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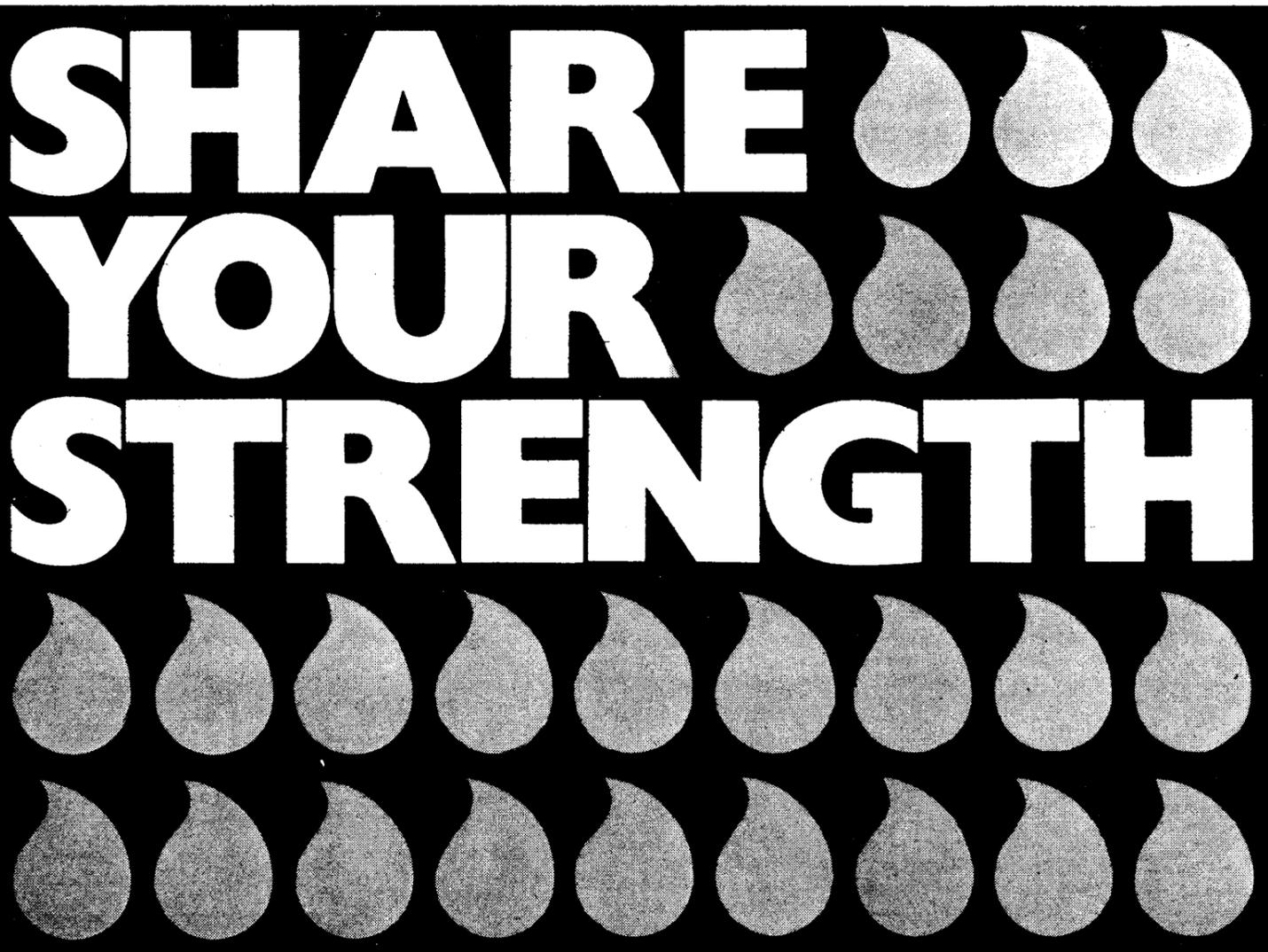
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There is one product for which there is no substitute — human blood.

It can only be obtained from another person in a true share of strength.

Redstone people have a great reputation for sharing their knowledge and resources. Their Red Cross Blood program record of sharing is no exception.

The Arsenal participates in the Birmingham Regional Red Cross Blood Program which collected and distributed 118,892 pints of blood last year in Alabama and Mississippi. Redstone contributed 8,278 pints of this for a 138 per cent of its goal.

Redstone blood goes to Birmingham for processing and storing then local needs are supplied. currently from the Birmingham blood bank within two hours after a request for blood in Huntsville is made.

With a goal of 6,000 pints for the current year, 7,218 pints have already been donated from Redstone, exceeding the goal by approximately 125 per cent.

"With a record like that, we certainly don't try to appeal to Redstone people to give blood just to help meet our goal," Marie Sexton, Redstone Arsenal Blood Program Coordinator said.

"I say you owe it to yourself to be prepared for the Holiday Season. Have blood in the banks. Of course there will be more accidents. There always are over the Holidays, but my message is make sure you are eligible to receive blood in case you happen to be one of the unfortunate ones who will need it."

Miss Sexton said that in the five years she has been the Arsenal blood program coordinator the Arsenal failed to meet its monthly goal only once — last October.

"I think the only danger for this month," she said, "is that the bloodmobile can only schedule us once — Friday — between now and Christmas." This bloodmobile visit will be at the Post Service Club (Bldg. 3711) from 8:30

a.m. to 3:30 p.m.

"I originally was assigned to be the arsenal coordinator," she said, "but became so intersted in the program that the past couple of years I have volunteered my services."

"If everyone just knew how many people here at Redstone have been helped by the program, we'd have 100 per cent participation," Miss Sexton said.

(The Rocket went to some of these people whose individual stories will be found on pages 6 & 7.)

"By participation I mean blood donor volunteers," she added. "Of course if you are medically rejected you don't give blood but you are still covered in the program. Even rejection has its fringe benefits. I've know persons who discovered medical problems because of this and early detection brought about quick corrections."

"Any person who fulfills the physical and age requirements, 18 to 66, can give blood.

"Giving blood with modern techniques is a painless affair and donors need not avoid certain foods before giving blood. Eat normally with low fat intake," she said.

"Donors may give blood every two months but not more than five times a year. There are many multi-gallon donors," Miss Sexton said.

"George Robinson in the Maintenance Directorate plans to round cut his 12th gallon Friday," she added.

Donors receive a blood donor card which guarantees that the donor and members of his immediate family will receive all the blood needed for medical treatment for one year without obligation to replace or pay for the blood.

Family members include husband or wife, unmarried minor children, parents and parents-in-law and grandparents and grandparents-in-law — 17 persons in an average family.

The Rocket

The Rocket is published weekly, on Wednesday. The publisher will receive editorial content for publication in the Rocket through the Information Office, Army Missile Command, Redstone Arsenal, Ala., 35809, Bldg. 5250, Room A-134. Extension 876-1400 or 876-1500.

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Answers

(Editor's Note: The MICOM Information Office conducts a question and answer program for job-related questions of general interest. Such questions may be telephoned to 876-4161 or 876-4400, or mailed to AMSMI-G. Some questions are selected for publication in the Rocket. Names are withheld. It is not intended that this program take the place of the usual supervisor-employee relationship which is the proper channel for specific job-related questions.)

QUESTION: Are the people who keep cattle on the Arsenal required to carry insurance in the event the animals stray in front of cars?

ANSWER: No.

QUESTION: Is there a regulation or SOP that says government employees are entitled to two 15 minute breaks in addition to a 30 minute lunch break? If so what is the reg or SOP and can the two 15 minute breaks be taken in conjunction with the 30 minute lunch break? A lot of buildings do not have cafeterias and this would allow employees time to go to a cafeteria in another building for lunch instead of brown-bagging every day.

ANSWER: Civilian Personnel Regulation (CPR) 990-2, Book 610, Subchapter S1, paragraph 8, Rest Periods, provides that, "It is the policy of Headquarters, Department of the Army, to permit short rest periods during the daily tour of duty when, at the discretion of the activity commander, such periods are beneficial and/or necessary to the activity." Paragraph 8a of the referenced regulation established that rest periods may not exceed 15 minutes during each four hours of continuous work and that the rest period may not be a continuation of the lunch period. This prohibits the combining of rest periods with a lunch period.

QUESTION: We hear that government agencies might be closed from Christmas through New Years. Is anything like that being considered?

ANSWER: No.

Goal In Ten Parts

The Commander, Army Materiel Command has set 10 goals to be attained by all elements of AMC.

The goals are:

1. Improve the readiness of Army combat forces.
2. Improve the materiel acquisition process.
3. Reduce the cost of Army weapon systems.
4. Improve the relationship of R&D efforts to areas of main concern to the Army.
5. Manage and operate with the minimum application of resources—facilities, people and dollars.
6. Decentralize operations.
7. Improve the quality of the military and civilian work force.
8. Create an atmosphere of challenge and creativeness.
9. Improve the working and living environment.
10. Create an atmosphere of challenge of creativeness.

Lights-Helmets-Goggles

Redstone soldiers and civilians who turn to motorcycles in the energy pinch should know that riders on the installation must abide by MICOM Regulation 210-2, which has provisions not included in state and local law.

In addition to requiring a helmet that meets state specifications, the Regulation—apart from state and local law—requires riders to burn headlights at all times and wear suitable eye protection.

Standard goggles and face shields are suitable, as are eyeglasses and sunglasses with safety lenses, but not handlebar-mounted windshields alone.

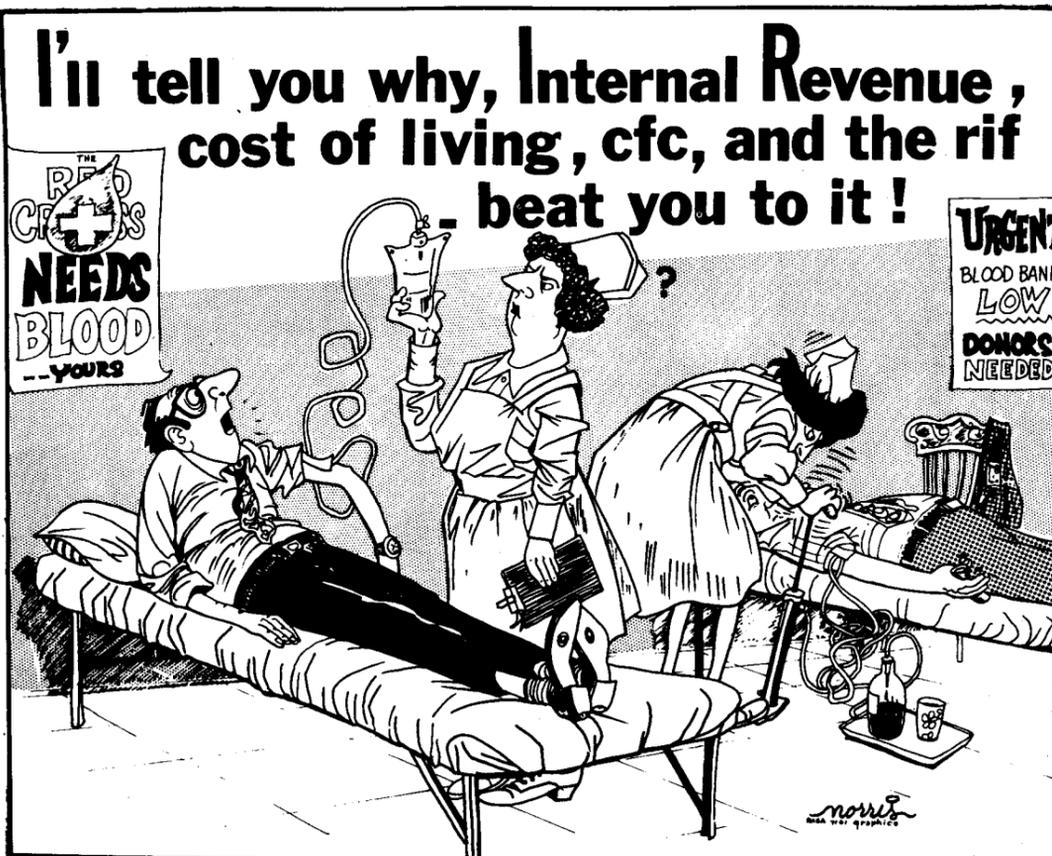
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They Come, Go At All Hours

What hours do you work at Redstone?

That's a simple question and the first impulse was to tell the reporter that working hours at Redstone were from 8 a.m. to 4:30 p.m. Monday through Friday.

That would have been true for 4,310 Army Missile Command employees and 1,615 at the Marshall Space Flight Center, but that would leave nearly 10,000 unaccounted for.

A recent survey furnished by the Internal Security Division shows that Army personnel at Redstone work as follows:

| | |
|------------------------|------|
| Midnight to 8 a.m. | 60 |
| 6 a.m. to 2:30 p.m. | 6 |
| 6:30 a.m. to 3 p.m. | 3 |
| 7 a.m. to 3:30 p.m. | 364 |
| 7:30 to 4 p.m. | 1758 |
| 7:45 to 4:15 p.m. | 371 |
| 7:50 a.m. to 4:20 p.m. | 747 |
| 7:55 a.m. to 4:25 p.m. | 587 |
| 8 a.m. to 4:30 p.m. | 4310 |
| 9:30 a.m. to 6:30 p.m. | 3 |
| 2 p.m. to 10:30 p.m. | 5 |
| 3 p.m. to 11 p.m. | 2 |
| 4 p.m. to midnight | 60 |

Down, But Still There

A sad sidelight to the approaching holiday season is that it's a peak period for accidental deaths. Each year the Army suffers serious losses.

Two years ago, 39 soldiers died accidentally during the holidays. The year before that there were 36 fatalities. But last year the fatality rate dropped to 24.

Much of the credit goes to the emphasis commanders placed on holiday accident prevention programs. Commanders are again giving their full support to such programs.

The goal is to make this safest possible holiday season for Army personnel.



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In Case You Are Wondering

The sound of Whoosh-squawk, then silence, again whoosh-squawk, silence, whoosh-squawk, silence, for several cycles has been echoing through the timber of the Arsenal.

Tracking down the source of the strange noise it turns out to be a small prototype of a new engine for NASA. The hydrogen engine tests are being conducted in the Marshall test area near the center of the Arsenal.

The Missile and Munitions Center and School reported 618 civilian and 2,160 military personnel. The majority of them work from 7 a.m. until 3:30 p.m., but some start to work a little earlier and there is a swing shift.

The Marshall Space Flight Center, not including its contractors, reported that its employees work as follows:

| | |
|------------------------|------|
| 7 a.m. to 3:30 p.m. | 1385 |
| 7:30 a.m. to 4 p.m. | 1455 |
| 7:45 a.m. to 4:15 p.m. | 620 |
| 8 a.m. to 4:30 p.m. | 1615 |

MSFC also has swing shifts.

Army Medical Department Activities at Redstone report 153 civilians and 166 military working around the clock on three shifts.

A Little Planning May Be Big Help

(ANF)—If you're planning to travel during Christmas, be sure to check out the rules for reduced fares. Reductions are offered to soldiers by railroads, bus companies and air lines, but each has different discounts and qualifications.

See your Transportation Officer for exact details. Since there's always plenty of travelers during the holidays, get your plans made early.

Santa Plans Early Visit

Santa is coming to Redstone on Friday.

He will be in the Youth Activities Building with presents, refreshments and live entertainment for military dependent children.

Children through seven years of age may see Santa between 2:30-3:30 p.m.; ages 8-12 from 3:30-4:30 p.m.

Youth Activities is in building 3615.

Early Release Program Cut

Department of the Army has stopped two early release programs which formerly allowed enlisted men to leave service before regular ETS in order to go to school or work for established law enforcement agencies.

The cutoff of the "early out" programs was announced in a message from DA to all Army commands last week. The change was made in order to continue to meet the Army's manpower needs in an all-volunteer environment, and was ordered only after an in-depth analysis of the programs, according to the message.

Both the school and law enforcement "early outs" will not be available for any service member whose ETS is after May 31. Other early separations under the program will not be authorized after Feb. 28.

The new policy will be reflected in forthcoming changes to current regulations.

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Gas Supply Tightens

A tough new system of gasoline rationing for military vehicles was put in effect here last week.

It is the latest in a series of belt-tightening measures brought on by the worst energy shortage since World War II and is necessary if each organization here is to get its fair share of available gasoline while Redstone meets a new requirement to cut gasoline consumption by 20 per cent over last fiscal year.

The requirement was imposed by Department of the Army in mid-November and is retroactive to July.

J. R. Tinney, special energy conservation assistant to the director of Redstone Arsenal Support Activity, said that mission requirement was the paramount consideration in designing the rationing system, with mission

vehicles getting priority over administrative ones.

Under the rationing system each organization gets a monthly gasoline allotment to use as it chooses.

When gasoline consumption records show the specified gallonage has been received by an organization, its vehicles won't be refueled until the next allotment except in emergencies.

Some allotments may be revised after a trial period, Tinney said, noting that for now unused allocation in small amounts can be carried over to the next month.

The new system replaces the previous practice here of turning off gasoline pumps after dispensing a specified number of gallons each day which, while controlling consumption, didn't assure equitable distribution.

EEO Meet Held Here

AMC Commander Speaks At Workshop

More than 100 Equal Employment Opportunity Officers from throughout the Army Materiel Command attended a two-day conference and workshop at the Skycenter Hotel hosted by the Army Missile Command this week.

