar Feb. 13-14 at the Sheraton Inn at Huntsville International Airport. Dr. John Kline from Maxwell Air Force Base in Montgomery is the scheduled seminar leader for the Feb. 13 session; and Dr. William Halbert of Halbert & Associates is to be seminar leader Feb. 14. "These one-day seminars are designed to enhance the participant's understanding of the challenges within resource management." Training form DD 1556 must be submitted to AMSMI-PT-CP-TC by Jan. 10. Cost of the seminar is \$50 for ASMC members and \$75 for non-members. "Please note that CPO will approve only one seminar session per person." For more information, call Christy Perkins 895-4957 or Jane Greer 876-0623.

Post Theater movies

Thursday — *Curly Sue*, rated PG, 99 minutes. Friday — *Curly Sue*. Saturday — *House Party 2*, R, 94 minutes. Sunday — *House Party 2*. Tuesday — *The Hitman*, R, 93 minutes. All shows begin at 7 p.m. Admission is \$1.50 for adults, \$1 for children.

OWC merit awards

Officers Wives Club will present one or more Merit Awards to eligible graduating high school seniors who plan to attend an accredited college or vocational school and to undergraduate college students working toward a degree. Applicants must be family members of active duty, retired or deceased commissioned or warrant officers. Their primary residence must be with parents or parent residing at Redstone Arsenal or in the Huntsville area. The mothers of the students must maintain a continuous membership in the Redstone Arsenal OWC. Merit award applications are also available for OWC members who have been accepted or are attending an accredited college or university as an undergraduate or graduate student. The deadline to apply for merit awards is March 13. For an application or more information, contact Beverly D'Anna, merit awards chairman, 51 Bomford Drive, Redstone Arsenal 35808; phone 830-1970.

Union meeting

AFGE Local 1858 will hold its monthly membership meeting Jan. 13 at 5:30 p.m. in building 7132 (union office). For more information, call 876-4880.

Worth Repeating

"When you see a rattlesnake poised to strike, you do not wait until he has struck before you crush him."

—Franklin D. Roosevelt,
U.S. president

"The problems of victory are more agreeable than those of defeat, but they are still no less difficult."

—Winston Churchill,
British prime minister

"We call Japanese soldiers fanatics when they die rather than surrender, whereas American soldiers who do the same thing are heroes."

—Robert M. Hutchins,
U.S. educator

"I know as few other men now living know it, and nothing to me is more revolting ... But once war is forced upon us, there is no other alternative than to apply every available means as to bring it to a swift end. War's very object is victory, not prolonged indecision."

—Gen. of the Army Douglas MacArthur,
U.S. Army

"Train in difficult, trackless, wooded terrain. War makes extremely heavy demands on the soldier's strength and nerves. For this reason make heavy demands on your men in peacetime exercises."

—Gen. Erwin Rommel,
German army

Do You Know

When did the Desert Storm ground war begin?
Feb. 24, 1991

What five cities in the world have the largest populations?
Tokyo, Mexico City, Sao Paulo, Seoul and New York City

Where will the 1992 Summer Olympics be held?
Barcelona, Spain

Where will the 1992 Winter Olympics be held?
Albertville, France

Who was the first U.S. general to land on the beaches on D-Day, for which he was awarded the Medal of Honor?

Brig. Gen. Theodore Roosevelt Jr., USA



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classifieds

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.

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

WANTED: World War II German militaria, such as daggers, swords, medals, decorations, uniforms, etc. Finder's fee considered. Call Jerry at 830-0950.

FOR SALE: Ben Hogan Apex 1980 golf clubs, 2-PW with SW, cord grip. \$150. 539-9346 after 6:30 p.m.

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WANTED: A used IBM or clone laptop (AT or 386) computer having a hard drive and high density floppy drive for about \$300. Will consider non-working hardware. 852-0344, Don.

