

# Redstone Rocket

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## BMDATC has plan

# Alternative work schedules allow long hours, off days

BY SKIP VAUGHN

Alternative work schedules allow workers in some federal agencies to work flexible hours such as four-day work weeks.

One local Army agency, the Ballistic Missile Defense Advanced Technology Center, has included a form of alternative work schedule in its proposed labor contract, according to the union's chief negotiator. The contract is pending final approval by Department of the Army.

Meanwhile, Congress at last report was considering a bill that would make alternative work schedules or flexitime a permanent program. The program has temporarily been extended through Sept. 30, the end of the fiscal year.

The alternative work schedule authority was originally due to expire July 23, 1985 but President Reagan signed emergency legislation that extended it through September.

### Two types

There are two main types of alternative work schedules. One is called the flexible schedule.

"In the flexible schedule, the hours that are worked during the day can vary. In other words it's not a fixed schedule. Employees can choose their working hours," said Nita Dawson, an employee relations specialist in the civilian personnel office. "There would be limitations as far as setting up the hours. You can't come to work before a certain time and you can't stay past a certain time but you can vary your working hours within those parameters."

For example, management might tell the workers to come into work no earlier than 6 a.m., leave no later than 6 p.m., and be at work between 9 a.m. and 3 p.m. On Monday someone might come in at 7 a.m. and work till 4:30 for a total of nine hours. On Tuesday that person might work eight hours, from 7-3:30. Workers can build up credit hours so that if they work more than 80 hours in a pay period (two weeks), those hours count toward time worked in the next pay period. Workers can carry over a maximum of 24 credit hours.

### Compressed work schedules

The second main type of alternative work schedule is called compressed work schedules.

"Under the compressed work schedule, your arrival and departure time from work is fixed ahead of time. But what it amounts to is you work your 80 hours in a pay period in less than 10 days. You work more than eight hours a day," Dawson said.

There are variations of this. People might have a four-day work week where they work from 8 a.m. till 6:30 p.m. Monday through Thursday, and have Friday off. Others might work their 10 hours on a different time schedule.

Besides the four-10 plan, workers might have a three day work week where they stay 13 hours and 20 minutes a day for three days.

A third variation is called the five-four/nine plan. "You work nine hours a day for eight days, and then eight hours for one day during the two-week period, and then you're off one day," Dawson explained.

### BMDATC's plan

The Ballistic Missile Defense Advanced Technology Center and the union recently agreed to a compressed work schedule as part of their first ever contract, according to Bill Watts, a general engineer and union officer. "All the parties agreed to alternative work schedules for BMDATC," he said.

Their plan, pending final approval by Department of Army, would be the five-four/nine variation. Workers would get one day off per pay period and still put in their 80 hours by extending the work day one hour. For week one, they would work five nine-hour days. The second week they would work three nine-hour days and one eight-hour day and be off for one day.

"The organization will still work 10 days per pay period but the people will stagger that day off," Watts said. "The days off will be staggered among the employees such that we will still maintain business as usual."

### Contract

The plan would apply to all the approximately 75 workers at BMDATC, including professionals and nonprofessionals. The plan is a section under the contract's hours of work article, just one of about 72 articles in the contract. Other articles include such working condition topics as office space and parking. It is the first contract ever between the union local and BMDATC, according to Watts, an engineer in

BMDATC's discrimination directorate and vice president of the professional unit at the agency. The agreement came after two and a half years of negotiations including a "hiatus of about 10 months," he said.

Watts served as chief negotiator for Local 1858 of the American Federation of Government Employees. Dennis Garrison, a retiree who is a past national president of AFGE, was an alternate negotiator. Helen Jenkins, chief of the program management office at BMDATC, was chief negotiator for management. Fan King, a group leader in BMDATC's radar directorate, served as management's alternate negotiator.

The two-year contract was signed locally in early September. Pending approval by Department of the Army, the earliest it could go into effect would be the first of November. This allows for the 30 days before a contract can be implemented after approval by the Army.

### A first

BMDATC's plan would be the first alternative work schedule system adopted by a local Army agency. Since about 1979, the Missile Command has had flexitour which allows workers to select their eight-hour schedule (as long as they're at work between 9 a.m. and 3 p.m.).

"You're not allowed to work in excess of eight hours one day in order to shorten the next work day. That's one difference between flexitour and a flexible work schedule," said Dawson, the employee relations specialist.

Army agencies with alternative work schedules include the Nashville District of the Corps of Engineers and the Army Materials and Mechanics Research Center at Watertown, Mass.

Issues that would have to be looked at before starting an alternative work schedule, Dawson said, include impact on mission accomplishment, energy conservation, and quality of life. "How's it going to impact efficiency of government operations. Is it going to help us or hurt us. Those things would have to be answered," she said.

Watts of BMDATC believes alternative work schedules have a positive impact.

"It's a great boost for morale. It allows employees to conserve their sick leave," Watts said. "It's the most popular issue associated with our contract."

# Warrant officer changes expected to help system

The soldier who deals with warrant officer personnel matters at the missile school believes approved changes to the warrant officer system will be beneficial.

Changes, approved by the Army this summer, will affect length of service, training and assignments. A related legislative package would create a CWO 5 grade and provide for automatic integration into the regular Army at promotion to grade CWO 3.

"There's going to be improvement in job satisfaction," said CWO 4 Hercules Maxwell, of the Propensity Office at the Missile and Munitions Center and School. "The life cycle management of a warrant officer will be more clear and institutionalized. By institutionalized, I mean we've got it in concrete now (with these changes) and it's mandatory for everybody to abide by it."

Army officials have cautioned that the creation of the new grade and other items included in the legislative package are still years down the road, but changes to warrant officer training and assignments could begin within a year and a half.

"One of the areas that's going to be changed is managing warrant officers by warrant officer service rather than active federal service as is currently being

done," Maxwell said. This can extend a warrant officer's career to 30 years from the time he or she is appointed a warrant officer.

The current system counts a soldier's enlisted time in service along with time as a warrant officer. So someone who was an enlisted soldier for 10 years before becoming a warrant officer could only serve as a warrant officer for 20 more years for a total of 30 years service. The change would mean that person could serve 30 years as a warrant officer.

This will mean a soldier could be a warrant officer longer than under the present system. "The warrant officer corps is sustained from the enlisted ranks," Maxwell said. "The majority of the warrant officers that are being appointed today have enlisted time in service ranging from six years up to 14 years. So that's the reason why we've got that short life-line for the warrant officer."

Another change is that the role and utilization of a warrant officer has been more clearly defined, according to Maxwell. The Army's new definition of a warrant officer is "an officer appointed by warrant by the secretary of the Army, based on a sound level of technical and tactical competence. The warrant officer is the highly specialized expert and trainer who, by

gaining progressive levels of expertise and leadership operates, maintains, administers, and manages the Army's equipment, support activities, or technical systems for an entire career."

"Key phrases in that definition are 'tactical competence' and 'progressive level of expertise and leadership,'" Maxwell said. These areas will be addressed in warrant officer schooling, which will be changed under the new system. Warrant officer entry course will remain basically the same, while the advanced course will be redesignated the senior warrant officer course and the current senior course will be renamed the master warrant officer training course. These courses will correspond with a warrant officer assignment coding system.

Position or assignment coding is another new feature. Under the current system, documents listing warrant officer positions do not note level of expertise by grade. A WO 1 can be placed in the same assignment as a CWO 4 because positions are just noted as warrant officer positions. The junior warrant officer could very well be in a higher position than a senior warrant officer. Such arrangements "entice jo

(See Warrant cont'd on page 2)



## Who's naive?

Editor:

Reference "Silent Majority" letter in the Aug. 7 *Redstone Rocket*.

The writer is addressing a discontent GS-12 employee when making the statement, "For a GS-12 you are more naive than a GS-01." Are we to assume all GS-01 employees are naive? Since when is the grade scale a measure of naivete?

Lee Ann Smith  
Supply Clerk  
Materiel Management Directorate

## More on apartheid

Editor:

I am writing to express my views on the subject of "Apartheid" in the Sept. 11th issue of the *Redstone Rocket*.

Mr. Langford, I was very proud to read your expression in the *Rocket* and I could tell that you are a warm, caring, and concerned person about mankind as a whole. You are very much like myself and I appreciate knowing that someone like you exists.

Mr. Langford, after reading your letter I discovered that you are naive about what is going on in your own country.

America has adopted an attitude toward freedom, democracy, equality, human rights, and other liberal views. But you have not considered that everyone in America does not receive these opportunities that she is supposed to uphold. America has adopted these views but she refuses to adopt black children and raise them so they can contribute their assets to the American way of life. If America could rewrite her history and change the legislation she would have a dual system, the same that exists in South Africa.

I am very, very much against the "Apartheid" policy in South Africa and pleased to see the blacks in South Africa speak out against it.

If you noticed, Mr. Langford, in my last paragraph I said the black in South Africa will speak out against it. By that I mean, there are very few people in the United States—black, white, green or purple—who really gives a damn. Now you think about that and ask someone else for support of you other than earthly man. The attitude in America is for financial gains and not social gains.

Mr. Langford, you also mentioned that no one talks about it and it is on the news everyday. The reason why is because America is guilty herself.

In the sixties, blacks in America tried to revolutionize the world through conservative efforts and

received a few crumbs for a few black to get through doors.

Mr. Langford, you can rest assured that the black in South Africa will change the view about black people around the world.

John E. Corbett

## Mail service

Editor:

I just thought I would write a letter to ask why a Consolidated Mail Facility to handle personal (unit) mail for military has not been built on Redstone Arsenal? Perhaps it could be included in the long range plans. Since military personnel that come here for a temporary assignment, training, etc., do not in/out process as permanent party personnel do there is a problem in delivering and forwarding mail because there is no record. A Consolidated Facility to in/out process all military that come to Redstone Arsenal and to handle unit (personal) mail could be a solution to the problem.

The Post Locator for all military could be in this facility to handle telephone inquiries and to maintain DA 3955 Forms. Mail could be received, delivered, and redirected from the same facility. Military personnel could pick up their mail directly from this facility. This facility should have a sufficient number of secure mail boxes to accommodate all military personnel residing in barracks on post and should be located in the troop area because a great number of the military do not have transportation and have to walk. The facility must be a secure building built in accordance with unit mail construction standards.

This facility could be managed by permanent civilian employees to eliminate the problems with personnel turnover in key personnel even though some military mailclerks could be utilized. This facility will eliminate hauling the mail to each unit for mailclerks to handle and will eliminate the mail calls in all kind of weather which is hard on the military. The only hauling necessary will be from the U.S. Post Office to the facility and hauling the redirect back to the U.S. Post Office. It could save personnel spaces and be more economical than the present system plus provide a better service to our soldiers.

Name withheld by request

## Classified ads

Editor:

Every week, I've noticed that *The Redstone Rocket* declares the following restriction for its classified ads: "Conditional statements as 'like new,' 'excellent condition,' 'runs well,' will not be printed."

Every week there appears at least one ad containing a conditional statement. The week of July 24th, I counted six such ads from a total of 19, constituting 32 percent of the ads printed.

Obviously, this was not a simple oversight.

Please, either enforce the policy, or remove the restriction, thus giving those of us who are more easily intimidated an equal chance at gross exaggeration.

Yours, like new,  
Wanda Hengel

Editor's note: The disclaimer on the classified ad page was changed this summer to read conditional statements "may not" be printed. This provides flexibility so that conditional statements can be used when space is available. If there are a large number of classified ads in a particular week, for example, conditional statements will not be used that week because of limited space.