General Henry A. Miley, AMC Commander, made the keynote address at Monday's luncheon. Joseph Bennett, Director, Equal Employment Opportunity, Department of the Army, was a featured speaker of the opening session.

Also addressing the opening session were Dr. Priscilla Ranshoff, President, Federally Employed Women, Inc., Brigadier General R. L. Kirwan, AMC's chief of personnel, training and force development, S. Sam Schwartz, AMC EEO officer and

Major General Vincent H. Ellis, MICOM Commander.

The Rev. K. L. Buford, Alabama Field Director, National Association for the Advancement of Colored People, spoke at a dinner meeting of the conferees Monday.

Richard Zazueta, Executive Director, Jobs for Progress and Dr. Reese D. Kilgo, Associate Professor of Education, University of Alabama in Huntsville, made presentations Monday afternoon.

After speaking at the luncheon, Miley received briefing on classified projects underway in MICOM's Missile Research, Development and Engineering Laboratory before returning to Washington in late afternoon Monday.

Tuesday's conference sessions were devoted to workshops.

The workshops and leaders for each included: EEO Training, Cora Arleta Martin, Federal Women's Program Coordinator, MICOM, and Claude Hurst, consultant, Frontiers Unlimited; Affirmative Action Plans, Mattie M. Dorsey, Federal Women's Program Coordinator, U.S. Army Force Command; Program Compliance and Monitoring, James W. Bage, Director, Employment Policy and Grievance Review Staff, Office, Secretary of the Army; EEO-CPO Roles and Relationships, John Nelson, EEO Branch, DA; and Numerical Goals, Timetables and Action Responsibility, Lloyd Pieper, Staff Assistant, Office of Director EEO, DA.

**Dial 112 For
Redstone News**

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What Are Your Plans?

As in the past, the Rocket is interested in the Christmas activities of its readers, particularly your community service activities such as remembering those less fortunate than you.

We are not staffed to cover all the organizations we serve so please don't wait for us to ask you. Appoint one of your group as a reporter and come to us through your Information Office channels.

Our Christmas edition will be published Wednesday, December 19. We will not publish December 26, and by January 2 we cannot use your Christmas news. Christmas stories should be in by noon, December 14. We only need basic facts on what your plans are.

MICOM, SAM-D, Lance, MEDDAC or Readiness Group personnel should call your P10 organizational representative or the MICOM IO at 876-4161 or 876-1500.

Other Army organizations should go through their IO's whose telephone numbers are:

MMCS, 6-3959; Safeguard, 895-4453; Corps of Engineers, 895-5950.

Your work organization stories expressing the Christmas spirit are what we are seeking.

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● **Shhh-DON'T TELL A SOUL**—

about this (\$32,900)-Long low 4 bedroom, brick rancher!!!— Until you tell them you own it!! Formal Foyer, separate dining and DEN w/FIREPLACE, 2 wallpapered baths and a built-in kitchen. All the extras!! Southeast location.

● **LOCATION PLUS!!**—

Almost new, 4 bedroom, 3 bath tri-level home. Separate wallpapered dining room w/chair-rail, large den w/FIREPLACE, wife saver kitchen w/all appliances, 8'x10' wallpapered breakfast room, inside laundry, double car finished garage, bricked in Patio w/Lanterns, fenced backyard. Walk to Weatherly from this Edgemoor Dr. home. \$9,897 equity!!

● **THORNTON ACRES**—

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House Committee Orders Deeper Civilian Cuts

WASHINGTON — The House Appropriations Committee has ordered the Defense Department to find ways to make substantial reductions in the number of DOD civilian employees in the next fiscal year.

To make sure DOD got the message, the Committee cut \$52 million from the FY 74 defense bill, which the Committee said, would compel a "token" cut of about 15,500 DOD civilians. Defense had already planned to eliminate about 36,000 jobs during FY 74 before the Committee imposed the additional 15,500 when it reported on the Defense Appropriations bill two weeks ago.

Delegations made by the Committee must still be upheld by a vote of the House and Senate.

The committee report said in part: "for the past few years the Committee has been concerned about the high number of civilians (approximately one million) employed by the Defense Department. It has been unsatisfied with the extend of reductions being made by the departments and agencies. . . U. S. military forces are not engaged in combat. Military forces are being reduced in numbers of both personnel and equipment. Military installations are being closed or phased out. New production techniques are being introduced . . . and more importantly, expensive equipment items are being installed which should permit reductions in civilian employment. "The situation . . . seems to support a larger reduction in civilian employees than that planned for."

Nothing that people costs —

both military and civilian—have now mounted to about 60 percent of the total DOD budget, the Committee also promised to take a hard look next year at grade escalation. While critical of grade creep in the military services, the committee report continued " . . . it is not in any way limited to the military. . . there are indications that grade growth within the civilian side of DOD has exceeded military grade creep."

Spaco To Produce Lance Containers

The Missile Command has awarded the first portion of a \$1.4 million multi-year contract to Spaco Inc., of Huntsville, to produce containers for the Lance missile.

Initial amount awarded was \$218,340. Work will be performed in Huntsville.

Spaco said delivery of the first equipment to the Army would begin in 1974.

Lance is the Army's new battlefield missile that is replacing both Sergeant and Honest John which for years have played an important role in NATO defense. The 20-foot-long missile, mounted atop its own self propelled vehicle, has maximum ground mobility, can swim deep, inland waterways, fly aboard plane or helicopter, and strike deep into enemy territory under all weather and terrain conditions.

Lance is managed by the Army at Redstone under Brigadier General George Turnmeyer, Project Manager.

New System Explored

Army Missile Command laboratories are exploring a new guidance technique that would be applicable to man-portable air defense systems.

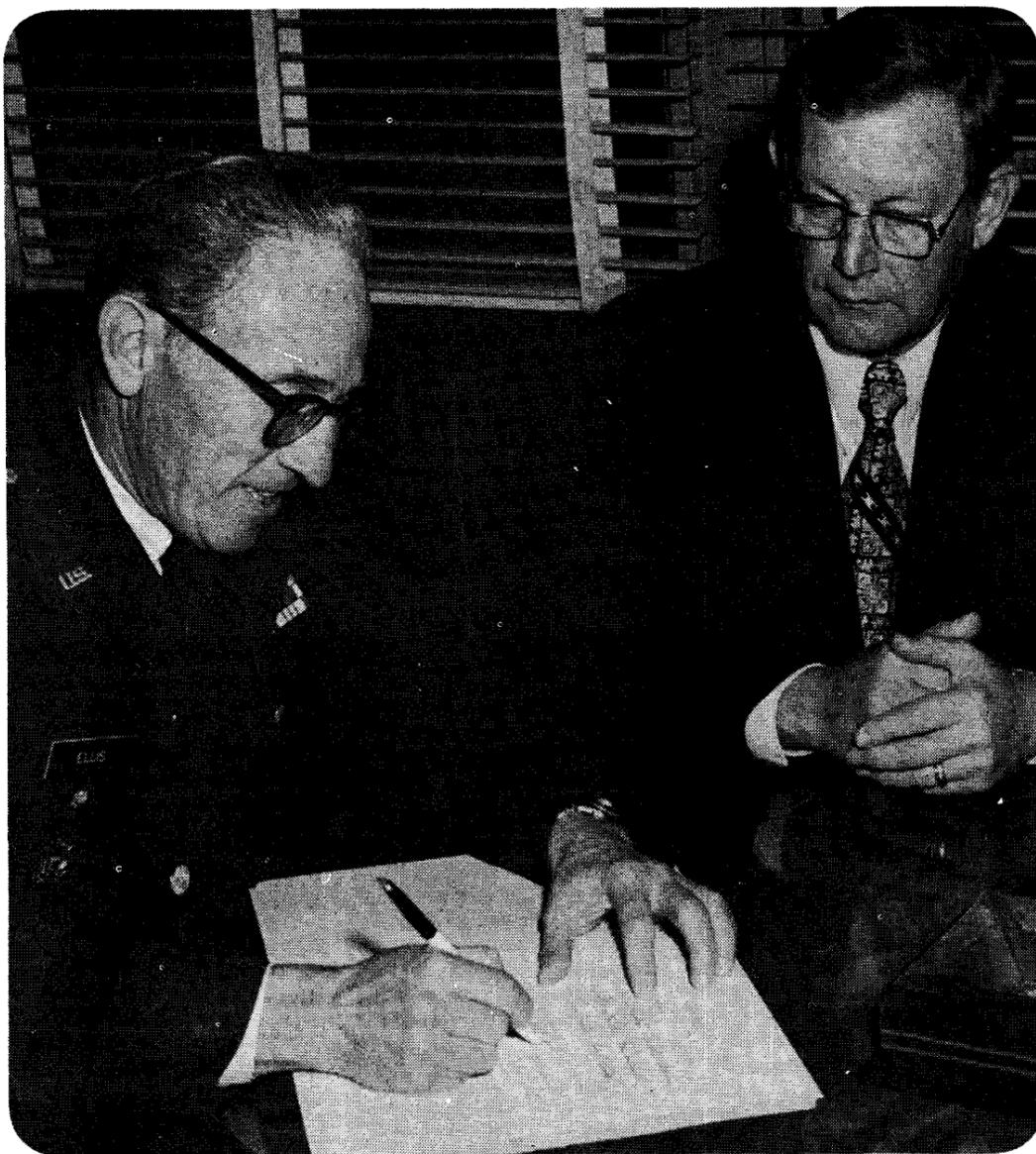
MICOM has just awarded \$5,127,827 to Aeronutronic Division of Philco Ford Corporation to begin a 23-month program leading to fabrication and testing of a prototype system.

"We're looking at an alternative guidance approach for man-portable air defense systems," said Bob Evans of the Advanced Systems Concepts Office, who has responsibility for management of the technology program.

"Under the contract, Aeronu-

tronic will design, fabricate and test prototype hardware at White Sands Missile Research, Development and Engineering Laboratory, Evans said, is a laser beam-riding concept that might find use in future Army systems for both ground and air defense roles. In that technique, an invisible beam of light would be projected at the target and a missile would be fired into and ride the beam to the target.

The Army sent requests for proposals to more than 20 contractors, and selected Aeronutronic from among four contractors that responded. Others were Martin Marietta Corporation, McDonnell Douglas and Northrop.



NAF AGREEMENT—MG Vincent H. Ellis, Micom Commander, signs a three year agreement between MICOM and Local 1858, American Federation of Government Employees, covering civilian employees paid from non appropriated funds. George M. Burchfield, President of Local 1358, signed for the union.

Non-Appropriated Fund Workers Get New Pact

The Missile Command and Local 1858, American Federation of Government Employees, have signed a three year agreement covering about 360 civilian employees paid from non appropriated funds.

Major General Vincent H. Ellis and local president George M. Burchfield signed the contract. It becomes effective after review and approval by the Department of the Army.

The bargaining unit covered by the new contract included men and women working in the officers and non commissioned officers open messes, craft shops, billeting office, bowling alley and other recreation facilities on the Arsenal. Local 1858 won exclusive representation for the unit in an election three years ago. The first contract expired in October.

Most of the provisions of the new contract are similar to those in force in other bargaining units of Army employees represented by Local 1858 at Redstone and in Huntsville. A unique feature of the

new contract is its provision to use people—yet to be selected—from the Huntsville area to arbitrate issues that cannot be resolved between labor and management. All labor agreements covering local Army employees provide for formal arbitration, but the arbitrators are generally drawn from outside the area.

Negotiators representing management and the union worked out terms of the new agreement in

a series of meetings that began in late September and concluded in November. The union team headed by Rembert Chastain, Executive Vice President of Local 1858, included Mae Anderson, Vice President for NAF Employees; Lester Mitchell, treasurer of the local, and Burchfield.

Management representatives included: Colonel Vernon V. Wallis; Arnold M. Kohn; Harry L. Trent and George M. Parker.



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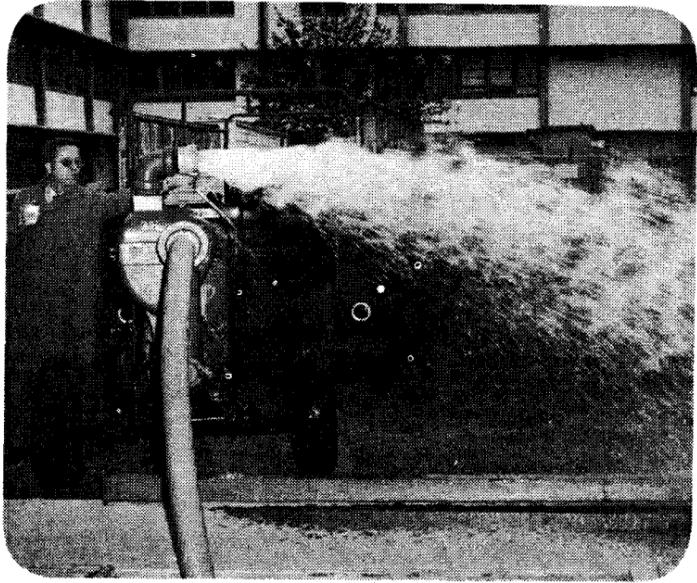
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PUMPING AWAY

Facilities Engineer maintenance men labored into the night last Wednesday to repair a hot water pipe that burst and flooded a tunnel housing water and steam lines beneath MICOM headquarters building.

The tunnel runs under the north-south passageway at the west end of the building and doubles as a fallout shelter.

Water pouring from the pipe soon overcame a small electric sump pump and rose to depths of about four feet in some parts of the tunnel, which slopes in height from 2-3 feet to 6-7 feet.

The water — several thousand gallons according to a maintenance man's estimate — was pumped out in about three hours with two large gasoline-powered pumps borrowed from Marshall Space Flight Center.

Apparently the pipe burst sometime Tuesday night or early Wednesday. Workers arriving that morning were greeted by pungent vapors — created by water in the tunnel contacting steam lines — wafting through grates in the floors of equipment rooms spotted throughout the building.

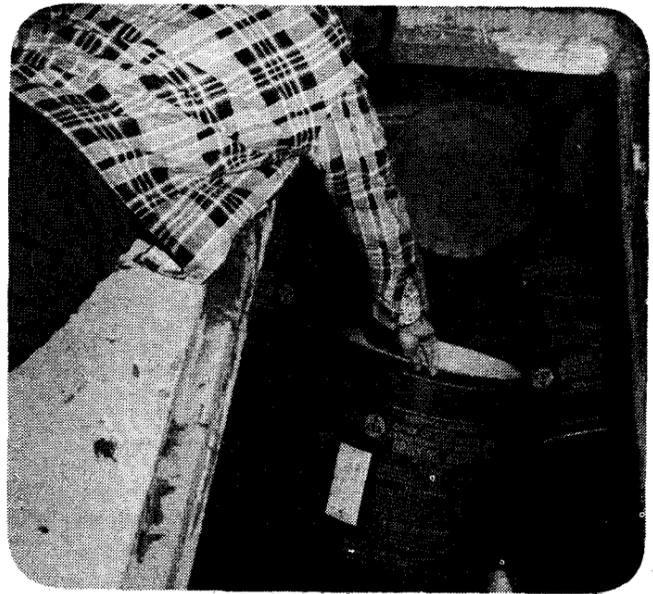
The floor in offices over the tunnel was hot to the touch.

In parts of the building condensate ran in rivulets from windows and walls. It collected in the equipment rooms and seeped under doors into the halls. It reportedly knocked out phone equipment in some of the rooms temporarily.

The only immediate damage was to survival supplies stored in the tunnel.



BROOM DEEP



SURVIVAL SUPPLIES FLOATING

IN FOUR FEET OF WATER

Educator Honored

A one-time Huntsvillian who recently returned here to retire was awarded the decoration for exceptional civil service recently at the Missile and Munitions Center and School.

The decoration is the Army's highest award for civilians.

Harold A. Schulz, an educator for over 30 years, worked at Redstone from 1956 to 1967. He was the first Army educator to receive the high award in 1951 while chief of the training standards branch of the U. S. Army Ordnance School at Aberdeen Proving Ground, Md.

Schulz retired this year as education administrator for the Continental Army Command. That organization was disbanded by the Army reorganization early this year, and the Army training mission is now handled by the Training and Doctrine Command.

"I asked that the award be presented here at Redstone," said Schulz, indicating that his work at Redstone laid the groundwork for his achievements at Ft. Monroe.

He was chief of the training branch of the Army Ballistic Missile Agency from 1956 to 1959, and deputy director of instruction for MMCS from 1959 to 1966. He then served for about a year as the education advisor for MMCS before being sent to Ft. Monroe.

"No one person earns such an award as this. It's the people around you and the leadership above you that make these things possible—it's the whole team, working together," Schulz said.

Schulz praised the "enlightened leadership and positive thinkers" at Redstone, and said his experience here had a great bearing on his work at Ft. Monroe.

"What we initiated here is what I tried to carry on when I went to CONARC," he said, "The people here deserve a portion of that recognition."

Schulz began his educator's career shortly after earning his BS in science from the University of

Wisconsin. He taught high school science at Algoma, Wis., from 1940 to 1941, when he entered the Army.

By 1943, he had completed officer candidate school and was assigned to the Army Ordnance School at Aberdeen Proving Ground. In 1946, Schulz left active military duty and entered the civil service as chief of the Ordnance School's training standards branch. In 1953, he became education advisor at Aberdeen, a job which he held until he came to the Arsenal.

Schulz holds an MS in education from the University of Delaware.

Schulz estimates that nearly 10,000 Army students studied educational technology under him during his career.

He was cited for "foresight, initiative and resourcefulness," resulting in improvements in the Army's training capability.