FOR SALE: Rear truck mud flaps, brand new, \$15; CB radio with ANL and quick access Ch. 9, \$12; Radio control airplane with 4 servos, Airtronics 4/6 servo transmitter with battery strength indicator, receiver, and batteries, \$150; Blue custom Astro Van front floor mats, \$20; Two 3.5" computer disks plastic files, \$4; Maple china cabinet, \$100; Sony Betamax VCR with 22 tapes, \$100; Bentley 5" TV with transformer, can use batteries or car cigarette lighter, \$30. These items are in excellent condition. Call 837-6625 and leave message.

FOR SALE: 1965 Grammer guitar. Collector's item. 6-string acoustic, with hardshell case. \$650. 539-9346 after 6:30 p.m.

WANTED: IBM XT compatible 10M hard drive and controller, half height. Call 883-5564.

FOR SALE: 12" black and white Zenith TV, \$35; Universal parallel interface card for the Apple series, \$70; IBM XT compatible computer. Call 883-5564.

FOR SALE: 1989 Hyundai. Automatic, low miles, 4 cylinder, air conditioning, make offer. 852-5015.

FOR SALE: Sectional sofa, tan and blue, like new. \$500. 233-1068.

FOR SALE: 1984 Mercury Cougar XR-7. White, 5 speed, turbo, 88K miles, new tires, \$2800 or best offer. 461-0773 after 5 p.m., leave message.

FOR SALE: Apple IIe computer with keyboard, composite color monitor, mouse and 5.25 drive. Numerous games included. \$500 or best offer. 880-2412 after 6 p.m.

WANTED: 1984-88 VW Diesel, will consider one needing engine repair. (615) 967-8446.

FOR SALE: Six month old America series, Motorola cellular telephone with hands-free speaker phone. \$125 or best offer. Must sell. 830-4771 and leave message.

FOR SALE: Shorelander tandem axle trailer, carries a 24' Searay with ease. Paid \$1800, sell for \$1200 or best offer. 881-1810 to see/buy.

FOR SALE: 3 male Pomeranians with AKC papers. Asking \$125 each. For more information call 837-4018.

FOR SALE: 35mm single lens reflex Konica Auto-Reflex T camera with case, flash, standard and 35-80mm zoom lenses, and original manual. \$175 or best offer. 883-5309 after 6 p.m.

FOR SALE: Apple IIc computer system complete with mouse, joy stick, Applied Engineering 256K ram card with CPM, imagewriter printer, and over \$1000 in productivity, educational and game software, \$850 or best offer. Computer table, \$75. "Back-ease" computer chair, \$30. 883-5309 after 6 p.m.

FOR SALE: Marantz stereo (tuner, cassette deck, and amplifier) in glass front case, like new. \$350 or best offer. 883-5309 after 6 p.m.

FOR SALE: "Where in the World is Carmen Sandiego?" software, deluxe edition, new and perfect IBM/Tandy version, sell for \$40. Call 883-5309 after 6 p.m.

FOR SALE: 1988 Honda Civic, 5-speed, all power, air, cassette. Extra clean. 33 mpg/highway. Good commuting car. \$7000. 233-1068 after 5 p.m.

FOR SALE: Kerosene heater, 10,000 BTUs, \$79; 1988 World Book encyclopedia, 21 volumes plus research guide and index, \$399; Sturdy computer tables with shelves, \$59 each; Easy chair with cushion, plastic chairs, TV cart, light fixture, headboard, mattress, reasonable prices; Exercise bike with timer, \$59; Girl's bike, \$25; RCA video camera and portable VCR, will sell together or separately; Sanyo stereo am/fm radio and tape player/recorder, boom-box style with two speakers, \$49; Tape control center, \$10. 883-6951.

FOR SALE: Shoei fullface motorcycle helmet, matched pair, red, new in the box, cost \$250 each, sell pair for \$300. 1 small, 1 other is xlarge. Call (205) 859-3267.

