

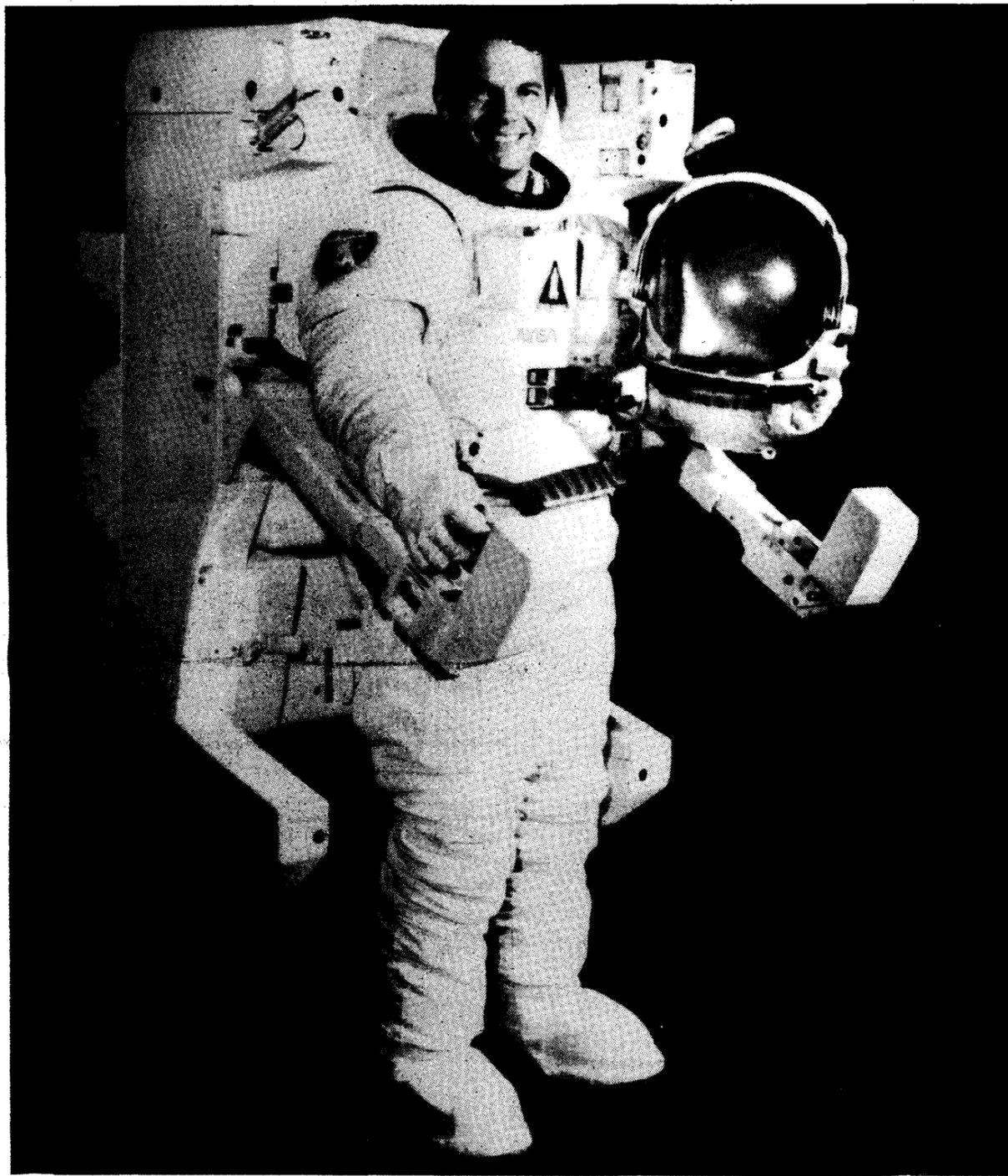
# Redstone Rocket

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## Army's first astronaut looks forward to lift-off



**JET PACK**—Army astronaut Robert L. Stewart wears the jet-propelled backpack called a manned maneuvering unit that he will test on the Challenger shuttle mission. Stewart calls

himself "the world's smallest spacecraft." Inside this issue on page 10 is a story on the Redstone Arsenal missile pioneer who built the first "jet vest" personal flight device.

**HOUSTON**—When Lt. Col. Robert Stewart completes his mission aboard space transport system 11 in February, he'll receive a set of specially designed wings. The wings bear a gold-star overlay in their center to signify that the wearer has flown in space.

How does the Army's first astronaut regard this special status accorded the men and women "with the right stuff" to do America's job in space? To find out, the Army News Service interviewed Stewart at the NASA space center in Houston. The 41-year-old soldier-astronaut explained that in the past NASA space shuttles have functioned as freight carriers delivering and launching satellites in space and bringing some back to earth in the payload bay. The shuttle also can serve as the traveling repair shop for ailing satellites in orbit, a science lab for space experiments and observations, and as a factory for manufacturing such products as perfect crystals in a zero-gravity environment.

In February, space transport system 11 becomes a test bed for the manned maneuvering unit. This one-man, gas-propelled back pack will be tested by Stewart. The MMU will allow crewmembers to perform external inspections.

**Q.** What do you find special about the manned maneuvering unit?

**A.** Hooked up to it, I'll be the world's smallest spacecraft. I mean that literally, because I'm smaller than Bruce (McCandless), and when we're out in the machine we have our own propulsion system, our own life-support system, and our own communications system. So, we meet all the qualifications for a spacecraft.

**Q.** What's the purpose of your space walk?

**A.** We're proofing the equipment for Flight 13, which will concentrate on repairing a satellite. We'll fly out into emptiness and try to make "translations" (round-trips) up to 300 feet away from the orbiter. We plan to travel at about a foot-and-a-half per second, so it should be five minutes out and five minutes back. We plan to conduct a 150-foot and a 300-foot translation.

**Q.** Do you have any qualms about the mission?

**A.** No, why should you be afraid of something unusual? Nothing in life is 100-percent sure.

**Q.** Are you saying that because you're a test pilot? Is that your nature?

**A.** Well, we're not foolhardy. We don't have a death wish. We're sure all the engineering that can be reasonably done on the machine has been done. Our manned maneuvering units have two redundant flight-control systems and two separate fuel tanks so we can handle fuel leaks. We also can just turn off everything and call for the orbiter to come pick us up.

(see astronaut cont'd page 2)

## Stewart says Army must be active participant in space

**WASHINGTON**—Astronaut Robert L. Stewart, 41, will be the first soldier launched into space.

Lt. Col. Stewart's presence on board the space shuttle "Challenger," scheduled for lift-off on Jan. 29, will underline the Army's new commitment to space exploration. "We've got to be active participants rather than side-line spectators," he said.

During the eight-day mission, Stewart will test the "manned maneuvering unit," a one-man, nitrogen gas-propelled backpack that snaps onto the spacesuit's portable life-support system. NASA plans the test as a dress rehearsal for the upcoming "Solar Max" repair mission in April.

"I'll be the world's smallest spacecraft," Stewart said from his NASA office in Houston. "On the fifth day of the mission, Bruce McCandless (A Navy astronaut) and I will test the unit from 150 and 300 feet away from the orbiter."

If Stewart's tests are successful, NASA hopes the astronauts on the April mission will be able to leave their craft to repair a satellite disabled during an earlier launch.

Stewart will ride center seat in the shuttle as flight engineer. His planned flight gear will include two pairs of Army astronaut wings and a replica of the Army flag.

"The Army gave me a firm foundation in flying, engineering, and equipment evaluation skills," he said. "The space program is the new frontier. It's sort of an outgrowth of my love of flying." Stewart has logged some 5,500 flight hours in 38 types of airplanes and helicopters.

He already hopes to "go up again" after his first shuttle ride. "This isn't a one-shot deal," he said. "For an Army person this offers a legitimate career field. Right now we're entering an era of practical use of space—both for civilian and military purposes. The Army can't afford to be left out of it."

Stewart is a 1964 ROTC graduate of the University of Southern Mississippi. (Arnews)

# Army contests school zoning changes in public meeting

Local Army officials planned to attend Monday night's public hearing on school rezoning and attack the city's zoning proposals as unfair to arsenal children.

Capt. Rankin Clinton, an attorney on the MICOM legal staff, was to present the Army's views to the school board at the hearing at Butler High.

The city announced in November its proposed changes in school attendance zones that would place most arsenal children in schools farther from their homes.

Army officials here have repeatedly asked the school board to reconsider the proposed zoning changes without success.

The changes in zoning would require arsenal children now attending Ridgecrest Elementary near Gate 8 to transfer to Morris on Madison Pike and University Place in Northwest Huntsville.

Arsenal middle school pupils attending Westlawn would be shifted to the new Calvary Hills middle school near University Drive.

The school board espouses the zoning changes as a method of promoting better utilization of schools and maintaining racial balance while adhering to a "nearest school" concept in pupil assignment.

But rezoning will require arsenal children alone among city school students to be bused to schools farther from home than the ones they attend now.