THIS YEAR THERE'LL BE LESS SPACE TO TURN AROUND IN. YOU NEED A VOLVO.

Since '73 was a great year for car sales, this could be a frustrating year for parking space. Especially if you're used to driving a luxury car.

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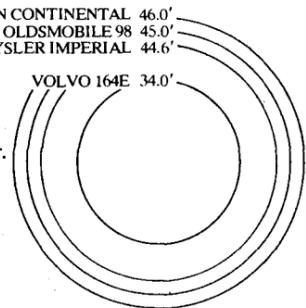
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HEART OF HUNTSVILLE



BEVERLY MEELER

"More Normal Than Ever"

Beverly Meeler, secretary in the Civilian Personnel Office, is one who appreciates the Red Cross Bloodmobile program.

During the Summer of 1971, Beverly had open heart surgery. She could not locate the list of individual donors so she used the Rocket to convey her thanks.

She said, "I wish to express my sincere appreciation to the wonderful people who donated blood for my use during open heart surgery. I never realized how important the bloodmobile program was until I became directly involved. I am very grateful to the people who contribute to it. Thank you."

Before surgery, she found even walking up steps taxed her strength. Two years later, she

she became the mother of a daughter who spends her days with a baby sitter while her parents work.

Beverly said, "It just amazes me what I can do. I am more normal than I have ever been. It's a miracle."

She cannot give blood because the doctors still classify her as a heart patient, but her husband contributes regularly to the bloodmobile.

Exercise and work no longer drain her energy unless, like most humans, she tries a super-human task. Her family, her home and work are all treasures to be enjoyed with zest. Her enthusiasm is reflected in her voice when she says, "I'm lucky!"

Like Experience, Similar Praise

To have one office member undergo open heart surgery is not commonplace, but two members of the Communication Center underwent such an operation exactly one year to the day apart. Both share similar memories, and both now praise the blood program.

Orman Lancaster had just finished playing a hard game of softball one hot August afternoon when he felt his pains. Though he did not believe he had a heart attack, some few months later he was in Memphis receiving open heart surgery to replace a clogged vein in his heart.

Robert Boyd began to notice that he could not do the many things he had in the past. He experienced difficulty in breathing. When he checked in with

the doctors he found that his heart valve was damaged. It resulted in his going through open heart surgery to replace his valve with an artificial one.

"I can't help but appreciate it," said Lancaster of the blood program. "The hospital told me I would need six pints. The special need was taken care of by people on the Arsenal. My wife was so appreciative that she wanted to know who had helped, so the Red Cross gave us the names which we still keep."

"If a person never considered what the bloodmobile meant," said Boyd, "it sure changes after surgery. I only needed three pints, but a simple call to the Arsenal took care of it. People responded. I can't personally pay back my indebtedness, because I still take blood thinner."

Engineers View Quotas As Something To Beat

With over 17 gallons of blood donated during the current campaign the Huntsville Division, Army Corps of Engineers has for the fifth straight year exceeded its goal and qualified for "group coverage" for any blood that might be needed by an employee of the Division or their family in an emergency.

Although only a little over six years old, the Huntsville Division joined in the Red Cross Blood Donor Program shortly after its organization and conducted its separate drive until joining with the Safeguard program in 1972.

Division donors have ranged from "first timer" teenage employees on their first jobs to veteran employees whose first donations date back to the early days of WWII when the American Red Cross began its blood program at the request of President Roosevelt.

During the five years of participation, families of employees have called upon the Red Cross for blood and in each instance the

request has been met. One requirement was for the father of an employee who was being operated on in Chicago. The

needed blood was transferred and happily the man recovered. Other requests have been for assistance in the more immediate area.

"We Weren't Really Aware"

Among those who have benefited from the Red Cross blood program is Ricky Randolph, the son of Mrs. Ann Mitchell who works for the Raytheon Missile Systems Division in Huntsville.

"When Ricky who is 15 now was having surgery three years ago this coming June, he received 16 pints of blood while he was in the operating room," Mrs. Mitchell said.

"Before that we'd heard talk about the blood program, but we weren't really aware of what was involved."

"It would have been an ordeal if the Red Cross hadn't been 'Johnny on the spot' when Ricky needed blood. The Red Cross volunteers came right in and told

us not to worry about replacing the blood used. They said they'd explain it to us after Ricky was better.

"They did tell us later about replacing the blood, but they didn't insist we do it. We felt we should. It was very fortunate that I was working for a company with many employees who were glad to help out by donating blood."

"Since then my family always donates blood. We hadn't been aware before our experience with Ricky of the benefits one's family can receive through the program"

She said that Ricky, who had bone cancer, is just fine now.

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NEW SUPPLY

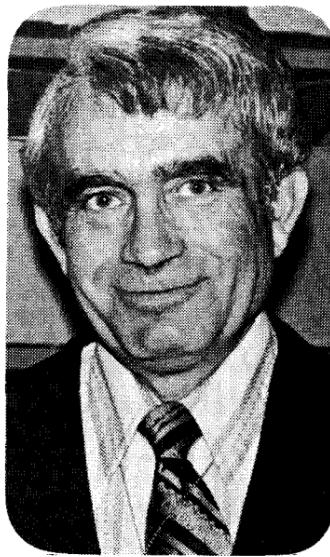
"I had to have a complete change of blood. It was either 16 or 17 pints. My only cost was administering the transfusions. With all of the other extremely high expenses, this meant a great deal," Hightower said.

I used to be a perfectionist, demanding excellence in myself and other people. Now I find myself most benevolent and understanding of others. Their mistakes just don't bother me a bit. I guess my outlook changed because I came so close to my Maker. We became 'close friends' during the operation and recuperation.

"The doctors will let me do practically anything I want. There's just one thing that I'm absolutely prohibited from doing. Skydiving. And that's no problem. I haven't the slightest desire to jump out of airplanes."

Does he recall anything else special about that dark day in October?

"Yes, it was Veterans Day and I didn't have to use any sick leave!"



HIGHTOWER

took care of everything." Marie Sexton is the Redstone Arsenal Blood Program Coordinator.

October 25, 1971 was a day that Norris Hightower will not soon forget.

It was his birthday. He was in St. Thomas Hospital in Nashville. And his surgeon had just given him his choice of going home, to die in two weeks or of taking a 95 percent risk of dying from a very serious heart operation. He picked the operation.

"I didn't want to go home and die so I really didn't have much of a problem making up my mind," says Hightower, a supervisory supply technician in the Directorate for Materiel Management.

"Besides, I had confidence in my surgeon, Dr. William Stoney, and his fine team."

Two days later, the team of six surgeons spent more than six hours performing open heart surgery on Hightower. Drastic measures were required. They bypassed all three coronary arteries, using sections of the saphenous vein taken from his left leg to bridge across the blocked arteries.

BACK TO WORK

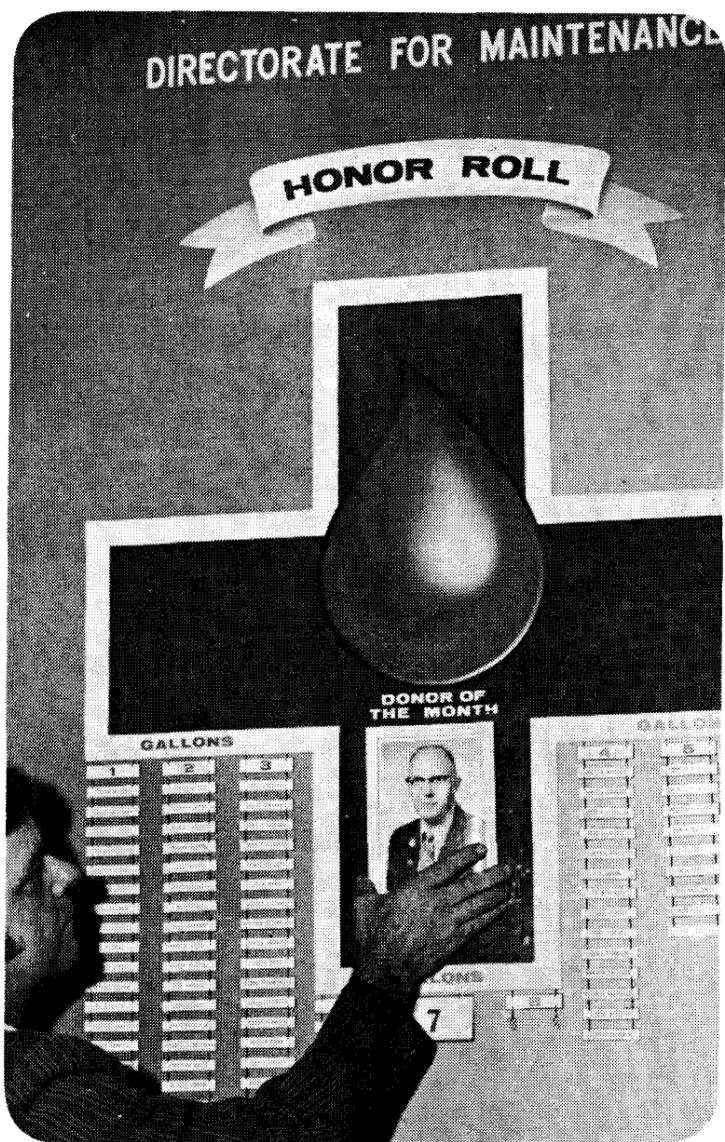
In addition, they removed an aneurysm from the lower right ventricle and 20 percent of the heart itself. The surgeons told him later that they had done just about everything they could do to him and still leave him with his own heart.

Four days after the operation, Hightower was walking around. Ten days later, he was discharged from the hospital. Three weeks later, after what he calls his "excavation" had healed, he was back on the job. That he was in good shape is attested to by the fact that he won an outstanding performance rating in the year immediately following the surgery.

"Practically overnight," says Hightower, "I was changed from a derelict to a new man."

He has tremendous admiration for the skill of the medical team that restored him to health. He also has a very warm feeling for the people of MICOM who responded to his need for blood.

"I really hadn't given blood any thought. I sort of had other things on my mind at the time," he says. "But Cathy Giddings of Missile Systems Division, a friend, got in touch with Marie Sexton, and she



GALLONS GALORE. Leonard Allison, Maintenance Directorate's Bloodmobile Coordinator, updates the big display that hangs inside the main entrance to building 5681. Giving recognition to everyone who has given a gallon or more is one of the ways that the Directorate encourages participation, and it has won many plaques. The donor of the month on the display is James Hollaway who has given more than 7 gallons. Other champs in the Directorate are Barney Covington with 7 gallons, Roy Hood with 8 gallons and 6 pints, and George Robinson with an almost unbelievable 11 gallons 7 pints.

Some Are Not Able To Give

Though whole blood or its components are always needed somewhere, there are potential blood donors who the Red Cross must reject.

In many cases, though, these people can still be covered under the program, and blood they or their families need can be replaced by others.

Persons returning from malaria-prone areas like Southeast Asia may not give blood to the Red Cross until they have been back in the U. S. for three years or more," said Marie Sexton, blood program co-ordinator for Redstone Arsenal.

Transfusion of whole blood from such persons is not allowed, and the cost of breaking all the blood down into its components is prohibitively expensive, according

to the Red Cross.

"But soldiers who are on active duty and their families will be taken care of," said Miss Sexton.

"Even those who have left the service can have blood replaced for them during the three-year waiting period," she added.

Persons who must replace blood though they are still waiting may get help through the Red Cross Coordinator at 876-4192.

"In addition, the Red Cross cannot accept blood from persons weighing 110 lbs. or less," Miss Sexton said.

There are a few other provisos on how frequently donors may give. Program participants may not donate blood more often than once every 56 days, not to exceed five times a year, she added.

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HALE BROTHERS

DOWNTOWN HUNTSVILLE

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Safeguard Response Proves People Care For Others

People do care about other people and the Red Cross Blood Bank Program proves the point.

This past week personnel of the Safeguard System Command, the Army Corps of Engineers, and the Advanced Ballistic Missile Defense Agency, participated in the blood bank program.

Those giving blood ranged from a young secretary who participated for the first time to a veteran engineer who has been giving blood for more than 30 years.

All of the people interviewed agreed on these points: They feel the blood bank program is a wonderful project. They all feel this is one way that they, as individuals, can directly help someone else. All feel the program is worthy of their support.

Many of the donors stated that they or their families had never needed blood from the bank, but they were happy to give knowing it would help someone else and that it would be available to them if needed.

In most cases when individuals are interviewed they don't mind giving their opinions, but they don't want to be quoted by name. In the case of the blood bank program all the people interviewed were happy to be quoted by name.

WENT EASY

Jay Billings had these comments: "I think the blood program is great. I started participating in the program back in August 1963. Once I got the hang of it, it went pretty easy. It is something I feel I can do as an individual that will help someone directly. A few years ago my wife had serious surgery and she was given three pints of blood during the operation. There was no charge and no difficulty getting the blood. It was one thing less I had to worry about at the time. The Walking Blood Bank is another important phase of the program. There were some people who went down to the Red Cross Center last week to help the victims of the tornado that hit Huntsville."

Faye Dye had these observation: "This is the first time for me. I don't like needles and I was worried and scared to death about

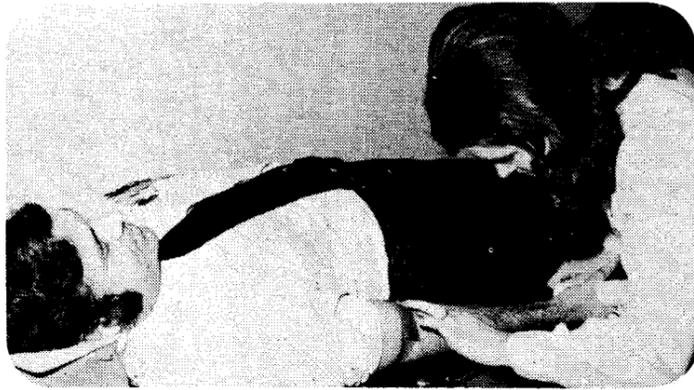
going. It wasn't bad and I'm not scared now. Our family has never had to use the blood program and I am thankful we haven't. My husband is a regular donor at his office. I really and truly think anyone can give blood... the actual giving isn't half as bad as the dread. What really impresses me was how efficiently they conducted the program and how concerned everyone was. Now that I made it the first time, I will give again."

Don Hervig remembers back when there wasn't an organized blood program and things were different: "I started giving blood back in the 1930's. They didn't keep records and you gave the blood when it was needed. I think the blood program is one of the best programs we have going, but it needs more explanation. More efforts should be made to let people know that it doesn't hurt them to give blood... I mean that it has no adverse effect on them physically. My family has never had to use the program, but we support it 100 percent and we are happy to know it's available if we need it. I've participated in blood programs all over the country and some things vary. At some places they provide the donors with milkshakes, others have sandwiches, cookies and some places even provide a full meal. While little things like this are different, the one thing that is constant is their concern for the donor and the program."

Reginald Parks has been active in the blood program for more than 20 years and he had these remarks: "I think it is one of the best programs anywhere. If someone can use my blood I'm willing to give it. My family and I have never had to use the program, but it sure is nice to know we're covered."

GLAD TO HELP

Georgia Sanders gave these views: "I've been participating since 1967 and I think it is an essential program. I'm grateful I've never had to have blood through the program and I am happy it is available to help other people. I've also signed up to be available in case there's an emergency. It's a good safeguard



NOTHING TO IT—Don Mikell relaxes as Registered Nurse, Barbara Bynum, prepares to take his contribution to the Red Cross Blood Program. Mikell was only one of the many donors that helped put SAFSCOM over their objective for the 1973 Blood Drive.

for my family and it helps those who are less fortunate and do have emergencies. Giving the blood doesn't hurt and it doesn't take much time and they always give you cookies or something good at the end."

Mike Johnston has been donating since 1960 and he had this to say: "Fortunately I have never had to use the blood program. I guess my feeling is that by giving I'm providing insurance against the day

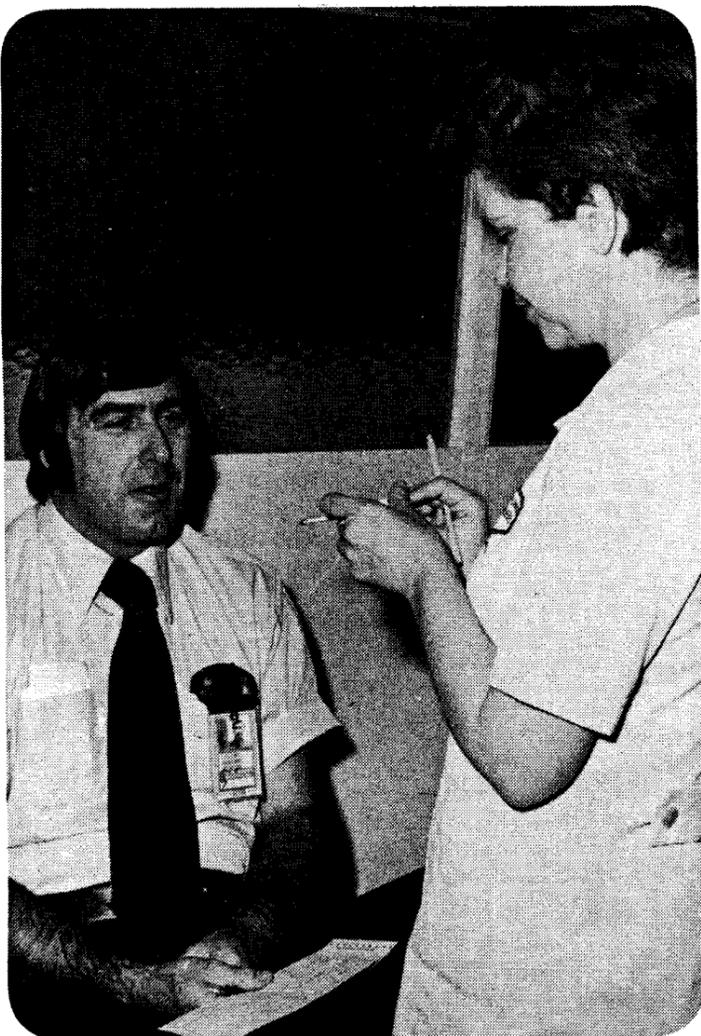
when my family or I might need it."