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FOR SALE: Norinco AK47, .223 caliber, new in box, includes 3 clips, sling, bayonet, 100 rounds, \$450 firm; Two 19" color Sharp TVs, need flyback transformers, \$50 for both or best offer; solid wood bedroom dresser and mirror with matching headboard for full size bed, \$150; Rumanian hand-made hall runner, approx. 9.5x30", floral pattern with medium blue and cream as primary colors, \$300 firm; F. te Somma waterbed, adjustable to any firmness, waveless, needs no heater, uses regular full size sheets, must sell, \$400. 883-1510.

FOR SALE: Montgomery Ward (made by Sharp) 19" stereo A/V monitor TV, \$250. 880-3607.

FOR SALE: 1987 Cutlass Ciera Brougham, V6, 3.8 liter, power seat, am/fm tape, power locks and windows, cruise, tilt, dark burgundy, \$5100. 498-3240.

FOR SALE: 1989 Toyota Tercel EZ. Extra clean, 74K miles, air conditioned, am/fm stereo cassette, 4 speed transmission, 1500 cc (4 cylinder) engine. Asking \$3800. 837-5116.

FOR SALE: Schunk, wall unit, 12'8" long, 2' wide, 7-8' high, dark modern style wood, has closed bar, china, crystal, TV area and plenty of book space. Other miscellaneous items. \$250. 880-2018.

FOR SALE: 1973 Mercury Monterey. 4-door, 24,600 actual miles, excellent condition, \$3000 firm. 536-4718.

FOR SALE: Extra firm queen size box springs and mattress with metal frame, \$250. 536-4718.

FOR SALE: 1987 Honda Prelude, fully loaded, 5-speed, tinted windows, low miles, two owners, priced to sell, \$6900. 880-2018.

FOR SALE: Kimball piano, artist console, excellent condition and sound, recently tuned, beautiful finish, must see, \$1100; Solid oak bed, queen or full-size, headboard and footboard, medium dark finish, 25 years old, excellent condition, \$300. 880-2018.

FOR SALE: Silver 1989 Pontiac Grand Prix SE. Power everything, leather interior, tinted windows, stereo cassette player with 5-band equalizer, one owner, 45K miles. Excellent condition. 837-1574 after 5 or on weekends.

FOR SALE: Female Rottweiler, 1 1/2 years old. Very sweet temperament, good with kids. Friendly and loveable. Asking \$100. 379-2168 after 5:30 p.m.

FOR SALE: New contemporary sofa with Scotchguard, \$500; Eight accent pillows, blue, green, mauve and off-white, \$25; Early American living room sofa and matching club chair, \$150; Rust swivel rocker, \$50; Coffee table and two end tables, \$75 for all three; Never used floor lamp, brass with mauve shade, \$40; Cobra trap-shooter radar detector, \$50; Electric iron, \$10. 852-3633, leave message.

FOR SALE: 1976 Chevy pick-up with extended bed, stepside with tool bin, 3 speed floor shift, 350 CID, B.F. Goodrich all-terrain tires. \$995. 881-5745 after 5 p.m.

FOR SALE: Five piece sectional sofa, champagne color, moving, must sell, \$350. 883-1814 after 5 p.m.

FOR SALE: Baseball and football cards to trade or sell. Singles of 87 Topps BB, 90 Fleer BB, 91 UD FB, 91 Topps BB, 91 Topps (Desert Shield) BB, 91 Studio BB, 89 Topps BB, 90 UD Looney Tunes, Topps Desert Storm (Series I, II, III), 91 Fleer Ultra FB, 91 Pacific FB, 92 DR BB, 92 UD Basketball, 91 Topps Stadium Club FB, 91 Pro Set FB (Series I, II) and 92 Topps BB. 883-9283.

FOR SALE: 1987 Isuzu pick-up with topper on back. 4 speed, 33 mpg/highway, towing ball with light hookup, low mileage. Less than 8K miles on new tires. \$4200. 883-9283.

FOR SALE: Two open faced, used motorcycle helmets, 1 for \$15, other for \$6. Call (205) 859-3267.