School board President Ed Starnes and Ralph Green, the schools' director of general services, confronted Army parents here Thursday night in a stormy session at the Bicentennial Chapel. The school officials explained the proposals' impact and then fielded questions for nearly two hours.

Parents complained that the school board is discriminating against military people and viewing the arsenal community as "outsiders."

It was pointed out at the meeting that the Army technically is a part of and has the option of joining the county school system which would provide free busing of arsenal students to county schools, rather than the Army having to pay for busing to city schools.

## Soldiers credentials good for space shuttle mission

Versatility and utility in the age of technology. What better credentials can a person bring to the astronaut corps?

Robert Stewart brings them all—starting with his career preparation in the ROTC program at the University of Southern Mississippi.

As an air defense officer, a former combat aviator in Vietnam and instructor of helicopter pilots, Stewart credits his Army training for helping him meet the space program's criteria. That training included advanced air defense work and a course in guided missile systems. "I had my feet firmly planted in the air,"

says Stewart.

His footing gained support through a master's degree in aeronautical engineering from the University of Texas. After a tour in Korea, he attended the Navy's test pilot school. His flying, engineering and equipment-evaluation skills evolved further from his four-year participation in the experimental test-flight program at Edwards Air Force Base, Calif. There he flew prototype airplanes and helicopters. As chief test pilot for the AH-64 helicopter (Apache), he worked with engineers on a program to develop its electronic flight-control system. (Arnews)

## Astronaut

(continued from page 1)

**Q.** As the first Army astronaut to participate in a space mission, what will you take with you to symbolize the occasion?

**A.** I'll take up the first pair of Army astronaut wings and the Army flag. Everything else on board is selected by the agency to fulfill the mission—from freeze-dried food to sleeping shorts. The food comes in a wide variety. I take a lot of ribbing because I'm not a big broccoli fan, and that vegetable is well stocked. Our clothes are chosen by NASA and include jackets, shirts, pants, and flight suits—nothing we're not familiar with.

**Q.** How does your family deal with your military-space career?

**A.** They've been extremely supportive for 20 years. They see more of me now than they did when I was a test pilot. My wife appreciates what I do. She was with me at flight school and for four years at Edwards Air Force Base while I was testing helicopters. She's aware of the dangers. She's been there to comfort the wives of the husbands that didn't make it back. While I'm at NASA, I'm sure she is familiar with the aspects for this mission so that she doesn't worry.

**Q.** Why do you think it's taken so long for the Army to get into the space program?

**A.** The Army started the program. The first U.S. satellite was launched by an Army missile. The Army ballistic missile agency (at Redstone Arsenal) was

responsible for the Saturn 5 that sent men to the moon. Right now we're entering an era of utilization of space for civilian and military purposes. I don't think the Army can afford to be left out of that.

**Q.** Where should the Army go from here?

**A.** The new frontier is definitely in space. There are a lot of applications of space both in military and civilian life. We're going to have to be active participants rather than sideline spectators. I think we are in a position where there are definite needs that the Army has to fulfill in operating from, or in, a space environment. Unless we make that decision now, and start getting qualified Army people into the programs, we're going to be left out by default.

**Q.** When you return from Mission 11, what are your goals?

**A.** Start preparing for another mission. This is not a one-shot deal. This is a legitimate career field for an Army person. We need to have other people like me in the space program.

**Q.** After a few more missions, what else do you want to do while you're still on active duty?

**A.** I'll have eight years invested in the space program before I leave. If the Army can use that experience, I'd certainly be happy to offer it. I'm a career soldier. But (smiling), I'll have to talk to MILPERCEN about it. (Arnews)



Stewart

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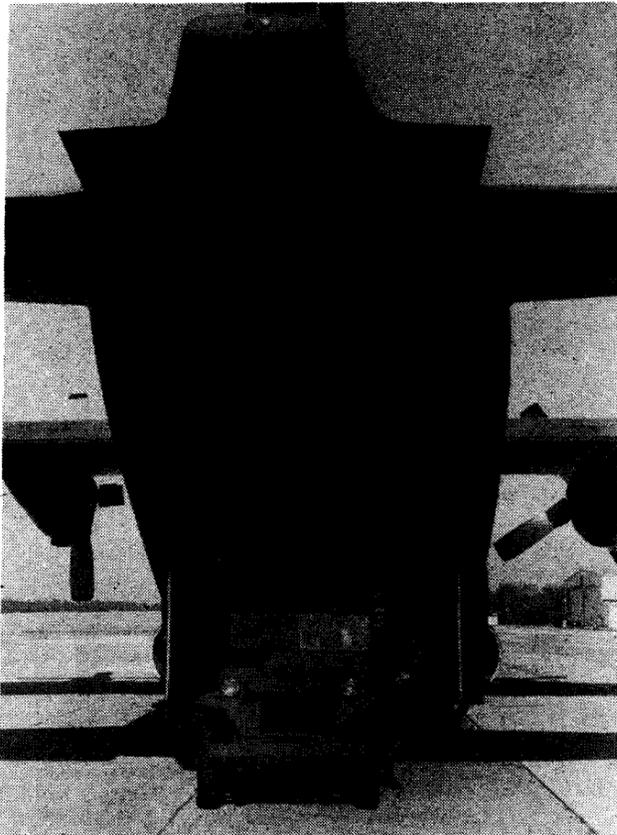
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# Army couple loan rare jeeps to transportation museum



'PYGMY'—A friend of the owner's, Charlie Griebel, poses with the Ford 'Pygmy' before it's loaded on a C130 transport plane.

BY GINGER STEPHENS

The Army Transportation Museum flew a C130 air transport to Redstone to pick up three historic military vehicles owned and donated by two arsenal soldiers.

A Dodge command car, the Ford GP Pygmy (the first jeep), and the Willys MA were temporarily donated by Capt. Randall and Margaret Withrow while the couple spend a three year assignment in Germany.

The Withrows collect military vehicles because they are interested in military history and transportation. They own several military vehicles in various states of restoration, including a World War II ambulance.

The Withrows have been collecting military vehicles approximately 15 years and own every jeep in military history except the current M151 A2 model.

Of their collection, these three vehicles were chosen for loan to the museum because of their excellent restoration state. "These were in better shape than the others, otherwise we would have offered the museum more," said Randall Withrow.

The 1941 ½ ton Dodge command car is significant in its own right but doesn't have the historical value the other two do, he said.

The Ford Pygmy is the earliest model of the vehicle that later became what is now known as the "jeep." The Pygmy was Ford's first attempt at the military concept of the four-wheel drive vehicle and was delivered to the U.S. government in November 1940.

The Pygmy reconnaissance car pilot model was tested at Camp Holabird near Baltimore and later, with modifications, became the 1941 Model GP "jeep."

The ¼ ton, 1941 Willys MA the Withrows own is one of 1500 prototypes made to be a chief competitor to Ford's Pygmy. The steering column gearshift and the well-proven engine of Willys "Americar" in the MA created stiff competition between Ford and Willys for the "jeep" contract.

Most of Willys MA's were sold to and are still used, in part, as Russia's military transportation, Withrow said.