P. R. Kittle, Sr., related this experience: "My Dad was in the hospital in Chattanooga and needed three pints of blood. Because of the program he got the three pints of blood and there was no charge for administering it so we saved approximately \$150. I think it is a very good program and I believe in supporting it. In fact I

have a rare type blood so I am always on call when they need a special donor. Not long ago I was fortunate to be able to help a woman who was facing open heart surgery and needed this rare type blood."

Mazie Keeton of ABMDA told this story: "I think the blood program is tremendous. I think it is a fine thing that the Government allows the people to come where you work making it easier for people to give. About 18 years ago I needed 7 pints of blood and I needed it immediately. We were not in the program, but I got the blood anyway. They didn't charge for the blood, but they asked us to replace it. We got donors and repaid two pints for each one used, but the important thing is I got blood when I needed it. I am a regular donor and out of a family of 7, I am the only one who can give blood. I'm just happy that I can give."

According to Major J. B. Wooton, Command Blood Drive Coordinator, "SAFSCOM has exceeded the objective set for 1973 and we are looking forward to repeating in 1974."



IS IT OK?—Bob Lipscomb, seated, waits as volunteer worker, Lois Bloyer, checks his temperature.

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Some Donors At School

As Regular As Clockwork

The American Red Cross will accept one pint of blood from each donor every 56 days. While relatively few donors give regularly every two months, there are still a number a MMCS who give often enough to run up high totals of blood through the Bloodmobile program.

For instance, Oliver Patrick, in charge of management indicators in the Office of Management and Budget, has given 49 pints since June of 1960.

The blood Patrick has donated over the years has benefited dozens of persons, directly and indirectly.

"The need is there all the time. I figure somebody always needs blood someplace," Patrick said.

"The last time I went to the Bloodmobile, there was a young boy in a hospital in Birmingham. I designated my donation to be credited to him," he added.

But as often as Patrick donates, he often finds himself helping people he knows.

"Occasionally there are friends or relatives who need it," Patrick said.

Though some potential donors may have qualms about donating blood, Patrick says he has none; but he did add one reservation, jokingly:

BOTHER SOME TEST

"The small jab in the finger for the hemoglobin test bothers some people—including me—more than the actual blood donation process," he said.

Patrick says he sometimes jokes with the nurses and volunteers about the small instrument used to take a few drops from a fingertip for analysis.

I'm not sure what the proper name is for that thing. I call it a sawed-off razor. Actually, it's not too bad. The folks at the Bloodmobile know what they're doing," he added.

Sergeant Major J. B. Bullock of the 3rd Battalion at MMCS has given at least 41 pints—that's how much he's given since he began keeping track of his Bloodmobile visits.

"I began giving blood while studying at the University of Tennessee back in '52," he said.

At the time, Bullock was studying business administration.

"I decided I didn't want to become a high-speed yo-yo operator, so I joined the Army," Bullock quipped.

But he continued to donate blood regularly.

I BELIEVE

"I believe in the Bloodmobile program. Giving blood doesn't cost me anything, and I can always make more blood," he said.

Sometimes, Bullock says, one of the men in the battalion mentions a friend or relative having surgery. The men in the unit often pitch in to help one of their fellows, Bullock said.

"Besides, some of those Red Cross nurses and volunteers make the trip to the Bloodmobile interesting," Bullock added.

There are many other soldiers and civilians who, giving blood frequently, have amassed impressive totals of pints donated. Even a brief search included Frank Rushing, an offset press operator in the Training Aids Support Branch. Rushing has donated at least 33 pints of blood to help others.

Warrant Officer Leroy Espy, an air defense missile technician working in the Nike division, has contributed 10 pints through the Bloodmobile program.

Betty K. Arnett, a clerk in the Academic Records division, says she donates blood "every 59 days or so."

"For years, I was unable to give blood because of anemia," she said.

Anemia is a blood condition in

which hemoglobin or red blood cell count is below normal.

"Recently, I overcame the anemia and the Red Cross accepted my donation. I just received a new card from the Red Cross Chapter here after giving nine pints."

SOMEONE, SOMEWHERE

"Even if nobody I know needs it, someone somewhere does," she said, adding, "Since I've been able to give blood, I've been determined to do all I can to make up for the years I couldn't."

George Smith, military personnel clerk in the Military Personnel Division, has donated over three gallons during the last ten years.

"For a long time I didn't give any. With all the notices in the Daily Bulletin, I found it easy to know when and where I could give," he said. "I just got into the program, and I still follow through."

Now, having surpassed the three gallon mark, George Smith and his

wife, Elvenia are guaranteed a free supply of blood if they ever need it.

"The S-3 section of School Brigade co-ordinates blood donations from MMCS, usually to let the MICOM Red Cross coordinator know what can be expected from our area," Sergeant First Class Ed Vaughn, operations NCO for the S-3 section.

"We get names of volunteers in advance from the units and co-ordinate with the Deputy Commandant for Training and Education so the students can be released from classes. After donating blood, the men get an afternoon off," Vaughn said.

"We also encourage participation informally, but a lot of the credit goes to the first sergeants of the units. No one is coerced—it's all strictly voluntary action," he added.

There are many frequent donors at MMCS, Vaughn said, and it's nearly impossible to name them all.

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Eoline J. McHowan M.D.
Director

Expires

"Don't Worry, We'll Get It"

While the Missile and Munitions Center and School has long enjoyed a reputation of high participation in the Bloodmobile Program at Redstone, there are occasional stories of focused effort to benefit far-away strangers in need of blood.

Colonel Everett I. Madden tells one such story.

"Not long ago, I received a letter from my brother, who is retired from the military and living in California," said Madden, director of the Missile and Electronics department.

"One of his close friends had been in an auto accident and had suffered a heart injury requiring extensive surgery. In the letter, my brother asked me to donate a pint of blood and designate it for his friend, to pay back at least a part of the 40 pints used in the operation."

Next Bloodmobile visit, Madden rolled up his sleeve.

"I went in to donate, and asked that the pint be credited to the patient in California. I just happened to mention the 40 pints to the Red Cross volunteer," Madden said, "and she said, 'Don't worry, we'll get it.'"

Madden says he admired the

woman's positive attitude, but admits he had some doubts about her ability to round up 40 pints.

"The next morning, she called and said they had received 40 pints which would be credited to the patient in California. I was floored. I have no doubt now that they might have gotten more if it had been needed," Madden said.

"It wasn't just the Red Cross Bloodmobile staff that made the whole thing possible. The students and staff members going through that day pitched in with their donations," Madden said.

Many of them had never met Madden. None of them knew anything about the patient on the coast.

"Donors who want to designate a recipient don't have to specify a local person in need of blood. It can be anywhere in the country," Madden added.

"And donors who don't know anyone needing blood can check with the volunteers at the Bloodmobile," he said.

In addition to relating his recent happy experience, Madden commented on how easy it is to give blood at Redstone.

"It's so easy to give blood here—it's as easy as going to lunch. I highly recommend it," he said.

There are no limitations as to quantity
There are no limitations as to nature of illness
There are no charges for the blood itself
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The figures charted above appeared in the October '73 issue of Popular Science Magazine, following a test program which covered various car makes and models. The tests did not include cars with the special emissions control systems prescribed for California only.

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1973 Satellite **\$3095**
Sebring, 2 door hardtop, blue finish, radio, heater, automatic, power steering, power brakes, factory air. St. No. 211.

1973 Satellite **\$3095**
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1973 Satellite **\$3195**
Sebring, 2 door hardtop, autumn bronze finish, radio, heater, automatic, power steering, power brakes, factory air. St. No. 214.

1973 Satellite **\$3295**
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Interest In Invention Expressed Around World

Dr. George Tanton, a MICOM physicist, has invented a technique to temporarily and inexpensively modify a standard absorption spectrophotometer so that it will measure Faraday rotation and optical rotary power with an accuracy comparable to less versatile, more costly existing methods.

Tanton's invention is drawing the interest of research laboratories in many parts of the world.

As explained by Tanton, "This is a new technique for measuring rotation of the plane of polarization of plane polarized light by a medium.

"With this technique the optical rotary power of a medium can be determined in the absence of an external magnetic field. Thus general analytical measurements can be made, for example, determining the amount of optically active material in solution.

"With another option," he went on, "Faraday rotation—rotation induced by an applied external magnetic field—can be measured to study properties of materials at the atomic and molecular levels."

By way of comparing his new technique to existing ones, Tanton said, "The conventional method for measuring Faraday rotation requires separating the specimen from an inherently large background due to scattering and absorption of the light beam, and to Faraday rotation in the ancillary optical components. The separation is frequently accomplished by using a superconducting magnet to produce large rotation within a specimen and a mechanically rotating analyzer to measure rotation of the specimen as a function of phase angle."

In Tanton's technique surface reflections and specimen absorption are compensated in such a way that high sensitivity measurements can be made.

High sensitivity gives the new technique three advantages over conventional methods for



DR. TANTON

measuring Faraday rotation and optical rotary power. Tanton outlined them as follows:

—Much less costly to put into operation and operate. Using low

field permanent or electromagnets, results are obtainable that are comparable to results conventionally requiring high field superconducting magnets which are expensive to purchase and require liquid helium for operation.

—Uses standard laboratory equipment and does not require any permanent modification to the standard absorption spectrophotometer. To convert the standard spectrophotometer to measure rotation, only a polarizer and an analyzer are needed. It is not necessary to modify the existing optics or electronics of the spectrophotometer.

—Versatility, both absorption and rotation can be measured by the same instrument. The new technique measures both Faraday rotation and optical rotary power which are determined con-

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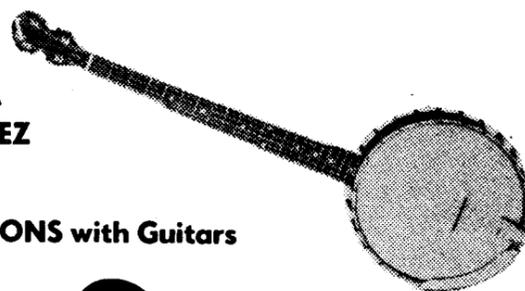
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THE STORY

What does blood do?

Blood, which the heart pumps rapidly round and round the body through miles of blood vessels, does many things to keep us alive and healthy. It carries the necessities of life—oxygen, water, and food—to all the cells of the body.

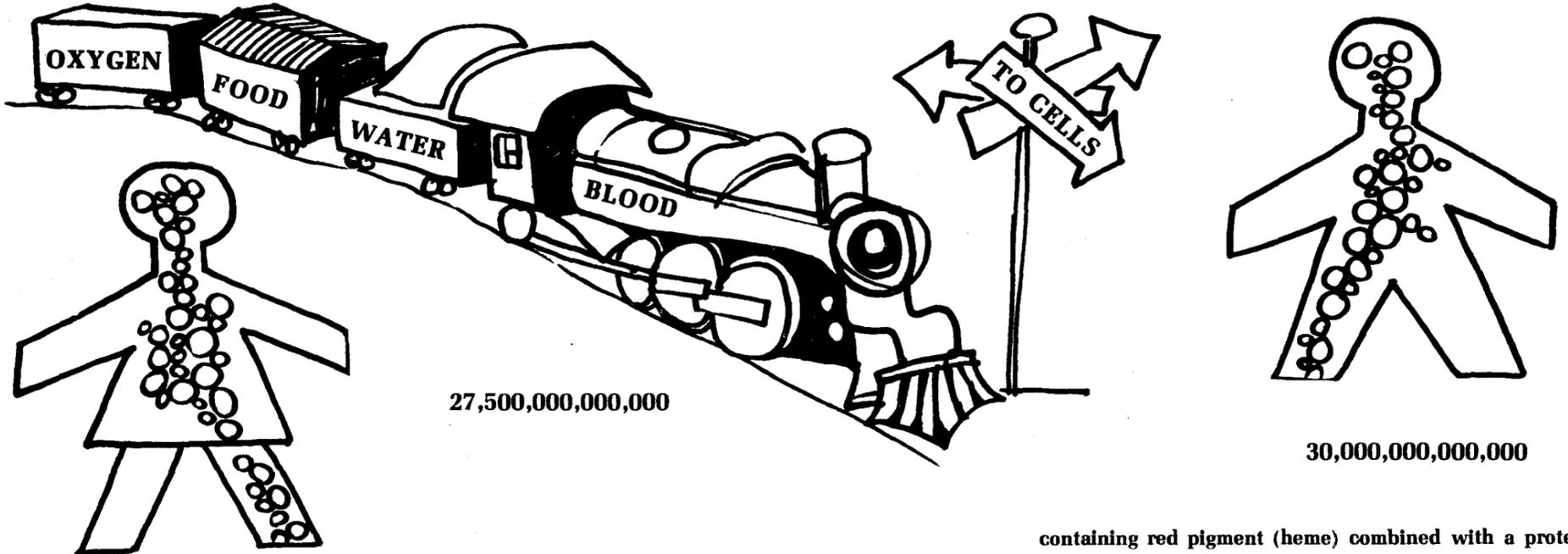
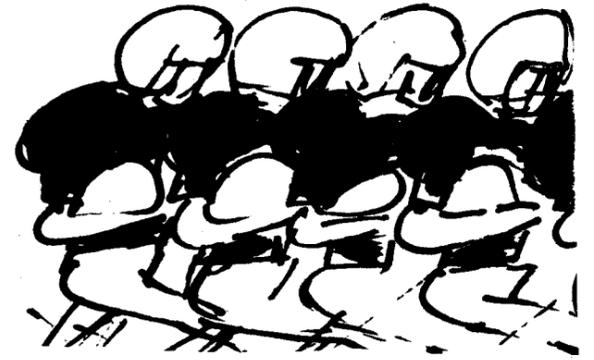
Blood helps the cells of the body to breathe by bringing them oxygen from the lungs and by taking carbon dioxide from the cells back to the lungs, where it is expelled.

Blood carries absorbed food from the intestines to the cells and carries waste products to places where they can be removed from the body.

Blood also furnishes water to the tissue cells. It distributes heat produced by the working muscles; and because of its water content and mobility, it serves as a temperature regulator for the body.

In addition to all these jobs, blood, by the action of its white cells, antibodies, and certain complex chemical substances, serves as a constant bodyguard against infections and other diseases.

Blood does these things for us in its normal course through our bodies. In addition, as we shall see later, our donations of this remarkable fluid may help save the lives of others.



What are the parts of blood and how do they work?

The microscope shows that blood contains cells suspended in a liquid. These cells—red cells, white cells, and platelets—comprise about 45 percent of the blood. The remaining liquid portion is the plasma, about nine-tenths of which is water.

Red cells look like red discs or saucers with pale centers. Although commonly referred to as cells, they are, in fact, only corpuscles because they lack nuclei that carry the genetic code and are responsible for cell division. They are normally all about the same size.

White cells are ordinarily larger than red cells and have well-formed centers, or nuclei, of deoxyribonucleic acid (DNA), that turn dark blue when stained.

Platelets are small granular fragments of cells with no nuclei, varying greatly in size. Plasma, when separated from the cells, is a straw-colored fluid.

red cells

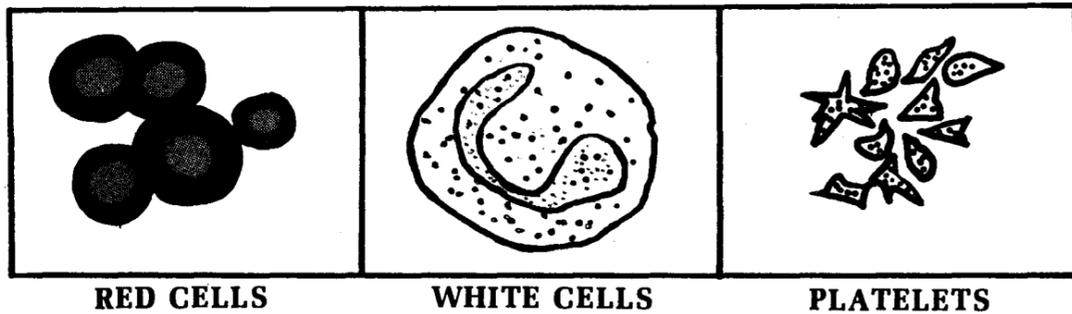
Red cells are made in the red bone marrow. At a certain point in the development of the red cell, hemoglobin is added. This hemoglobin consists of the iron-

containing red pigment (heme) combined with a protein substance (globin). It is the hemoglobin that gives the red cell their ability to pick up oxygen in the lungs. Iron is the key raw material required by the red cell factories. Most of this "scrap iron" salvaged from broken down red cells; the rest comes from food. It is necessary to have enough iron in the body to maintain the normal production of hemoglobin. If iron is lacking, the amount of hemoglobin in the red cells is lowered and later the number of red cells in the blood is reduced. The best food sources of iron are red meat, liver, eggs, green leaf vegetables, and whole grain bread and cereals.