FOR SALE: 1982 Ford E-100 Custom Van. Power steering and brakes, air conditioning, two 15 gallon gas tanks, towing ball with light hook-up, 302 engine, cruise control, carpeted, dual fans inside, small overhead storage space, and bench seat in rear that folds down into a bed. \$4300. 883-9283.

FOR SALE: 5 piece Ludwig Rockers drums with 5 Sabian cymbals and hi-hat. Gibraltar rack. Drum workshop hardware. All drum, cymbal, rack and hardware cases. Also, 2 Shure SM57 Mic's, 1 electro-voice N/D357 Mic, 1 V-Tech VT-1040 Mic. All mic mounts for drums. Extra heads and cowbell with mount. All for \$1200 or will sell Mic's separately. 776-3297.

FOR SALE: 1985 Pontiac Bonneville. 305 engine, air conditioning, tilt steering, am/fm radio, power brakes and steering, Michelin tires and new battery. 45K actual miles, excellent condition. \$4000. 828-3196 after 5 p.m.

FREE PUPPIES: Mixed German Shepherd/Chow. Puppies were born November 3 and are excellent with children. 859-3016 after 5 p.m.

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FOR SALE: 1988 Kawasaki Mojave 4-wheeler, excellent condition, \$1600. 753-6656 after 6 p.m.

FOR SALE: 11'6" x 6' black Oriental rug, \$75; Kenwood KT-428 tuner, \$70; Kenwood KT-52B amplifier/controller, \$70; MCS 3300 equalizer, \$40. 721-0812.

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SHOW HOME! Positively gorgeous was the comment of our sales staff when they toured this 3 bedroom beauty. Custom drapes, paper and design highlight this 1920 sq. ft. ranch on 2 1/2 acres. \$108,865. (2756 CL)

CLOSE TO EVERYTHING! Beautifully situated on an oversized wooded lot near Madison Square Mall and Research Park. This location provides a new way of life where the things you like to do are all around you. \$16,777 Equity. Assume 9.5% Non-Qualifying FHA Loan. (202 F)

GENTLEMAN FARMER! Don't miss this nice "spread" with its barn, lake, stream and 8 fenced acres. This 5 bedroom colonial features study, den with fireplace, 24x15 master suite with stone fireplace and screened porch. \$199,000. (1638 AH)

UNMATCHED VALUE! Compare this like-new 3 bedroom Brick Rancher with what you've seen. 1 acre corner lot with mature trees, new heat pump, 3 year old carpet and roof, formal living and dining room at \$74,900. You'll agree its more for your money. (301 P)

A TOUCH OF CLASS. Every aspect of this 3 bedroom Country Style home spells luxury living. Cheerful family room with brick fireplace and beams, downstairs master suite with Jacuzzi and 1 acre lot. \$115,556. (101 MP)

ROOM FOR EVERYTHING. You and your family can entertain or enjoy hobbies without tripping over each other. There's 4 bedrooms, rec room, study, full basement and fenced yard. King-sized in everyway, but priced at only \$59,900. (2815 GG)

WHERE DREAMS BEGIN. This affordable home is also in a good location. For around \$600 per month you get a less than 5 year old custom brick house on almost an acre yard, 2 car garage, 3 bedroom, 2 bath, eat-in kitchen with refrigerator. \$68,700. Linda Hislop 883-1444 or 539-0643. (221 GR)

\$6732 EQUITY/ASSUME 8% VA. Bright sunny kitchen with stunning cabinets highlight this 3 bedroom ranch. Move right in to this tastefully decorated home. High 60's. Call Olivia at 461-0369. You'll be glad you did. (13090 HD)

WALK TO HIGHLANDS SCHOOL. A "must see" for younger families who

wish to be close to what's happening. You'll be thrilled with the beauty of this 3 bedroom brick home with hardwood floors in living room and clothes care center near kitchen. \$60's. Call Olivia 461-0369. (4424 Mc)