## 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: The *Redstone Rocket*, AMSMI-G.

## Warrant

(Cont'd from page 1)

disatisfaction among the warrant officers," Maxwell said.

Warrant officer positions will be coded to prevent such problems. The position-coding system would identify WO 1 and CWO 2 as warrant positions, CWO 3 and CWO 4 as senior warrant positions, and senior CWO 4 as master warrant. Once the CWO 5 rank is approved, which could take three or four years, the master warrant slot would be filled by the most senior grade.

"The main reason for CWO 5 is to entice warrant officers to stay beyond 20 years of service," Maxwell said. Besides creating the CWO 5 grade, that legislative package would also provide year-group management for all CWO 3s and above and a single promotion system, he added.

Maxwell, 47, has been in the Army about 29 years and has been a warrant officer since 1966. His specialty is the Pershing missile system. The Lake City, Fla. (near Jacksonville) native estimates there are "at least 100" warrant officers at Redstone. He has been stationed here since 1982.

Since he plans to retire October 1986, Maxwell does not expect to see the changes go into effect. "But hopefully I'll be around to read about them," he said jokingly.



PROJECT OFFICER — CWO 4 Hercules Maxwell is a pro-penoncy project officer at the missile school.

## New investigative team targets contracting fraud

A new office specializing in the investigation of white collar crime is being established here by the CID.

"We're going to be dedicated to investigating contracting fraud in which MICOM is the victim," said Jim Pace, special agent in charge of the new CID Fraud Team-Huntsville that goes to work here here Oct. 1.

The Huntsville group, said Pace, is one of five fraud teams being established at AMC locations. Assisting Pace in the local office are agents Joe Schopper and Steve Barry.

All three men are professional CID investigators who have been specially trained to deal with contracting fraud. They will be working closely here with officials in the Legal, Security, Inspector General and Internal Review offices and also want individuals with contracting fraud information to contact them directly.

Pace said that the Missile Command was chosen as the site for a fraud team because it has "in excess of a billion dollar budget in contracting and because MICOM impacts so much on combat readiness. So we feel it is worthwhile to have this service provided to the MICOM commander."

Pace mentioned overcharging, double invoicing and collusion between contractors as the sort of fraudulent practices the agents will investigate.

The Fraud Team-Huntsville will be located in building 111, room G-44. Their phone numbers are 876-9230/9456/9457. He said callers do not have to give their names but that their confidentiality is assured should they choose to do so.

## 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.

# Hispanic presidential appointee stresses education

BY SKIP VAUGHN

The first Hispanic member in the 50-year history of the National Labor Relations Board stressed the value of education during a luncheon speech here.

"I think education is the key," said Patricia Diaz Dennis, the guest speaker at the National Hispanic Heritage Week luncheon held Sept. 18. She became the first Hispanic and second woman ever appointed to the National Labor Relations Board when she was named to the five-member board by President Reagan in May 1983. The only other woman in the board's history was appointed by then-President Ford in the 1970s.

Dennis discussed the functions of the NLRB and described how she became a member. Each member normally serves a five year term (she is filling an unexpired term that is due to end in August 1986). And each member has a staff of 22 attorneys. Dennis is a Democratic appointee of the Republican president.

"I decide approximately 1,200 unfair labor practice cases a year," she said, describing the "staggering workload that we have." Besides deciding unfair labor practice cases, the board handles representation cases. These concern elections by employees on union representation.

"We determine about 800 cases a year arising from the conduct of elections out in the field," Dennis said.

The lawyer recalled how she was sitting in her office in October 1982 when she got a call from a lawyer she knew about the possibility of her becoming a presidential appointee. "I didn't even know what a presidential personnel was," she said, referring to a White House staffer who finds nominees for the many positions a president is entitled to fill.

She described how she sent off her resume—only to be told later the people in D.C. had not yet received it. "That shows you how organized things are in Washington," she quipped. She re-sent it and they wound up with 16 copies and asked her to please refrain from sending anymore. Dennis told about go-

ing for the interview and being asked if there was anything in her background that would embarrass either her or the president. She joked that she asked the interviewer for examples before answering.

"I said I don't think there's anything in my past that would rise to the level of embarrassing the president," Dennis recalled. She told about how the FBI checked with all 27 places she had lived in her lifetime once she was nominated by the president. The process was finally finished in April 1983 and her name was sent to Congress for confirmation and she was approved.

Dennis recalled how her parents came from New Mexico for her swearing-in ceremony. "They didn't seem as awed as I felt they should be," she said. That was until her mother, a GS-5 employee at White Sands Missile Range, found out Dennis would be supervising GS-15s and senior executive people. "She said, My goodness this is an important job," Dennis recalled.

She went on to describe how the labor force has changed to more people with "information jobs" such as lawyers and accountants. She also quoted statistics that indicated a growing number of Hispanic families

are headed by women. She stressed education as "the key" for ending economic hardship and preparing youth.

Dennis, who was born Oct. 2, 1946 in Santa Rita, N.M., was the first in her family to finish college. Her brother followed her example and got a doctorate degree. She earned a degree in English in 1970 at UCLA and a law degree three years later from Loyola University of Los Angeles School of Law. Dennis was admitted to practice law by the State Bar of California in 1973.

"We must set high goals for ourselves because it is possible to achieve them," she said. "We must be responsible to each other and lend a helping hand to each other."

About 260 people attended the luncheon held at the NCO Club. Brig. Gen. John Drosdeck, deputy MICOM commander, told the attendees in a welcome address that Hispanic Heritage Week was a "week of celebration to recognize some people who have made substantial contributions to our country."

## MPs observe their 44th anniversary

Members of 291st MP Company celebrated the 44th anniversary of the Military Police Corps with a cake-cutting ceremony last Friday.

Speakers included Col. Robert O'Donnell, MICOM chief of staff, and Col. David Adderley, the director of security.

"You in my estimation are one of the most important units on this post," said O'Donnell. He commended the military police for "an outstanding job well done."

"It (Redstone) is a better place because of you," O'Donnell said.

Adderley told the military police company, "Your

task is never easy and your burden is never light." He added that it is "your duty to protect the public and bring the offender to justice."

"Congratulations on a job well done as your individual manner of performance has been outstanding," Adderley said.

During the traditional ceremony, the youngest member of the company assisted the most senior member in cutting a cake with a saber. PFC Douglas Haefner, 19, performed the honors with Adderley.

Certificates of achievement were presented to Sp4 William Mulvihill, MP of the month for August, and Sp4 Cheryl Wiley, MP of the month for September.



SPEAKER — Patricia Diaz Dennis addresses the Hispanic Heritage Week luncheon here.



TRADITIONAL CEREMONY — PFC Douglas Haefner assists Col. David Adderley in cutting cake as Capt. Dale McNeely, 291st MP Company commander, looks on.



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## Army Reserve School offers officer courses

The 3392nd U.S. Army Reserve School based in Huntsville will begin Command and General Staff College and Officer Advanced Course classes in October.

Registration is under way. Classes will be established in Huntsville and at Fort McClellan, according to Army Reserve Col. Eddie W. Davis, commandant of the reserve school.

"This program provides a ready and convenient source for Active Army officers, as well as USAR and ARNG officers in the North Alabama area, to complete their military education," Davis said.

The Officer Advanced Course is now open to Reserve and National Guard second lieutenants, in addition to first lieutenants and captains who have completed the basic course. The evening classes over the winter cover non-branch specific subjects while the two week summer phase, taught at the various Training and Doctrine Command branch schools, covers branch material subjects.

The Command and General Staff College is open to active duty, reserve, and national guard officers who have completed the officer advanced course. Night classes run from October to early May. The two week summer phase is offered several times each summer on the University of Southern Mississippi campus.

"The USAR School System is an excellent means for officers, who may not be able to attend the resident course to complete their academic qualifications," Davis said.

Satisfactory completion of the first three phases of Command and General Staff College qualifies an officer academically for promotion to lieutenant colonel. A graduate of the complete course is academically qualified for promotion to colonel and for enrollment in the US Army War College or the National Security Management Course.

For more information contact the USAR School representative at the Army Reserve Center, 2720 Patton Road, Huntsville, Ala. 35805 (phone 536-5631).

## Army's first astronaut returning to space

WASHINGTON — The first Army astronaut, Col. Robert Stewart, is making his second trip to space on Oct. 3 in the inaugural flight of the space shuttle Atlantis. Stewart, a mission specialist, will be a part of a five-man crew.

On his maiden voyage in February 1984, Stewart tested a "manned maneuvering unit," a one-man, nitrogen gas-propelled backpack that snaps onto the spacesuit's portable life-support system. The suit is now used regularly on space shuttle operations.

(Arnews)

## Satellite courses received simultaneously

For the first time since getting the technology to offer satellite courses, the Training and Career Management Division of Civilian Personnel offered courses beamed from two different satellites last week.

Since the transmissions were being made simultaneously, it was necessary to rent a satellite dish for one of the courses, said Dr. Delia Black, chief of training and career management.

One of the courses was broadcast from the Army Logistics Management Center. The other, a course in fiber optics, came from the National Technological University. The additional satellite receiver was necessary for the latter course.

"We're anticipating the installation of a permanent C band dish for seminars and related courses," Black said. That would eliminate the need for rentals.

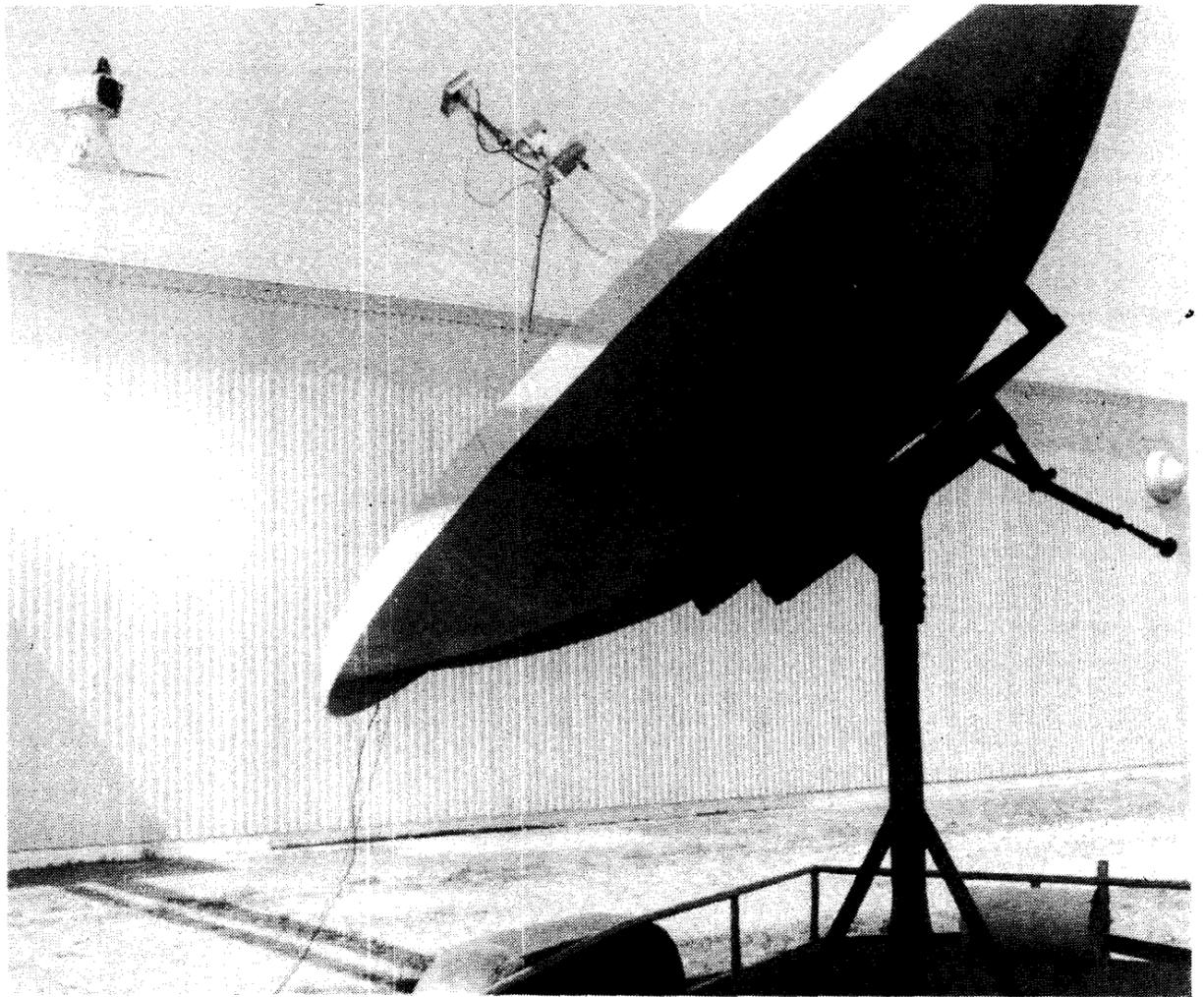
Black sees satellite instruction as the norm for in-