Within the body, red cells have been found to live from 100 to 120 days. These delicate structures must withstand constant knocking around as they are pumped into the arteries by the heart. As they get older, their resistance is reduced and the cells break into pieces. Old or dead cells are removed from the blood in part by the spleen, which, in this capacity is considered a "graveyard."

Red cells also provide the body with a motor transportation system. After picking up oxygen in the lungs, red cells deliver it to the tissues, where it is used. Ordinarily, only from one-fifth to one-fourth of the oxygen load is released, since the tissues are not able to absorb more than they need at the moment. The rest of the oxygen remains in the hemoglobin as an emergency reserve supply.

The average man has 30 trillion (30,000,000,000,000) red cells in his blood, about 2.5 trillion per pint; women have slightly less, about 27.5 trillion. During periods of strenuous muscular exercise or emotional stress the number of circulating red cells increases. Also, at high altitudes or high temperatures they are more numerous.



RED CELLS

WHITE CELLS

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OF BLOOD



white cells

Research has shown that white cells are also made in the bone marrow and in the lymphoid tissues of the body. There is approximately 1 white cell to every 600 red cells. These white cells are among the most important agents by which the body defends itself against disease.

The ability of the white cells to move and engulf solid particles enables them to attack bacteria. Since the white cells are able to reach almost any part of the body, they travel about from place to place as they are needed. By squeezing through crevices in the walls of the capillaries (the smallest blood vessels), white cells are able to move out of a blood vessel, and great numbers of cells can, in this way, leave the blood in a short span of time and reach the place of injury or infection.

White cells can be thought of as a defending army, with various corps having their own specialties. When the body is attacked by an invading disease, the white cells close in. One group, the neutrophils, "fights" the bacteria by "eating" them. As many as 20 or more bacteria have been found inside one attacking white cell. Still other white cells (macrophages) clean up after the neutrophils by eating dead cells, pigment, and other debris.

There are times when the existing white cells are inadequate to hold back the progress of the disease, and additional forces are needed. When the cell-forming organs of the body get the "alarm" from those white cells already fighting, the emergency is met by releasing available reserves into the blood. If the condition is critical, even very young cells can be released as a last resort to help fight the disease.

Lymphocytes (from lymphoid tissues) and plasma cells are responsible for producing the humoral (antibody) defenses.

platelets

Platelets are formed by a fragmentation of giant cells in the red bone marrow. There are about 1.5 trillion platelets in the normal bloodstream, and after a short life of only 10 days they are removed from the blood, mainly in the spleen and liver.

Platelets assist in blood coagulation since they help form the blood clots that in turn stop bleeding by plugging openings in blood vessels.

plasma

Plasma is composed of water (about 91-92 percent), proteins (about 7 percent), and very small amounts of fats, sugar, and mineral salts. The sticky or gummy quality of blood is partly due to the plasma proteins. Without certain proteins (fibrinogen, antihemophilic factors, etc.), blood would not clot, and it is by clotting that bleeding is stopped.

Although the parts of the blood have been discussed separately, the work of all parts is carried on simultaneously and in a coordinated manner. For example, at the same time that white cells are attacking injurious bacteria, the antibodies of the plasma proteins are also helping to protect the body by counteracting the effects of the invaders.

How much blood have you?

The normal human adult of average weight has approximately 10 to 12 pints of blood in his body, or about 8 percent of his body weight.

Under certain conditions the blood volume may be increased. These conditions include exposure to high temperature, low oxygen supply, muscular exercise, excitement, and pregnancy. A reduction in blood volume below its normal level may be caused by hemorrhage, shock, the loss of plasma caused by extensive burns.

What is your blood group?

There are four main groups of blood—A, B, AB, and O.

When a person requires a blood transfusion, he must have blood that matches his group; otherwise, the cells will be destroyed and cause a serious reaction. However, under rare conditions group O blood may be given to group A, B, or AB patients.

Samples of the donor's blood and the patient's blood are first crossmatched to make sure that they "agree." If the cells from the donor's sample do not clump when added to the blood serum of the patient's sample, the bloods are "compatible," and successful transfusion is possible. Compatibility tests are complex and require about 45 minutes for proper execution.

What is Rh?

The Rh factor is an inherited blood group of the red cells like the ABO groups. It is present in approximately 85 percent of the population of this country. Those who possess the factor are said to be type "Rh-positive." The 15 percent who do not possess it are type "Rh-negative." The percentage distribution varies in racial groups.

What is rare blood?

There are dozens of blood factors other than that mentioned above, making hundreds of millions of factor combinations possible. Some of these blood factors or profiles of blood factors are uncommon. A factor is defined as rare if it occurs in less than 1 person out of 200. When these rarer persons become immunized by transfusion or pregnancy, they must receive blood that matches theirs exactly. The Red Cross maintains a Rare Donor Registry for the purpose of such matching.

What are some common diseases of blood?

The most common disease affecting the red cell population is anemia. A person may have anemia if the output of his red cell factories is deficient in quantity or quality or both or if the number of red cells destroyed or lost from his circulation (as in hemorrhage, for example) is greater than usual.

Iron deficiency is the most common cause of anemia. A person suffering from iron-deficiency anemia looks pale because he has less than the needed amount of the red pigment, hemoglobin. Iron deficiency results most commonly from chronic blood loss.

Another form of anemia has been called pernicious anemia. This is a chronic disease involving the blood-forming organs, the intestinal tract, and nervous tissues. Physicians can now control it by giving the patient vitamin B₁₂, which the patient cannot absorb normally.

Laboratory examination of a sample of blood is the only sure way of telling whether a person is anemic and, if so, which of the many forms of anemia is present.

An increase in white cells under the stimulus of an infection is an orderly mobilization set in motion by the body's need for new recruits to fight invading bacteria. When there is a disorderly overgrowth of white cells, leukemia is the result. Leukemia is a malignant blood disease for which there is as yet no complete cure. Acute forms of leukemia usually occur mainly in younger people. In later life, chronic forms occur that are compatible with long, relatively normal living.

Persons whose blood does not clot normally ("bleeders") may be suffering from a hereditary disease called hemophilia. In hemophilia, a plasma protein that takes part in clotting is deficient.

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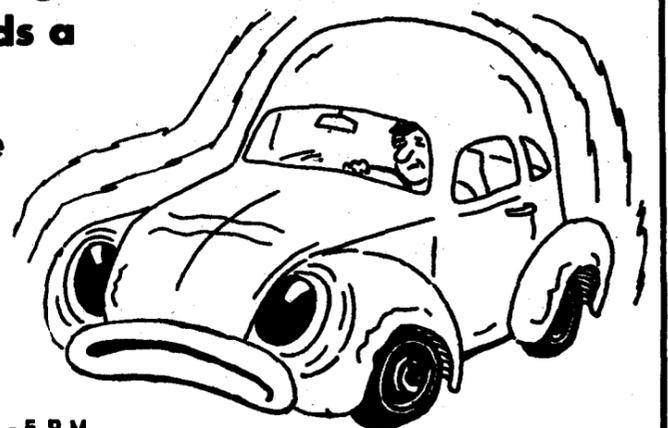
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School Quintets Are First Double Winners

The roundballers took to the hoops last week as the RSA Men's Unit Level basketball league got underway at the Post gym. After the first week's action, Company C, 8th ETC and MICOM posted wins in the American division.

MONDAY

In American League action on Monday, Company C dropped 4th ETC, 42-30; the 1st ETC bowed to the 8th ETC, 76-55; and the 3rd ETC whipped the Marines II team, 61-42.

Company C took their first decision over the 4th ETC, but the big story was that not all roundballers need to be "giants." Forward Harry Ross, 5' 7" tall, turned in an impressive performance amidst the taller competitors as he paced the "C" dwellers with 22 points.

Center Roger Greene sank 14, while Ronnie Shepard and Richard Ash led the students with eight and five points respectively.

Jerry Starks sank 22 points to help the 3rd ETC muzzle the Bulldogs in the evening's finale. Starks had 12 points in the first half as the students held a 31-20 margin. Early McKinney and Harry Bryant added 14 and 10 points for the students, while C. B. Foutz netted 26 biggies for the Marines.

WEDNESDAY

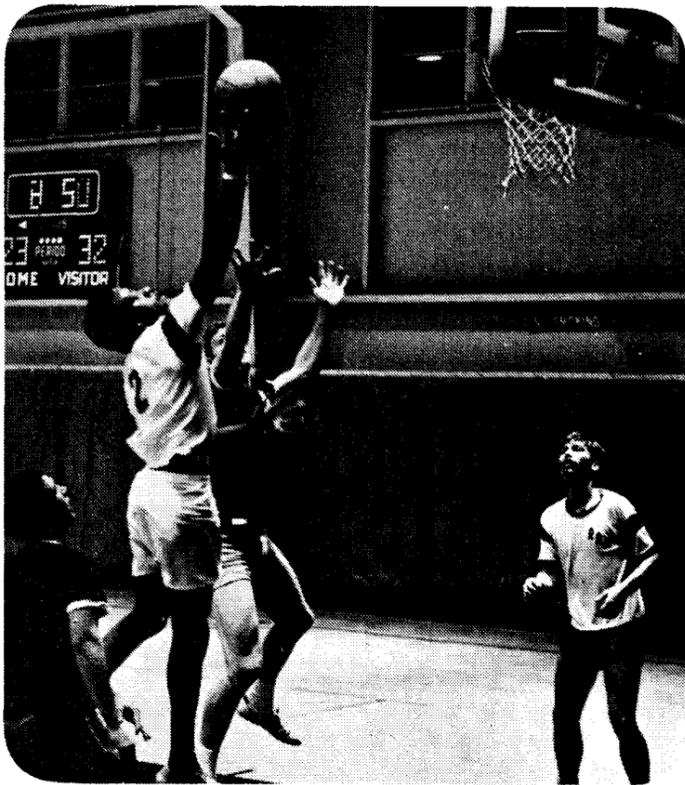
Company C gained their second win of the season in the form of a Christmas gift as 1st ETC had to forfeit the game. The students were unable to produce a full team at the 6 p.m. starting time.

In other action, MICOM blistered the 7th ETC, 77-19, while the 8th nabbed the honors over the 3rd ETC with a 71-31 win.

The missilemen, trying to avenge their bitter loss to the MPs in the playoffs last year, crushed the 7th as Ray Smith hammered home 24 points. Gene Howey, added 17, while lank 6'-7" Ron Castine, who averaged 15.9 points per game last year for Safeguard, netted 12. MICOM's acquisition of Castine should add rebounding strength to their bid for the crown this season.

High-scoring Arthur Perrin was held to four field goals for the missilemen, while Joe Holeman and Larry Simmons netted seven and six points respectively for the students.

The 8th ETC squad continued to look impressive as they romped for their second consecutive win at the expense of the 3rd ETC.



UP AND IN—Forward Harry Ross scores two points in Company C win over 4th ETC, 42-30. Ross finished the game with 22 points and Company C finished the week undefeated with a 2-0 record.

Leading the 8th's attack were Milton Grubbs, 13 points; Randy Velin, 12; Franklin Flannagan, 10; and rounding out the assault were Clifford Boler, Stanley Hall, Bobby Ripley and Jonnie McNealey with eight points each. Jerry Starks and Harry Bryant led the 3rd ETC with nine and eight points respectively.

National Division

The RSA Men's Basketball League got underway last week at the Post gym and after one week of action the National division teams are shaping up as the tougher teams in both leagues.

During a week of hard fought battles, the Meddacs, Companies A and B, along with the 9th ETC, were undefeated.

TUESDAY

In last Tuesday's action, the 5th ETC shaded the Marines I, 41-37; 9th ETC blasted SSG, 72-24 and the Meddacs defeated the MPs, 66-49.

The students from the 5th studied their lesson plans well as they defeated the fighting bulldogs from the Marine detachment. The students were led by Fred Fuller with 13 points, fol-

lowed by Joe Canada and Jim Green with eight each, while R. G. Grant and W. E. Tibbs paced the Marines with 16 and eight points respectively.

The 9th ETC, without last year's top National League scorer, David Winston, who averaged 21.9 points per game, found the winning way as they blasted SSG. The students had four men in double figures: Mitchell Coleman, 18; Kermit Crawford, 15; Ruben Arriola, 12; Randy Chalmers, 11; while SSG were led by Jim Kennedy and Johnny Sinclair with 10 and seven points respectively.

The Meddacs broke a MP hex with a sound win over them in the finale Tuesday night. Last year, the pillpushers dropped two games to the cops, 63-62 and 42-41.

Both teams were deadlocked at 24-24 at halftime, but the Meddacs out hussled the cops in the final half 42-25, led by Al Ashton with 20 points. The pillpushers acquired Ashton from the deactivated UTC unit this year. The All-American averaged 22.5 points per game last year for the American division

champs.

Other pillpushers in the double scoring were Bob Moore and Wynn Hoffman with 17 and 14 points, while the MPs were paced by Robin Sheets, Bob Johnson and Charles Sanders with 16, 10 and nine points respectively.

THURSDAY

Thursday night's action produced three cliff-hangers as Company B edged 6th ETC, 51-45; Company A nipped the Marines, 56-53; and the MPs tipped the 5th ETC, 48-42.

Company B, who had a dismal 4-8 record last year, got things rolling in the right direction with a win over the 6th ETC. Frank Olmsted, Mike Fields, and Wendell White led the "B" dwellers with 14, 10 and eight points, while Winston Stephens turned in a fine 26-point performance in a losing cause for the 6th.

National division champs last year, Company A, maintained their winning streak in regular season play with a victory over the Marines. Marvin Williams paced the A's with 28 points, followed by Charlie Reese with 14, while R. G. Grant and P. Green marched the bulldogs with 18 and 10 points.

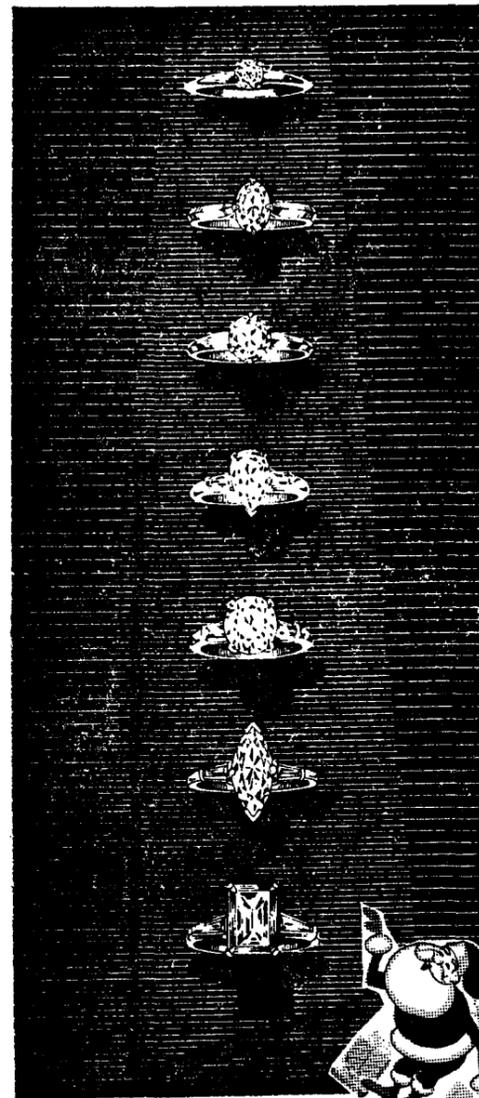
With the transfer of the Meddacs and MPs from the American to the National division, the Company A members will have an uphill struggle to repeat as division champs.

In the final game Thursday night, the MPs evened their record at 1-1, with a victory over the 5th ETC. Charles Sanders led the cops with 14 tallies, followed by Bob Zehner, Zelenak and Johnson with eight points each. Fred Fuller and Jim Green led the 5th with 14 and 11 points respectively.

Page 14 THE ROCKET — DECEMBER 12, 1973

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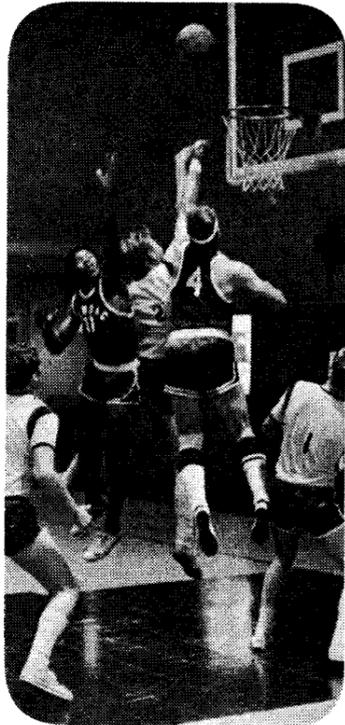
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SQUEEZE PLAY—Al Ashton (4) and Ray Buggs (11) of the Meddacs put the squeeze on Bob Nehring of the MPs in an attempt for a rebound. The Meddacs won 66-49.