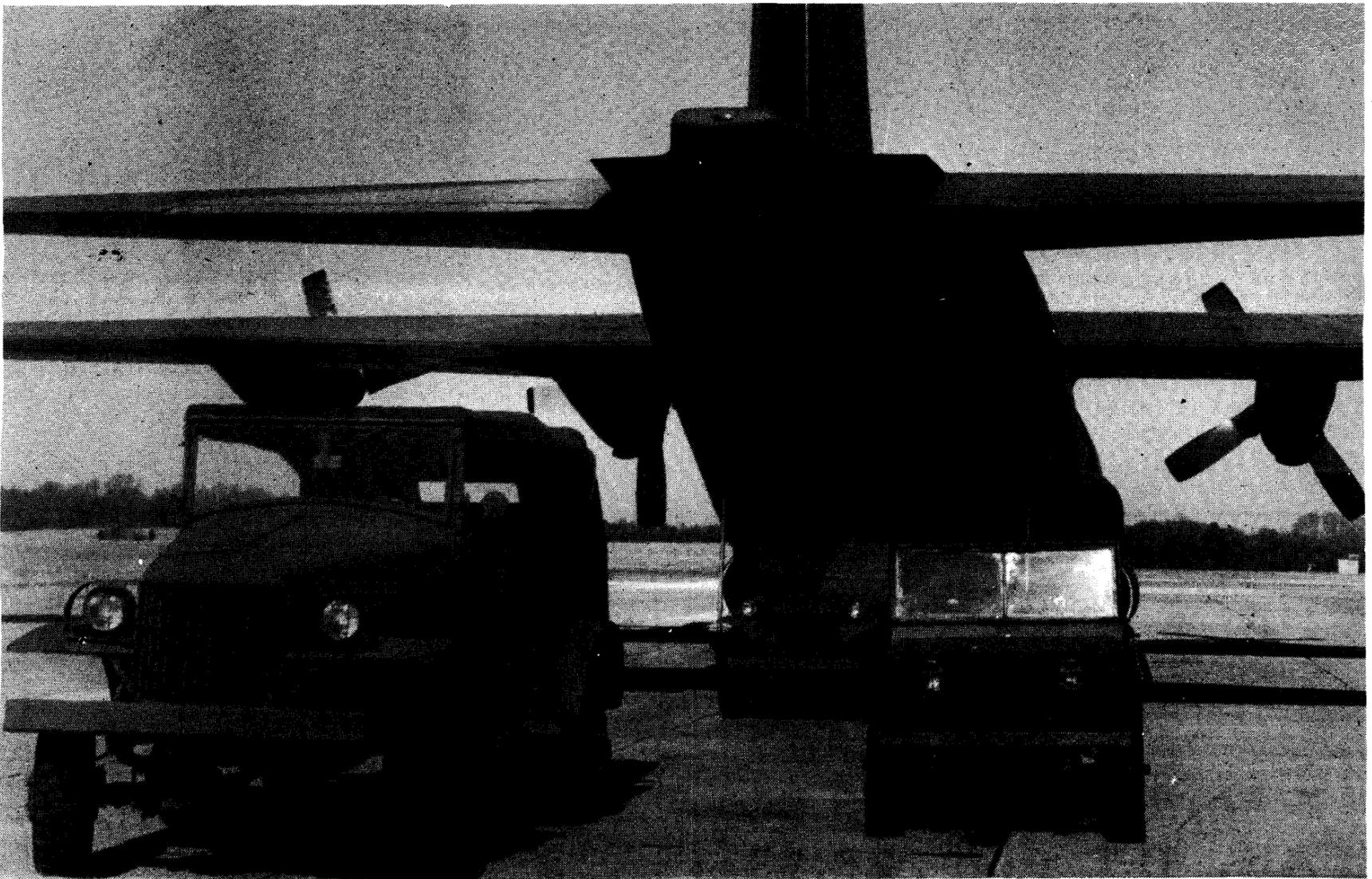
The "jeeps" are rare and have become even more valuable since the Army has proposed a new vehicle, the American Motors built "Hummer", to replace the jeep.

Since its purchase at an auction at the Henry Ford Museum in Dearborn, Mich., the Withrows have been offered as much as \$25,000 for the Pygmy.

Many of the vehicles they keep for their personal collection are afforded through resales and trades. They not only collect military vehicles but old cars also. One of their oldest prize possessions is a 1936 Ford pick-up truck in "show" condition.

Many of Withrow's contacts used in making purchases, trades, and resales come through his membership to the Military Vehicle Collectors Club. He is the only member of this worldwide club in the southeastern U.S., according to John Nieder, a friend that shares the same hobby. Most contacts and club members are in the New Jersey area.

"Randy inspires others with his hobby and helps those who are interested to get military vehicles," said Nieder. "But the ultimate to him would be to have one of every World War II vehicle."



THREE MILITARY CLASSICS—Command car, 'Pygmy' and Willy MA await air shipment from Redstone to Fort Eustis.

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# Shooting team readies for '84

Redstone Arsenal's Rifle and Pistol Team is getting ready for the 1984 shooting season.

Every Wednesday from 2—4 p.m. the team practices different positions for firing their weapons, and check their aim to compete in various tournaments. The team will participate in the National Matches at Camp Perry, Ohio July 19 through August 18.

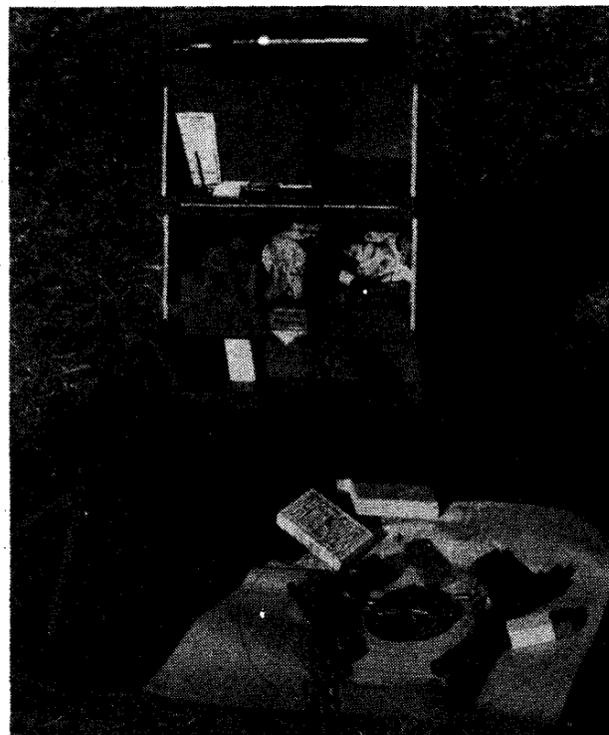
Members encourage active duty military personnel to join the team. For more information or to try out for the team contact SFC George W. Weaver, 876-2636.



SIGHT CHECK—SFC George W. Weaver checks out his pistol sight while preparing to shoot.



CAREFUL AIM—SFC Steven D. Ashbrook takes careful aim down range as he demonstrates the kneeling position with his M16 rifle. (Photos by Maggie Cummins)



SHOOTER'S SUPPLIES—From a range scope that checks the hits or misses downrange from the firing position, to firearms and ammunition, this display shows some of the equipment used at the meets.

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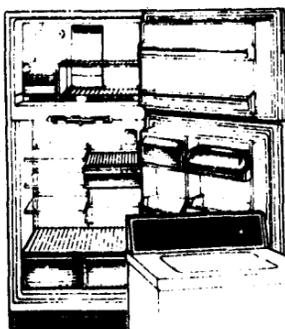
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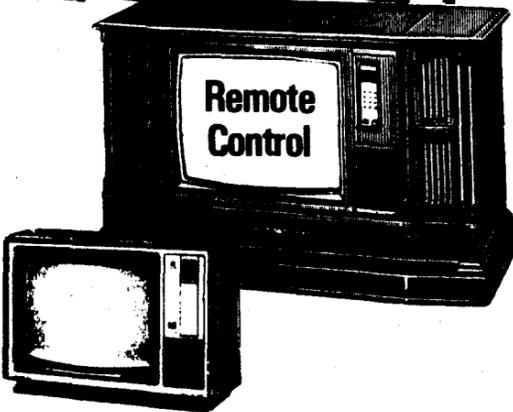
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# Faithful donors win blood trophy for record eighth time

BY GINGER STEPHENS

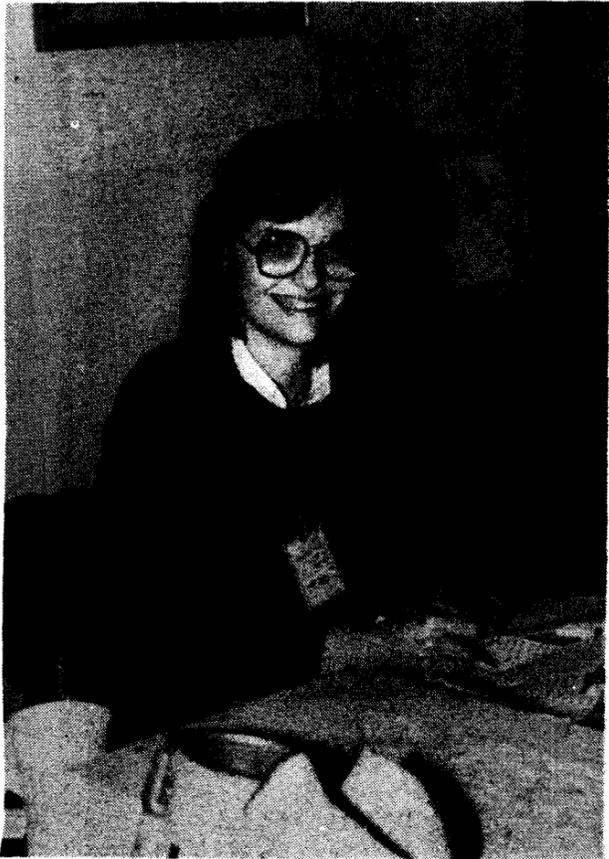
She has walked on crutches all her life but does not let her disability stop her from doing anything, including donating blood.

Teresa McDonald rides horses, swims, exercises at a local spa, and plans to give blood as many times as the Red Cross will let her.

The 22-year-old receptionist for Procurement and Production Directorate tried to give blood in high school but was told her blood pressure was too high.

"Walking on crutches makes my blood pressure rise," said McDonald. "But if I go 15 minutes early it allows time for it to get back to normal and I can give."

Helping others is why many people donate blood but for some it is easier than others. "I don't let my disability stand in the way of anything I want to do. As long as I'm strong I'll give," said McDonald.



RECEPTIONIST Teresa McDonald doesn't let a disability get in the way of her giving blood.