struction as technology advances and travel budgets become tighter.

"Chances are we couldn't have gotten the instructor here (for the fiber optics course), and in terms of sending everyone away, it was much cheaper," she said. The Missile Command paid \$1,000 for the course, and 30 workers participated.

"We automatically home in on the use of technology to provide training when there's a potential for doing so, especially when three or four people have the same training needs," she said.

Students in both classes had the ability to ask questions of the instructor. The Army class had a direct microphone link. Since the fiber optics course was broadcast to 125 locations—the ALMC course only went to five—questions were asked by a telephone connection.



VIA SATELLITE — An additional receiver was rented when two satellite courses were scheduled at the same time.

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# Auburn picked to survive at Tennessee

BY SKIP VAUGHN

The top ranked Auburn Tigers take their high-powered offense and stout defense into Knoxville this weekend to take on the Tennessee Volunteers.

Auburn is led by Heisman Trophy candidate Bo Jackson, an All-World running back. Tennessee counters with quarterback Tony Robinson who throws and runs well. Auburn is 2-0 with wins over Southwest Louisiana and Southern Mississippi. Tennessee was tied by UCLA in its opener.

Last year the score was Auburn 29, Tennessee 10. This time the game will be closer but the winner should still be...Auburn.

Skip's Picks resulted in a 21-11 record last week, bringing the overall marks to 63-31-3. Here are this week's picks for selected games in major college football:

- Air Force at New Mexico— Air Force by 10.
- Alabama at Vanderbilt— Bama by 14.
- Colorado at Arizona— Arizona by 7.
- Southern Cal at Ariz. State— USC by 3.
- Army at Pennsylvania— Army by 21.
- Auburn at Tennessee— Auburn by 4.
- Texas Tech at Baylor— Baylor by 7.
- Miami (Fla.) at Boston College— BC by 3.
- Cincinnati at Kentucky— Kentucky by 10.
- Georgia Tech at Clemson— Clemson by 7.
- Delaware at Holy Cross— Delaware by 3.
- Temple at East Carolina— Carolina by 1.
- Florida at Mississippi State— Fla. by 7.
- Kansas at Florida State— FSU by 10.
- South Carolina at Georgia— Ga. by 14.
- Houston at Louisville— Houston by 7.
- Maryland at Michigan— Michigan by 3.
- Oklahoma at Minnesota— Okla. by 14.
- Mississippi at Tulane— Miss by 7.
- Indiana at Missouri— Indiana by 3.
- Iowa at Iowa State— Iowa by 14.
- Navy at Virginia— Virginia by 7.
- Oregon at Nebraska— Nebraska by 30.
- Notre Dame at Purdue— ND by 3.
- Washington State at Ohio State— OSU by 10.
- Penn State vs. Rutgers— Penn State by 13.



- Pitt at West Virginia— Pitt by 1.
- Southern Methodist at TCU— SMU by 14.
- Texas at Stanford— Texas by 10.
- Tennessee State at Fla. A&M— TSU by 7.

- Tulsa at Texas A&M— Texas A&M by 17.
- UCLA at Washington— UCLA by 3.
- Syracuse at Virginia Tech— Syracuse by 14.
- Wisconsin at Wyoming— Wisconsin by 7.

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'84 Thunderbird #R2406 LOADED WAS \$12,500 NOW \$11,000	'83 Buick Pk. Ave. #5F810A Loaded WAS \$12,500 NOW \$11,500	'85 Honda Civic #6T27A WAS \$8,250 NOW \$7,800	'81 Chev. Citation #5T906A WAS \$3,875 NOW \$3,300	'82 Chev. Impala #F600A 4 Dr. WAS \$6,400 NOW \$5,900	'84 Toyota Tercel 4 dr #5F485B Air, 5 speed, AM-FM WAS \$7,500 NOW \$6,900	'81 Isuzu Mark I #T443A WAS \$4,700 NOW \$3,900	'82 Datsun B210 Wag. #5TB62A Air, Auto, Sunroof WAS \$5,600 NOW \$5,100	'83 Buick Regal Lim. #5F686A Loaded WAS \$8,995 NOW \$8,600
'78 Granada #5F105X Fully Equipt. WAS \$2,950 NOW \$2,000	'74 Olds Delta 88 #5F832B WAS \$1,195 NOW \$700	'79 Cadillac Deville #5F464A Like New WAS \$5,900 NOW \$4,900	'81 Escort Wagon #5F869A Air, 4 Speed WAS \$4,200 NOW \$3,900	'82 Merc. Coug. XR7 #5T955A WAS \$6,995 NOW \$5,900	'84 Chevette 4 Dr. #5TB106B Like New WAS \$5,500 NOW \$4,800	'81 Cadillac #5F877A WAS \$8,900 NOW \$7,900	'76 Malibu #6TB3B WAS \$1,600 NOW \$1,300	'77 Ply. Fury #5T947B WAS \$1,800 NOW \$1,400
'81 VW Scirocco #R2417 WAS \$6,900 NOW \$5,900	'78 Mercury Cougar # 5F413A WAS \$2,200 NOW \$1,800	'79 LTD Landau #4T768C Loaded WAS \$4,595 NOW \$3,950	'81 Malibu Classic #5F525A Like New WAS \$5,500 NOW \$4,600	'81 AMC Concord SW #5T144A WAS \$3,900 NOW \$3,400	'85 Escort #R2 Auto., Air, WAS \$7,700 NOW \$6,900	'81 Mark VI #R2374 WAS \$12,500 NOW \$11,000	'84 Mustang #R2464 Sunroof, Loaded WAS \$8,600 NOW \$8,100	'74 Pontiac Lemans. #R2328B WAS \$1,200 NOW \$700

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# Vietnam veteran survived 'to do something significant'

BY PAM ROGERS

At a time when other young men were burning the flag and their draft cards, and trying to avoid fighting in an "unpopular" war, Rich Lewis decided to join the Marines.

"I felt I owed my country something. Every young man does. I wanted to join a service I could do more in, and the Marines were more active in Vietnam then. I wanted to go and fight," he said. He was the only one in his high school senior class who joined the Marine Corps. That was in 1969.

By the end of that year he was a member of Company K, in the 3rd Battalion of the 5th Marines, part of the 1st Marine Division, operating near Da Nang in southwest Vietnam. During the next 10 months he participated in combat patrols, ambushes, raids and police actions.

It was during a patrol that Lewis was severely injured by an enemy mine. The explosion killed his four companions.

"Once the mine exploded we came under attack from a force of unknown size. I didn't know everyone else was dead. I was trying to return fire and at the same time talk on the radio," he said. The radio was one he had pieced together from two sets which were damaged in the mine blast.

Lewis radioed for helicopter gunships and medical evacuation. "It was difficult because I had wounds to my face and a concussion. I had quite a bit of blood coming from my mouth, so I took a plastic bag and wrapped it around the transmitter so it wouldn't clog with blood," he said.

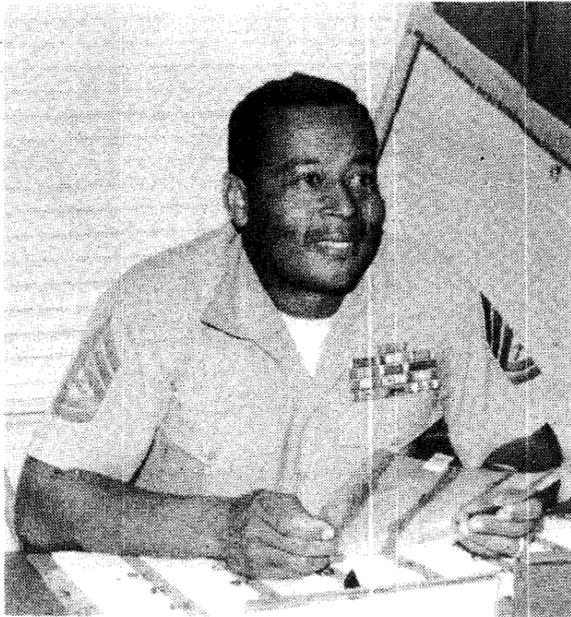
It wasn't until he was loaded onto the medivac helicopter, still bleeding profusely, that he learned the rest of the patrol was dead.

"I passed out then, and woke up in a hospital with IV tubes sticking out of me. The commanding general of the Marine forces came to the hospital to give me the Purple Heart. I was very proud to get the medal George Washington said is the most prestigious a young man could receive— but I had lost my buddies," he said.

Lewis was sent back to the United States to recover from his wounds. By the time he got out of the hospital, five months later, troops were being pulled out of Vietnam, so even though he wanted to return, he was sent to Albany, Ga. as a military policeman.

Two years later he was assigned to the USS Enterprise, and when Saigon fell in 1975, he was part of the force which evacuated American citizens and Vietnamese refugees.

Today he's a gunnery sergeant with the 3rd battalion of the 24th Marines. During the past 10 years he has been stationed in North Carolina as a platoon sergeant, has been deployed in the Mediterranean,



**HONOREE** — Marine Gunnery Sgt. Rich Lewis has been named one of the Outstanding Young Men in America for 1985.

Norway, Denmark, West Germany and Turkey as part of a NATO force, and has been a drill sergeant.

Lewis, 35, has been awarded the Navy Achievement Medal twice, and after 12 years of taking courses, he expects to earn a bachelor's degree in business administration from Columbia College in December. He has also been named one of the Outstanding Young Men in America for 1985.

"I started taking college courses while I was on sea duty. It was difficult, because we were always deployable, but I took courses here and there, every chance I got. When I got here in 1983 I started going real hard. The more I went, the more I wanted to go. It's sad coming down to the end now," he said. Lewis plans to attend the Florida Institute of Technology to earn a master's degree. He was assisted in his education here by the Army's education center at Redstone.