UNIT LEVEL STANDINGS
AMERICAN LEAGUE

| Company | W | L |
|------------------------|---|---|
| Company C | 2 | 0 |
| 8th ETC | 2 | 0 |
| MICOM | 1 | 0 |
| 3rd ETC | 1 | 1 |
| Marines II | 0 | 1 |
| 4th ETC | 0 | 1 |
| 7th ETC | 0 | 1 |
| 1st ETC | 0 | 2 |
| NATIONAL LEAGUE | | |
| Meddacs | 1 | 0 |
| Company A | 1 | 0 |
| Company B | 1 | 0 |
| 9th ETC | 1 | 0 |
| MP's | 1 | 1 |
| 5th ETC | 1 | 1 |
| SSG | 0 | 1 |
| 6th ETC | 0 | 1 |
| Marines I | 0 | 2 |

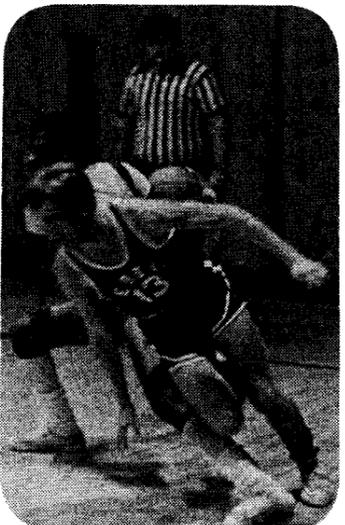
MICOM Seeks Share Of Lead

Revenge will be a motive for the Missile Command girls when they take the court at Davis Hills school tonite to battle Mary Sullivan Realty in a Huntsville Womens Basketball league game.

The Realty girls dealt MICOM the only blot on their season slate to date. A win tonite will enable the CWF-sponsored Arsenal six to take a share of the lead into the Christmas break.

Last week Janice McGee poured 26 points through the hoops as MICOM routed Alverson-Draughon, 64-20.

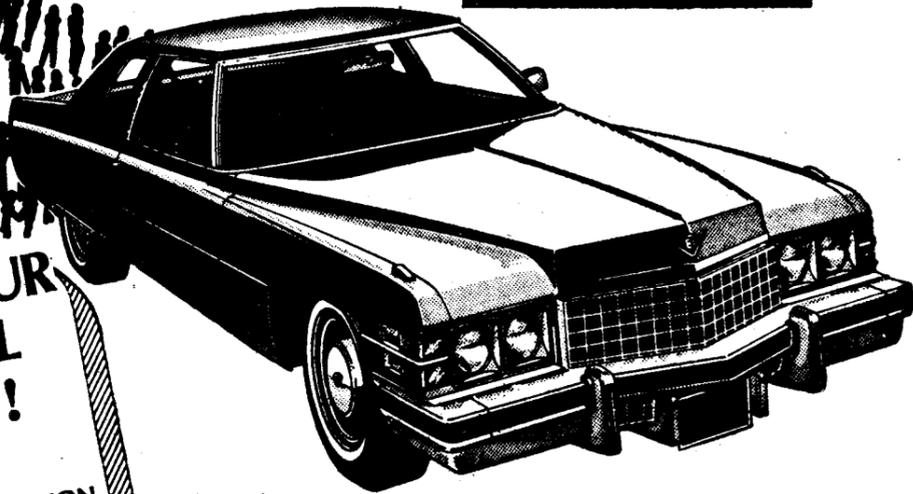
Gladys Hill tossed in 17 and Anita Wingard, the third member of the front line, hit for 13. Donna Broughton hit a trio of fielders and Carole Bissinger one to complete the scoring.



NEW DANCE—Bob Moore (13) of the Meddacs gives Charlie Sanders of the MPs the "bop" and then both men ended up in a "tangle." Although Sanders maintained control of the ball, the MPs lost control of the game as the Meddacs won 66-49.



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Lary Stewart Glenn Miller Mike Pannell
Ralph (Doc) Stephenson

1973 FLEETWOOD BROUGHAM CADILLAC

White, white vinyl roof, white leather, twilight sentinel, Guide-O-Matic, tilt and telescoping steering wheel, cruise control, AM-FM stereo radio with tape deck, power door locks, windows, dual comfort seats, rear window defogger and right and left remote control mirrors. # 540-A.

1972 ELDERADO COUPE

Blue, white vinyl roof, blue leather, power door locks, power windows 6 way power seats, AM-FM stereo with tape, 16,000 miles. # 554-A.

1972 CADILLAC COUPE DeVILLE

Black with black vinyl roof, blood leather interior, twilight sentinel, guide-matic, tilt and telescoping steering wheel, cruise control, AM-FM stereo radio with tape deck, power seats-windows and door locks, plus radial tires. # 564ca.

1972 CADILLAC SEDAN DeVILLE

Blue with blue vinyl roof, blue cloth interior, automatic diming, tilt and telescoping steering wheel, AM-FM stereo radio, power seats-windows-door locks. # 329-A.

1973 CADILLAC COUPE DeVILLE

Blue with white roof (vinyl), twilight sentinel, guidematic, tilt & telescoping steering wheel, AM-FM stereo radio with tape deck, power windows-seats-door locks and dual remote control mirrors plus a blue leather interior. # 510a.

1973 CADILLAC SEDAN DeVILLE

White with green vinyl roof, green cloth interior, dual comfort seats, twilight sentinel, guidematic, tilt and telescoping steering wheel, cruise control, AM-FM stereo, and just 3,000 miles. # 575a.

1972 SEDAN DeVILLE by CADILLAC

Burint sienna with beige vinyl roof, beige cloth interior, twilight sentinel, guidematic, tilt and telescoping steering wheel, cruise control AM-FM stereo radio, power seats-windows-door locks-trunk release and just 6,900 miles. # 576a.

1972 ELDERADO COUPE by CADILLAC

White, blue vinyl roof, twilight sentinel, power door locks, power windows, 6 way power seats, tilt and telescoping steering wheel, AM-FM radio, right and left remote control mirrors. # 551-A.

1971 OLDS TORONADO

Offered in harvest gold with brown vinyl roof, cruise control, AM-FM radio, power windows, and tilt wheel.

\$2795

12 MONTH WARRANTY
(OR 12,000 MILES) ON '71, '72 & '73 CADILLACS

1973 OLDSMOBILE LS '98'

Yellow with green vinyl roof, 4 door, green cloth interior inserts, power windows, AM-FM stereo radio, cruise control, tilt wheel, split seats and air... **\$4695**

1972 PONTIAC GRAND PRIX SJ

White, white vinyl roof, power windows, power seats, AM-FM radio, tilt steering wheel, cruise control, black vinyl bucket seats, air conditioned, power steering, power brakes, dual outside mirrors, and rally wheels. **\$3995**

1973 MERCURY COMET GT

Yellow with black accent stripes, black vinyl-bucket seats, automatic transmission, air conditioned, power steering, 302 V-8, and just 11,000 miles. **\$2995**

SPECIAL

1969 CORVETTE CONVERTIBLE

Metallic blue with white top, rally wheels, raised letter Goodyear polysteel tires, 4 speed, AM-FM radio, 350 engine, and 40,000 miles.

TRUCKS

1973 CHAMPION MOTOR HOME-Dodge chassis

Automatic transmission, air, AM-FM radio, tape deck, power steering, power brakes, 20 ft. and full self contained... **\$7395**

1972 CHEV. CHEYENNE/ Walk-In Camper

Automatic, air, power steering and brakes, 15,000 miles, west coast mirrors, walk-in camper with full door and power. # 234a.

ECONOMY SPECIALS

1968 ENGLISH FORD-CORTINA GT

-4 speed, bucket seats, real gas squeezer, local parts readily available. **\$695**

1971 MAZDA RX-2 SEDAN

4 door, red, white accent stripe, black vinyl bucket seats, 4 speed, radial tires.

1972 MAZDA 1800 WAGON

Metallic grey with automatic, air, AM-FM radio... **\$2395**

1972 MAZDA RX-3 SEDAN

Turquoise with white vinyl bucket seats, 4 speed, radio, tape player, radial tires. # 205-A.



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Sterling Cadillac-
Mazda So. Parkway & Drake
883-7160



Bowling Results

AMC League STANDINGS

| | |
|------------|--------|
| Bandits | 35 |
| Alley Cats | 33 1/2 |
| Hughes TOW | 33 |
| What Ifs | 31 |
| Sheraton | 30 1/2 |
| Rockets | 29 |
| Spares | 27 1/2 |
| Bombers | 27 |
| Sprinters | 22 |
| Fat Cats | 22 |
| T-Birds | 21 |
| All-Sports | 20 1/2 |
| Lancers | 19 |
| Tigers | 16 |

LAST WEEK'S MATCHUPS

Bandits-4 — Sheraton-0
 Alley Cats-4 — All-Sports-0
 Hughes-3 — Sprinters-1
 T-Birds-3 — Fat Cats-1
 What Ifs-2 — Spares-2
 Bombers-2 — Rockets-2
 Lancers-2 — Tigers-2

HIGH TEAM TOTAL

Hughes TOW — 3092 (1053-1087)

HONOR ROLL

Dave Pentecost-668 (189-203-276)
 M. R. Stevens-606 (214-193-199)
 Other outstanding totals: Nick Sparks, 593 (224); Reggie McLaney, 590; Noel Moore, 588; Bob Hinson, 587; Ken Champagne, 577; John Goltz, 575; Fred Helmer, 559; Chuck Turner, 550.

Monday Mixed STANDINGS

| | | |
|--|----|----|
| O'Dragon | 31 | 17 |
| Gotcha's II | 30 | 18 |
| Strike-Outs | 28 | 20 |
| Moback's | 28 | 20 |
| Snoopy Snoozers | 28 | 20 |
| L&M's | 26 | 22 |
| Tanglefeet | 26 | 22 |
| Odd Balls | 24 | 24 |
| Nite Owls | 24 | 24 |
| Hover-Lovers | 23 | 25 |
| Black & White | 22 | 26 |
| Noboutadoutit | 22 | 26 |
| 213 Bombers | 21 | 27 |
| -3 Plus 1 | 18 | 30 |
| Riff-Raffs | 17 | 31 |
| Luckless IV | 16 | 32 |
| High Ind. Series: Pete Dwyer, 559; Bill Sevey, 521; Judy Dwyer, 494; Barbara Jones, 476; Maggie Fasnacht, 471. | | |
| High Ind. Game: Pete Dwyer, 200; Eleanor Love, 204; Judi Dwyer, 192. | | |
| High team series: O'Dragon, 1930. | | |
| High team game: O'Dragon, 696; L&M's 659. | | |

Thursday Men's STANDINGS

| | | |
|-----------------|--------|--------|
| Pin Poppers | 40 | 4 |
| Boogers | 31 | 13 |
| Sick Calls | 28 | 16 |
| Snoops | 28 | 16 |
| Marines | 27 | 17 |
| Kawumps | 24 1/2 | 19 1/2 |
| Ding B's | 24 | 20 |
| Company B | 23 | 21 |
| Misfits | 22 | 22 |
| Losers | 19 1/2 | 24 1/2 |
| Centurians | 19 | 25 |
| Redrock Rangers | 17 | 27 |
| Home Team | 16 | 28 |
| Schnorkelspitz | 14 | 30 |
| Skates | 12 | 32 |
| Wildcats | 7 | 37 |

LAST WEEK

Misfits-4 — Skates-0
 Marines-4 — Losers-0
 Home Team-4 — Wildcats-0
 Company B-3 — Ding B's-1
 Sickcalls-3 — Snoops-1
 Rangers-3 — Centurians-1
 Pin Poppers-3 — Boogers-1
 Kawumps-3 — Schnorkelspitz-1

Team Game: Boogers, 995.
 Team Series: Boogers, 2814.

High Series: Bolt, 581; Agee, 580; Smith, 553.
 High Games: Agee, 242; Bolt, 212-202.

Season Highs: Team series: Boogers, 2987; Team Game: Boogers, 1021; High Series: Bolt, 599; High Game: Bolt, 253.

Tuesday Men's STANDINGS

| | | |
|-----------------|--------|--------|
| NCOA | 42 | 10 |
| Rookies | 34 1/2 | 17 1/2 |
| Retired I | 32 1/2 | 19 1/2 |
| Company C | 30 | 22 |
| Marines | 30 | 22 |
| Master Blasters | 29 | 23 |
| NWD | 28 1/2 | 23 1/2 |
| Squires | 27 | 25 |
| MICOM II | 27 | 25 |
| MICOM I | 23 | 29 |
| Five Aces | 22 1/2 | 29 1/2 |
| Half & Half | 20 | 32 |
| Pacesetters | 19 | 33 |
| Home Team | 18 1/2 | 33 1/2 |
| Personnel | 17 1/2 | 33 1/2 |
| MMCS | 15 | 37 |

LAST WEEK

Half and Half-4 — MICOM II-0
 Rookies-4 — Home Team-0
 NWD-4 — Squires-0
 Retired I-3 — MMCS-1
 Marines-3 — Master Blasters-1
 NCOA-3 — Personnel-1
 Five Aces-3 — Pacesetters-1
 MICOM I-2 — Company C-2

Team Game: Five Aces, 1048.
 Team Series: Marines, 2907.

High Series: Goltz, 582; Petonie, 577; Cowan, 568; Bofenkamp, 560; Helmer, 540.
 High Games: Petonie, 224; Goltz, 221; Helmer, 212; Bofenkamp, 208; Cowan, 200.

Post Theatre

THURSDAY and FRIDAY
 "Scarecrow" (R)

FRIDAY (Late Show)
 "Daddy's Gone a Hunting" (PG)

SATURDAY
 "The Good, the Bad and the Ugly" (PG)

SUNDAY and MONDAY
 "Enter the Dragon" (R)
 INCREASED ADMISSION: adults \$1.75, children \$1.35

TUESDAY and WEDNESDAY
 Double Feature:
 "Escape from the Planet of the Apes" (G)
 "Conquest of the Planet of the Apes" (G)
 INCREASED ADMISSION: adults \$1.75, children \$1.35
 One showing at 7:00 p.m.

Two shows nightly at 6:00 and 8:30 p.m. except as noted above.
 Sunday matinee at 2:30 p.m.

Military Briefs

REENLISTMENTS

SP4 Robert E. Buchanan
 SP4 Fred A. Engle
 SGT Robert H. Keough
 SGT Ronald G. Price
 SFC Donald R. Herrmann
 SSG Charles W. Dickson
 SSG Jimmy E. Lyles (MEDDAC)

NEW ARRIVALS

SP5 Rickey E. Finch
 SGT Douglas McLemore
 PFC James M. Littlejohn
 SP5 Siegfried Greau
 SP4 Kenneth P. McLendon
 SP5 Johnny E. Smith
 SP4 Jackie L. Harper
 SP5 Carl H. Pickard
 SSG Abe C. Bush
 SP4 Richard A. Cain
 SFC James L. Wright
 PFC Sammy Burditt
 SP5 Barry J. Rita
 SP5 Richard Wasserburger
 SSG Peter Nickas
 SP4 Gary A. Bridgett
 PFC Benny Lopez
 SP4 Michael R. Bryan
 PVT William C. Hagemeyer
 PFC Andrew A. Parisi
 SP6 Francis C. Howland
 SP4 David C. Clough (MEDDAC)

PFC Billy F. Reid
 PFC Jimmy G. Kelley
 PVT Gene E. Macpherson
 SFC Malcolm Medley

PROMOTIONS

To SP6: Lewis E. Towland
 To SGT: Everett A. Brouillette

To SP5: Eddie W. Wardlaw

Burns E. Day Jr.
 Edwin D. Ervin
 Craig E. Walters
 Norman Kemmercell
 Donald E. Semple
 Leiston M. Rowan

RETIREMENTS

MICOM

COL Joe B. Myers
 MAJ Thomas C. Dark
 CW2 Billy C. Ashby
 CW2 Chris F. Reimer IV
 SGM Herbert F. Campbell
 MSG Major D. Crosby
 MSG John A. Elliott
 SFC Nathanael Lewis
 SSG Merrell T. Haynes
 SSG Doyle R. Jellison
 SGT Robert E. Jones
 SGT Dennis A. Williams (MEDDAC)

SFC Gerald L. Biskey

MMCS

SFC Dennis J. Davis
 SFC William H. Fishburn
 SFC Rollie Hubble
 SFC Homer E. Knox
 SFC Claude Riggs Jr.
 SSG Ralph Bishop Jr.

