

The Redstone Rocket

Vol. 32 No. 8

Published in the interest of personnel at Redstone Arsenal Al.

July 20, 1983

Command change set Tuesday

Maj. Gen Robert L. Moore will be promoted to lieutenant general and turn over command of MICOM to Maj. Gen. Jerry Max Bunyard in a change of command ceremony at 9 a.m. Tuesday, July 26, in front of headquarters building 5250.

Moore will move to Washington to become deputy commanding general for research, development and acquisition at DARCOM. Bunyard has been serving as Patriot project manager.

Buses are to go to major buildings on post to pick up MICOM people who would like to attend the half hour ceremony.

Officials invited to attend include Gen. Donald R. Keith, DARCOM commanding general; U.S. Rep. Ronnie Flipppo; Huntsville Mayor Joe Davis and Madison County Commission Chairman Mike Gillespie.

After the change of command ceremony there will be a reception, by invitation only, at the Officers Club.

Reception attendees holding a green or gold parking permit will be parked in the upper two lots. The lower officers club lots, the golf course lot and parking lots adjacent to Occupational Health (building 114) and RASA headquarters (building 112) will be available for all others. The Officers Club will serve lunch following the reception on a reduced scale. The NCO Club is available for Officers Club patrons who may wish to dine there that day.



PICNIC FUN—Everybody had fun in their own way at the MICOM Picnic. Jimmy Grube, Corry Cass and Carrie Grube seem to be having a good time just sitting atop a barbecue pit. Jimmy, 5, and Carrie, 2,

are the children of Maj. Richard Grube. Corry, 3, is the daughter of Col. Stanley Cass. For more on the picnic see pages 10-11.

New Caribou arrives, old one goes to museum

BY SKIP VAUGHN

The arrival of a C-7 Caribou at Redstone's Army Airfield Friday afternoon marked the end of an era.

That twin reciprocal engine, propellar driven aircraft replaced an older model with a colorful history. "It's been in continuous service since 1956 and it's earned a rest," said Lt. Col. William Laird, the airfield commander.

The old "Y-model" prototype Caribou was one of the first such aircraft purchased by the Army. It was the first Caribou in Vietnam, Laird said, and served

as the VIP aircraft for the president of South Vietnam.

When the aircraft returned to the states, it was here at Redstone for a while, then it left to support the "Silver Eagles" helicopter demonstration team. That accounts for its blue and white color. While with Redstone in 1981, the aircraft went down in a rural cottonfield. It was later repaired.

"That Y-model will be going to the Air Force Museum at Pope Air Force Base near Fort Bragg, N.C.," Laird said of the plane's retirement place.

He served as co-pilot in flying the newer C-7 Caribou here from the U.S. Air Force Reserve at Maxwell Air Force Base, Montgomery, Ala. The 1963 model initially belonged to the Army, then the Air Force, then the Air Force Reserve before returning to the Army.

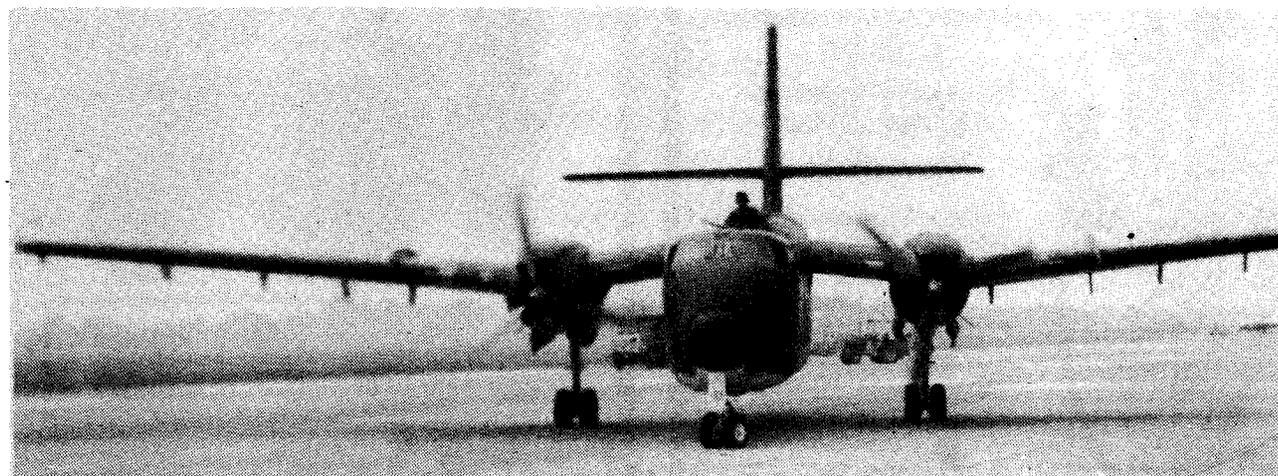
This is Redstone's part of the transfer of 25 Caribou's from the Air Force to the Army which should be completed by the end of the fiscal year, Laird said. Other recipients include the Kwajalein Islands, seven aircraft; Fort Bragg, five supporting the Golden Knights parachute team; and the rest going to the Connecticut Army National Guard.

"It's an aircraft that's 10 years newer than the one we had and should be more reliable than the previous aircraft. So we've got to feel good," said Laird.

He and the others on the crew went to Montgomery, checked out the airplane, signed for it and brought it back to Redstone. Besides Laird the Redstone crew Friday included Pierre Bourne, pilot in command; Doug Paddock, flight mechanic; Grover Campbell, maintenance chief; and SFC William Deal, tech inspector.

Interested observers at the airfield here included CWO 4 John Dees, assistant maintenance officer who had flown on the old Caribou.

"It's great," Dees said of the replacement. "It just brings us back into the mainstream of the standard C-7's. The (older one) is a prototype and getting the new one that's a standard model brings us in line with all the other C-7s...Makes maintenance a lot easier."



NEW C-7 CARIBOU taxis into Redstone Army Airfield on its arrival here from Montgomery. Red-

stone's old Caribou is going to a North Carolina Museum.

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Retirement system is Wickham concern

WASHINGTON—In a recent letter to Rep. Les Aspin of the House Armed Services Committee, Army Chief of Staff Gen. John A. Wickham, Jr. voiced his concern about the prospect for congressional changing of the U.S. military retirement system.

The general led off his letter with a reference to the analysis of the system now being conducted by the fifth quadrennial review of military compensation. He said, "we need to evaluate the results of that study before considering changes." Here is the remainder of Wickham's remarks:

"Soldiers serve in a unique profession. With their

oath of service they accept unlimited liability because they can be ordered to go anywhere at any time, because they live under a more stringent system of justice, face danger and perhaps injury or untimely death, and because they must accept family separation. At this time of great danger to our national security, the nation requires tough professional military forces with high readiness. The uniqueness of the military profession and the requirements of national security clearly warrant unique military compensation systems.

"Our Army is the smallest in 30 years. For it to

maintain a state of readiness consistent with our security needs, the Army must be able to attract and retain quality men and women, particularly long-term careerists who provide leadership and technical skills. If we were to use forces for deterrence or combat, wouldn't the American people demand the best NCO and officer leadership in our fighting units? While comparability in pay and allowances are important for maintenance of quality, retirement benefits are central to retention, moreover, readiness and combat capability call for vigorous, robust, youthful military forces. In order to achieve such forces, the retirement system must provide for early retirement.

"In my view, the present retirement system has served the Army and the nation well. I see no reason to change it. I solicit your support in assuring that no adverse actions are taken which would affect our ability to attract and retain quality career people."

Rep. Aspin chairs the subcommittee on military personnel and compensation, which is holding hearings on the military retirement system. (Arnews)

New aide sees job as 'biggest challenge'

BY SKIP VAUGHN

Excuse the pun but the aide to the incoming commanding general at the Missile Command is keen about his new job.

Capt. David Keen was a company commander at the Missile and Munitions Center and School when he was selected to be the aide to the new MICOM commander, Maj. Gen. Jerry Max Bunyard. He was impressed by the command's size and the amount of work it does.

"This is the biggest challenge of my life," says Keen. "The United States Army Missile Command is the most diverse, dynamic command that I have ever been associated with."

His job is to "ensure that my boss's time is never wasted and that every day is effectively and efficiently planned," he says. "I'm excited about getting to work."

Keen was commander of MMCS B Company, the instructor company, from September 1982 to July. Before that he was an advanced course instructor at the school for almost two years.

The Tennessee native is trained as a nuclear weapons officer. He was a chemical platoon leader at Fort McClellan, Ala. in 1977 and the unit was responsible for the cleanup after the infamous Jonestown, Guyana massacre. Before coming to Redstone he served with the 2nd Infantry Division in South Korea.

"I'm very interested in some of the new studies on dioxin which is a chemical agent of relative impor-

tance in both the industrial and military communities," he says.

Keen, 27, has been in the Army for seven years. He received a bachelor's degree in 1977 from Tennessee Tech University "with emphasis in biology and chemistry." His wife Mary Jane (MJ) is a Boston native on active duty at MMCS.

"It's just extremely fascinating," he says of this command. "You have people here from every walk of life, from every educational level, from every nationality, doing every type of job from research to procurement."



Keen

THE REDSTONE ROCKET

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The Rocket is published weekly, on Wednesday, the publisher will receive editorial content for publication in The Redstone Rocket through the information Office, Army Missile Command, Redstone Arsenal, Ala. 35809, Bldg. 5250, Room A-134, Extension 876-1500.

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Longtime worker put six kids through college

BY SKIP VAUGHN

Nolen Jones Sr. plans to do a lot of fishing when he retires from the arsenal by the end of September. He deserves it.

He will have worked for 36 years, including two years military service, and put six of his eight kids through college. The last one is finishing high school.