Since coming to Huntsville in 1983, Lewis has performed his primary duty of rifle training for two units, served as educational NCO, and has participated in three burial details. Through his efforts, a unit which was basically untrained at the outset was able to win an award for outstanding infantry unit, said Marine Capt. Scott Duke, inspector-instructor.

In his spare time, Lewis works part time as a security guard for the Von Braun Civic Center, volunteers with senior citizens in the community, and runs 30 miles a week.

Lewis will retire in four years. He plans to spend most of his time on a cattle farm he owns in his hometown of Forest Home, near Montgomery. His parents, Rich and Nettie, own a farm nearby.

"I want to have a pond with bass and brim— fishing is my number one hobby. I'll go back and raise cattle, maybe build a hog parlor, and I might try to get a job as a loan officer in a bank," he said.

Lewis has two children by a former marriage. His daughter, Kenyatta, is 9, and son Chance is 7. He says he'll encourage his son to serve some time in the armed forces.

"I feel it's the responsibility of citizens in a democratic society to serve their country, at least for an initial enlistment," he said.

"As long as I can remember, I was never like other boys. I'd play with them, but there was always something calling me off to the side. I wanted people to remember something good about me. After Vietnam, I felt God left me here to do something significant. Otherwise, he would have taken me along with them."

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# Life after 2000: How we'll communicate

By Barbara S. Moffet

National Geographic News Service

When communications technology was introduced to the computer, it may not have been love at first sight, but it certainly looked like a promising romance.

Today the two are practically inseparable. "It's getting awfully hard to tell the difference between modern call-processing equipment and a computer," says Dr. Joel Krugler, director of GTE's Telecommunications Research Laboratory.

The romance is still in the honeymoon stage, but by the next century the union will be complete, its effects permeating nearly every aspect of American communication. In some forms of communication, such as mail, the effect will be a new, possibly intimidating intrusion of electronics.

In others, the computer will be so sophisticated that they may go unnoticed. Artificial intelligence research, for example, will create computers that will respond to voice commands, requiring neither special knowledge nor a keyboard.

## Telephones undergo revolution

A dozen revolutionary technologies will turn the telephone into an intelligent, multipurpose device. But rather than feel totally at the mercy of the phone's ring, the owner will have some control.

"No longer will the calling party have all the rights," says Bob Foster of American Telephone & Telegraph Co. Bell Laboratories. Nuisance calls will be avoidable; the phone system will be programmed to trace an unwanted call and reject future calls from that number.

By about the year 2000, a telephone network of optical fibers will have burst into the home, carrying a deluge of diverse information — news, electronic mail, banking and shopping services, entertainment. Both telephone and television equipment will be converted to digital transmission — using rapid pulses of electricity or light — greatly expanding capacity and enhancing quality.

Television itself, "smartened" by computer chips, will be in even greater demand, a half-dozen services competing for its use. But the television owner will have much more control than he now has over what appears on the screen and when. All telecommunications will be boosted by silicon chips that may be three times as powerful as they are today.

Convergence of these technologies, along with souped-up satellites and other innovations, will blur the distinctions among traditional methods of communication. Telephone, typewriter, television, video recorder, copier and mailing and filing systems will work together to create new ways of communicating.

## Electronically deprived Americans?

But one fear is that as basic forms of communication become electronic, society may divide into "information haves and have-nots." Some Americans may lack the financial or technical ability to survive, says Gary Arlen, president of Arlen Communications, a Bethesda, Md., consulting company. "Will we have information stamps' like the food stamps of today?" he asks.

Most of the new technologies share a purpose: letting the communicator be somewhere he's not. The next step in their evolution will be "telepresence,"

says Dr. Robert W. Lucky, a research director at AT&T Bell Laboratories.

This form of artificial intelligence will allow a person in one place to see through the eyes, hear through the ears, and feel through the hands of a robot in another place. "But the world could get pretty boring," Lucky admits, "if everyone just sat still and let robots do all of the interacting."

The prospect of global communications worries some sociologists, who fear that it could unleash an information overload, as freeways have inadvertently encouraged traffic. Growing reliance on satellites poses another peril: accidental or deliberate disruption of services with a laser device used by another nation.

As more activities are carried out electronically, isolated from human contact, chances for loneliness, family discord, and mental illness go up, Ian Reinecke points out in a book, "Electronic Illusions."

"The technology is going crazy," says Lucky of AT&T, "but the social knowledge is coming a lot more slowly."

What effect will computer proliferation ultimately have on the English language? Because computer time costs money, two-way computer conversations undoubtedly will contain such abbreviations as "chatawhile?" that will infiltrate everyday talk. But words will be easier to keep up with when a pocket computer can hold the entire Oxford English Dictionary.

New technologies will add to the century's lexicon. But global communications should be smoother, because English will be the most universal language.

Here are some forms of communication and their future:

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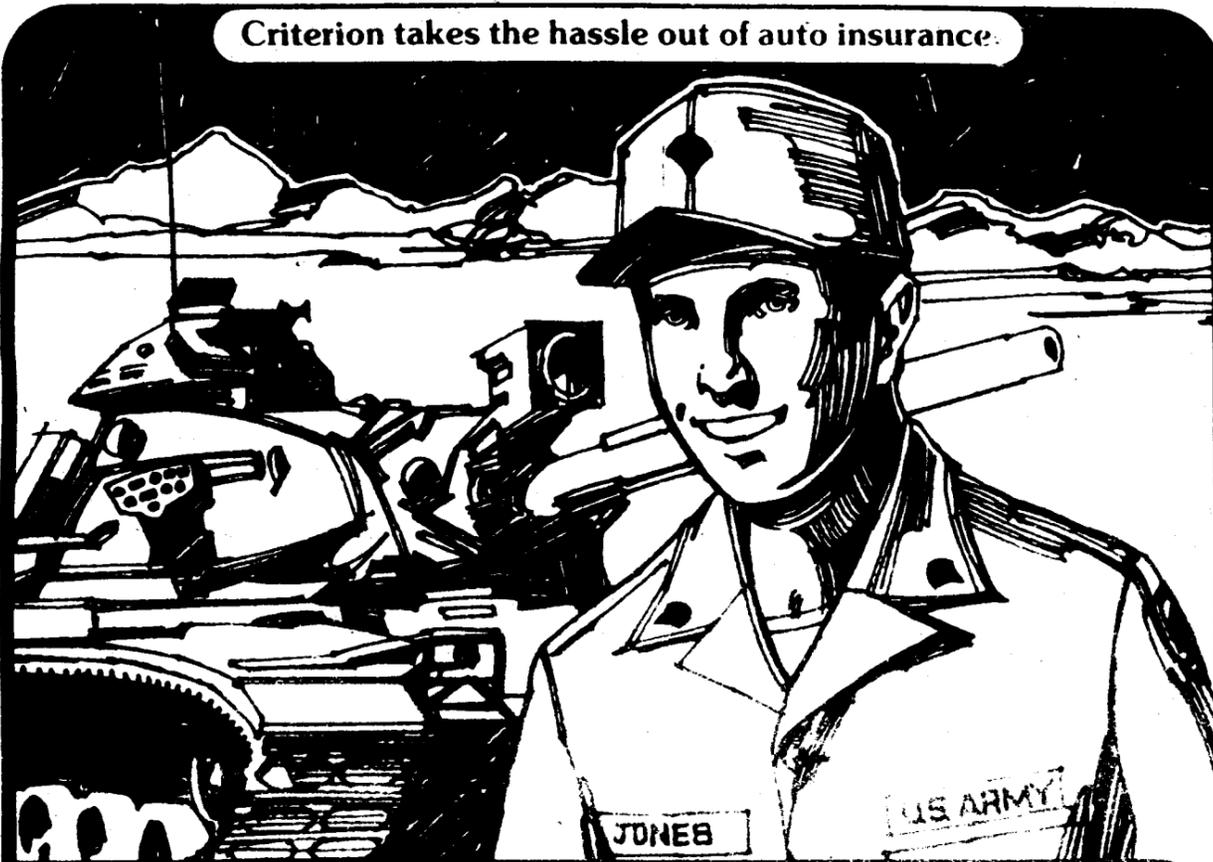
The postman may be a rarer sight after 2000, replaced by an electronic mail system. With a computer terminal, a "modem" to translate messages into electronic signals, and an ordinary telephone, people will be able to send anything from personal messages to complicated documents almost instantly.

Several companies are anticipating a future electronic mail boom. Federal Express Corp., for example, is moving toward the day when overnight delivery will sound sluggish. Many future documents will move automatically.

"The message will go from a company's roof antenna to our satellite, then to a telehub for processing, then broadcast to the destination," says Allan McArtor of Federal Express. "Eventually we want to offer anyone in the world who has an antenna and a facsimile machine access to whatever information they need."

Today, 100 million electronic mail messages a year, excluding interoffice communications, are being sent. But postal officials say they expect conven-

(See Life After cont'd on page 10)



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# Hunters, anglers to have their day here

Redstone will observe National Hunting and Fishing Day for the first time this year, with displays and activities designed to appeal to all family members.

Jan Wimberley, a recreation assistant at Outdoor Recreation, is planning the event, which will include displays of taxidermy, wildlife woodcarvings and portraits, boats, and four-wheel-drive vehicles.

"Mostly, what we're trying to do is show conservation on Redstone Arsenal. There are a lot of retired military and different people who don't even know we exist," Wimberley said.

Several organizations, including the Audubon Society, Wheeler National Wildlife Refuge, Ducks Unlimited, and the post and state game wardens, will have displays, Wimberley said.

Demonstrations of trap and skeet shooting, bird dogs, fly tying, duck calling, and black powder rifles will be given, and there will be a children's shotgun safety class and day-long turkey shoot. Admission for the turkey shoot is \$2 a shot. Ten turkeys and 10 hams will be given as prizes.

The day has been designed to appeal to people who don't fish or hunt, as well as those who do, Wimberley



said. The activities will begin at 10 a.m. and run until about 5 p.m. Admission is free. For more information call 876-4868.

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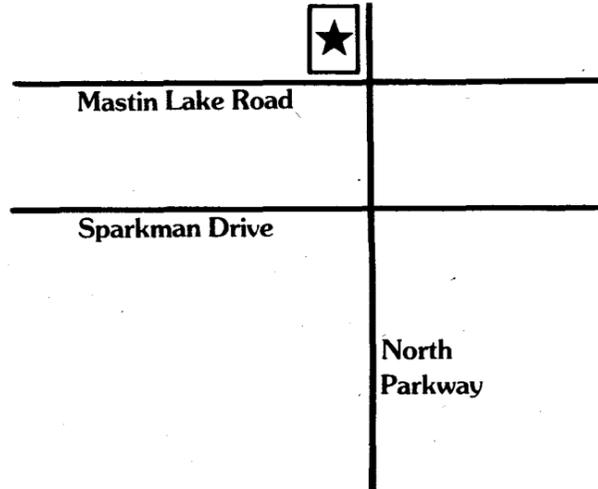
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# Life after

(Cont'd from page 7)

tional mail delivery to continue well into the next century. If, as some predict, bill-paying goes totally electronic, the Postal Service may be scraping for business.

● **Newspapers, Magazines, Videotex**

Cleaner fingers will be one benefit of the 21st century newspaper. That generation of printing presses will use flexography, a technology guaranteeing sharper printing and ink that won't rub off.