ARMY COMMENDATION MEDAL

1Lt Jack B. Quick
 CPT Theodore M. Brostrom
 SP4 Richard R. Steele
 SP4 Gene A. Rubert
 CPT Paul W. Janek
 MAJ John V. Blondell



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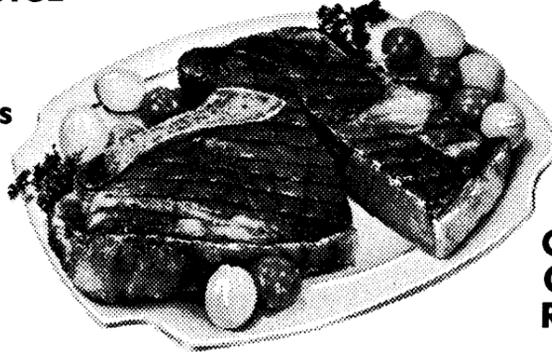
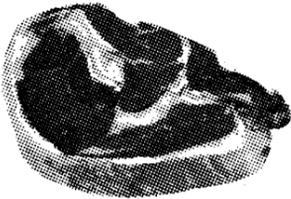
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- * FRYERS A - GRADE27 Lb.
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City State

Approximately Weekly Food Budget: \$15 \$20 \$25 \$30 \$35 \$40 \$45

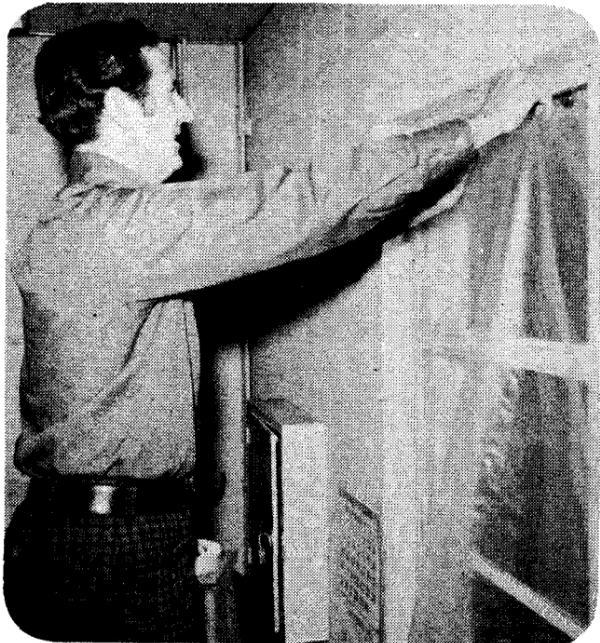
I own a freezer () Yes () No Size There are persons in my family



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KEEPING OUT THE COLD—Donald Lawrence of Facilities Engineer Directorate is warming up the work operations analysis office by covering the windows with heavy plastic sheeting. The sheeting, which can keep work areas 5-10 degrees warmer in some cases, is being furnished by Facilities Engineer to organizations requesting it through their building custodian. It's on a self-installation basis, and the custodian will have to have window measurements. Family housing residents can get it through the family housing officer.

Sprint, Radar Pass New Tests

A Sprint missile, launched and controlled by a research and development Missile Site Radar successfully intercepted an ICBM target nose cone over Kwajalein Atoll in the Pacific Ocean last week.

The purpose of this mission was to test the capability of the MSR and its associated data processor to launch and guide the Sprint missile to a short-range, medium-

altitude intercept. The interceptor missile passed close enough to the target, as verified by electronic instrumentation, to have successfully accomplished the intercept. Neither the Sprint missile nor the target carried an explosive warhead. The Sprint was launched from Illeginni Island in the Kwajalein Atoll, 18 miles from where the MSR is located.

Wives Slate Formal Dinner

The Redstone Readiness Group officers wives have an old fashioned formal Christmas dinner slated for next Tuesday evening at the Officers Open Mess. Charlie Lyle's band will play for the affair starting at 6:30.

The December bridge meeting has been cancelled while the January Coffee will be at the home of Mrs. William Rodgers. Co-hostess for the latter will be Mrs. Clyde Edwards.

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|--|--|--|
| <p>1972 OLDS CUTLASS SUPREME 2 door. Equipped with power steering, power brakes, factory air. Local car with only 25,000.</p> <p>\$3,199</p> | <p>1973 BUICK REGAL equipped with power steering, power brakes, factory air, vinyl roof, AM/FM stereo radio, tilt wheel, door locks, deluxe wheel covers. 12,000 miles.</p> <p>\$3,999</p> | <p>1971 OLDS TORONADO. Local 1 owner with only 33,000 miles. Fully equipped.</p> <p>\$2,850</p> |
| <p>1972 BUICK SKYLARK GRAND SPORT equipped with power steering, air conditioning. Local car with just 21,000 miles.</p> <p>\$3,199</p> | <p>1971 DODGE CHALLENGER equipped with power steering, power brakes, factory air, vinyl roof and radial tires.</p> <p>\$2,199</p> | <p>1972 FORD THUNDERBIRD. This car is fully equipped. Local 1 owner with only 13,000 miles.</p> <p>\$3,950</p> |
| <p>1970 BUICK SKYLARK 2 door hardtop. Equipped with power steering and factory air. Local 1 owner.</p> <p>\$1,999</p> | <p>1973 CHEVROLET CAPRICE WAGON. Three seater equipped with power steering and brakes, factory air. Only 1,000 miles.</p> <p>\$3,599</p> | <p>1972 BUICK LeSABRE CUSTOM 4 door. Fully equipped with power steering and brakes, factory air, local 1 owner with 15,000 miles.</p> <p>\$2,950</p> |
| <p>1972 PLYMOUTH GOLD DUSTER equipped with power steering, automatic trans., vinyl roof and air conditioning.</p> <p>\$2,599</p> | <p>1970 BUICK ELECTRA 4 door. This car is fully equipped and has only 36,000 miles.</p> <p>\$1,999</p> | <p>1972 BUICK LeSABRE CUSTOM 4 door hardtop. Equipped with power steering and brakes, factory air and vinyl top. Local 1 owner.</p> <p>\$2,850</p> |
| | <p>1970 BUICK RIVIERA—Fully equipped.</p> <p>\$2,550</p> | <p>1971 CHEVROLET IMPALA 4 door sedan. This car has power steering and brakes, factory air and vinyl top.</p> <p>\$1,850</p> |

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Birmingham Tour On For Saturday

The Recreation Center has scheduled a combined shopping and sight-seeing, tour to Birmingham for Saturday.

Those planning to make this tour should register at the Recreation Center as early as possible, or call 876-4531 for further information.

The tour bus leaves the Center promptly at nine Saturday morning.

Dr. Dillaway Tours Local Facilities

Dr. R. B. Dillaway, Army Materiel Command deputy for laboratories, visited the Missile Research, Development and Engineering Laboratory last week. He toured the Advanced Sensors Laboratory under the guidance of Dr. John McDaniel.

Missile engineers gave Dr. Dillaway briefings which covered the laboratory programs and technology effort.

Effort Involves Every Person

(ANF)—Averting an energy crisis this winter is going to take help from all of us. Here are a few things you can do around the house to save a little energy.

First—turn off lights and appliances when leaving a room. Next—wash only full loads in dishwashers and washers.

Keep air filters smooth flowing with a monthly cleaning.

Try taking quick showers rather than baths.

Set your thermostats at moderate temperatures. Lower them another five degrees when going away for the weekend and to fifty-five degrees when taking longer vacations.

Dial 112 For Redstone News

MERITORIOUS SERVICE— Lieutenant Colonel Robert H. Mackintosh, special assistant for improved Hawk-Iran, was awarded the first Oak Leaf Cluster to his Meritorious Service Medal for work as chief of MICOM's Liaison Office, Europe. He is credited with improving the management of Missile Command resources in Europe and in improving the U. S. image in international logistics.

Accountants Meet At Noon Today

The regular monthly meeting of the Huntsville Chapter, Federal Government Accountants Association, will be held at the Officers Open mess at noon today with George O'Reilly as the guest speaker.

The Budget Division chief in the Missile Command's Office of the Comptroller will speak on the subject "Incremental Funding of R&D."

Guests are invited to join chapter members for the meeting with the luncheon at twelve followed by O'Reilly's presentation.

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G78x14
H78x14
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- 2 FOR \$41⁰⁰**
C Belt White
E78x14
F78x14
H78x14
2.31 to 2.94 F.E.T. Per Tire
- 2 FOR \$50⁰⁰**
C. Belt White
L78x15
3.13 F.E.T. Per Tire
- 2 FOR \$38⁰⁰**
Cushion Poly IV White
735x14 855x14
775x14 825x15
825x14 855x15
1.96 to 2.47 F.E.T. Per Tire
- 2 FOR \$65⁰⁰**
Custom Wide Tred Polyglass
E70x14
F70x14
G70x14
2.48 to 2.82 F.E.T. Per Tire
- 2 FOR \$60⁰⁰**
Power Belt Polyglass White
G78x15
H78x15
J78x15
2.73 to 3.12 F.E.T. Per Tire
- FRONT END ALIGNMENT \$7⁹⁵**

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 PHONE NUMBER _____
 I want additional facts on:
 Veterans' Benefits Student Financial Aid

The Missileman's Day

Spanish army officers and NCO's studying at the Missile and Munitions Center and School marked the feast of Santa Barbara last week with a noon mass and traditional formal dinner.

Santa Barbara, patron saint of artillerymen and missilemen of Spain, is remembered each December 4 with the gala feast and devotionals, including the celebrations held by the four officers and five sergeants at MMCS.

"In Spain, the Feast of Santa Barbara is a beautiful day for all artillerymen and missilemen," said Captain Antonio Osuma, senior Spanish officer of the group.

"The day of the feast, we often set off firecrackers and noise bombs much like Americans do on the Fourth of July," Osuma said.

On the day after the festivities, though, the men of the Spanish

units may hold a memorial mass for their comrades who have fallen in battle, Osuma added.

Celebrations in Spain may last two or three days, depending on the resources available to the various units.

At Redstone, Catholic chaplains Paul M. Dede and Philip F. Thoni celebrated mass in the Chapel Tuesday in response to a request

Christmas Musical

The Protestant Women of the Chapel will have a special Christmas musical program during their regular monthly meeting on Tuesday, December 18, in the social room of the chapel. All women are invited to attend.

The 9:30 musical program will feature two voices and two auto-harps.

from the Spanish students.

In addition to the mass, the concelebrants gave a homily on the effort to integrate one's everyday occupation with the Christian life, with pursuit of an occupation being one manifestation of Faith.

After the devotional service, the group began the dinner at the Non-Commissioned Officers Open Mess.

NCO Wives Set Hail, Farewell

The Redstone NCO Wives Club has slated a hail and farewell luncheon at the NCO Open Mess for Monday, December 17. The program will include Christmas music furnished by a choral group from Butler High School.

Reservations may be made by calling Mrs. B. L. Sawyer (837-0940) or Mrs. R. C. Bachman (837-2667) by Thursday, December 13.



IT'S OUR TURN NOW—Mabel Birchfield of the Safeguard Project Office tells Chuck Lipsey of the Test & Systems Engineering Support Directorate that he's got to be nice to the Bear. Lipsey, an ardent Auburn fan, has been agitating Mrs. Birchfield with the Punt Bama Punt routine for the last year. She brought The Bear, as a tribute to you-know-who, and to bug the Auburn fans.

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RENDON

SP5 John M. Carey, assigned to Co. C with duties in the S-4 section of School Brigade, was promoted to his present rank Dec. 3. Carey is a 1969 graduate of James A. Garfield High, Garrettsville, Ohio, and entered the service in 1971. He was previously assigned to the 594th Transportation Co., Fort Campbell.

SSG Henry Rendon, in the same section, was promoted to his present rank. The Washington state native is a 1967 graduate of Moses Lake High School and entered the service in 1967. He was previously assigned to the 4th ETC.

MISSILE & MUNITIONS CENTER & SCHOOL
NAMES IN THE NEWS

By SFC WILFRED GILEAU



CAREY

Specialist course which graduated last week. Bokin led his class with an academic average of 96.11 percent. Bokin is a 1973 graduate of McKeesport Area High School in Pennsylvania.

AWARDS

CW3 James W. Ross, assigned to the Task Analysis Branch, has been awarded the 2nd Oak Leaf Cluster to the Army Commendation Medal for Meritorious Service in the Republic of Korea. While assigned to the 30th Ordnance Co., Ross supervised the move of three shops from Seoul to Camp Humphreys without interruption of operations to the 38th Artillery Brigade.

COL Hampton Dews, Secretary of MMCS, has been awarded the 2nd Oak Leaf Cluster to the Meritorious Service Medal. The award for Meritorious Service from June 1971 to April 1973 covered the period when Colonel Dews was assigned to MAAG in the Republic of China.

instructor in the Ammunition Department has reenlisted for six years on Dec. 5. The German native enlisted in the U. S. Army in July, 1961.

His medals include the Bronze Star with "V" device and the Army Commendation Medal.



WHITTLE SHIELDS

ARRIVALS

PVT Gregory A. Shields, has been assigned to Co. A with duties in HAWK Maintenance Logistics. The Alabamian is a 1972 graduate of Bradshaw High School in Florence, and entered the Army last February.

SP5 Richard B. Whittle, a recent School graduate has been assigned to Co. A with duties as a repairman in the HAWK Maintenance Department. The Utah native entered the service in 1968. His medals include the Army Commendation Medal with 1st Oak Leaf Cluster.



RODRIGUEZ

BOKIN

HONOR GRADS

PFC Frederico Rodriguez, was named honor student of the Ammunition Storage Specialist course which graduated November 29. Rodriguez, a Texan, graduated from Alpine High School in 1973 and entered the Marine Corps immediately.

Another Marine, PFC Jack Bokin, was named honor student of the Ammunition Storage Specialist course which graduated last week.



ROSS

KAMPFER

REENLISTMENT

SSG Rainer K. Kampfer, assigned to Co. A with duties as an

Losing Pays Off In The End

Sergeant Major J. B. Bullock of the 3rd Battalion at the Missile and Munitions Center and School wasn't trying to set precedent—he just lost a bet and paid off. At the same time, he was keeping a promise to his battalion's soldier of the month for November.

It seems Bullock was having a bit of difficulty in getting accurate morning reports from Specialist Five Joseph H. Davis, clerk of the 9th Enlisted Training Company.

For added motivation, Bullock bet Davis a steak dinner that the clerk couldn't submit accurate morning reports for an entire month.

"Prior to the bet," Bullock said, "Davis had submitted only five or six completely accurate reports."

"The job of doing morning reports for a training company isn't easy," Bullock explained. "The high turnover in a training company causes a lot of entry changes. In a period of four months, a clerk can be faced with a completely new company."

But Davis addressed his job with new vigor, taking care that all Social Security numbers, military occupational skill codes and other entries were correct.

"You can imagine my surprise when he finished the entire month without one error. I had to pay up," Bullock said.

In addition, Bullock had offered a dinner to Private First Class Dennis A. Caldwell of the same unit if he brought home the honors as Post soldier of the month.

Like Davis, Caldwell came through, too.

Recently, Bullock made arrangements for a complete dinner, including wine, at the NCO Open Mess. His reservations included places for First Sergeant D. L. Lossing of the 9th ETC and his wife.

AT AUCTION

Saturday, Dec. 15, 10:00 A.M.

EXCELLENT 67 ACRE FARM-7 TRACTS
HOUSEHOLD FURNISHINGS—ANTIQUES

To be sold on the premises—located on Highway 110 approximately 10 miles S.W. from Fayetteville, 13 miles East of Ardmore, 20 miles N.W. of Huntsville, Ala.

WATCH FOR AUCTION SIGNS

This excellent level land farm is perfectly located, being convenient to each of the nearby towns in an excellent community, near churches, schools and all conveniences. This home has long been a landmark in this area, being commonly known as "The House of Seven Gables" with some of the most unusual architectural features found only in the better type construction of its day.



Tract 1—Containing approximately 6 acres on which is situated this unique 2 story 7 gable home, with covered porch to excellent well in front yard. The house containing 7 rooms is in excellent structural condition which could be renovated into one of the most beautiful and desirable homes of the south. There is a porch completely surrounding the living quarters. This house has lots of gingerbread wood trim that cannot be found today. The yard is set with abundance of large shade trees. You must inspect this excellent home prior to date of sale to appreciate its real quality. The acreage is rich, level and productive—large enough to accommodate the wishes of the suburban dweller. Enough cannot be said to describe this lovely home and its surroundings, as your visual inspection is necessary to properly evaluate the potentials.

Tract 2—Across road from Tract 1 contains an estimate 8 acres of level, rich productive land capable of producing any crop you desire to grow. Improved with frame barn in average condition with any number of excellent building sites. Topography is unexcelled with potentials you cannot envision.

Tract 3—Containing approx. 4 acres with frontage on Highway 110 and also frontage on Honea Road. A perfect tract on which to build your own private home or several houses for sale. This tract affords many possibilities to the most selective land seeker in an acreage size that anyone could appreciate.

Tract 4—Containing approx. 4 acres deep productive soil on the corner of Highway 110 and west side Scott Orchard Road. Perfect for the small Country Estate on which you desire to build that home of your choice with ample room for garden, horses and few cattle. Could conceivably be developed into excellent building lots.

Tract 5—Containing approx. 4 acres, adjacent to Tract 4, with frontage on west side of the Scott Orchard Road. The same topography and soil type as Tract 4, and with the same possibilities as Tract 4 affords. This one could be purchased separately or conjunctively with No. 4 for a larger unit.

Tract 6—Containing approx. 20 acres with frontage on east side of Scott Orchard Road and cornering on Highway 110. The land is all level and mostly in production, with a small acreage of wooded pasture on the back. There is an old established homestead with trees, well and barn. A small farm unit within itself, adjoining Tract 1 (Home Tract) and Tract 7 following.

Tract 7—Containing approx. 20 acres, mostly open with several acres of excellent hardwood timber on the back portion. Building sites galore on the East side of Scott Orchard Road and adjoining Tract 6 above. Individually a good unit for farming for further development or for your own home construction.

Acreage of each Tract is approximated and will be determined by exact survey should they sell separately or in combinations less than the whole unit.

This is a most productive farm unit with production capability for the successful growing of any crop, pasture or orchard. As separate tracts, the possibilities are unlimited, or as as entire—an excellent farm unit.

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| Chair | Rocking Chair | yoke |
| Antique Oak Table | Smoke Stand | Crosscut Saw |
| Bedroom Suite- 3 pc. | Antique Mirrors | Old Pie Safe- |
| Poster | Victoria-Silvertone | Metal Front |
| Chiffonobe | Cedar Coffee Table | Old Hand Tools |
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| Bevel Edge Mirror | | |

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GET AWARDS—Three Safeguard engineers received cash awards for their participation in the Suggestion Award program. Left to right, Ronald C. Schneider, Donald E. Head, Colonel Louis G. Hergert, Jr. and Charles M. Neal. Colonel Hergert, Director, Safeguard Project Office, presented \$750 checks to Schneider and Head electronics engineers who shared a \$1500 award for their joint suggestion. Neal, an aerospace engineer, received \$390 for his adopted suggestion. Schneider and Head's suggestion saved the government approximately \$617,274 the first year, while Neal's saved approximately \$6,800.