McDonald and the many other blood donors in P&P faithfully gave blood last year winning the "floating" trophy eight out of 12 months, according to the P&P blood coordinator, Linda Gentle.

Gentle uses phone calls, announcements and hand-made posters to urge people to participate in blood drives and bring a friend.

She has worked for the Red Cross as a volunteer for 12 years and presently is a member of the local Red Cross board of directors.

"There is no substitute for blood and there is only one source," said Gentle.

The blood drive trophy floats monthly to the directorate that donated the most blood during a blood drive. P&P's success is partly attributed to the support of the director and supervisors. The time Gentle gives to her blood drive duties is time donated by P&P.

There is pride in winning the blood drive for the blood donors of P&P, she said.

Fred Carr, contract specialist for P&P, gives "because it's needed." He has been donating blood for 12 years but more frequently the last two years since Gentle has taken over the directorate's blood drive program.

"Linda is good with people. She makes people feel important for giving and makes an effort to make people feel comfortable about it," said Carr.

"They make you feel good for giving," said Elizabeth Garrett, another P&P blood donor who has been giving blood since 1960.

Garrett donates for the Pershing Project Office at P&P's blood drives. She has seen her blood help save a life. "It's my way of contributing," she said.

An open heart surgery patient received blood from Garrett and some other Athens citizens who drove to Birmingham to donate after hearing about his need.

"The surgery was successful and he's living a full life now. He called to thank us and say he felt good with our blood," she said.

Garrett is not the only one who donates blood in her family. They make it a family affair when her husband and daughter, both arsenal workers, schedule to donate blood at the same time.

Another P&P blood donor, Frederick Glover, gives because "it's something I can do to help that's unique to me." As a former Coast Guard medical corpsman he knows what the need for blood is.

"I don't think people realize how important it is. Blood is a lifeline," said Glover.

Glover, a contract specialist for P&P, works in the office with Gentle so he realizes how hectic blood drive week is for her. "The phone rings constantly from



TROPHY CASE—Linda Gentle and Teresa McDonald add new trophy to collection at P&P directorate.

6:30 a.m. to 5 p.m. with people trying to schedule an appointment to give blood," he said. "I try to help out when she's not there if I can."

With everyone's help and dedication P&P has kept the floating trophy twice as long as any other directorate.

"Nobody's ever kept a floating trophy five times straight," said Naomi Whitaker, Red Cross volunteer in charge of the arsenal blood program. "I've had the program two and a half years and that's the best achievement anybody's had."

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# Families return home on schedule; few file claims for water damage

Arsenal housing officials expected to meet their target date of Jan. 20 for moving back into quarters all military families forced from their homes by water damage during the Christmas holidays.

The last family displaced into temporary housing when overhead pipes froze and burst in approximately 80 military residences here was expected to return to their permanent quarters late last week.

Plumbers, maintenance mechanics and other Facilities Engineering personnel have logged hundreds of hours of overtime repairing damage that occurred in the housing area and elsewhere on the arsenal Christmas weekend when temperatures plunged into the sub-zero range.

Some military families returned from holiday vacation to find the ceilings in their homes collapsed and their belongings in ruins from water that gushed in from burst pipes overhead.

No estimate is available of the cost to repair the structures but claims for damage to personal property are expected to exceed \$100,000, officials said.

Nine claims totalling nearly \$14,000 had been paid as of last Thursday, according to George Shroust, claims examiner in the legal office here. The largest award was for \$7,170 while the smallest was \$25. Two additional water damage claims have been forwarded to Marine authorities for payment.

Claim filings by those entitled to collect for water damage have been unexpectedly slow, according to

Shroust. "I'm very much surprised. I expected to be swamped this week," the claims examiner said.

To assist residents with their claims Shroust and a lawyer, Capt. Brynn K. Bennett, claims judge advocate on the MICOM legal staff, set up a special claims desk at the post housing office. They received only two claims the first day and cancelled plans to man the desk a second day.

Shroust said residents have up to two years to file their claims but suggests they get them in as soon as possible. Claims that are hand-carried to the finance office usually are paid in two days but some complicated cases may require two to three weeks, Shroust said.

Residents who claim water damage should first contact the housing office. "They should contact us and we'll send someone to look at the items that may have been damaged and once we make the statement that the damage was no fault of the occupant, which of course it wasn't in this case, that opens the door to the legal office" to pay the claim, explained Bill Smart, family housing branch chief.

Claimants usually are advised to get a professional judgement on what it will cost to repair or replace damaged items, Smart said.

"We try to guide them any way we can so they will have the proper documentation before going to the JAG," he said.

Residents needing assistance should call the family housing office at 876-7143/4346, Smart added.

## 'Trooper hat' introduced for immediate wear

WASHINGTON—A new cold-weather "trooper hat" has been approved for immediate wear, say uniform board officials.

According to the official wear policy, the optional hat may be worn with the black all-weather coat, the green raincoat or the green overcoat. However, it may not be worn with the windbreaker or with the pullover sweater when these are worn as the outer garment. The policy also states that service cap insignia must be centered on the front of the hat, and that the ear flaps may be worn either up or down.

The trooper hats already are being sold at some clothing sales stores for \$20 each, officials say. (Arnews)

## Vietnam history series begins

WASHINGTON—A new book giving a historian's socio-political views about U.S. military involvement in Vietnam has just been published by the Army's center of military history in Washington.

The book, titled "Advice and Support: The Early Years, 1941-60," represents the first volume in a series telling the history of the Army in Vietnam.

It chronicles U.S. involvement in Vietnam from that country's origin to the beginning of the Kennedy administration focusing on the Army's growing role in the implementation of U.S. policy. Described within the book's 391 pages are such activities as: the secret OSS missions into Indochina during WW II, the Army's role in the Dien Bien Ph crisis, American and French strategies in Vietnam, and the advisory program developed after the Geneva agreements of 1954.

Initial distribution of the book is being made to the Army in the field, say officials. When ordering it from the Army's AG publication center in Baltimore, Md., Publication account holders need to identify it as CMH Pub 91-1-1.

Copies will also be made available for sale to the public through the U.S. government printing office in Washington, D.C. Hard-back copies (GPO S/N 008-020-00967-9) will sell for \$18.00 with paper-back copies (GPO S/N 020-00933-4) selling for \$11.00. (Arnews)

## \$20,000 possible for 'hotline' reports

WASHINGTON—Under a new public law authorizing "awards for cost-saving disclosures," the Defense Department's inspector general has established an employee cash-award program for reporting of fraud, waste, and mismanagement.

For the reportee to qualify, the inspector general must be made aware of the problem. The IG can recommend a cash award of up to \$20,000 if he determines that "significant cost savings to the department" resulted from the disclosure. Awards exceeding \$10,000 must be submitted for presidential consideration.

Defense officials point out that the new program, endorsed by the Secretary of Defense, does not replace existing DoD awards programs. It supplements the current ones by providing a special means for recognizing and rewarding those employees who make

cost-saving disclosures that will better the operations of the Defense Department.

Disclosures can be made by contacting the Defense Hotline, telephone toll-free 1-800-424-9098, Autovon 223-5080, or commercial (202) 693-5080, or write: Defense Hotline, The Pentagon, Washington, D.C. 20301.

The law authorizing the cash award program presently limits payments only to civilian personnel. However, IG officials say that every effort is being made to include military personnel in the program as well.

Defense officials state that personnel are encouraged to pursue allegations through the chain of command before contacting the inspector general. (Arnews)

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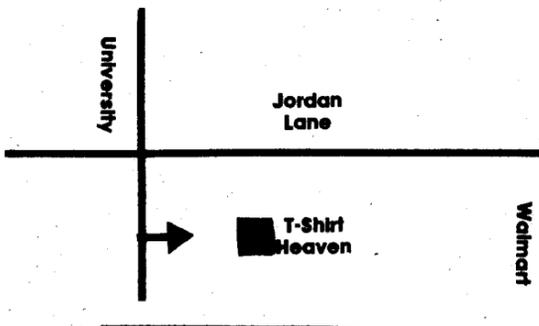
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# 'Patient first' is hospital commander's philosophy

BY SKIP VAUGHN

A wall in the office of the new hospital commander here shows that Col. Edward Johnson is an avid John Wayne fan.

There are four framed artist's renderings of the late Western film star along with a bust and small statue. Perhaps Johnson takes the reins of Fox Army Community Hospital with the same determination that his hero displayed in cowboy movies.

"Patient comes first. That's our first consideration, that we give the best care we can within the limitations of our budget and our personnel," says Johnson. "That's been my philosophy ever since I started medicine."

He wants to continue what his predecessor, Col. Graham Beard, did "such a good job of."

"Goal really is to make the hospital at Redstone responsible to the community and want to do it with assurances that we give the best care within our capabilities," says Johnson.

He is a tall bespectacled man who looks the part of a family practitioner. Johnson decided to become a doctor because of surgery he had when he was a small child and because he had a good friend who was an old family practitioner.