Jones has worked with ammunition storage for the Army at Redstone since 1950. He never finished high school, but stressed the value of education to his children and all attended college, three have master's degrees and one a doctorate.

"I set down and gave them the importance of education. I told them how important it was to have one and what you had to go through by not having one," he says. "To be fair about it, I missed a lot of jobs by not having an education."

Over 30 years ago Jones filled out a job application, was turned down, sent in another one and was accepted. He came to work here as an ammunition handler in June 1950 and later got promoted to forklift operator.

When he was hired, he says, blacks were not given truck driver's positions but were given "any rough job" such as ammunition handler. Ammunition would weigh 120 pounds a box and boxes had to be stacked eight or nine high in a train's freight car. It took two men to handle each box.

"It was hard work. We were working eight hours then; I mean working eight hours," Jones recalls. "Get 30 minutes for lunch, go right back to work, 15 minutes for break, go right back to work."

Not only was the work hard but there were segregated restroom, water fountain and lunchroom facilities. "The pay scale has changed too," says Jones, now a WG-7, step 5. "During the time I was



Jones

first out here, the black people wouldn't get the same pay as the white people did."

He still ships, receives and stores ammunition as a warehouseman with the explosive storage division here.

Putting the children through college was rough financially, Jones says. His wife Willie Mae started working as a nurse at Crestwood Hospital after the youngest was born. She died about three years ago.

For 18 years Jones would return home to his Madison farm after work and get right on a tractor. Farming helped pay the bills. "I'd be off Saturday and Sunday," he recalls. "It was kind of rough during the week. You'd work eight hours here then you'd go home and get on a tractor."

"As long as you don't sit down you've got it made," he says. "But if you get in and sat down, that's one evening you won't work."

He moved to Huntsville in 1971 but continued farming for about three years. He finally decided to rent out his 15 acres. "I found out something. I should've done that 18 years ago," he says with a laugh.

The 60-year-old Madison native, who finished the 11th grade when he returned from World War II, is proud of his children. Nolen Jr., the oldest at 35, works as a mail clerk at building 4488. The next in line, Versey, works at Alabama A&M University where she earned a master's degree.

Betty Jones Batts has a master's from Alabama A&M and works in the staff and faculty development office at the Missile and Munitions Center and School. Patricia Jones Fuller is a college graduate employed as a computer programmer in Ohio. Jannie earned a doctorate from Ohio State University and serves as director of co-operative education at Calhoun Community College.

Gary, an A&M art graduate, is a graphic illustrator for NASA at Redstone; Angela recently received her master's from Ohio State; and Travis is in the 12th grade at Johnson High School. Jones expects things to be easier when his youngest son enters college than they were when he had two children at Tennessee State and one at Alabama A&M.

"I feel real proud," he says of his six college graduates. "I'm glad that they made it through. There's a lot of things that might have happened during the time they were getting their education...things like drugs. I'm glad that they didn't get into that,"

He tries to "live religiously" and holds several positions at the St. Elizabeth Presbyterian Church in Madison. His plans after retirement are to "catch up on my fishing. I love to fish."

Awards presented to youth ball teams

Trophies were presented to Redstone's top softball and baseball teams in an awards ceremony Sunday.

"This is the first time ever that they've had an event like this for the youth activities program," said Doug Mapp, youth sports director.

Scheduled to present the awards were Col. Dahl Cento, deputy post commander, assisted by CSM Billy Sherrill of RASA.

Trophies went to two girls' softball teams, the Mustangs coached by Bruce Plaiss and the Hawks coached by Judy Deal; undefeated minor league

Tigers coached by Bruce Bennett; and the major little league champion Ajax. The Ajax head coach was Dave Baginski with manager Bob Jones.

Co-winners in junior Babe Ruth were the Blue Cardinals, coached by C.V. Brocato, and the Falcons coached by Eddie Thomas Jr. Also honored was the junior Babe Ruth all-star team, coached by Thomas, that got second place in Huntsville's division one.

Redstone's team included four Babe Ruth, ages 13-15; four major league, 11 and 12; four minor league, 9-10; and five girls' softball teams.

Correction

A story in the July 13 issue of this newspaper reported the award of a conditional contract to a Huntsville firm as the result of a cost comparison study in MMCS.

One sentence in that story stated: "The decision is conditional through a 15 working day public review period that began July 11, followed by a 30 day period within which any appeal will be resolved by an administrative appeal board."

Any appeal to be valid must be filed within the 15 working day public review period that began July 11.

Also, the byline under the story "Marines up record to 19 wins, 2 losses" in the July 13 Rocket should have ready by Daniel Jackson instead of Daniel Ford.

Unit crest wear policy changes

According to a DA announcement, effective immediately, unit crests will not be worn on the shoulder loops or the shoulder marks of the Army green shirt or the black pullover sweater.

Also, the crest showing regimental affiliation will not be worn over the nameplate on the Army green shirts. Local commanders have the option of allow-

ing the unit crest to be worn over the nameplate of the black pullover sweater.

This policy change was announced after a review of the wear of the unit crests results showed that original intent of the simplicity of design and adornment of the green shirt and black pullover had been defeated by wearing unit crest on them.

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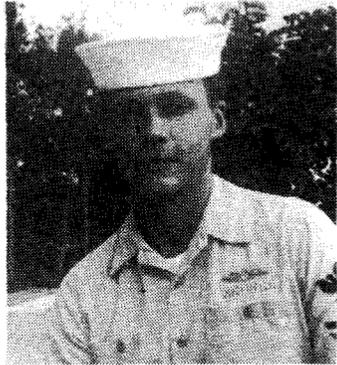
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Have your experiences in the military been what you expected them to be?



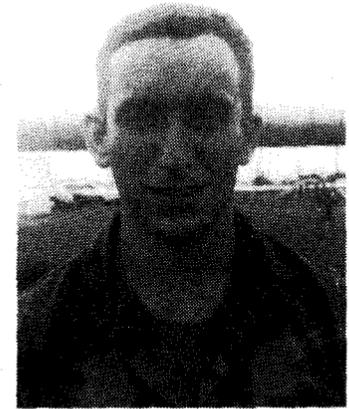
Petty Officer 2nd Class Don Merkel, EOD Navy Detachment—"I came into the Navy under the guaranteed school program for advanced electronics. I got it and saw 16 different countries the three years I was at sea. I got more than I expected. Opportunities are greater than they told me when I was getting recruited. If you want something bad enough in the Navy, you can get it."



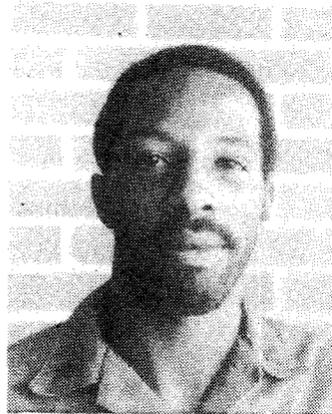
SSgt. Lewis Lockett, Company B—"Yes, they've been what I expected. The educational opportunities are the best I have ever been associated with. The travel and the experience have been the two things I've admired most. Since I've been at Redstone, the biggest advantage I've had has been working with the students and passing on the things that make the Army great."



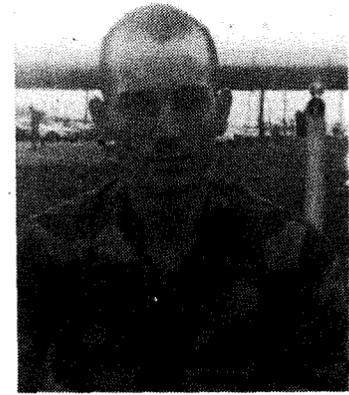
SSgt. Wesley Bailey, Company B—"Yes, they have been more than I thought they would be. I've grown up and learned in more ways than one."



PFC Tony Brown, 8th Student Company—"Basic wasn't as hard as I expected. Now it's like a college dorm in A.I.T. here."



Sp4 George Griffith, Company A—"Yes, they have been. There is a lot of excitement and adventure. In civilian life you do the same things everyday. In the military you do something different everyday."



PFC Arthur Allen, 8th Student Company—"No, it was easier. I expected basic to be a lot harder. Basic was a joke. Nothing overly demanding. Physically, it wasn't hard and mentally, it wasn't hard either."

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Baseball tour to Atlanta includes 'Dodger fans'

BY SKIP VAUGHN

The bases were loaded with two out in the bottom of the ninth as Atlanta Braves third baseman Bob Horner strode to the plate.

A Redstone Recreation Center tour group stood and cheered with the rest of the crowd hoping that Horner would hit a homer for a Braves win. This was the climax of the rec center's tour to Atlanta-Fulton County Stadium on Sunday, July 17.

Two buses left the rec center shortly after 7 that morning for the Braves game against the Montreal Expos. Ninety-four people took advantage of the center's \$8 per person tour (including \$7 ticket to the game, bag lunch and transportation. It was the second baseball tour this year and another is planned for September.

Ken McDonald, the tour guide, told the passengers Atlanta's opponent for the next tour would be the Los Angeles Dodgers. The Braves held a slim lead over the second place Dodgers in the National League's western division.

"You know, there's one Dodger fan on this bus. I'm not going to say who," McDonald said as someone raised his hand. "Uh-oh two...Three. Uh-oh. You know Dodger fans it's a long walk back."

McDonald kept up his good natured ribbing as the trip to Atlanta continued. "Those of you that are Dodger fans, I'd like for you to wait till last to get your lunches, I have special lunches for you. You can tell which lunch it is 'cause it's got Alabama Quick Step written on it," he said.