Next century's newspaper may not have classified ads and stock quotations. Instead, those space-consuming features will be accessible through videotex, the marriage of the telephone and home computer or television screen. "If you're looking for a certain kind of car, for instance, you would key in the information and a list of candidates would appear on your screen," explains Gary Arlen.

Videotex will provide some news, airline schedules, and other specialty information. A few such services already exist. Dow Jones News/Retrieval, for example, sends 35 services to its customers, most of them using personal computers. Future videotex probably will be used for banking, shopping and planning vacations.

Another newborn technology, videodisc, may replace some future magazines. The videodisc will provide a moving-picture version of a magazine that can be delivered through phone lines and played on a home device.

● **Telephones**

A digital form of transmission will allow people and computers to communicate over enormous distances with nearly perfect reproduction of information. Hair-thin optical fibers, replacing today's copper cables, will bring a flood of information services to homes. "With fiber optics, there will suddenly be a superhighway of communications into the home," says Lucky of AT&T.

Some telephones also will be low-cost computer terminals. Eventually, callers in two cities may view a graph or document simultaneously over their phone displays. Voice commands may replace phone dials.

Another technology could allow people to assign

priorities to callers, using "personal keys" — codes given to certain friends. People may have a lifelong phone number, assigned at birth. "The whole concept of dialing will change," says Lucky. "You'll dial a person, not a place."

Mobile phones in today's cars and airplanes, based on cellular technology, are steps toward personal satellite communications. "By 2000, I would expect to see the equivalent of the Dick Tracy wrist phone," predicts Krugler of GTE.

But mobile phones could threaten privacy, warns Stuart Crump Jr., editor and publisher of *Personal Communications* magazine. "If you have a wrist phone on all the time, someone could track you and compile a dossier on everything you do," he says. "But you'll be able to walk the streets at night and feel that help is available at the touch of a button."

By 2000, the globe will be ringed with ocean-floor optical fibers that will use laser beams to shoot digital bits of information along strands of glass, with less distortion and far more speed than in metal cables. "Today's computer transmission is so slow between continents that weather has already gotten to Europe before the information about it does," says Frank Tuttle of AT&T.

The ultimate in international communication may be the Integrated Services Digital Network, which someday is expected to tie together all the world's conversations and data and picture transmissions. With such standardization, computer systems in all countries could communicate and, some say, finally create a paperless society.

● **Television**

When you awake on November 7, 2000, Election Day, you may go no farther than your TV screen to vote. It will be a vehicle for cable and direct-broadcast satellite television, videocassette recorder and videodisc player, home computer, videotex information wires and video games.

Two-way videos may become commonplace. One possible use: doctor and patient could discuss symptoms and diagnosis "face to face."

In the 21st century, television itself will be "smart," a member of the computer family, speak-

ing a digital language. The transition now underway to digital picture fidelity will produce a super TV, one that will repair itself, provide a sharp picture, freeze frames if desired and display two or more channels on a split screen.

Long before 2000, TV sets and programming will have gone stereo, allowing, for instance, a program to be broadcast in two languages at the same time. Cable TV eventually may be replaced by "fiber TV" when a network of optical fibers funnels programs into homes. And interactive cable will deliver the movie of one's choice at the touch of a button, eliminating the need to buy or rent videotapes.

Later in the 21st century we may watch three-dimensional television, based on the laser technology of holography. Holographic TV will make digital technology look primitive, says Dr. Stephen A. Benton, senior scientist at Polaroid Research Labs. But, he says, "There are several world-class inventions between here and there."

● **At the office**

The small business office of the future may be nothing more than a portable package of communications equipment. An executive may drop in the office infrequently, meanwhile toting an electronic briefcase bearing a screen, keyboard and small phone. Some dictation will bypass a secretary; memos may be spoken into voice-recognition units that will display words on a screen for immediate editing.

● **Books**

Textbooks replaced by terminals, and encyclopedia volumes by video disc? Maybe. The future library may not be a place, but a service. "Many books will be in electronic form and accessible by wire or satellite," says Bob Zich, planning director for the Library of Congress. "People may do research at the Library of Congress without coming to Washington."

Some books can't be replaced by a computer, no matter how compact it is. "The printed word has survived other revolutionary changes," says Edward Cornish, president of the World Future Society. "It is likely to survive the computer era, too."

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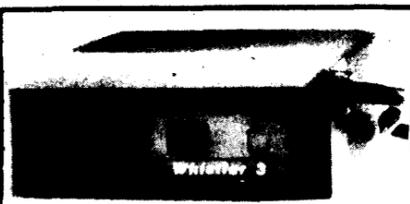
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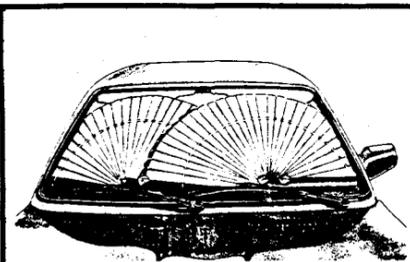
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## Army uniform and appearance regulation being updated

WASHINGTON — A revision of the Army's uniform and appearance regulation allows soldiers another year to wear the olive green undershirt, and addresses wearing non-issued prescription glasses as well as prescription and non-prescription sunglasses.

The updated AR 670-1, "Wear and Appearance of Army Uniform and Insignia," is effective Oct. 1, but is not expected to be fielded until December, said MSgt. Kathleen Harvey of the Army's Uniform and Appearance Team in the Pentagon.

In the meantime, the Office of the Deputy Chief of Staff for Personnel has sent a letter to all major commands explaining the changes.

The wear-out date for the olive green undershirt was originally established for Sept. 30, but has been changed to Sept. 30, 1986. "We extended the date because of an excess supply at clothing issue points," said Harvey.

Previous versions of the uniform regulation did not address wearing glasses. "There has been a lot of confusion at the units about wearing commercial glasses and sunglasses while in uniform," Harvey said. The new version specifies: "Conservative civilian prescription eyeglasses are authorized for wear with Army uniforms. Fad style lens and frames are not authoriz-

ed. Conservative prescription and non-prescription sunglasses are authorized for wear in a garrison environment except when in formation. Individuals who are required by medical authority to wear sunglasses for medical reasons other than refractive error, may wear them except when safety considerations apply. Fad style lens and frames are not authorized." Determination of fad style can be made by the commander. Refractive error is the common eye disorder of near- or farsightedness.

The "U.S. Army" and fabric nametapes worn on utility uniforms can now extend from end to end above the pockets. The previous policy limited the tapes to be 4-1/2-inches long and centered on the pocket. "Nametapes which are at least 4-1/2-inches long are still authorized," Harvey said.

Nameplates may now be either of gloss or non-gloss finish. Before this change, nameplates were required to be matte, or non-gloss.

The olive green baseball cap [OG 507 utility cap] is no longer a wearable item. From now on the BDU cap will be worn with all utility uniforms, unless organizational headgear is authorized.

Unit crests are no longer authorized for wear on olive green field jackets [OG 107], white dress

uniforms, or on enlisted soldiers' Army blue uniforms. The distinctive unit insignia may still be worn, however, on organizationally-issued blue uniforms and other distinctive uniforms worn by bands, honor guards and other ceremonial units when approved by the local commander.

The regulation revision rescinds the authority for major commanders to approve local badges. Effective Sept. 30, 1986, locally authorized badges will no longer be authorized for wear.

This version of the regulation specifies that utility and organizational uniforms will not be worn off post except when in transit between home and duty station. From now on, exceptions to this policy may be approved by installation commanders in the U.S., and major commanders overseas, as well as by the state adjutant generals for the Army National Guard.

Finally, the regulation defines "local commander" as the commander of the installation or equivalent in the U.S., the major commander overseas and the state adjutant general for the Army National Guard. The local commander may prescribe a local policy on discretionary wear policies cited in AR 670-1, and may delegate that authority to subordinate commanders. (Arnews)

## Energy savers honored for their conservation efforts

WASHINGTON — Winners and first runners-up in the Army's seventh annual Secretary of the Army Energy Conservation Awards were honored in a recent Pentagon ceremony.

The U.S. Army Military Community in Ansbach, Germany, was the winner in the Active Army component. The community totaled a 34 percent reduction in energy consumption since 1975, surpassing the overall Army goal by 14 percent.

The Ansbach Community was cited for using "highly innovative approaches to energy conservation" such as:

— An "Energy Duck" mascot who visited schools, installation gates and public gatherings to offer energy tips, motivate children to "quack off" lights, and reward carpoolers for their help to reduce gasoline consumption;

— Energy-awareness poster and essay contests held in schools, offering contestants savings bonds as prizes;

— A 10-kilometer German-American volksmarch with the theme "We Are Partners in Stopping Energy Waste." Participants received medals with an energy slogan;

— A summer carnival's special energy booth displaying the installation's energy story and giving free gifts to those children who could give an energy tip.

The first runner-up in the Active Army category was the U.S. Army Corps of Engineers' St. Louis District; Fort Lee, Va., came in second.

The Tennessee State Army National Guard placed first [for the fifth time] in the Army National Guard category, while the Indiana state contingent placed second.

Fort Drum, N.Y., won first place in the U.S. Army Reserve category.

Secretary of the Army John O. Marsh Jr. praised these installations for their short- and long-term energy conservation efforts. He commended the degree of command emphasis represented by the award nominees, saying that sound energy management programs are essential for dealing with the national concern over the growing energy shortage.

"The program has made significant strides in energy conservation," Marsh said, citing, "savings of 19.6 percent achieved by the Army since the program began in 1975. This is only .4 percent short of the Army's 1985 goal of 20 percent," which was projected in the Army's initial planning more than 10 years ago.

The awards program was established in 1979 to recognize significant achievements by the Total Army in conserving energy. (Arnews)



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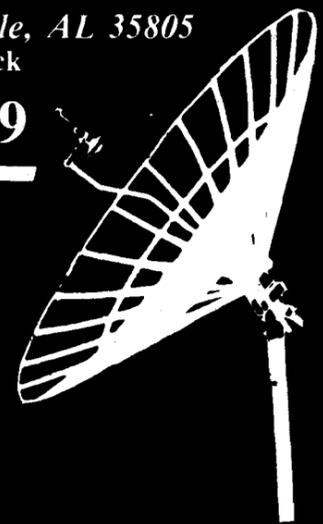
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# Officers wives to have benefit Oriental rug auction

The Officers Wives Club will begin its fund raising year next month with its second annual benefit Oriental rug auction.

Included in the auction will be rugs from Turkey, Persia, India and China, made of wool, cotton and silk. Prices probably will range from about \$50 to \$10,000, said Marianna Liberatore, auction chairman. She added that savings will vary, but prices will be less than usual retail prices.

Auctioneer for the event is John Suarez of Atlanta, Ga., who is very knowledgeable about Oriental rugs, Liberatore said.

"Mr. Suarez does recommend that you bring color swatches with you so you can match your decor," she said.

All money raised from the sale will be placed in the club's welfare fund for distribution to local charities and service groups.

"There aren't a lot of organizations that give all the money they raise to charity, but this is one. That's one reason I'm proud to be in the Officers Wives Club," said club president Pam Stieglitz.

"This is our second-biggest money raiser," Liberatore said. The art auction, which will be held March 1 and 2 is usually the biggest fund raiser, she added.

Included in the rug auction will be items of military memorabilia dating from the Civil War to World War II.