The 57-year-old Oregon native came to Redstone from Fort McClellan, Ala. where he was hospital commander for about six and a half years. He was there for eight years. From 1976-77 Johnson was chief of professional services and chief of obstetrics and gynecology.

"This is a newer facility. That hospital (at Fort McClellan) is a little larger, about twice the size of this, a little over. We have different types of patients in the

fact that we had a lot of basic training people that we served at Fort McClellan that we don't have here," he says. "Of course we had active duty, retirees and dependents who are relatively the same group (as here)."

Basic trainees have "a lot different medical problems. If you've ever been in basic training you know," says Johnson.

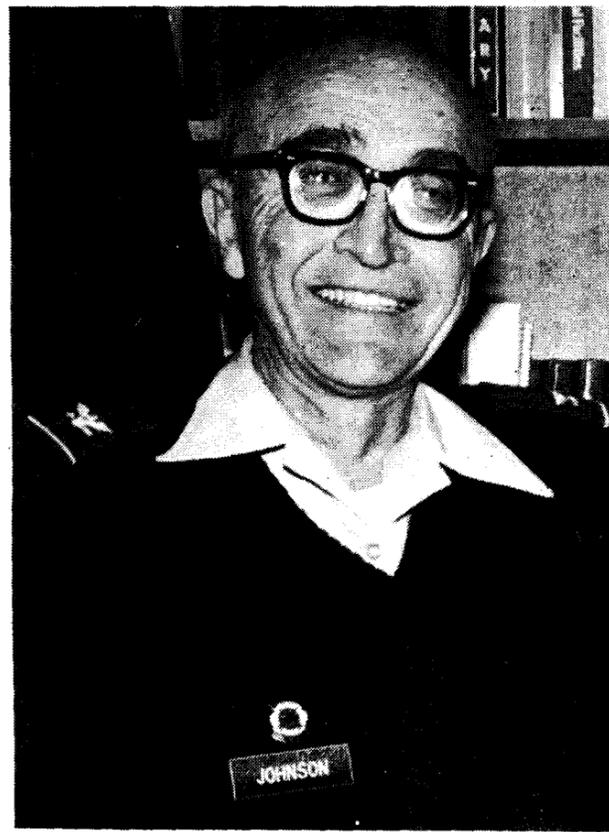
He was born in LaGrande, Ore., a small town of 12,000 people on the eastern part of the state. Johnson was graduated from LaGrande High School then had three years of pre-med at Gonzaga University in Spokane, Wash. He was drafted into the Army in 1945 and went to medical school a year later under the GI Bill.

Johnson attended the school of medicine at St. Louis (Mo.) University where he was awarded a medical degree in 1950. He had an internship at Tripler Army Hospital in Honolulu and residency training in obstetrics and gynecology at William Beaumont Army Hospital in El Paso. He was a civilian obstetrician and gynecologist in Terre Haute, Ind. from 1963-76.

Johnson and his wife Eileen have four daughters, all in their 20s.

"It's a beautiful facility," he says of Fox Hospital, "probably as nice a facility as there is in the whole United States Army for its size."

With the sincerity that Wayne showed so many times in the movies, Johnson says he is pleased to come to the 40-bed facility. "Don't think I could've come to a nicer facility. It seems to have a good staff that I'm going to look forward to working with," he adds.



HOSPITAL COMMANDER Col. Edward Johnson came here from Fort McClellan.

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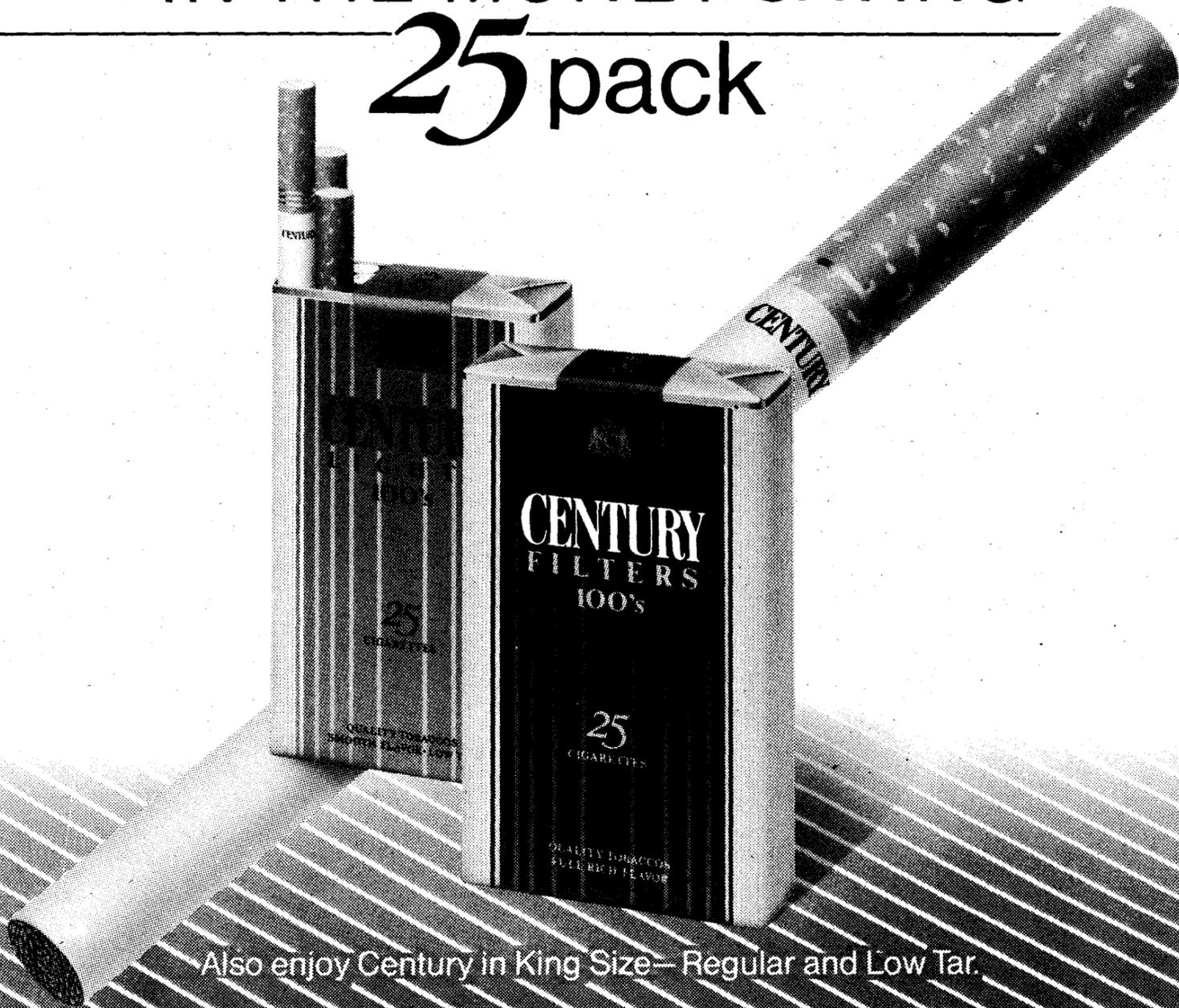
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# Jet vest inve

BY ED PETERS

The idea of a man moving through space with a jet pack on his back goes back a long time.

While perhaps the best known example is the cartoon character Buck Rogers who as early as the 1930s flew through the sky with rockets attached to his back, the principles involved have been a subject of serious thought by serious minds for many years.

The distinction of having invented the first jet vest or rocket belt device to give man personal flight capability belongs to an Army missile pioneer at Redstone Arsenal, Thomas M. Moore.

Moore formulated his jet vest concept about 1946 while working with the Von Braun group at White Sands Missile Range and first demonstrated the device at Redstone Arsenal about 1952.

Moore personally as well as several of his colleagues "flew" the jet vest while tethered by ropes in a laboratory here.