The tour guide mentioned other upcoming center tours including one to the Talladega 500 which costs only \$22 per person including the \$20 ticket. But he addressed the subject at hand as the buses neared the stadium.

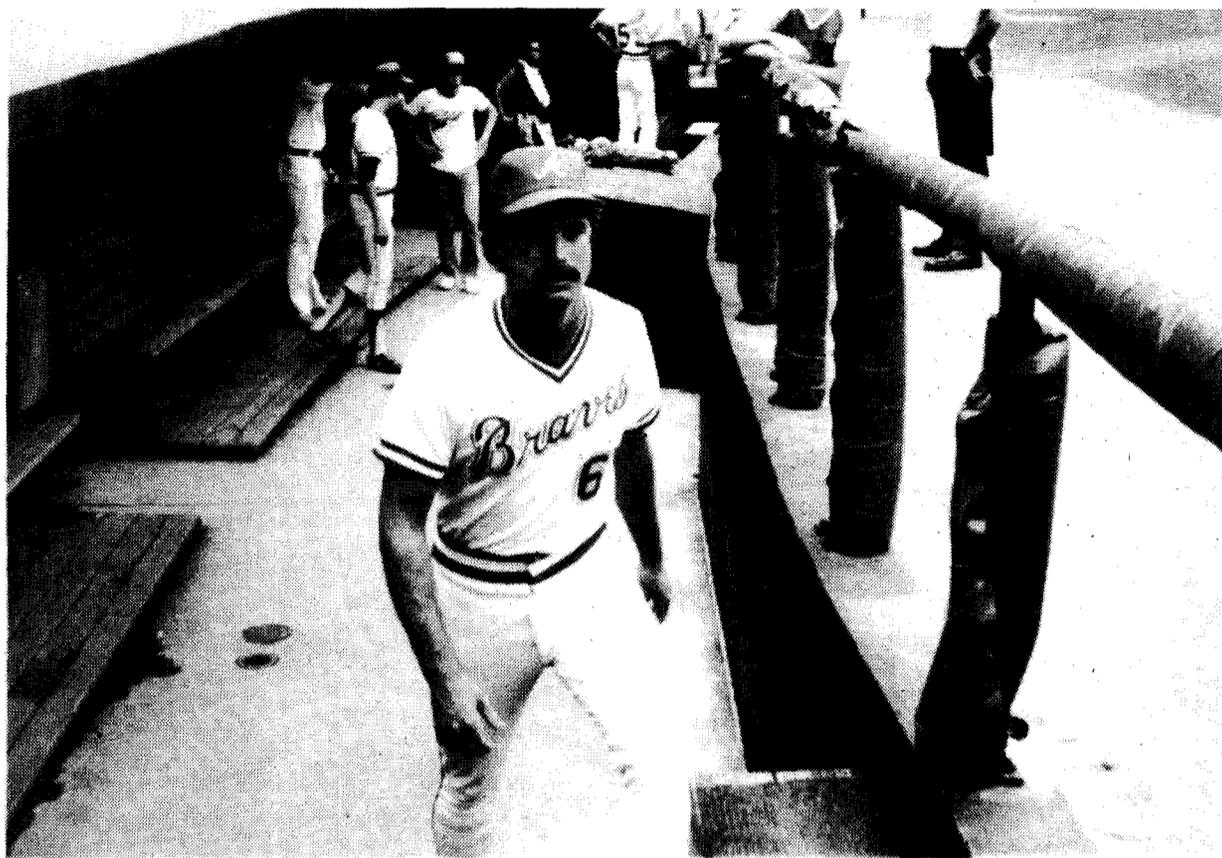
"When you get off the bus, there are trash bags at

the front and I'd appreciate it if you'd put your trash in the bags if you can get it in 'cause there's going to be Dodger fans in the trash bag too," McDonald said.

After the game the rec center group returned to the buses for the trip home. "Everybody comes with

nothing but they go back with something," said one youngster, referring to his other Braves memorabilia.

The Braves, however, came up empty because Horner flew out to center field and the Expos won 3-1.



Braves Infielder Randy Johnson leaves dugout before game. The Braves lost to the Expos 3 to 1.

Warm weather brings increase in bicycle thefts

A big increase in bicycle thefts occurs when warm weather brings people outdoors for summer activities. Bicycle thefts in spring increased 500 percent over the winter period, according to arsenal military police.

They point out that unsecured bicycles are much

more likely to be stolen and offer these tips for safeguarding your bike:

- Whenever you stop riding, start locking
- Park and secure your bike in designated parking areas

- Secure bicycles that are parked in quarters areas
- Inscribe a Social Security number on the bike
- Record bike serial numbers and description

MPs caution that "If you don't want your bike, don't secure it."

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OPM, Congress scrutinize merit pay

WASHINGTON—The system for paying the wages of senior managers is facing more and more scrutiny from the U.S. Office of Personnel Management and from certain members of Congress.

Called "merit pay," the system seems destined for some kind of reform, according to officials in the Army's office of the deputy chief of staff for personnel. They point to several executive and legislative proposals now under consideration.

Wolf/Trible bill

On March 2, Rep. Frank R. Wolf introduced a bill (HR 1841) to eliminate the current system and to authorize a five-year performance-based incentive pay experiment. Unless Congress were to disapprove the plan, at the end of five years, it would be automatically extended. The bill's provisions follow the lines of earlier DOD legislative proposal developed with HQDA assistance, Wolf's bill would:

- Cover GS-13 to 15 supervisors and managers who supervise one or more professional-level employees;
- Mandate five performance levels ranging from "unsatisfactory" to "outstanding";
- Provide full comparability and within-grade step increases for employees whose performance is rated "fully successful" or higher;

— Authorize cash-award funding up to 1.5 percent of total base pay for covered employees, while limiting the amount of an individual award to 20 percent of the employee's base pay. Similar legislation (S 958) was introduced in the Senate by Sen. Paul S. Trible Jr. These provisions seek to alleviate the serious pay-disparity problem between general schedule and merit pay employees in the same grade and performance level.

OPM proposal

On March 31, the Office of Personnel Management published a proposed revision of the regulations covering merit pay. The proposal would require that Army redesign its merit pay distribution system and guarantee full comparability to all employees whose performance is rated "fully successful" or above, in its response to that proposal, Army supported the full-comparability guarantee as a way to reduce the pay disparity between similar merit pay and general schedule employees.

Stevens amendment

In May and June Sen. Theodore F. Stevens, chairman of the subcommittee on civil service, post office and general services of the Senate Committee on

Governmental Affairs, held hearings on the Trible bill. With the support of employee associations, Stevens currently is drafting legislation as a substitute for the original Trible bill and the OPM-proposed regulatory changes.

It appears that some type of reform in the merit pay system will be made—just which version, and when, is uncertain at this time. OPM Director Donald Devine, who originally planned to publish final rules in early July, has agreed to a delay until Aug. 1 to allow the Congress to accomplish through legislation the ends contemplated in the proposed rules.

Under the current Army system, the end of the rating period for merit pay employees remains June 30. Officials stress that any proposed changes to the system should be regarded as just that—proposals. For the time being, the Army's merit pay regulation still applies. (Arnews)

Rocket Has Moved

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Beirut bomb victims get Purple Heart

WASHINGTON—The awarding of the Purple Heart Medal was approved recently by the Secretary of the Army to victims of the April 18, 1983, bomb explosion at the American Embassy in Beirut, where three soldiers died and another was injured.

The Purple Heart Medal is awarded in the name of the president of the United States to any member of the armed forces or civilian national of the United States who, while serving under competent authority, has been wounded or killed. (ARNEWS)

Volunteerism year

WASHINGTON—President Reagan's proclamation of the period May 1, 1983—April 30, 1984, as "national year of volunteerism" has received the endorsement of Secretary of the Army John O. Marsh Jr.

In a recent memorandum for all Army personnel, Marsh noted soldiers' and civilians' "vigorous and generous" participation in the volunteer programs in the past. He said, "I call upon you now to continue this tradition and to observe this celebration with appropriate activities and volunteer service." (ARNEWS)

Graham nominated for third star

WASHINGTON—The chief of staff for U.S. Army Forces Command, Maj. Gen. Charles P. Graham, has been nominated for promotion to Lieutenant General and for command of the Second U.S. Army, headquartered at Fort Gillem, Ga. The new command is scheduled to be activated in October 1983.

In his new assignment, Graham will command U.S. Army Reserve units in eight southeastern states, Puerto Rico and the Virgin Islands. He will also be responsible for active Army training assistance to Army National Guard units in that area.