The auction, which will be held Oct. 6 at the Officers Club, is open to the public. No admission fee will be charged. A preview of items for sale will begin at 1 p.m., and the sale begins at 2 p.m. For more information call 876-2396.



PLANNING — Discussing plans for the OWC Oriental rug auction are from left, Jackie Burbules, honorary club president; Marianna Liberatore, chairman for the auction; and Pam Stieglitz, club president.

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## Drill sergeants' role noted at awards ceremony

WASHINGTON — The quality of people entering the Army today results not only from good recruiting but is also from the training by the drill sergeants at the training centers.

That's what Army Chief of Staff John A. Wickham Jr., said of today's soldiers when he presented this year's Drill Sergeant of the Year awards to SFCs Mark S. Ripka and Francis Gennarelli in a recent ceremony at the Pentagon.

Ripka, a 10-year veteran and a drill sergeant for two years at the 4th Battalion, 2nd Infantry Training Brigade, Fort Benning, Ga., received the Stephen Ailes Award, named in honor of the former Army secretary who was instrumental in establishing the drill sergeant program in 1964.

Gennarelli, an Army Reserve drill sergeant, received

the Ralph E. Haines Award, named in honor of the former commander of the Continental Army Command. Gennarelli is assigned to the 78th Training Division, U.S. Army Reserve School, based in New Jersey.

What do these soldiers say about their jobs in the Army? "We prepare the leaders of tomorrow in a number of ways," said Ripka. "We teach new soldiers self-discipline, self-motivation and make them feel they are a very important part of the unit and its mission." Gennarelli, a 10-year Army veteran of the Army Reserve and Army National Guard, considers his job the first step in training the leaders of the future: "We make them good leaders by giving them good training and leading by example. And, we assist them by giving them all the tools they need and insist they perform the tasks to Army standards." (Arnews)



### U.S. SAVINGS BONDS

## Youth soccer

Here are the standings for American Youth Soccer Organization (AYSO) Region 388, Redstone Arsenal, for the week ending Sept. 21:

*Eisenhower League (under 10)*

	Won	Loss	Tie	Points
Bobcats	3	1	0	6
Chargers	2	1	0	4
Sharks	1	0	2	2
Cobras	0	4	0	0

*Bradley League (under 12)*

	Won	Loss	Tie	Points
Lasers	3	1	0	6
Yellow Jackets	2	1	0	4

*McArthur League (under 14)*

	Won	Loss	Tie	Points
Cosmos	3	0	0	6
Panthers	0	3	0	0

*Pershing League (under 16)*

	Won	Loss	Tie	Points
RSA-I	0	0	0	0

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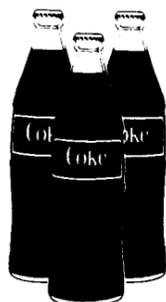
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## Free course in logistics begins Oct. 2

A group is again sponsoring a free course in logistics which, simply put, means the art and science of ensuring that you get the right thing at the right place at the right time.

The "Logistics Engineering and Management" course, sponsored by the Tennessee Valley Chapter of the Society of Logistics Engineers (SOLE), will be conducted for 15 weeks at Redstone beginning Oct. 2. It is open to everyone interested.

"What we're looking at (in logistics) is ensuring that military hardware—whether it be radios or missile systems or whatever—can be operated and maintained during their period of intended use in an economic and timely fashion and meet operational requirements," said David Dalton, a logistics management specialist supervisor here.

"So when we're looking at logistics, we're looking at the things necessary to operate, maintain and sustain hardware in use," he added.

This will be the fourth time the SOLE chapter has sponsored the course. The group is a nonprofit organization whose goal is to further the knowledge of logistics and logistics-related disciplines, according to Dalton. He is the organization's District 5 director.

"The course is being offered to anybody that has an interest in learning about logistics and, in particular,

logistics engineering," said Dalton, who works in the management and evaluation division of Integrated Logistics Support Office.

There is no cost involved in taking the course. Textbooks are loaned for free to the students. The course uses a book entitled "Logistics Engineering and Management" by Ben Blanchard, assistant dean of engineering at Virginia Tech and past president of SOLE. "That (course text) will be augmented with some of the current directives and regulations governing integrated logistics support," Dalton said.

Classes are scheduled for 5-7 p.m. Wednesdays for 15 weeks beginning Oct. 2 in room A-115 of building 5250. Certified professional logisticians and other people in areas of logistics have volunteered to serve as instructors. They include Marty Martin, a certified professional logistician in Patriot Project Office; Terry Smith, logistics management specialist in Logistics Support Analysis Office; Augie Tranquill, an engineer in LSA office; David Sparks, engineer in LSA; Dr. Jay Billings, southeast regional director of the Defense Systems Management College; and Mark Wolfson and Thomas Mizell, both of Integrated Logistics Support Office.

Anyone interested in taking the course should call Dalton 876-1275.



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# Many of world's big cities have 'sinking feeling'

BY JOY ASCHENBACH  
National Geographic News Service

London is sinking. So are Tokyo, Bangkok (Thailand), Shanghai (China), Houston, New Orleans, and even landlocked Mexico City and Las Vegas (Nevada).

More than a dozen of the world's great cities are slowly sinking into the lands on which they were built, some at worrisome rates, dropping as much as a foot a year.

Most are sagging not under their own weight, but because so much groundwater has been pumped out from under them. Most are located in coastal areas, sitting on soft sand, silt, or clay, the kind of soil that easily compacts when large volumes of water are withdrawn.

Compounding the sinking situation is the global rise in sea levels, up to a foot or more a century, which raises the risk of flooding for some cities.

## Sinking problem worsens

Although cities have been sinking for centuries, the problem has worsened in the past 40 years, according to geologists Robert Dolan and Grant Goodell of the University of Virginia's environmental sciences department. The unprecedented demand for water for people and industry has tapped the cheapest source: the ground beneath our feet.

When cities sink, buildings crack or drop unevenly, and the streets and sidewalks buckle. "People used to live with it. As structures sank, they'd build on top of them or move away," Dolan says. "There's an ancient

church in Italy's Po Valley that has three sets of columns. The first set is in the basement under water.

"But modern life complicates matters. New construction is expensive, land values are high. Subways, sewers, and often utility lines are underground, so you can't afford sudden variations in land levels. Also, over the centuries, many structures have become historical treasures and can't be moved from their threatened positions."

Venice (Italy), a classic case of a city already partially submerged by the sea, increased its rate of sinking tenfold between 1950 and 1970 by withdrawing groundwater at a time of sea-level rise. As a result, the chemical pollution in the Venetian lagoon has become a serious threat, decaying the base of buildings.

London's renowned Big Ben tower, now under repair, was cracked and leaning about 18 inches because the city has been sinking along the Thames, about a foot a century.

The \$1 billion Thames Barrier, completed last year, is designed to control storm surge from the English Channel and prevent London's vital subway system from flooding. Because of the continued sinking of the city, the barrier, 10 movable gates built side-by-side across the river, is estimated to be effective for about 100 years.

Step off the curb in Mexico City, and you may step down more than a foot in some places. The world's largest megalopolis, built 7,347 feet up on a lake bed, is a rare example of an inland sinking city. It drops as much as 10 inches a year. "The big problem is that the land does not all go down together," Dolan says. "This differential subsidence has sunk some buildings a few feet and some 18 to 25 feet."

## El Angel ascends as buildings sink

The famous El Angel monument, erected in 1910 for Mexico's centennial of independence, appears to be ascending into the sky as the buildings and streets around it sink. Every few years, a new stair step has to be added to its pedestal. El Angel itself, like other structures in the city, rests on pilings set deep in solid ground.

The entire Thai capital of Bangkok is in danger of falling below sea level by the year 2000. The water table that keeps the city afloat has dropped severely because of some 11,000 wells needed for drinking water. Bangkok has sunk nearly three feet in the past 30 years, and recently that rate has accelerated in some sections of the city.

A number of U.S. cities from Savannah, Ga., to Long Beach, Calif., are in various states of depression. Some are slight, such as Las Vegas, which is being pulled down because the enormous weight of the water trapped in Lake Mead by Hoover Dam is depressing the earth's crust. Two of the worst cases are Houston and New Orleans.

"Houston is a textbook case of man's impact on the environment," Dolan says: "low coastal area, soft sediments (clay and sand), rapid industrialization, explosive population and urbanization, and the dredging of a big ship channel."

As a result of its Texas-size thirst for groundwater, the nation's fourth-largest city has sunk four feet in the past 80 years, and its western section is expected to sink four feet in the next 20 years. To the east, whole neighborhoods in the Baytown area along the Houston Ship Channel have been abandoned to Galveston Bay.

"Sinking is an almost inevitable consequence of in-

(Cont'd on next page)

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(Cont'd from page 16)

dustrial expansion," Goodell says. Ironically, development occurs where groundwater is available and cheap.

New Orleans is so soggy that millions of gallons of seep water must be drained from it each day. About 45 percent of the city is at or below sea level. The Superdome is supported by 2,266 concrete piles driven down more than 150 feet. Unlike Houston, New Orleans is sinking from long-term natural subsidence.

"No one sat around a conference table some 260 years ago and discussed the variables in developing the site," Dolan says. "Now we have to defend it and save it."

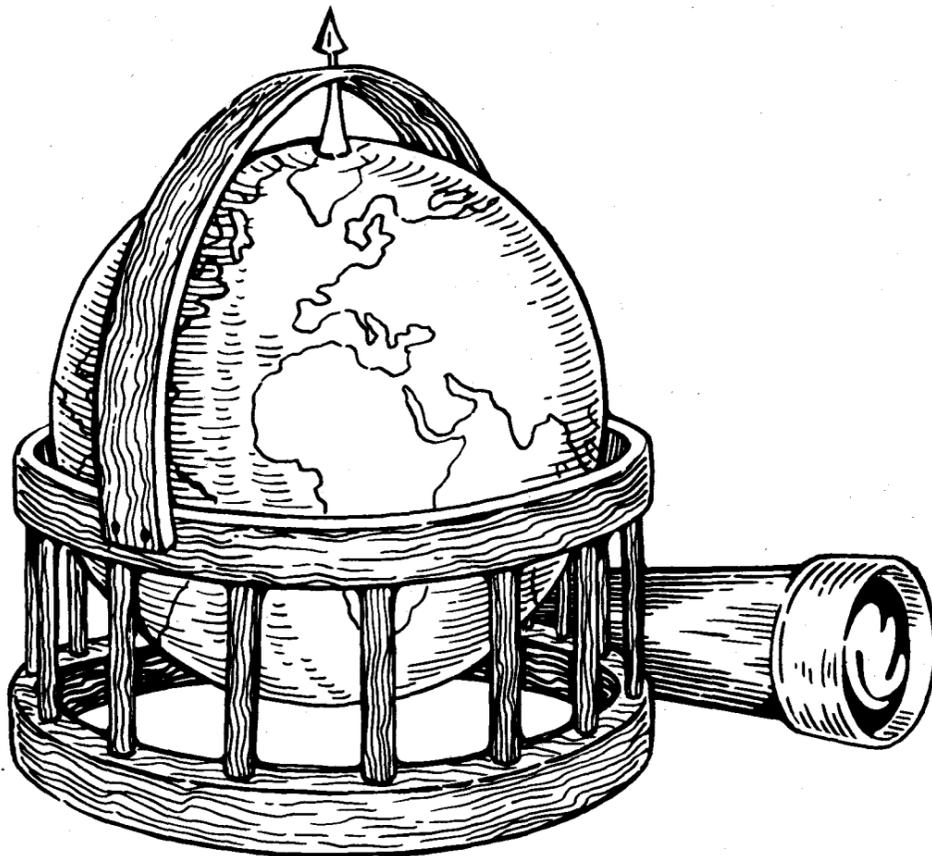
**Can the sinking be controlled?**

Almost all sinking cities have taken some steps to control groundwater withdrawals, and a number also have constructed enormous engineering works to do everything from lessen the threat of flooding to prop up sagging and leaning buildings.