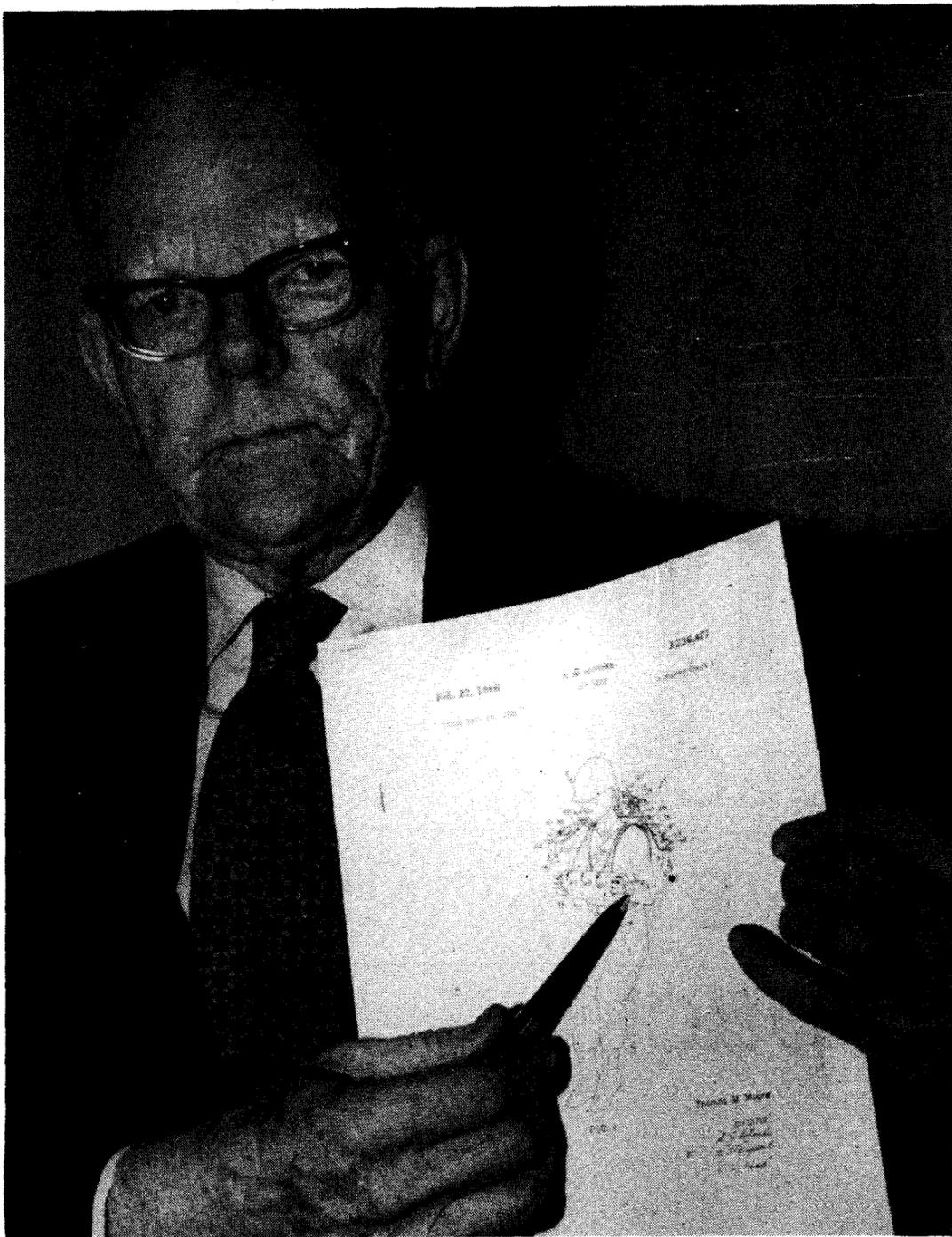
Moore, now 72, joined the Von Braun team at the close of World War II. He came to them as a radar expert who had been a part of the select group of scientists and engineers the government had assembled at the Radiation Laboratory at Massachusetts Institute of Technology during the war. He was for a number of years one of the top ranking U.S. civilians at Redstone Arsenal. He presently works at the TMDE support group.

A self-effacing and intensely private person, Moore is described by those who worked with him during the jet vest days as a gifted engineer ahead of his time who was unable to interest the Army in his dream of personal flight.

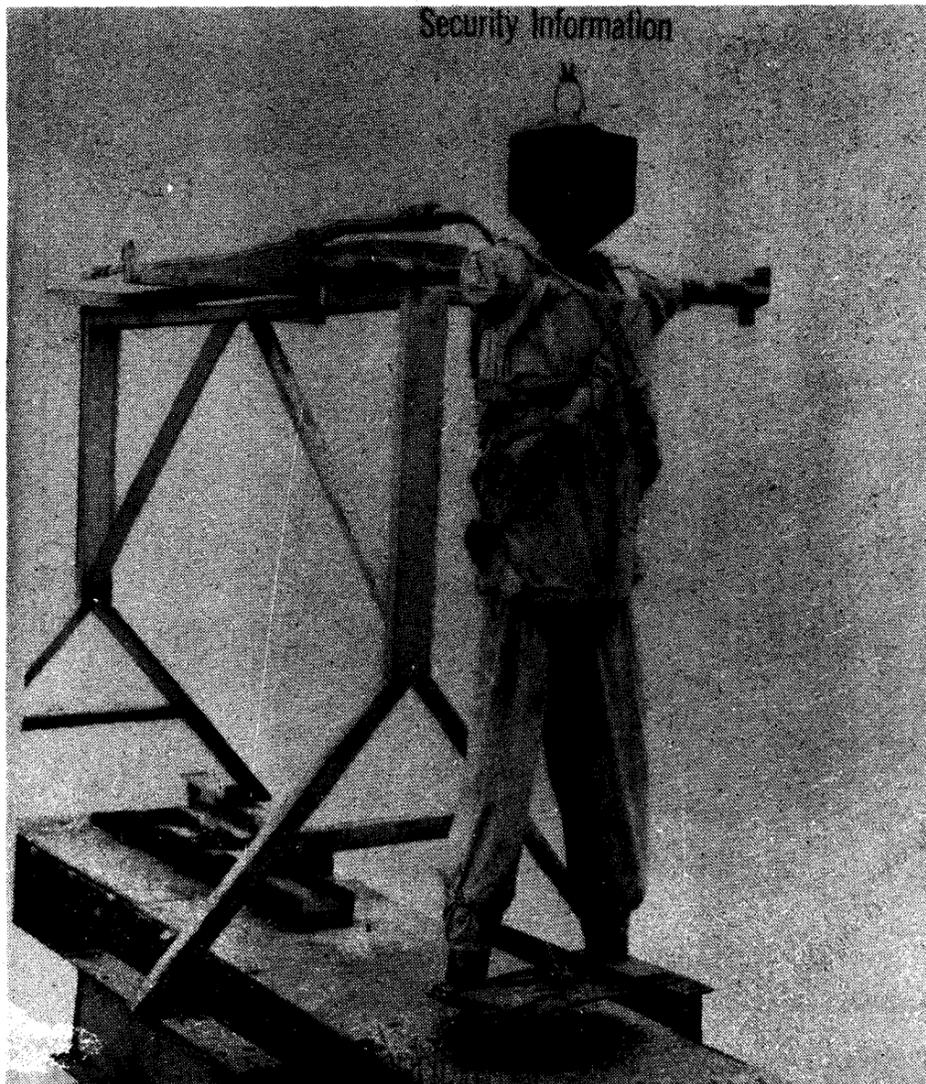
The jet vest to many was a "laughing project", Moore concedes today, and the Army made him stop working on it while it was still in its experimental stages.

The great German rocket scientists Moore worked with did not laugh at the project, however, and Werner Von Braun personally told him that the project was worthwhile at the time it was killed, Moore recalls.

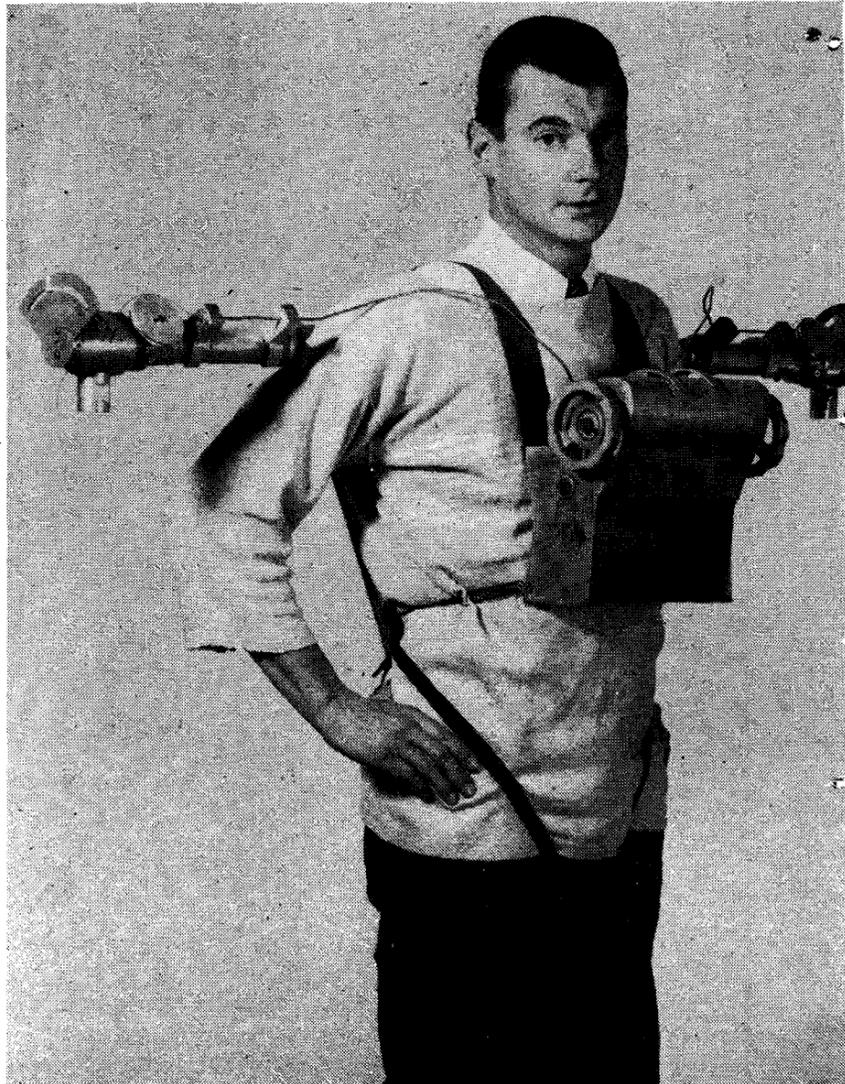
Even in the 1940s the Germans were looking to the day they would put man in space, although they were very careful who they made their vision known to because it was only at the risk of being considered a bit daft that one talked seriously of space travel in those days.