Maj. Gen. David K. Doyle is scheduled to succeed Graham in the Forces Command position. (ARNEWS)

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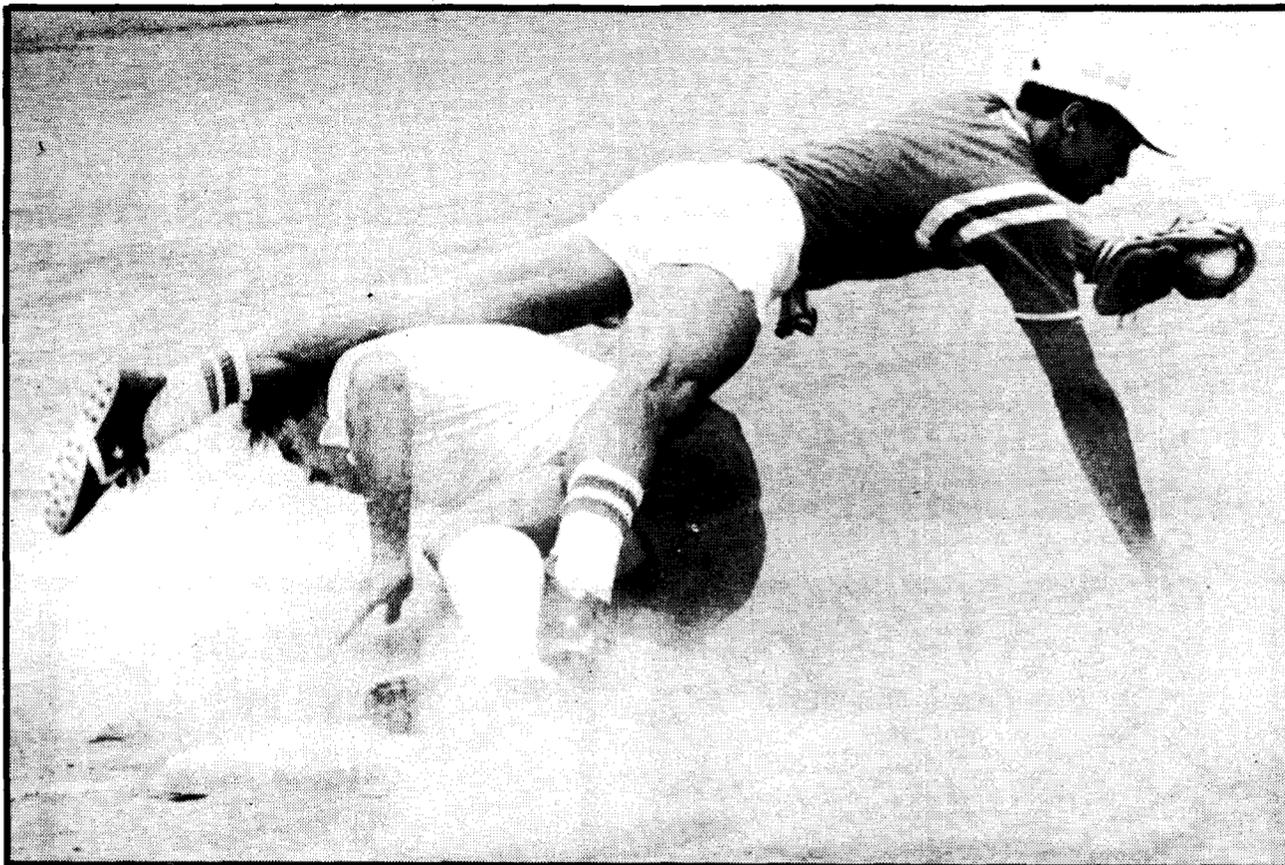
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DUNKED—Jackie Leopard of Missile Logistics Center throws up her hands as she drops into the water of the dunking booth.



GOOD THROW—Rachel Walton has her hands full as she winds up for a toss at the dunking booth. She connected and sent Dave Dalton plunging. Rachel is the daughter of Ronnie Walton who works in Bldg. 5678.



SLIDING IN—Roderick Weaver, short fielder for the Log Rollers, takes a slide as third baseman Sp5 Robert Thomas, of B Company goes for the tag. B

Company won the tournament in the age 35 and under group.

Contest winners get trophies

This year's MICOM picnic was one of the best and biggest ever, judging from reactions of people who went.

There was a good turnout for the all-day sequence of family fun and games that concluded in the afternoon with presentation of trophies to the winners of volleyball and softball tournaments that began early that morning.

In volleyball, the M&Ms from maintenance and materiel management won first place in the single elimination tournament. The Roland Project team took second place.

In softball, the Med Raiders won out over the Top of the Hill and Over Gang in the age 35 and over group. B Company beat the Log Rollers from Missile Logistics Center to take first place in the under 35 group. The sports trophies were presented by Maj. Gen. Robert L. Moore.

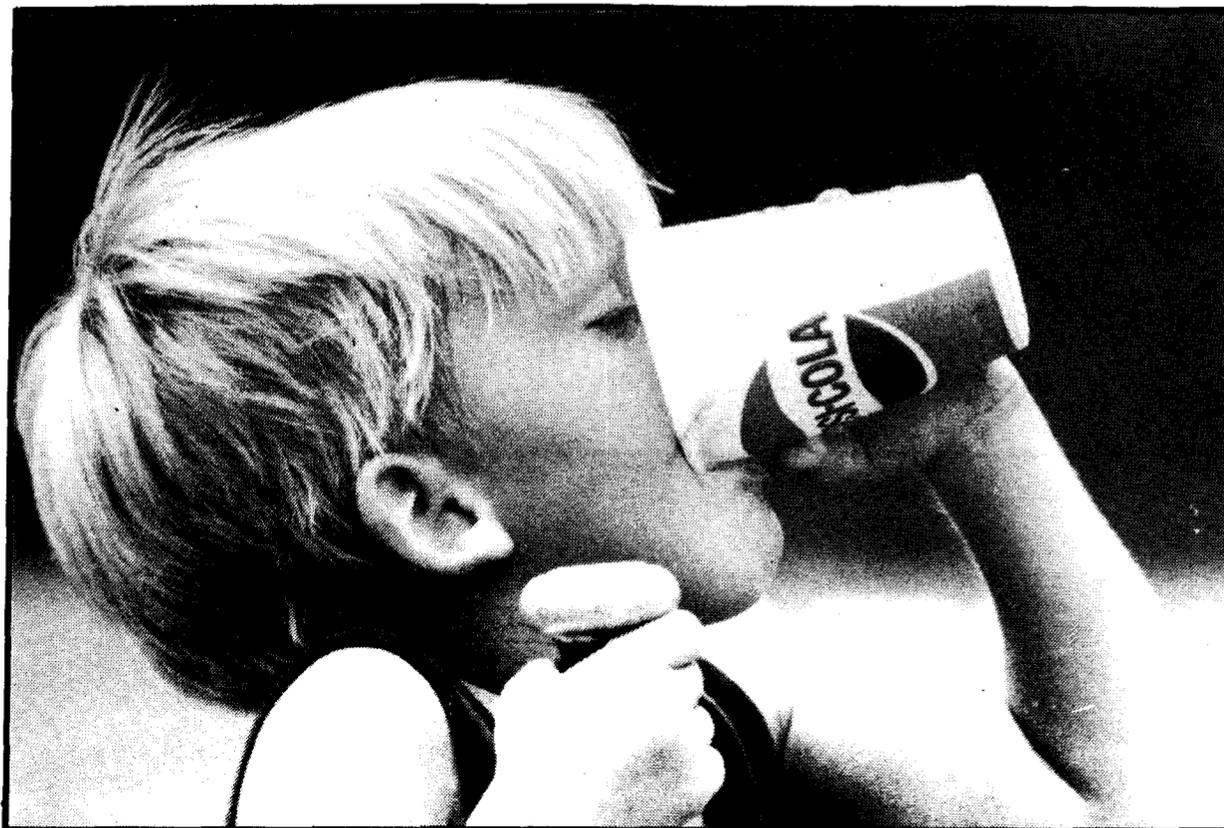
Candy, balloons and ribbons were the prizes in childrens' games in which everybody won something.

There were 21 entries scheduled for a talent show in which MICOM people and their family members sang, danced, and otherwise performed.

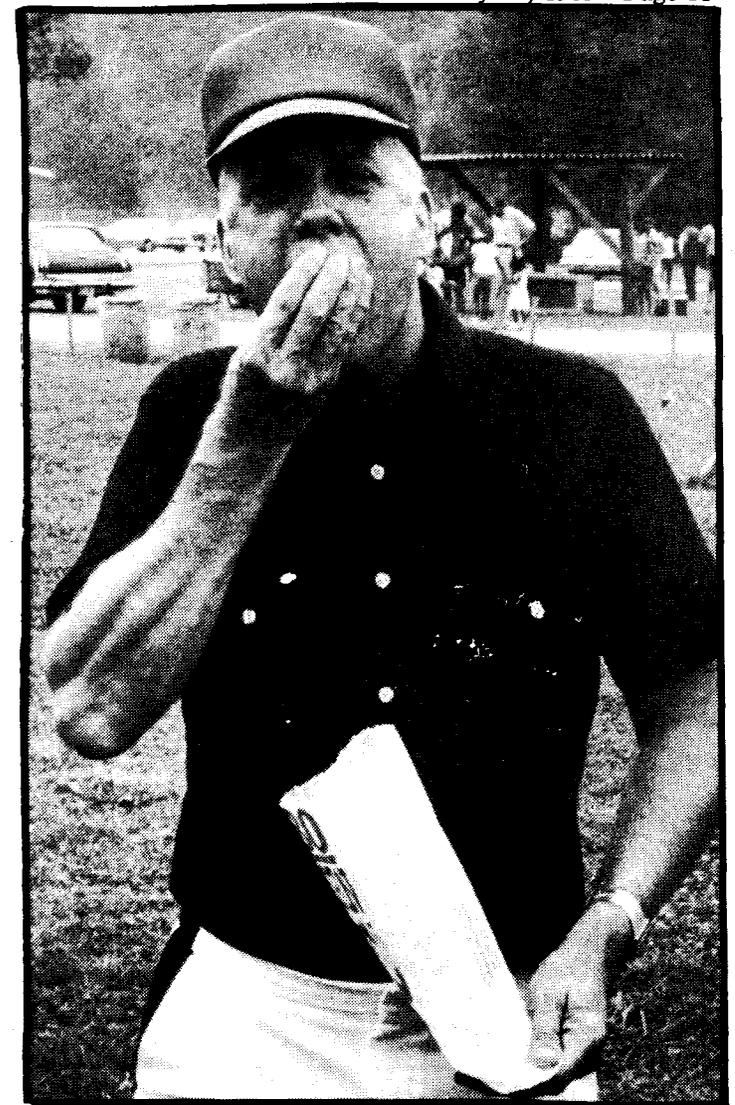
Top prize of \$50 in the talent show was won by Stephanie Newton who performed numbers from Broadway acts. She's the niece of Ann Miller in Transportation.