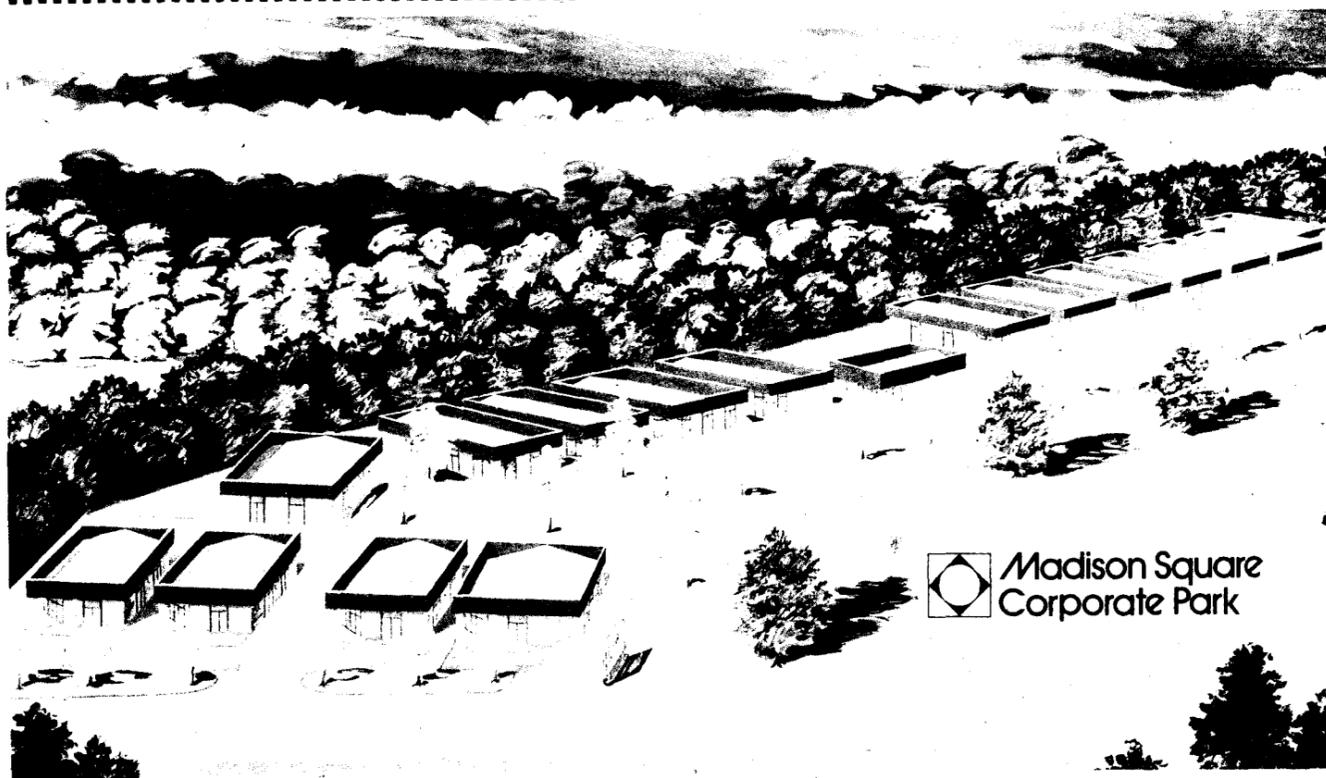
But even in cities where sinking has been slowed or stopped, there has been almost no recovery in ground elevation, the two geologists have discovered.

Additionally at risk today, Goodell says, are developing Third World cities, such as Bangladesh's capital, Dacca, that cannot afford the cost of long-distance water.

"One of the greatest engineering and social challenges of the next century will be how to save the sinking cities," he says. The staggering solutions range from raising the cities by filling soil behind dikes to packing up and moving them to higher ground.



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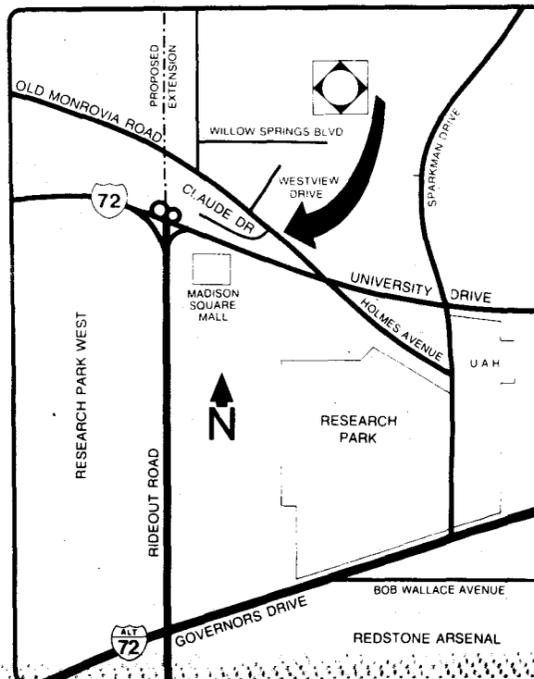


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## Announcements

### Rape prevention

A rape prevention seminar will be held today (Sept. 25) from 1-3 and 7-9 p.m. at the main post theater. All female members of the Redstone Arsenal community who were not present at one of the sessions held Sept. 5 and 10 are encouraged to attend. Military members are asked to encourage their spouses to attend one of the sessions. Female civilian workers are invited to attend, and commanders are encouraged to require female soldiers to attend.

### Top OMMCS graduates

The following service members received Honor or Distinguished graduate awards for highest academic class standing in OMMCS courses which were graduated Sept. 9-13: Sgt. Jon L. Cahill, honor, Pvt. Scott W. F. Race, distinguished, Tow/Dragon repairer course 121-27E10/35 AIT; Petty Officer 1st Class Dale G. Fleck, distinguished, CWO 2 Michael J. Reiss, honor, technical escort course 2E-AS15J/AS15/7; Pvt. Dennis W. Bell, honor, Pvt. Anthony C. Hammerquist, distinguished, ammunition specialist course 645-55B10/82.

### Recreation center

Tonight— Foosball tourney at 7. Thursday— Bingo at 7. Friday— Dick Detweiler coffee house at 7. Saturday— Belly dance class at 10 a.m., Gaming Club at 1:30. Sunday— Stratego tourney at 2:30, Tom Cambell country & western show at 7. Monday— Trivia quiz at 7.

### Mental health

Fall classes for the Institute of Positive Living will begin in early October at the Mental Health Center in Huntsville. The five classes in the program this quarter include Relaxation, Positive Stepparenting, Stop Smoking, Effective Parenting, and Assertiveness Training. Classes meet in the early evening once a week (twice a week for Stop Smoking) for five to seven weeks. Cost ranges from \$20 to \$60 per course. For more information call the Mental Health Center 533-1970.

### Learning center

The Learning Resource Center offers a course in Industrial Electronics. Topics covered include semiconductors, power supplies and amplifiers. To apply for this course or any other course offered at the LRC, submit a DD 1556 form to AMSMI-JT/LRC, building 7446, Attn: Learning Resource Center; or call 876-1061/6297.

### HELPLINE volunteers

A training program in telephone counseling and crisis intervention for volunteers will be offered by HELPLINE from Oct. 1-17. Classes will meet on Tuesday and Thursday evenings from 6:00-9:00. HELPLINE is a telephone counseling and crisis intervention program serving Madison and surrounding counties. Lines are staffed 24 hours a day by volunteers who respond to more than 16,000 calls a year. For more information call Martha Bosworth, HELPLINE 539-1000.

### PTA meeting

The PTA for Calvary Hill Magnet School will meet Sept. 26 at 7 p.m. at the school. For more information call the school 532-4750.

### ITC Founder's Day

The Redstone International Training in Communication Club will celebrate its Founder's Day with a luncheon at the Officers Club from 11 a.m. to 1 p.m. Oct. 16. All present and past members and guests are invited. Tickets are \$6.25 and reservations close Oct. 14. For tickets call Debra Henderson 876-8748 or Linda Readus 876-7211.

### Commissary deli

The commissary deli is celebrating Oktoberfest with authentic german meats available for a limited time. Included in the selection will be Nuremberger bratwurst, bockwurst, knackwurst, bloodlinks, homemade hausmacher and liverlinks.

### PX forum

The PX main store will have its second "Let's Talk" forum from 11 a.m. to 1 p.m. Sept. 27 to keep lines of communication open with its customers. The exchange manager and services/vending/concessions manager will be available to listen to customer comments, suggestions, and answer questions about the exchange.

### Commissary sale

The Army Troop Support Agency will have its "9th Anniversary Sale" from Oct. 1-31. Thousands of products will be offered at reduced prices in Army commissaries worldwide. Banners, posters and point-of-sale materials will highlight the special savings. Customers can save even more by using coupons to buy items marked down for the sale.

### 95th Maintenance Company

The 95th Maintenance Company (TMDE) had a name change two years ago but correspondence within the command still refers to the old unit name. All reference to the old name, 95th Service Company, should be changed to 95th Maintenance Company. The office symbol is AMXTM-A.

### School volunteers

Butler High School needs volunteers to work in its computer lab assisting students in preparation for the ACT tests. Labs will be open 4-9 p.m. Computers are IBM-PC. For more information call William Resha or Shirley Mohler 876-9289.

### Girl Scout calendars

1986 Girl Scout wall calendars and pocket planners are available at the Girl Scout Service Center, 4704 Whitesburg Drive South. The calendar contains 32 pages and features close-up photos of Girl Scouts in each of the five age levels. The pocket planner includes two full pages for names, addresses and phone numbers, a page of 1986 holidays, and mini calendar versions of 1986 and 1987. The wall calendar is \$1 and the pocket planner is 75 cents. Both may be purchased from 8-5 daily at the Girl Scout Service Center. For more information call 883-1020.

### Family child care

The Family Child Care (FCC) Program at Redstone will make available the USDA Food Program to all certified FCC homes. This program will help ensure that the children in these homes receive nutritionally balanced meals and snacks. For more information call Ellen Guttridge, FCC program director, 876-2752/3704.

### Handbell choir

The Heritage Ringers, a nonprofit, public service handbell choir, will hold auditions Sunday, Oct. 6 at 6:30 p.m. in the choir room of First Presbyterian Church, 307 Gates Ave. Director for the choir is Dr. Stan McDaniel, music director of First Presbyterian Church. Experienced handbell ringers are encouraged to audition. Inexperienced persons with musical and reading ability will be considered as well. To register for auditions, or to obtain more information, call 536-3354 Monday through Friday, 8:30 a.m. until 4 p.m.