SUPER CLEAN & SHARP! You'll see the love and care in this all brick home. Private patio and large yard is perfect for a family playground. 20x20 den with fireplace, 2 1/2 baths and 1 Year Warranty. Mid 70's. Linda Green 551-8811 or Carol McNamee 852-0815. (3907 N)

NEW ROOF/12x16 DECK. Only \$48,900 will make you the proud owner of this 3 bedroom ranch with inside laundry & fenced yard. 1 Year Warranty included in price. 1 owner home! Call Carol McNamee to see it today! 852-0815. (5018 KL)

APPROXIMATELY 1.42 ACRES. Wooded lot to build your dream home, located on quiet cul-de-sac, minutes from Research Park and the super mall. Only \$17,000. Call Carol McNamee at 852-0815/539-0643 for more information. (118 S)

DESIGNED TO DAZZLE. This new listing is a super sharp 1 1/2 year old, 3 bedroom, brick custom designed model home with marble fireplace, deck and many other amenities. Priced for quick sale at \$75,900. Jerry Madison 883-4229. (101 G)

COUNTRY IN THE CITY. Beautiful 2430 sq. ft. home on approximately 3 acres fenced and 3 stall shed for horses. 4 bedrooms, 2 bath, large family room, dining and kitchen, 16x32 inground pool. Covered deck. Great buy at \$148,500. Call Jerry Madison 883-4229. (112 FR)

READY TO BUILD. 7.5 acres on Old Railroad Bed Road. To see, call Jerry Madison 883-4229. (ORR)

IN APPLE PIE ORDER. Country 4 bedroom, 2 bath home in perfect condition. 23x12 living room, 14x14 family room, country kitchen, approx. 1 acre with fruit trees. Over 2200 sq. ft. for \$73,900. Call Jerry Madison 883-4229 or John Smith 859-6512. (373 FL)

VIEW OF GUNTERSVILLE LAKE. Situated on a large wooded lot, this contemporary basement rancher features 3 bedrooms, 2 baths, 2 car garage, moss rock fireplace, balconies, a great winter view of the Tennessee River. \$89,900. Call John 883-4229 or Jerry 859-6512. (346 MH)

COMMERCIAL BUSINESS. Handy food store. Business equipment and stock all for \$18,000. Call Jerry Madison 883-4220. (AA)

38 ACRES w/POND & CREEK plus almost new brick home with approximately 3400 sq. ft. Call Brenda 880-9955 or Janice 881-8675. Mid \$100's. (2117 PR)

JUST RIGHT for a young couple's first home. 3 bedrooms, 2 full baths, den with fireplace, front porch and in mint condition. \$63,000. Nellie 534-4901. (2902 D)

BREATHTAKING describes the landscaping surrounding Landmark's Home Of The Week. This 4 bedroom, 2100 sq. ft. home features a 1 Year Warranty and den with fireplace. Mother Nature gave her all at only \$114,900. Gene Arvin 533-6973. (1818 E)

COUNTRY CONNECTION. Refreshing 3 bedroom ranch in the Harvest Area features great room with vaulted beamed ceiling, stone fireplace and new central heat and air. \$62,875. (104 B)

\$11,500 EQUITY/GREAT SCHOOLS. Immaculate 3 bedroom home in Meridianville. Energy package, stone fireplace and loads of storage. Only 3 1/2 years old with assumable 10% FHA fixed rate loan. \$78K. Call Susan today at 651-4957/539-0643. (104 ED)

CUSTOM BEAUTY ON 1 1/2 ACRES. 4 year old brick 3 bedroom home with fireplace, formal dining, isolated master suite with whirlpool tub and 22x6 laundry room with plenty of storage. \$106,900. Susan 882-9918. (R981SR)

PEACEFUL COUNTRY SETTING in Monrovia area. 3 bedrooms, 2 baths, new carpet, oak cabinets. Trees galore! 1492 sq. ft. \$84,500. Call Rosemary 881-3079. (550 CR)