The rock music group JOY consisting of Ellis Hamrick and brothers won the \$35 second-place prize. Hamrick works in the missile systems division at Materiel Management.

Melissa Bagwell's tap dance routine won third place prize, a filet mignon dinner for two at Twickenham Station. Her mom is Charlotte Bagwell of distribution and transportation.



REFRESHMENT—Michael Suckrow, 4, cools off with a cold drink.



GOOD THINGS TO EAT were part of the picnic fun. Here Brandon Irvin, 2-½ year-old son, of Rick and Portland Irvin who work in Bldg. 5678, takes a big bite of cookie while Maj. Gen. Robert L. Moore has a handful of popcorn.

'Little' act puts on big show

The littlest act in the MICOM picnic talent show was also one of the biggest hits with the crowd.

Three-and-a-half-year-olds Justin and Jeremy Carter picked, fiddled and sang, after a fashion, through a three-song performance that seemed to delight the applauding audience.

Justin and Jeremy strummed toy banjos and played little fiddles as they accompanied their granddad Willard Whitaker and his band through "Mountain Music", "Rolling in My Sweet Baby's Arms" and "Boil Them Cabbage Down". Whitaker works at Post Transportation and performs twice a week locally on TV channel 9.

The talented twins have performed with their grandfather since they were 10 months old and have appeared on the Grand Ole Opry with Roy Acuff and on Ralph Emery's nationally-televised Nashville Alive show. They were on stage with Loretta Lynn in a recent appearance in Huntsville and have been featured on local television.

Their mom, Barbara Carter, who works in logistics center at Materiel Management, says she's not part of the act but was on stage with her sons at the picnic making sure that they sang into the microphone and that their bows didn't get tangled during the fiddle numbers.

The precocious blond boys are "just little hams," she said with a laugh, and give credit for making them performers to her dad, Willard Whitaker, whose footsteps they are following in as fiddle players.

In addition to playing with their grandfather, Justin and Jeremy are taking music lessons and have learned the notes to Snoopy and Charlie Brown, their mother said.



TWIN FIDDLERS—Jeremy, left, and Justin Carter do some fiddling at the talent show. They performed

with their grandfather, Willard Whitaker, of Post Transportation, a country music fiddler.

Motor sergeant picked for apprentice honor

BY SHEILA WALKER

Sgt. Wayne Davison, motor sergeant of the MMCS motorpool, has been selected as Redstone Arsenal's first Outstanding Apprentice of the Year.

He was selected by SFC Wanda Starling, administrative NCO of the apprenticeship program, and MSgt. Delma Smith, project NCO for the program, based on a composite of several criteria.

Starling explained that Davison was selected based on his supervisor's recommendation and his dedication to the apprenticeship program.

"We interviewed each of the applicants on a one-to-one basis. We evaluated them on their integrity on and off the job. We also considered the applicant's personality, attitude and verbal expression.

"Mainly, we were considering the applicant's dedication to the apprenticeship program. We wanted someone who was very active in the program. Our selectee had to demonstrate professional knowledge and a strong belief in the program.

"We interviewed so many good people. It was hard to make a choice, but we feel that we made the best choice.

"Sgt. Davison impressed us with his desire to improve himself. He showed true initiative.

"This is the first time we've sent an apprentice to the conference. We hope to continue it. We're one of the first Army installations to have an apprentice represent us at the Southern Apprenticeship Conference. I know Sgt. Davison will represent us well. He's a very intelligent soldier," said Starling.

Davison will go TDY with Starling and Gene Reed,

chief of MMCS staff and faculty division, the week of July 18 to Nashville.

Davison said, "I feel both honored and privileged to have been selected since this is the first time we've ever done it here. I'm excited about going to Nashville. It'll be a good experience for me.

"I was rather surprised to be chosen since I know a lot of good people in the program.

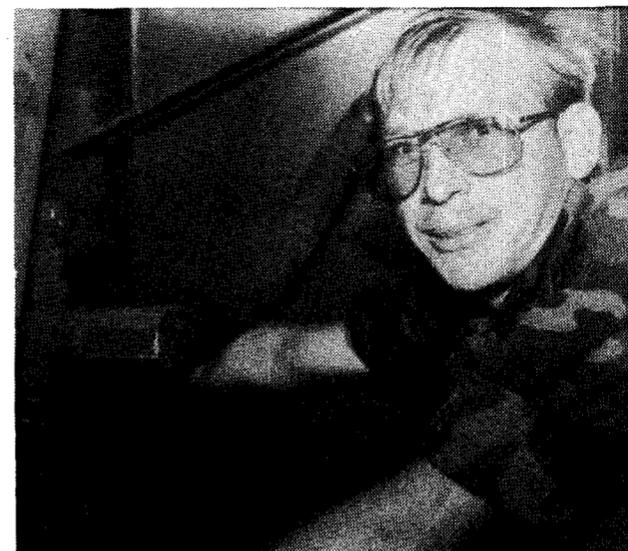
"I joined the program because upon completion of it, if I decided to leave the Army, I'll be in a better position to find a good job.

"It also helps me in my present duty. I have to work harder to do all of the tasks that are assigned to me by the program. I don't just claim the hours, I actually do all of them.

"I also do related correspondent courses and service school courses. This helps me promotion-wise and at the same time I'm improving myself. I think the program helps me do a better job here in the motorpool," he said.

Davison's supervisor, Larry Norman, explained why he recommended Davison. "He is a totally dedicated soldier. He does an outstanding job here. He works hard on the apprenticeship program. He doesn't just pencil write it to claim his hours. He does the work. It would be good if more of our mechanics here got involved in the program."

SFC Willard Blanks, NCOIC at the Motorpool, also had words of praise for Davison. He said, "When I give Davison a task, he will pursue it until completion. If he doesn't know, he'll ask questions



Davison

and find out. Ninety-nine point eight percent of the time, he gets the job done."

Starling pointed out that enrollment in the program is up. Selecting an outstanding apprentice has been an incentive for others to work in the program. She also said that the apprenticeship program is for those individuals who want to better themselves. "They will be better placed in the civilian workforce where they can share their expertise. This program will help them compete for the better jobs. This is the Army's way of saying thank-you to these soldiers for serving their country," Starling said.

MICOM appeals Chambers decision

The U.S. Army Missile Command has appealed a federal Merit Systems Protection Board decision ordering the command to reinstate John W. Chambers.

The command removed Chambers, a general art and information officer, from the federal service after he was convicted last year in federal court on one count of conspiracy to defraud the government.

Chambers appealed the removal. After a hearing earlier this year, a board official ruled on June 8 that the command imposed too strict a penalty and ordered Chambers reinstated retroactive to July 30, 1982, the date his removal became official.

In its appeal filed July 11, the command asked that the decision of the hearing official be reversed and the removal sustained.

Carlson leaves top BMD post

James D. Carlson, director of Ballistic Missile Defense Advanced Technology Center, has announced that he is leaving his position to join private industry in the Huntsville area.

Carlson said he is making the move after nearly a dozen years with the BMD program to take advantage of "a recent opportunity for a fresh technical challenge" and for greater economic reward as children near college age.

From his office in Washington, Maj. Gen. E. R. Heiberg III, the Army's BMD program manager, said, "I'm sorry the program is losing Jim Carlson. I know of no one who is more respected professionally or personally."

Heiberg said a search will begin immediately for a successor to Carlson in the Senior Executive Service position. In the interim, Col. Frank M. Gray Jr., the center's commanding officer and deputy director, will serve as acting director.

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9:15am	11:05am	623		11:40am	11:35am	624	X7
11:45am	1:40pm	625		2:25pm	2:20pm	626	X6
2:30pm	4:25pm	627	X6	3:55pm	3:50pm	628	Dash 7
4:00pm	5:55pm	629	X6	7:20pm	7:15pm	630	
7:25pm	9:20pm	631	X6	9:05pm	9:00pm	632	X6
X - except 6 - Saturday 7 - Sunday				X - except 6 - Saturday 7 - Sunday			

Schedule effective July 1, 1983.

Schedule effective July 1, 1983.

Business is good at new officers club

BY GINGER STEPHENS

The new officer's club is booked solid every evening for dinner. Membership has increased by at least 500 and plans for a "greenhouse" extension on the formal lounge are underway.

"The club is the talk of the Tennessee Valley," said Stuart Soffer, assistant installation club manager.

The administrative staff has been increased to help handle the success of the club. A reservation clerk was hired to handle nothing but reservations and a new assistant manager has already made his mark in helping the new club get on its feet.

Alex Franco, a retired Air Force club manager from Lubbock, Texas, started at the club as assistant manager June 2 and "hasn't had a day off since."

"We've been booked solid," said Franco. The 1978 Air Force Club Manager of the Year with 10 years experience thinks "the facility is great and the potential is outstanding."

Since Franco's arrival he has revised the club menu to give a bigger variety of foods and prices to better meet the preferences of the members.

Other changes include a bar menu for snacks in the lounge and revision of the foods and prices offered by the club's catering service. Entertainment has been scheduled for the Big Spring's Lounge during the month of August.

Lack of entertainment has been the main complaint from the lounge patrons so the club has arranged for the band "Coast to Coast" to perform

Wednesday through Saturday nights throughout August. "But, only participation will determine if we can offer this kind of luxury," said Franco. "With these changes I think we'll finally get back to the routine of serving the members what they want."

The club council is responsible for letting the management know what the members want. "We appreciate their input," said Soffer. "The club council is very active and we get good feedback from them."