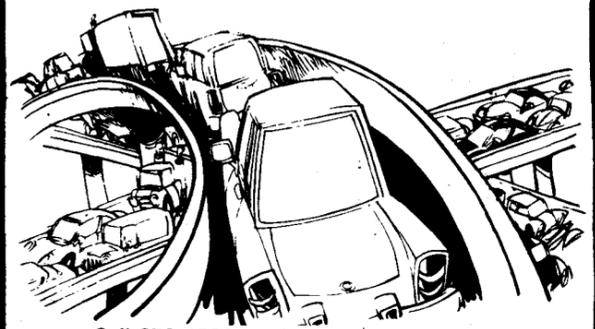
### Theft reporting

There have been numerous incidents of thefts which occurred on weekends being reported the following Monday. The Military Police work 24 hours a day, seven days a week. Prompt reporting can result in a greater chance of recovery of stolen property, according to security officials.

### MICOM-NCOA run

The second annual MICOM-NCOA five mile run and one mile fun run will be held at 8 a.m. Saturday, Sept. 28, starting at building 3434 (HHC MICOM). Everyone in the community is invited. Entry forms are available at the company, or at the inner entrance to the Post Exchange and Commissary. They will also be available at the race. The cost of the commemorative T-shirt is \$7 and it will be mailed to each participant. For more information call 1st Lt. Marjorie Doty 876-5710/4850.

## Carpool Hotline



Call 876-1500 to place your free carpool ad.

### Fayetteville

Ride wanted from Fayetteville, Tenn. to 4500 area, hours 7-3:30. Lee Gray 876-2717.

### Guntersville

Ride wanted from Guntersville Dam Road to BMDSCOM in Research Park, hours 8-4:30. Joy Harris 895-4635.

Carpool wanted from Guntersville to 3687, hours 7:30-4. Ginger Hester 876-3248.

### 9th Street

Ride wanted from 9th Street, one block off Governors Drive, to 4488, hours flexible. Anita Flowers 876-8987.

### Jordan Lane/University

Carpool or ride wanted from corner of Jordan Lane and University Drive to 8027, hours 7:45-4:15. Kathy Keeton 876-8147.

### Glasses found

Prescription eyeglasses were found at the football field on post. To claim them, call the Post Gym 876-7969.

### Soccer event

The UAH Athletic Association has invited AYSO Region 388 teams to participate in a pregame show on Saturday, Sept. 28, at 6:30 p.m. at Joe Davis stadium. A local high school band will be featured and soccer teams will parade with their coaches. Each player will be given a free UAH "shaker". UAH players will be available for autographs after the game. Proceeds will go to the UAH athletic scholarship fund.

### Metric conference

Marshall Space Flight Center and the U.S. Metric Association of Northridge, Calif. are sponsoring a national metric conference at the Hertz-Skycenter Hotel Oct. 4 and 5.

### Found property

One brown and black, free-standing shelf has been recovered. The owner may identify and claim the item at the Investigations Division in building 3649, phone 876-2090/3449.

### Alcoholics Anonymous

The Redstone Arsenal group of Alcoholics Anonymous meets each Friday afternoon at 5:15 in room 11 of the Bicentennial Chapel. This is an open discussion meeting. Anyone interested in the subject of alcoholism is invited to attend.

### Epsilon Sigma Alpha

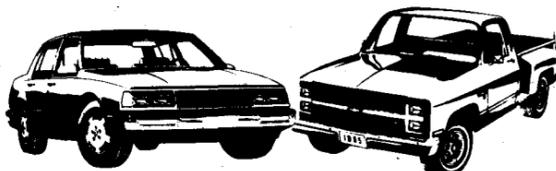
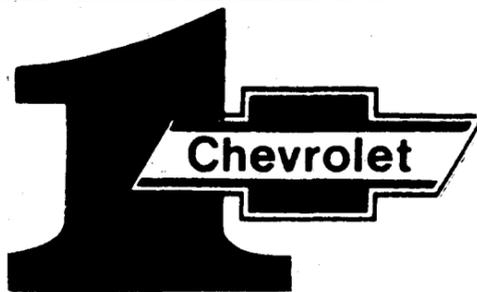
Epsilon Sigma Alpha is a non-collegiate, leadership and service sorority. The Beta Pi chapter will meet Oct. 7 at 7:30 p.m. For more information call 837-2696 after 6 p.m.

### OWC fashion show

"Getting to Know You as a Woman" is the theme for the Oct. 8 meeting of the Officers Wives Club, to be held at the Officers Club. Pizitz will present a fashion show. Reservations must be made by noon Friday, Oct. 4 to: A-E, Betty Barrett 837-8426; F-L, Pat Harlan 837-0966; M-R, Joann Andrew 837-5969; S-Z, Rita Jo Smith 837-9265. Cancellations must be made by noon, Oct. 7 to Marge Kunhart 830-6621.

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**Desperately needed:** Wheelchair, used lightweight. Call Jan at 830-1796 or 876-9141.

**Duncan Phyfe table,** 6 chairs, buffet, china cabinet. \$1,500, good condition, 881-6387 or 876-8228. 7500 BTU American Standard Central Heater. Good condition, \$125.

**For Sale:** Bear Grizzly II compound bow with cble guard, new limbs and a Pro Injector release. \$95, call 876-9531 after 5 p.m.

**1980 Ford Fiesta** excellent condition, only 39,000 miles gets 51 mpg highway, must sell-going overseas, best offer: 852-0549.

**Hay for sale:** Pick up in field or will deliver. Call 828-6433.

**1984 Toyota Corolla SR5** liftback, 13,000 miles, completely loaded, one owner, no accidents, paid 10,400, asking \$8,500 or best offer. Call Jan at 830-1796 or 876-0141.

**1981 Chevy Chevette** automatic transmission, 4 door, white with maroon interior, a/c, luggage rack, am/fm 8-track Craig stereo, clean, excellent condition, \$2500, or best offer, call Rhonda at 895-3400 or 586-2647 after 6:00.

**For Sale:** like new Army Dress blues, coat 42 reg. pants 36 waist, 31 length, hat 7 1/8, \$75, call 536-3413.

**Bloodhound Puppies** AKC champion sire, champion dam, excellent pedigree male and female, only 3 left, starting at \$400, Arab 586-2144.

**Silky Terrier Puppies**—AKC Champion sire champion dam, excellent pedigree no shedding or doggie odor wonderful house pet show and pet quality male and female \$250 and up Arab. 586-2144.

**1980 Chevy Monza,** excellent condition, automatic transmission, cruise control, air, am/fm radio, sharp \$2900, 539-6283.

**For Sale:** German washing machine call 539-4677.

**For Sale:** 1979 Olds SW burgundy, very clean 63,000 miles, 11ft. ps. pb. new tires, new battery, new automatic transmission, (replaced by GM) original owner, \$3,000 (neg) call 830-4747.

**For Sale:** Queen size, waterbed, includes mattress, heater, liner, frame with vinyl padded siderails, and matching vinyl padded headboard (with hidden storage area). \$125 or best offer, after 5 pm call 859-2290.

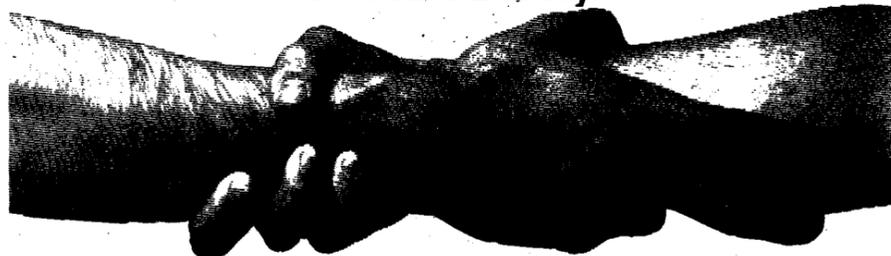
**Going overseas:** sell stereo \$35, coffee maker \$12, toaster \$5, 2 fans, 17" 3 speed, \$15, electr. blanket \$15, dishes, 32 p., \$12, footlocker, 46", \$20, christmas tree and deco, \$10, briefcase, leather brokin \$10, 2 shelves, wood, each 47", \$40, TV table \$20, gents klintercat grey \$20, please phone 761-1754.

**For Sale:** Somma Water bed looks just like a regular box spring & mattress. Newest experience in sleeping. \$350 call 859-1222 home or 876-4701 work Karen.

**For Sale:** 1984 Celica GTS, blue, all power, 4 wheel disc brakes, audio upgrade package, 5 speed, cloth interior, ac, louvers, aluminum wheels, 14,000 miles, one owner, excellent \$10,950. call 536-0205.

**For Sale:** Sears 3-in-1 bumper pool table, \$85 Apricot color 12 x 20 carpet with padding, very good condition, \$150; Montgomery Ward, 7,750 BTU air conditioner, \$75 881-1719.

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Sturdy Bunk Beds, Complete \$95; 1 Coffee & 2 End Tables \$75; Wooden Lamps \$20; Honey Pine Dinettes \$199.95; Oak Corner Cabinet \$349.95;  
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- Type or legibly print a brief description of what you want to sell on an 8 1/2 by 11 inch piece of paper (no 3 by 5 cards or torn paper accepted). You must list a price, your home phone number, your home address and your duty status (active or civil service).
- Sign the ad.
- Deadline is Friday at noon, before the Wednesday publication. Ads will run for only one week. You may resubmit them.

The Redstone Rocket will not accept ads concerning real estate, mobile homes, or apartments for rent, or businesses.

Conditional statements as "like new," "excellent condition," "runs well," may not be printed if space prohibits.

If you submit more than one classified at a time place each one on a separate piece of paper.

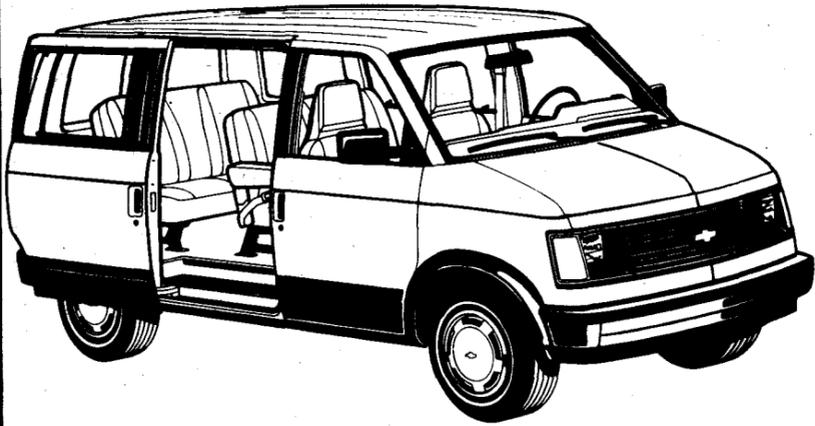
Mail Redstone Rocket Classified to Sara Grant & Associates, Attn: Redstone Rocket Classified, P.O. Box 5351 Huntsville, Alabama 35805.

The Redstone Rocket will not accept free classified ads by telephone.

The Redstone Rocket is not responsible for typographical errors or for omissions in this section.

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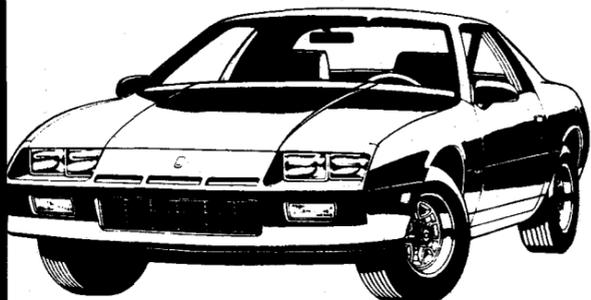


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