LOVELY CUSTOM BUILT Basement Rancher, huge wooded lot. Fantastic value per sq. ft., 4 bedrooms & study, 4 baths, 2 fireplaces. 3581 sq. ft. \$129,000. Call Rosemary 881-3079. (11002 R)

CHARMING BRICK RANCHER absolutely perfect. Gorgeous cab in kitchen and bath, new roof, chem lawn, neat landscaping & garden. \$114,000. Call Rosemary 881-3079. (8803 S)

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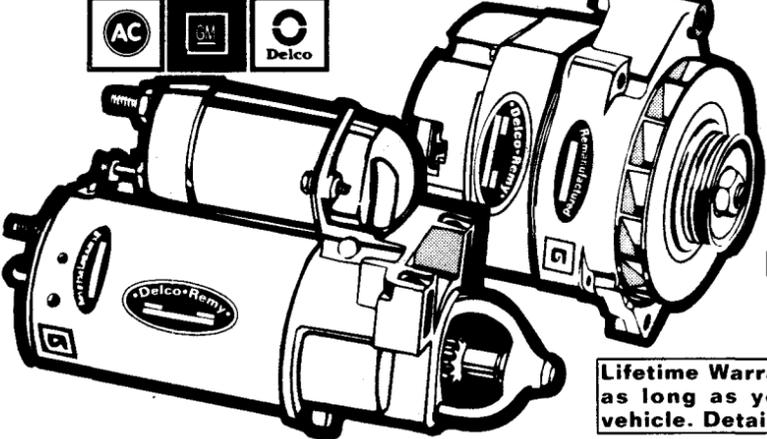
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MICHELIN XA4 All-Season Steel Radials 2 Steel Belts P165/80R13 14.21 P185/70R14 17.41 P195/75R14 22.54 P205/70R14 29.68 P205/75R14 27.43 P215/75R15 32.49 P225/75R15 35.25 P235/75R15 39.81 <small>17-4130 series</small>	MICHELIN Ultra 770 All-Season Radial 65,000 MILE P175/70SR13 39.99 P185/70SR13 41.99 P195/70SR13 43.99 P175/70SR14 43.99 P185/70SR14 45.99 P195/70SR14 47.99 P205/70SR14 49.99 P215/70SR14 51.99 P215/70SR15 54.99 P225/70SR15 56.99 P235/70SR15 60.99 <small>16-9200 series</small>	MICHELIN Deluxe Sport Radial 30,000 MILE 23⁹⁹ <small>155/80SR12</small> 155/80SR13 25.99 165/80SR13 27.99 175/70SR13 28.99 185/70SR13 32.99 185/70SR14 33.99 <small>16-5700 series</small>	MICHELIN Ultra Sport Metric All Season Radial 50,000 MILE 155/80SR13 30.99 165/80SR13 32.99 175/80SR14 37.99 185/80SR14 38.99 175/70TR13 33.99 185/70TR13 37.99 185/70TR14 38.99 195/70TR14 43.99 205/70TR14 44.99 <small>16-9700 series</small>	MICHELIN Ultra STR Metric All Season Radial 60,000 MILE 155/SR12 34.99 155/SR13 35.99 165/SR13 36.99 175/70TR13 37.99 185/70TR13 41.99 185/70TR14 42.99 195/70TR14 47.99 <small>16-9750 series</small>	MICHELIN XZX/MXL Steel Radials 2 Steel Belts 145/SR13 35.99 155/SR13 40.99 175/70SR13 55.99 185/70SR13 61.99 185/70SR14 66.99 195/70SR14 70.99 <small>17-4181 series</small>	MICHELIN EPX Steel Belted Radial 195/70R14 82.37 205/70SR14 86.38 215/60SR14 89.00 225/60SR14 96.38 225/70SR14 96.38 215/60SR15 92.08 235/60SR15 99.82 <small>17-4101 Series</small>