The problems that have risen since the grand opening have not been so much from dissatisfied members but in equipment and operations.

"Any new building of this size has kinks in it, the equipment, and operations. Concepts that were successful at other locations aren't necessarily successful here because of demographics," said Soffer.

An example is the menu was changed and prices adjusted to better suit the tastes, preferences, and pocketbooks of the people from the area.

Along with some of the more recent changes, the

delinquent bill payments have not changed.

"We have just enough people not paying bills on time that it's worth mentioning but not a real problem," said Soffer. "But, we need the cash flow."

A requirement for membership is the club bill must be paid in full the month that it is received. The club does not have a revolving charge account and it does not charge interest.

There are approximately 2500 members of the club at present. Of approximately 50 delinquent bill notices approximately 10-15 are active duty officers "which isn't a way of life in the Army," according to Soffer.

The club's check cashing has increased to \$100 and the barbership is still available for free haircuts to members.

"We just lost one of our barbers and we're attempting to replace him. There is still one barber available but we apologize for any inconvenience to the club members," said Soffer.

Many soldiers may be ineligible to reup

BY SKIP VAUGHN

Army officials say nearly one-third of the soldiers reaching end of service this year won't be eligible to reenlist for one reason or another.

At Redstone the percentage of ineligibles won't be high because of the technical nature of the troops here, according to SFC John Murphy, a MICOM reenlistment NCO.

"We may lose some but what we're going to lose is percentage-wise going to be nothing compared to the number Armywide," he said. "The majority of the people you'll find here will have no trouble meeting those qualifications. It's the type personnel assigned here."

Most of the people here are in technical type jobs and their overall scores are probably better than the average Armywide, Murphy said. "The technical type people that we have are the type people the Army wants to keep."

The Army has stiffened the qualifications for reenlistment in an effort to keep the best qualified soldiers. At the same time, enlistment qualifications have also gone up, Murphy added.

"What they're trying to do is maintain a high level of proficiency," he said. "In other words the people that don't do well will be the ones that will be gone."

Soldiers should start seeing if they meet the qualifications for reenlistment eight months before they are due to leave the service. They should first go to their unit reenlistment NCO and then to their command's reenlistment NCO. They may be able to up their qualifications within the eight months before separation.

Sgt. Maj. James Hawley, the Army's senior NCO retention official, said recently "Of all soldiers who come up to their ETS, nearly one-third are ineligible to reenlist for one reason or another. In 1983 we'll have about 90,000 first term soldiers come up for ETS. Only about 62,000 will be eligible for reenlistment."

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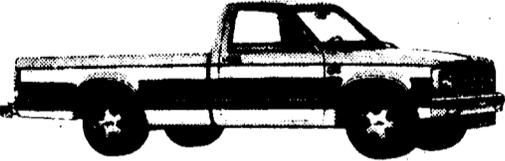
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AAFES introduces 'standard' burger

DALLAS—A naturalized American, born in Japan, who lives in California, won a hamburger cooking contest in Texas which will affect military members and families all over the world. The winner is Shizuko "Susie" Nogaj, wife of a retired Air Force technical sergeant, and Army and Air Force Exchange Service employee from Mather Air Force Base, Calif.

The contest was the AAFES world championship hamburger cook-off held July 9 at Fort Bliss, Texas. The purpose was to choose a winning "AAFES burger" for military customers worldwide.

AAFES sells 40 million hamburgers each year at approximately 2,500 food facilities throughout the world. Many of the cooks are foreign nationals.

Needless to say, the quality varied, "We wanted to standardize our hamburgers like McDonalds or Burger King," said Maj. Gen. Richard D. Murray, USAF, AAFES commander, "I challenged my people to make 1983 the year of the hamburger and improve both the product and the customers' perception of the AAFES hamburger," he added. The cook-off to determine the best hamburger cooker and recipe was a result.

Nogaj, a 17-year AAFES cook, developed her own recipes and tested them on her husband and children. When they all agreed "this one is the best" she knew she had a winner.

The AAFES burger consists of a quarter-pound of meat on a four-inch seeded, toasted bun with lettuce, tomato, pickle, onion, relish and a secret sauce developed by Nogaj.

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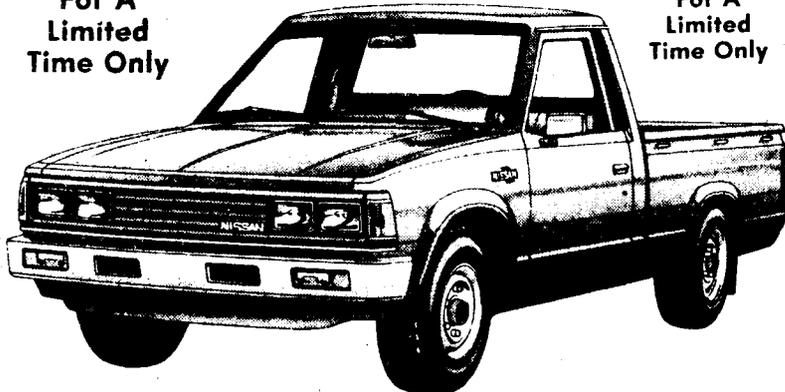
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Minority percentages can be improved

BY SKIP VAUGHN

The Army could improve in its percentages of women and minority workers at higher grade levels, according to the Army's director of civilian personnel.

"Those numbers are reasonably good up to about the (GS) 11 and 12 level," said Raymond Sumser. "At 13 and above, we haven't made much progress."

This can be remedied by seeing that people at lower grade levels get the training they need to move up and by bringing people in laterally, Sumser said. The civilian personnel director visited Redstone July 14-15 to view use of automation by the civilian personnel office here.

Redstone's CPO is making good use of computers, he said, and a project is under way to introduce a variety of automated equipment in other Army personnel offices. "Objective of that project is more efficient and more effective personnel services," he said.

Automation should mean that personnel offices can do their required work faster, more accurately and with less labor devoted to it, according to the director.

"It's quality, quantity and most importantly quick and accurate communications," Sumser said. "That probably ought to lead to better satisfied employees and managers and better work."

Problems faced by personnel offices in this Army's "year of excellence" include finding ways to

better assist family members such as in overseas moves. "Another (problem) is dealing with the large number of changes that are occurring and have occurred in the personnel system," Sumser said.

Asked about consent decrees, the personnel director described them as a legitimate way to resolve class action suits. He said the list of commands under consent decrees is fairly long and has been growing. Complaints of discrimination may not only relate to race and color but also pay, promotion systems and so on.

"It (the consent decree) is a way that lawyers are adopting more and more in dealing with those kinds of things," Sumser said. "Consent decree is simply a way of resolving a class action suit."

On contracting out, the personnel director said he views contracting jobs out to private firms as a "legitimate avenue for the government to do its work."

"There has been an emphasis on contracting out in the past few years," Sumser said.



Sumser

Top Marine

PFC David Barragan was selected as Redstone Marine of the Quarter.

He was also promoted to his present rank and awarded a Meritorious Mast at a detachment formation on July 7.

Barragan was selected for his knowledge of Marine subjects and leadership abilities.

In addition, Barragan will receive a free dinner for two at the Redstone Arsenal enlisted club.

Barragan a recent graduate of the ammunition technical course here has been reassigned to Camp Pendleton, Calif.

Sign up required for CHAMPUS

BY SKIP VAUGHN

Military families should by now be registered with the Defense Enrollment Eligibility Reporting System in order to keep their health benefits.

Effective July 1, those not signed up with DEERS may have their Champus claims denied. Champus, the civilian health and medical program of the uniformed services, helps military family members and retired military and their family members offset the cost of receiving medical care.

"They need to check with the personnel office about signing up with the DEERS program," said Brenda Cagle, the health benefits advisor at Fox Army Community Hospital. "That is all handled down at Military Personnel (building 3710, phone 876-3861)."

The eligibility reporting system is designed to cut down on fraudulent use of military hospitals and the Champus program.

Requiring sign up is "just to try to weed out the people that are not supposed to be using the Champus program," Cagle said.

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Army helps with Kwajalein drought

WASHINGTON—Army mobile technology is bringing relief to hundreds of persons stationed in the drought-ridden area of the Marshall Islands.

To the rescue of the workers at Kwajalein Island has come two "reverse osmosis" water-purification units for loan to the Army's missile range there. The system pulls water in from a salt lagoon and runs it through primary and secondary membranes. The water is then pretreated and forced into the reverse osmosis units with an 800-psi water pressure at a rate of 300 gallons per minute. At that rate the units produce about 100 gallons of fresh drinking water per minute.

Not only are the 3,000 personnel on Kwajalein being supplied their basic water needs by the units' daily production of 150,000 gallons per unit; the two purifiers also are helping the 8,000 Marshallese inhabitants of nearby Ebeye Island cope with the drought.

Once the drought is over the units will be brought back to the states, where they'll await any future call for rapid deployment to the Army's forces.

The units, developed by the U.S. Army Mobility Equipment Research and Development Command at Fort Belvoir, Va., had been pulled from depot storage for this emergency. They make up part of the U.S. Army Central Command's rapid-deployment materiel. (ARNEWS)

Changes announced in travel uniform

Soldiers assigned to TRADOC installations only are authorized to travel in modified travel uniforms during April 1 to Sept. 30, according to a new DA policy modification.

The modified travel uniform is authorized for travel only in clothing zones 1, 2 and 3.

Most TRADOC installations are in clothing zone 3 which includes Georgia, Alabama, Virginia, Kentucky, Florida, Mississippi, Louisiana, California, Delaware, Maryland, South Carolina, North Carolina, Tennessee, Arkansas, Oklahoma, Texas, Arizona and New Mexico.