**THE INVENTOR**—Missile pioneer Thomas M. Moore shows the patent drawing of his jet vest. Moore dreamed of putting rockets on men while his colleagues on the Von Braun team envisioned putting men in rockets.



**JET VEST** connected to a high pressure air source was tested on a dummy about 1952. The stand holding the dummy permitted the vest to lift it several feet into the air.



**CHEST-MOUNTED** controls were a feature of Moore's jet vest. Shown wearing it is Da formerly of patents division here. Ward donned the vest for a record photograph for a proceeding in 1962. The whereabouts of the vest is unknown but Moore would like to see it the Space and Rocket Center.

# nted here years ago

While the rest of the Von Braun team occupied themselves with dreams of getting the man aloft, Moore's thoughts turned on giving him personal mobility once he got up there.

At the same time the young American engineer saw a wealth of military uses for his jet vest. He envisioned it turning foot soldiers into supermen able to rise above tall buildings and other terrain obstacles in a single flight. He saw it moving troops from ship to shore, ship to ship and providing a means of low-altitude bailout from aircraft. He saw divers using it to propel themselves underwater and also from the surface to a desired position ashore.

Moore's jet vest was attached to the user's body with a harness. At each side of the person's shoulders was a jet thrust nozzle. The wearer achieved stability and control through manual positioning of the two nozzles using hand controls that fit the user's chest.

The propulsion system consisted of back-mounted tanks for air and hydrogen peroxide.

In tests here about 1952 the jet vest was fitted to a dummy on a stand and it propelled the dummy upward into the air. Moore and others strapped on the device and flew briefly, although their movement was limited by safety ropes and a pipe from a compressed air source. Large bottles of compressed air or hydrogen peroxide were used for the tests instead of back-pack tanks.

Moore remembers the experience of being lifted by the jet vest as "a little bit hard to describe." The sensation was smooth, but noisy, he said, and "like treading water." Moore said the wearer could move hips and shoulders and "swing back and forth to see what kind of control you have."

"You have three axes to worry about," Moore explained, "roll, pitch and yaw. For example, if you lift your left leg it would shift your weight enough to throw you off. You have to be careful."

One of Moore's early colleagues, Werner Voss, recalls observing an experiment in which a person tried out the jet vest under restraints that permitted him to be lifted 15 to 20 feet in the air.

Voss, a Von Braun team member now retired, was an electrical engineer who measured functions like acceleration and nozzle pressure during the jet vest tests. He recalls the tests were conducted in an old chemical plant building in the present NASA area of the arsenal.

The jet vest at that time was considered a "far out" device, Voss remembers with a laugh, and for that reason the Army refused to fund it beyond the original experiment," he added.

Asked if the experimental jet vest could have been developed into a workable personal flight device, Voss replied without hesitation, "Sure definitely. Yes, I would have to say so but at that time it was so far out..."

Despite the apparent success of Moore's jet vest experiments, he could never gain official support for continuing his work.

At that time the concept of putting a rocket on a man "wasn't something you'd go up to the Pentagon and talk about," Moore said.

While the Army stopped Moore from pursuing his project, almost a decade later it became interested in experimenting with a jet vest-type battlefield mobility device for soldiers.

The Army invited contractors ("but they didn't invite us," Moore notes wryly) to make proposals on such a device and eventually the Bell aerospace firm built one similar to Moore's in many respects and patented it.

Moore had never bothered to patent his work but his early associates and legal experts here say there is no question that the first jet vest was Moore's. Old members of the Von Braun team recall his having discussed it back in the '40s. It is shown in an Army drawing from 1950 and was actually tested a year or two later. "It was fully demonstrated that it would work in a tethered operation," said John Garvin, attorney in charge of the patent division here. He and patent advisors Harold Hilton and Jack Voigt who worked with Moore when he did apply for a patent regard the jet vest as a significant invention for Redstone Arsenal. "It was a very unique form of transportation he developed that had never been done before," observed Voigt.

"And Tom got the germ of the idea eight to 10 years before anyone else did," Garvin added.

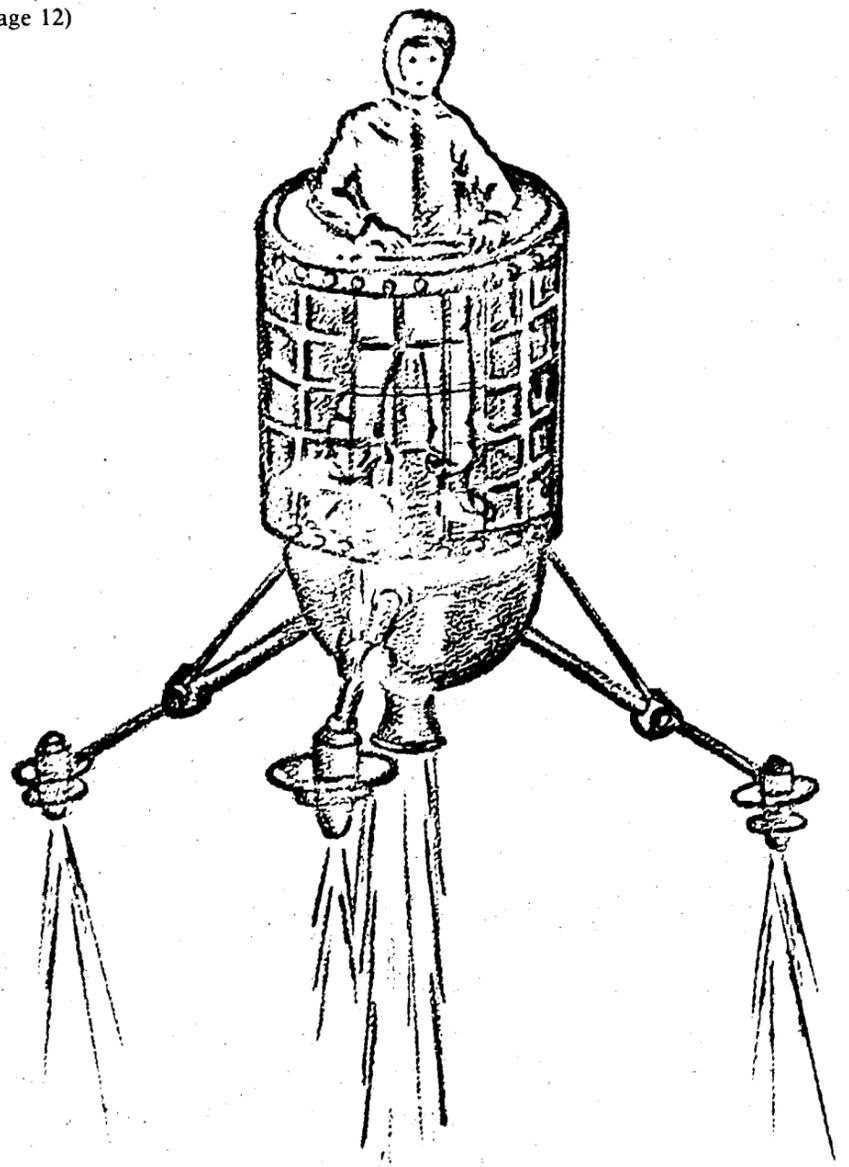
Interestingly, more than 30 years after Moore first introduced the jet vest principle, the Army last summer at Fort Benning ran tests on a jet-powered "individual lift device" that is being evaluated for possible use in reconnaissance and related operations.

Moore has two patents on the jet vest, issued in 1964 (see Jet vest cont'd on page 12)



vid Ward, atent proffered to

**LOOK-ALIKES**—Individual lift device tested by the Army last summer looks somewhat like a flying machine Moore conceived around 1960. Moore proposed the machine as a craft that could be used to rescue personnel from atop launch towers at Cape



Canaveral, in the event of emergency such as fire. The craft never got beyond the drawing board stage.