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Performance Radial GT All-Season 40,000 MILE RWL P205/60SR13 48.99 P235/60SR14 64.99 P215/65SR15 63.99 P235/60SR15 66.99 P275/60SR15 73.99 P175/70SR13 43.99 P195/70SR14 54.99 P205/70SR14 55.99 P215/70SR15 57.99 P215/70SR14 59.99 P225/70SR15 63.99 P235/70SR15 65.99 P255/70SR15 67.99 <small>16-9300/9400 series</small>	Performance GTH H-Speed Rated 35,000 MILE P185/60HR14 50.95 P195/60HR14 58.95 P215/60HR14 61.95 P195/60HR15 56.95 P205/60HR15 60.95 P215/60HR15 62.95 P215/65HR15 63.95 <small>16-9300 series</small>	FILKEN FK06U/KF05G High Performance 185/70 13 53.95 185/70 14 56.95 195/70 14 62.95 185/60 14 69.95 195/60 14 73.95 195/60 15 79.95 205/60 15 86.95 215/60 15 89.95 225/50VR 16 159.95 245/50ZR 15 189.95 <small>17-8979 series</small>	LIGHT TRUCK TIRE BUYS! <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Tread Design</th> <th>Tire Size</th> <th>Stock No.</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>All-Terrain</td> <td>LT235/75R15</td> <td>18-9101-9</td> <td>72.97</td> </tr> <tr> <td>All-Terrain</td> <td>30x9 50R15</td> <td>18-9102-7</td> <td>73.97</td> </tr> <tr> <td>All-Terrain</td> <td>31x10 50R15</td> <td>18-9123-3</td> <td>74.97</td> </tr> <tr> <td>All-Season</td> <td>P235/75R15XL</td> <td>18-8016-0</td> <td>64.97</td> </tr> <tr> <td>Highway Bias</td> <td>7.50x16TT</td> <td>18-7018-7</td> <td>50.97</td> </tr> <tr> <td>Highway Bias</td> <td>7.00x15TT</td> <td>18-7012-0</td> <td>42.97</td> </tr> <tr> <td>Highway Bias</td> <td>H78-15</td> <td>18-7016-1</td> <td>50.97</td> </tr> <tr> <td>Traction Bias</td> <td>L78-15</td> <td>18-9017-7</td> <td>54.97</td> </tr> </tbody> </table>	Tread Design	Tire Size	Stock No.	Price	All-Terrain	LT235/75R15	18-9101-9	72.97	All-Terrain	30x9 50R15	18-9102-7	73.97	All-Terrain	31x10 50R15	18-9123-3	74.97	All-Season	P235/75R15XL	18-8016-0	64.97	Highway Bias	7.50x16TT	18-7018-7	50.97	Highway Bias	7.00x15TT	18-7012-0	42.97	Highway Bias	H78-15	18-7016-1	50.97	Traction Bias	L78-15	18-9017-7	54.97	BFGoodrich All Terrain Truck Radial 89⁹⁹ 235/75R15 99.99 30x9 50R15 98.99 31x10 50R15 108.99 31x10 50R15 6 123.99 32/11 50R15 6 117.99 33/12 50R15 6 129.99 <small>18-3333 ser.</small>	MICHELIN XCH4 Light Truck Radial LT215 75R15 6 101.99 LT235 75R15 6 108.99 30X9 50R15 112.99 31X10 50R15 124.99 LT215 85R16 8B 121.99 LT235 85R16 10B 140.99 32X11 50R15 133.99 <small>18-4610 series</small>
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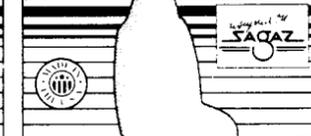
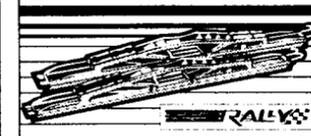
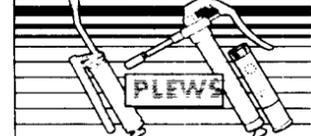
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