Now, males have the option of wearing the long sleeve green shirt with the tie or the short sleeve shirt

with or without the tie as an outer garment without the jacket.

Females can wear the long sleeve green shirt with a necktab and the short sleeve green shirt with or without the necktab as an outer garment.

The black pullover sweater and the black wind-breaker cannot be worn with the uniform while traveling.

During the period Oct. 1 to March 31, all soldiers will wear the complete class A uniform with jacket.

When traveling to or from clothing zones other than clothing zones 1, 2, and 3, the complete uniform will be worn as described in DA travel uniform police effective July 1.

New commander at student company

Capt. Laura Noble assumed command of the 6th Student Company, 2nd Battalion, MMCS in a traditional ceremony on July 7.

Noble is currently the only female officer in MMCS to have command of a training company.

Nobel, a 1967 graduate of Oak Harbor High School, Oak Harbor, Wash., enlisted in the Army in 1968 as a private.

She received a bachelor's degree in math and math

education and a ROTC commission in 1977. She attended the officer basic course here at Redstone in 1978 and the advanced course in 1981.

Her previous assignments include shop officer of the 71st Ordnance Company, and armament maintenance officer of the 8th Maintenance Company, both in Germany.

Before taking command of the 6th Student Company, she was the mobilization officer at School Brigade for MMCS.

Noble and her husband, Harry has one son, Harry Jr., aged 11.

Capt. Dywane Jennings, former 6th Student Commander, will be acting commander for Company A and then will be MMCS mobilization officer.

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Fort McClellan gets environmental award

WASHINGTON—The Secretary of Defense Environmental Quality Award will be presented to Fort McClellan, Ala., for its role in enhancing the environmental quality program.

Fort McClellan's program included improvements in water quality, prevention of soil erosion, effective pest management, meaningful dialogue with the public on a proposed chemical decontamination training facility and development of environmental awareness training.

The award is presented each year to a Defense Department agency for its role in the conduct of environmental quality program. (ARNEWS)

Troop softball

These are the standings for the troop softball for this week; however these standings don't include play from last week.

EASTERN CONFERENCE

	W	L
Marines	22	2
HHC	15	6
95th Service Company	13	8
5th Student Company	10	10
Navy EOD	7	10
A Company #1	7	13
A Company #3	6	16
515th Ordnance Company	0	18 (Forfeit)

WESTERN CONFERENCE

	W	L
A Company #2	17	4
B Company #1	15	4
MEDDAC	15	4
4th Student Company	13	8
6th Student Company	11	9
291st MP Company	4	10
7th Student Company	8	12
515th Ordnance Company #1	7	16
8th Student Company	5	11

Bond rate 8.64% in second market-based period

The market-based interest rate for Series EE Savings Bonds issued between May 1 and October 31, 1983, is 8.64 percent for their first semiannual interest period. Older Series EE and E Bonds and U.S. Savings Notes will also receive this market-based rate for six month interest-accrual periods starting between May 1 and October 31.

The market-based rate is 85 percent of the market rate on Treasury five-year securities during the previous six months. Series EE Bonds issued since November 1, 1982, must be held at least five years to qualify for the rate. Accrual-type Savings Bonds and Notes issued before that date are eligible for market-based rates if held and earning interest to the first interest-accrual period beginning on or after November 1, 1987.

The rate for the previous market-based period—November 1, 1982, through April 30, 1983—was 11.09 percent, and the average yield for the two periods is 9.87 percent. This average is part of the market-based formula only for eligible bonds issued on or before April 30, 1983. The average yield will change as each new six-month rate is averaged in with previous six-month rates earned from November 1, 1982 or the issue date on the bond, whichever is later.

Public reception of the market-based interest system has been very positive, according to the U.S. Treasury Department. Sales have increased over comparable year-earlier figures each month since the system went into effect. Since January, sales are up nearly 30 percent, while redemptions have dropped by a third.

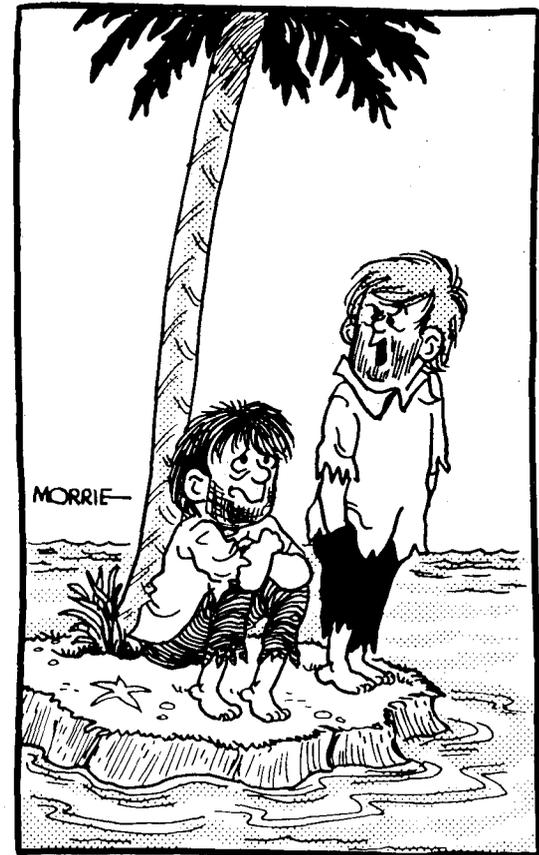
Treasury officials say that with payroll savings activity—the major way bonds are sold—also showing

upward movement, the market-based interest system is apparently returning the bond program to a solid, competitive position among savings instruments.

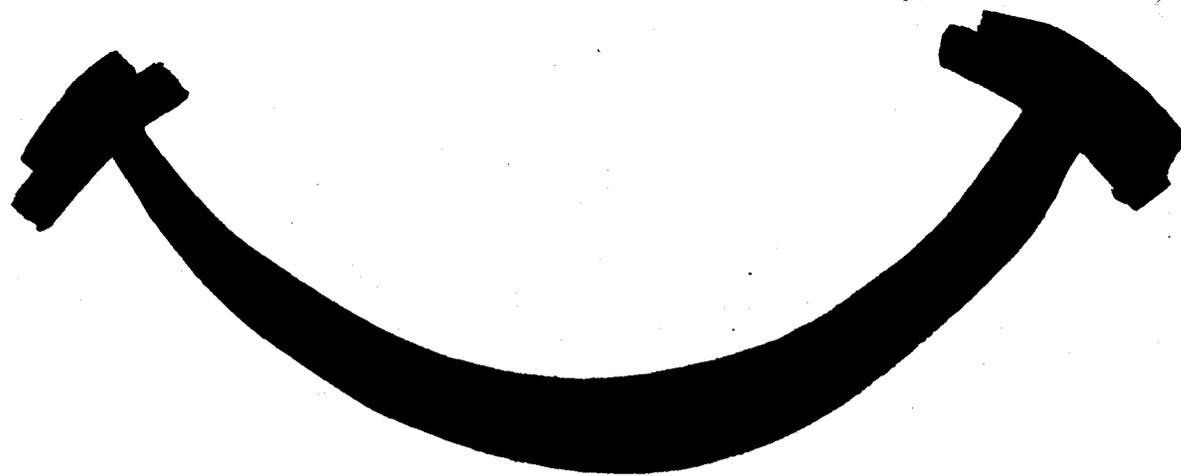
The redemption value of a bond held five years or longer is determined by the Treasury Department by averaging the marketable five-year rates during each semiannual period, and compounding the result semiannually from the first period. Bonds receive the semiannual market-based rate for their respective semiannual interest periods beginning on or after each May 1 and November 1. Bond holders can find redemption values of their bonds using the Table of Redemption Values provided by the Treasury Department to banks and other redemption agents.

New bonds are guaranteed to earn a minimum rate of 7.5 percent per annum, compounded semiannually, if held five years or longer. The guaranteed yields on older bonds in effect before November 1, 1982, continue as a minimum to the end of original or extended maturity periods which began before that date. Minimum guaranteed yields are effective only when higher than the market-based yield. Interim yields for new issues held less than five years range from 5.5 percent after one year to 7¼ percent after 4½ years.

Savings Bonds redeemed or reaching final maturity before being held at least five years after November 1, 1982, are not eligible for market-based interest. These bonds earn interest on a fixed scale to redemption or final maturity, depending on original issue date. Series E bonds issued May 1, 1941 through May 1, 1943 and Series H Bonds issued June 1, 1952 through September 1, 1953 have reached final maturity and no longer earn interest.



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Connelly food awards presented

WASHINGTON—Some of the Army's best food service units were selected as winners of the coveted Philip A. Connelly Award during a recent competition. The award is based on excellence in food service and is co-sponsored by the Army and the International Food Service Executives Association.

According to officials at the U.S. Army Troop Support Agency, Fort Lee, Va., the award, named in honor of a past president of the association, was established to stimulate the growth of professionalism in Army food service and to provide greater incentive for individual achievement. Winners in the competition included units from the active Army and the reserve components.

Active Army winners are the Combat Support Battalion, Berlin Brigade (Germany), for large dining facility; Wightman Non-commissioned Officers Academy, Eighth U.S. Army; Camp Jackson (Korea), for small dining facility; and Company A, 1st Battalion, 27th Infantry, 25th Infantry Division, Schofield Barracks (Hawaii), for field kitchen.

New filing system in pilot testing

WASHINGTON— MARKS—the "modern Army record keeping system" designed by the Army's adjutant general's office to replace the 30-year-old "the Army functional files system (TAFFS)"—has just begun undergoing a year-long field test in a tank battalion at Fort Knox, Ky.

The new system emerged from a 1980 study on how Army record keeping can be made easier for the user. The easier the process, the less chance of missing paperwork and lost files.