COL Increase Official Now

A Civil Service Commission bulletin received last week by the MICOM Civilian Personnel Division gives official notification of a 5.5 percent cost of living adjustment in annuities for civil service retirees. The 5.5 percent increase applies to immediate annuities commencing on or before January 1, 1974.

Annuities are automatically increased whenever the Consumer Price Index (CPI) goes up at least three percent over the CPI for the month used as a base for the most recent cost living annuity increase (April 1973), and stays up by at least three percent for three consecutive months.

In such a case, annuities are increased by the highest percentage rise during the three-month period plus an additional one percent authorized by law.

The 5.5 percent increase will also go to already retired employees and survivor annuitants, will be effective January 1, and will be included in the regular February 1974 annuity checks which pay annuity for January.

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Twin Launch Ends Pershing Series

Launching two missiles within minutes of each other, the Army last week concluded annual service practice with its Pershing battlefield missile.

Both shots were successful. Missiles were launched by Seventh Army soldiers who now return to regular duty stations in Europe.

The 35-foot missiles were fired from Green River, Utah, and landed on target at White Sands Missile Range, N. M.

The 12-round series just concluded brings the number of Pershings fired since 1960 to approximately 280.

Colonel Samuel C. Skemp, Jr., is Pershing Manager at the Missile Command and Jim Conner is technical supervisor for firing operations.

Coffee House Keynotes Talent

Talent is the keynote of Sunday's Coffee House program at the Recreation Center.

The Coffee House idea is not new, dating back to the 15th Century to attract thinking and talented people to a meeting place for an exchange of ideas.

Although, each is different, all are alike in that all serve coffee of one kind or another, and all offer entertainment and self expression for the individual.

The Recreation Center's Coffee House, located in the main Lounge, comes alive with warmth and hospitality for the Service men and their guests.

Coffee and refreshments are served throughout the evening.

Two New Options Enhance Oklahoma Degree Program

Two new options have been introduced into the University of Oklahoma bachelor of liberal studies program administered by the Training and Development branch of the MICOM Civilian Personnel Division, for civil service employees in Army agencies served by the Division.

During a recent visit to Redstone, Dr. Toy Troutt, dean of the College of Liberal Studies at Oklahoma, described the options. One, the junior college option, provides an outlet for people with prior college work to utilize it in order to complete the bachelor of liberal studies program is less than the four or five years normally required.

"In other words," James Foster said, "persons can get credit for college work they had previously completed."

The second option permits

students to have a speciality comparable to a major during the regular bachelor of liberal arts degree work. Specialities offered are in management studies, education studies or health administration.

"Dr. Troutt also counselled some of our people who are enrolled, while he was here," Foster said.

"MICOM now has 72 employees who are students under the program. Since it was introduced, 24 persons from the agencies served by the MICOM Civilian Personnel Division have completed work for degrees.

"The training committee has approved applications for six people to enter the program this fiscal year."

For more information about the University of Oklahoma bachelor of liberal studies program, persons may contact Foster at 876-5850.

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FRIED TO A GOLDEN BROWN!
FRIED JUMBO SHRIMP \$1.89
Everyone's a-jawing 'bout
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Served with Alabama toast
and choice of Salad or Potatoes

chicken

JUICY ON THE INSIDE, CRISP
AND GOLDEN ON THE OUTSIDE!
3 PIECES OF CHICKEN with
Alabama Toast and your choice
of Salad or Potatoes \$1.39

steaks

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"STEAK LOVIN' CARE"

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FILET \$2.89
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COMPARE OUR PRICES
Above Dinners include Alabama toast and
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STEAK SANDWICH \$.99
with Baked Potato or French Fries
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Cash Award In First Try

Two employees of the Missile and Munitions Center and School submitted suggestions to the Army Suggestion Program for the first time recently, and their suggestions were both adopted.

Combined estimated first years savings were nearly \$7,000.

Mary K. Harris and Henry Willard received certificates of commendation and cash awards for their efforts.

Mrs. Harris works in the Army



HARRIS

Wide Training Support department, grading correspondence course exams and keeping student records. Part of the processing of student records included programming magnetic cards with a magnetic card selector typewriter.

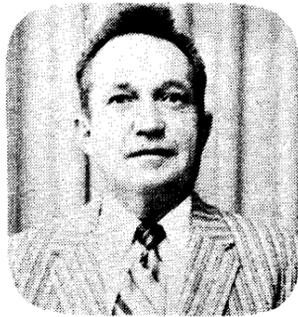
As each student completed a course or subcourse and did not enroll again immediately, the magnetic cards were placed in the student file to be kept for two years.

With enrollments at an all-time high, immediate re-enrollments were still not frequent. As a result, AWTS would have had to purchase many additional cards to cover the new students.

"The cards are expensive, and it seemed a waste to have so many in the inactive file, so I suggested we erase the cards and use them for new students as they enrolled," Mrs. Harris said. Student records are still retained in the division files.

Now, the cards are erased, ten at a time, with a common magnet, then re-used. The estimated first year savings from Mrs. Harris' suggestion is \$3,850.

Henry Willard, a heavy equipment driver in the Engineer



WILLARD

Maintenance branch of the Maintenance division, plans to retire soon after more than 30 years of federal service.

"Part of my job includes moving portable air conditioning units from one equipment van or building to another," said Willard shortly after receiving his award.

He noticed that the ducts were badly weathered. Such ducts, when exposed to the weather year 'round, last only about a year.

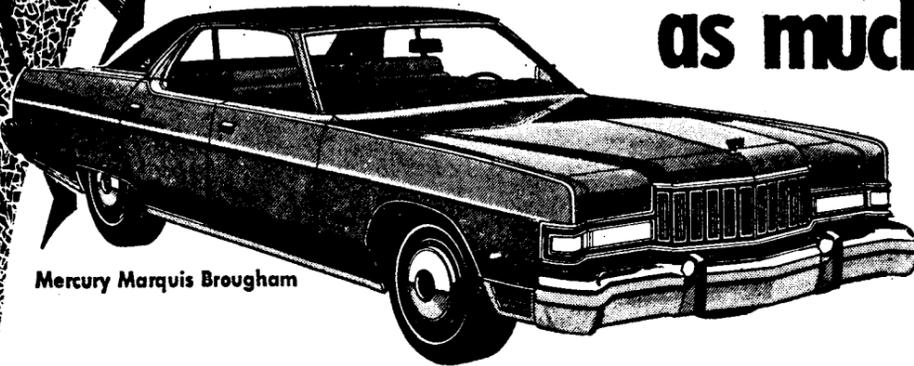
Willard suggested slipping a sleeve of rubber-impregnated canvas over the ducts. The measure is expected to extend to duct life up to five years.

Estimated first year tangible savings for Willard's suggestion were \$3,134.

DON'T PANIC!

**WHY
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Mercury Marquis Brougham

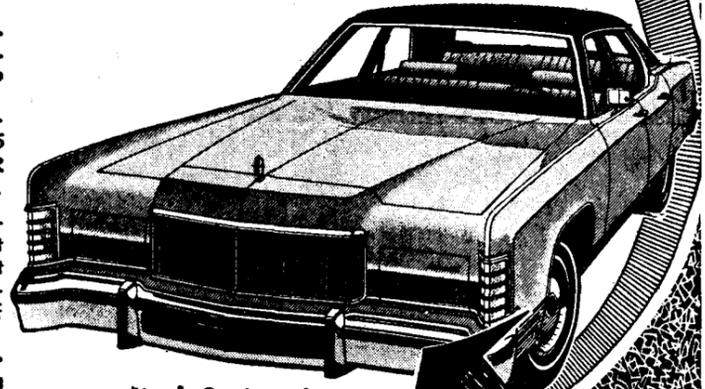
Do you need new wheels? If you have been accustomed to driving a full-size American luxury car, don't let the energy crisis panic you into sacrificing your comfort and convenience for imaginary savings that may be too small to even notice.

Did you know that once your initial investment is made, the average difference in fuel consumption between a 3,000 pound compact averaging 15 mpg and a 5,000 pound luxury car averaging 9 mpg is ONLY \$180 PER YEAR (based on an annual 10,000 miles using gasoline costing 40c per gal.).

And too, on the average, imported small cars normally require more frequent service and maintenance than full size American cars. Replacement parts on imports usually cost as much or more than what the same part would cost for an American luxury car. Not to mention the delay often encountered in getting parts for imports that results in the car being out of service for days or weeks at a time.

Import taxes and dollar devaluation have upped the prices on so-called foreign economy cars until many of them now sell for as much or more than a domestic full size sedan.

So, when all the facts are considered, do you really want to sacrifice your family's comfort, convenience and safety for savings that may never develop?



Lincoln Continental



Montego MX Brougham

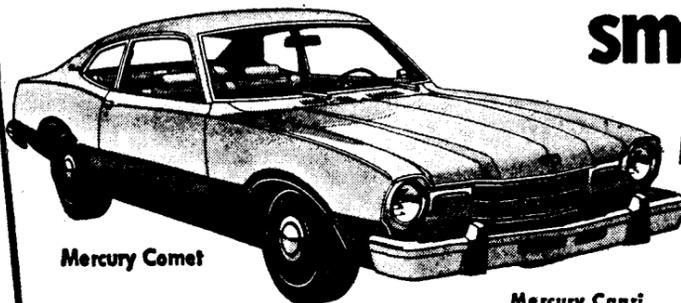
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Job Openings

(Editor's note: Published here are Civil Service job openings away from Huntsville. The same information is not given for all job openings because the announcements are received in various formats. The Rocket is extracting information from them for its readers. The announcements are posted on the bulletin board in the Civilian Personnel Division, Building 1-3159 for obtaining further information. No phone calls please.)

NEVADA
Naval Ammunition Depot vacancy announcement no. 116-73 dated Nov. 21, 1973, ELECTRICIAN (lineman) WG-2806-10 (closing date Dec. 21, 1973); also announcement no. 115-73 (same dates), SHEETMETAL MECHANIC WG-3806-11; and announcement no. 54-73 (same dates), ELECTRICIAN (power plant) WG-2808-11. Submit SF 171 to Civilian Personnel Office (0612), U. S. Naval Ammunition Depot, Hawthorne, Nev. 89415.

WASHINGTON, D. C.
Marine Corps merit promotion program vacancy announcement no. 237-73 dated Nov. 20, 1973, SUPPLY MANAGEMENT OFFICER GS-2003-15 (no closing date indicated). Submit SF 171 to Classification and Employment Section, Code HQSG-1, Headquarters, U.S. Marine Corps, Washington, D. C. 20380.

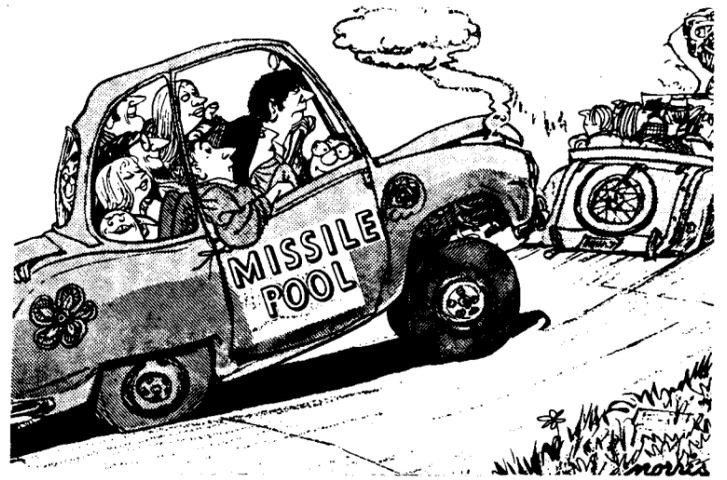
CONNECTICUT
Defense Contract Administration Services vacancy announcements no. 51-73 dated Nov. 16, 1973, SUPERVISORY QUALITY ASSURANCE SPECIALIST (mechanical, with nuclear components sub-option) GS-1910-13 (closing date Dec. 17, 1973). Submit SF 171 to Defense Contract Administration Services Region, 666 Summer St., Boston, Mass. 02210. Job located in Montville, Conn. * * *

Wright Patterson AFB lists the following vacancies in an announcement dated Nov. 13, 1973. All positions are open continuously. For these jobs submit SF 171 to Aeronautical Systems Division, Wright Patterson AFB, Ohio, 45433:

CLERK-STENOGRAPHER GS-312-3; CLERK TYPIST GS-322-2/3; COLD TYPE COMPOSING MACHINE OPERATOR GS-324-4; COMPUTER PROGRAMMER (IBM model 360/40 or larger) GS-334-5 thru 7; CARD PUNCH OPERATOR GS-352-2/3; MICROBIOLOGIST GS-403-7 thru 11; GENERAL ENGINEER (systems integration, guided missiles, systems analysis, advanced systems, photographic, re-entry vehicles, instrumentation, crew stations, weapon systems) GS-5 thru 13; MECHANICAL ENGINEER (aeronautical equipment, industrial equipment, ordnance, general) GS-830-5 thru 13; ELECTRONIC ENGINEER GS-855-5 thru 13; AEROSPACE ENGINEER GS-861-5 thru 13; TRANSLATOR (Russian) GS-1045-5 thru 11; MATHEMATICIAN GS-1520-5 thru 12.

NEW YORK
Army wide vacancy announcement no. 499-73 dated Nov. 29, 1973, APPRAISER GS-1171-14 (closing date Dec. 20, 1973). Submit SF 171 and DD form 556 to Chief of Engineers, Civilian Personnel Division, DAEN-EPC-D, Washington, D. C. 20315. Job located New York, N. Y.

TEXAS
Army wide vacancy announcement no. 498-73 dated Nov. 26, 1973, AUDITOR GS-510-11 (closing date Dec. 26, 1973). Submit SF 171 and DD Form 556 to Office of Civilian Personnel, Attn: Chief, Recruitment and Placement Branch, Hqs., Ft. Sam Houston, Texas 78234.



Carpool Info

Share Rides

The Rocket is carrying a share-the-rides column as a free service to its readers in the interest of helping during the energy crisis. Notices may be given by telephone, 876-1500 or 876-4161, or if you prefer in writing, Mail Symbol AMSMI-G. Our batting average is good. Last week we had 10 notices. All but one drew several calls. Five got rides or carpools worked out and one said, "Oh, we had enough calls to form two carpools."

WANTED: To form carpool with another Monte Sano family (2-3 people). Mornings: Monte Sano to bldg 4500 via Huntsville High. Afternoons: Directly home. Working hours 0755 to 1625. Less Conger, 876-3235.

WANTED—Riders from Fayetteville to Bldg. 5250. Will pick up in Fayetteville, Park City or weight station. Gene Sanders, 876-7117, or Fayetteville 433-4328.

RIDE OR JOIN CARPOOL—with two others persons from Hart-selle or Priceville to Bldg. 4722, hours 7:45 to 4:15. Leon Griffith, 876-2147, home 773-2374.

WANTED—To join Carpool from Fairview or Eva to Bldg 4505. Working hours 8 to 4:30. R. Moody, 6-1146.

CARPOOL MEMBERS—from vicinity of Hazel Green to Bldg 5681 or vicinity. Working hours 7:30 a.m.—4 p.m.

RIDE OR FORM CARPOOL—from Truck City, Fayetteville to Bldg. 5250. Working hours 8 a.m.—4:30 p.m. Rom Laurenzi, 876-6186.

THERE'S ROOM for three riders in a present car pool emanating from the Blue Spring-Mastin Lake-Pulaski Pike area of northwest Huntsville, with the riders dropping off at the Safeguard Building and Building 4488. 8 to 4:30 shift. Call Crawford Kelly at 895-3720.

WOULD LIKE TO JOIN CARPOOL from Holly Point to Bldg. 7471. Hours 7:30 to 4. Martha Duke, 876-2548.

RIDE, JOIN A CARPOOL, or help form a new pool from Park City or the truck scales area, just south of Fayetteville. I work in Building 5400 from 7:00 a.m. to 3:30. Selwyn Hemphill, 6-3077 or 433-5819.

WANTED: Carpool from Fayetteville, Tenn., area to Bldg. 5250 area. Ed Sherman, 876-5131.

RIDE OR JOIN CARPOOL from Courtland or Decatur to Bldg. 110 or vicinity, hours 8 to 4:30. Call Rose Stutts 876-5033.

JOIN OR FORM A CAR POOL from the Davis Hills School area to Bldg 3302. Hours 6:45 a.m. to 3:30 p.m. four days a week. Stuart Shipe, 876-2061.

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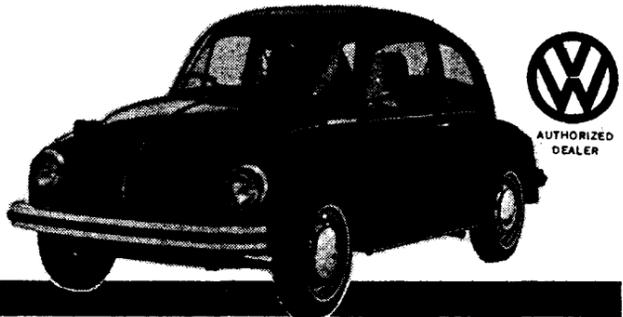
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