Files numbered under the MARKS scheme are keyed to the administrative publications prescribing them. For example, the supply publication AR 710-2 automatically tells the user that all supply files fall under the 710-2 series.

The system also lends itself to data automation. With additional pilot testing scheduled to be in January 1984 at Knox's post headquarters, officials expect their evaluation of results could lead to Army-wide MARKS fielding in 1986. (ARNEWS)

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Announcements

Volunteers sought

RSVP, the Retired Senior Volunteer Program in Huntsville, is looking for persons retired or near retirement who are interested in applying for a local VISTA position that will involve setting up a food cooperative. The position pays a small stipend and will involve responsibility for setting up and operating a cooperative group to purchase food at wholesale and distribute it. For more information see Verna Lee Clark at the Senior Center, 300 Church St., or call 536-4481.

Youth soccer tryouts

Redstone Arsenal will enter four youth soccer teams in the AAU/USA Junior Olympics Soccer Regional Tournament in Huntsville August 6-7. Tryouts for the teams will be conducted as follows: Under 14, under 12 and under 10-Saturday July 23 at 9 a.m. Under 16-Monday July 25 at 5:30 p.m. Tryouts will be on Field #17 on Skinner Drive. Boys and girls are encouraged to attend the tryouts and must have played on a Redstone team in spring 1983. Age determination date is Oct. 1, 1983. For more information call Ron Golden 876-6469.

SAME

The regular monthly luncheon meeting of the Huntsville Post of the Society of American Military Engineers will be held Thursday, July 21 at 11:30 a.m. at the officer's club. A film about the Mount St. Helen's volcano will be shown courtesy of the Portland District Corps of Engineers. For reservations call 895-5312.

Recreation Center

Today-Movie "World According to Garp" at 2:30 & 6:30 p.m. Foosball tournament at 7 p.m. Thursday-Movie "Arthur" at 2:30 & 6:30 p.m. Bingo at 8:30 p.m. Friday-Movie "Blazing Saddles" at 2:30 & 6:30 p.m. Checkers tournament at 7 p.m. Saturday-Free coffee and fresh doughnuts at 2:30 p.m. Sunday-Live show "State Line" at 7 p.m. Monday-Video game tournament at 7 p.m. with free refreshments. Tuesday-Pool tournament at 7 p.m.

Soccer camp

Registration for the first Redstone Arsenal Youth Soccer Camp is now underway. The camp will be held August 15-19 on the arsenal and will be conducted by the Alabama A&M soccer coaching staff. All children 6-18 years of age who are military family members are eligible to attend. Registration will be at Bldg. 114 on the arsenal from 8 a.m. to 4:30 p.m. Monday through Friday until August 1. For more information call 876-KIDS.

Civilian counseling

A briefing will be given on the purpose and functions of the civilian counseling services, presented by the Human Resources Development Office. Civilian employees, civilian supervisors, and military personnel who supervise civilians will be interested in this briefing covering referral, enrollment procedures, information and reporting limitations. The presentation is presented the third Tuesday of each month. This month's meeting will be held in bldg. 5250, room A-115 from 8:30 a.m. July 26.

Flying club

The Redstone Flying Club will hold its mandatory Quarterly Safety and General Membership Meeting on Thursday, July 21 at 7 p.m. in building 5250, room A-115 instead of its regular meeting place.

Found items

The people who lost a softball glove and pair of rubber-spiked shoes at the picnic can claim them by calling Perry at 536-1404.

There were other lost items turned in to the custodian at the civilian recreation area. To claim them call 876-6862.

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10-501 ENGINEERING REVIEW I Sat. 8:00-12:00 noon
An intensive survey or review of mathematics, chemistry, engineering economics, statics, fluids, and mechanics of materials. Followed by 10-502, prepares for professional examinations. Background: studies or experience in engineering. Instructors: various faculty members.

11-301 ELECTRICAL CIRCUITS MW 6:50-9:00 p.m.
An introduction to the analysis and design of electrical circuits. Background: prior or concurrent study of basic calculus. Instructor: Raymond C. Watson, Jr.; Ph.D.; Southeastern Institute of Technology.

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

11-581 SIGNAL PROCESSING TT 4:30-6:40 p.m.
A study of signal characteristics, detection and estimation, and processing techniques. Background: basic knowledge of signals and higher mathematics. Instructor: E. Ray McKee; Ph.D.; U.S. Army Missile Command.

14-511 STRESS ANALYSIS Sat. 8:00-12:00 noon
An introduction to the analysis of mechanical stress and design of stressed elements. Background: knowledge of statics. Instructor: Geoffrey L. Hearne; M.S.E.; Teledyne Brown Engineering.

14-521 APPLIED AERODYNAMICS TT 4:30-6:40 p.m.
An introduction to the analysis of atmospheric flight of aircraft and missiles. Background: basic knowledge of fluid mechanics. Instructor: Terry F. Greenwood; Ph.D.; NASA Marshall Space Flight Center.

17-301 COMPUTER PROGRAMMING TT 4:30-6:40 p.m.
An introduction to computer programming using Fortran. Background: basic knowledge of college mathematics. Instructor: Marvin Polan, M.Sc.; Teledyne Brown Engineering.

17-309/509 PROGRAMMING LABORATORY *TT 6:50-9:00 p.m.
Guided (309) or independent (509) hands-on practice using advanced personal computers. Credit 1.5 units; fee \$120. (*) Primarily hours arranged. Instructor: John L. Montgomery; B.S.M.E.; Dynetics, Inc.; Consultant.

17-514 COMPUTER DATA STRUCTURES Sat. 8:00-12:00 Noon
A study of logical data structures and their machine processing. Background: basic knowledge of Fortran programming. Instructor: Maurice M. Hallum, III; D.Sc.; U.S. Army Missile Command.

17-551 MICROPROCESSOR SYSTEMS MW 4:30-6:40 p.m.
An introduction to the hardware, software, and applications of microprocessors. Background: basic knowledge of programming and circuits. Instructor: J.B. White; Ph.D.; General Electric Company.

17-622 ADVANCED PROGRAMMING: ADA TT 6:50-9:00 p.m.
An examination of the development, structure, and applications of the Ada language. Background: knowledge of high-level programming. Instructor: Jerry R. Brookshire; Ph.D. Candidate; U.S. Army Missile Command.

17-631 ARTIFICIAL INTELLIGENCE TT 4:30-6:40 p.m.
An examination of the theory and applications of intelligent computer systems. Background: good knowledge of computers and programming. Instructor: Virginia P. Kobler; Ph.D.; U.S. Army BMD Advanced Technology Center.

21-513 LEADERSHIP DEVELOPMENT TT 6:50-9:00 p.m.
An introduction to the concepts and processes for effective leadership development. No particular background required. Instructor: Phillip W. Williams; D.P.A.; Comtel-South, Inc.

21-611 MANAGEMENT RESPONSIBILITIES Sat. 8:00-12:00 noon
An examination of the functional and societal responsibilities of management. Background: degree or equivalent. Instructor: Donald Jackson; Ph.D.; DJ Associates.

21-695 SEMINAR: MEGATRENDS M 6:50-9:00 p.m.
An advanced management seminar on major trends that are transforming the Nation's future and the effects on management. Credit 1.5 units; fee \$120. Instructor: Richard H. Shuford, Jr.; D.B.A.; Management Consultant.

24-552 CONTRACTS ADMINISTRATION MW 6:50-9:00 p.m.
An introduction to contracts administration emphasizing contracting by and with the Federal government. No particular background required. Instructor: Eugene R. Andrzejewski; M.B.A.; Teledyne Brown Engineering.

24-632 DECISION INFORMATION ACCOUNTING MW 4:30-6:40 p.m.
An examination of managerial accounting and information systems for decision making. Background: basic knowledge of accounting desirable. Instructor: Richard H. Shuford, Jr.; D.B.A.; Management Consultant.

27-671 R&D PLANNING AND CONTROL TT 4:30-6:40 p.m.
An examination of planning and control process in R&D organizations. Background: studies or experience in management. Instructor: Julian S. Kobler; J.D., D.Sc.; Management Consultant.

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

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

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

34-541 OPTICS & ELECTRO-OPTICS TT 6:50-9:00 p.m.
A study of contemporary optics with applications in electro-optical devices. Laboratory demonstrations. Background: knowledge of physics and mathematics. Instructor: Peter D. Poulsen; D.Sc.; Adjunct Systems, Inc.

34-671 PARTICLE-BEAM SYSTEMS MW 4:30-6:40 p.m.
An examination of the production, propagation, and effects of high-energy particle beams. Background: good knowledge of physics. Instructor: Thomas G. Roberts, Ph.D.; U.S. Army Missile Command.

M.B.A. PROGRAM NOW AVAILABLE

A new program leading to the Master of Business Administration (M.B.A.) degree has been approved and will be offered by Southeastern beginning with the Early Fall Term. In this program, the term "business" means much more than the traditional areas of commerce and industry; the core courses are also applicable in government agencies and nonprofit institutions. Thus, unlike many M.B.A. programs, this curriculum is well-suited for persons in all types of organizations. In the program, 36 units credit are required, distributed as follows:

21-611	Management Responsibilities	3
21-623	Strategy and Implementation	3
21-641	Behavior in Organizations	3
24-511	Operations and Customer Systems	3
24-531	Budgeting and Financing Processes	3
24-615	Economic and Legal Factors	3
24-632	Decision Information Accounting	3
17-501	Computer Methodology or Intermediate/Advanced Software Course	3
31-504	Quantitative Analysis Methods or	3
31-625	Operations Research Techniques	—
	Management, Software, or Mathematics Electives	9
	Total Credits	36

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- Master of Science in Management
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