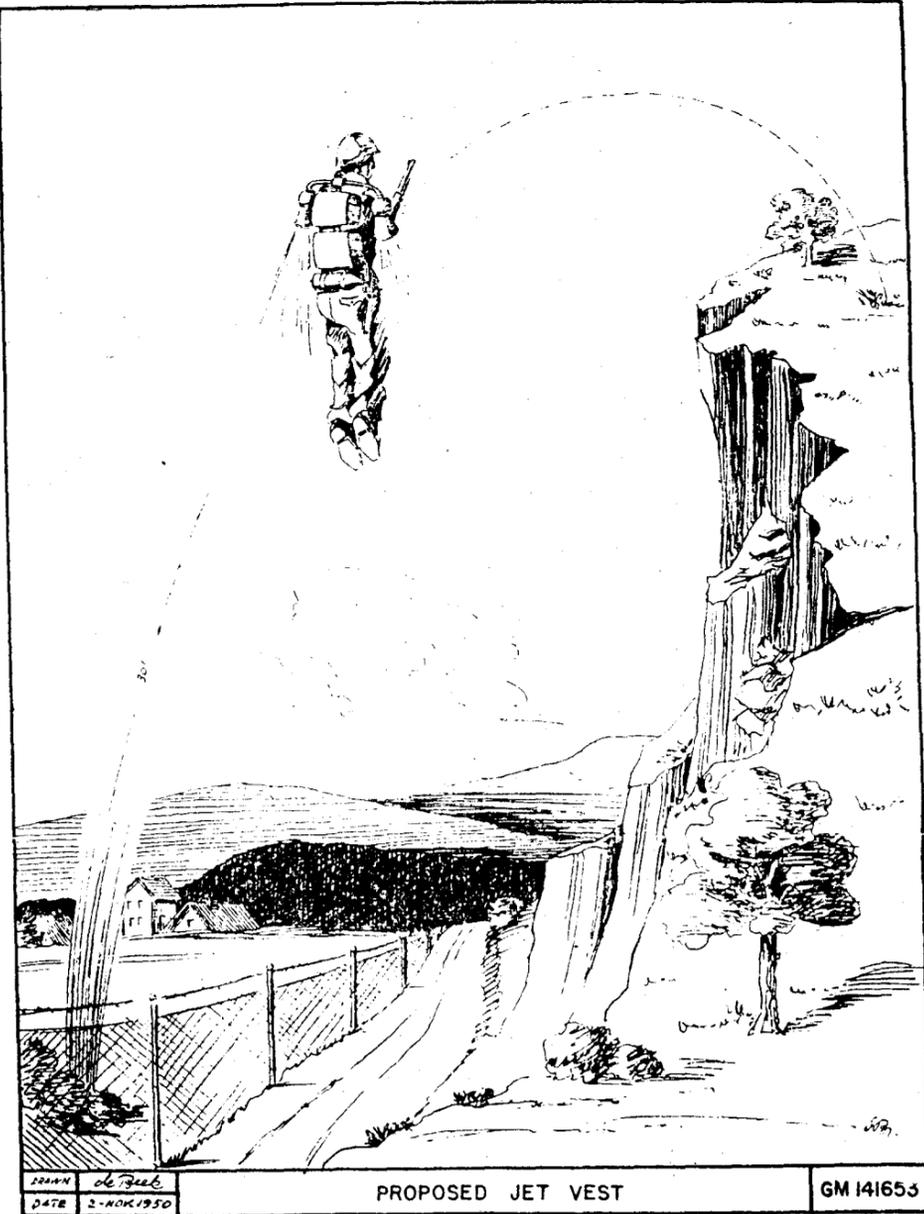
# Jet vest

(cont'd from page 11)

and 1966. He holds the former patent with the late Herman F. Beduerftig who assisted him. He holds a third patent on an individual flying device that utilizes an airfoil.

Only one model of Moore's jet vest was ever built and it has been lost. Gone too is a film of it in operation that was turned in for destruction two years ago along with other films of the period, arsenal records show.

Moore says he does not want the historic jet vest but suggested that it might be useful to the collection of the Space and Rocket Center if it still exists.



DRAWING 33 years old shows how a soldier might employ Moore's jet vest.

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# DePaul picked to fall at UCLA

BY SKIP VAUGHN

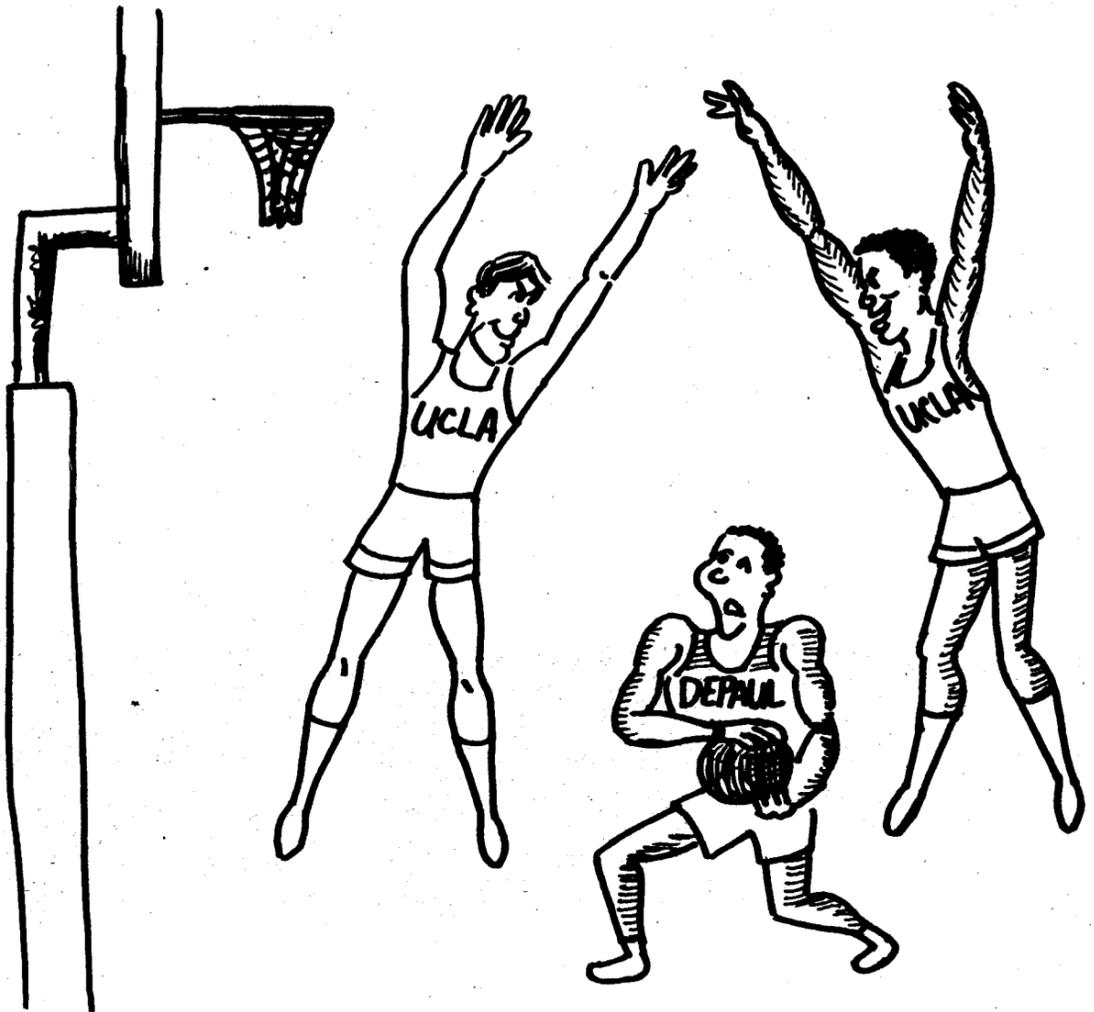
DePaul takes its sparkling record on the road to UCLA this weekend in college basketball.

The Blue Demons were still undefeated as of early this week while UCLA was coming off a loss at Louisville. Longtime Coach Ray Meyer's team from Chicago is loaded with talent but UCLA has tradition and the home court.

In other big games, top-ranked North Carolina hosts Louisiana State and Oklahoma visits Memphis State.

Last week's picks resulted in a 17-8 record, bringing the season totals to 57-28. Here are Skip's Picks for this week in major college hoop action:

- Clemson at Georgia Tech (Jan. 25)—Tech
- North Carolina State at Duke (Jan. 25)—Duke
- Florida State at Louisville (Jan. 25)—Louisville
- Michigan at Purdue (Jan. 26)—Purdue
- Washington at Stanford (Jan. 26)—Washington
- Southern Cal at UCLA (Jan. 26)—UCLA
- Louisiana State at Auburn (Jan. 27)—Auburn
- Villanova at Connecticut (Jan. 27)—Villanova
- Mississippi State at Bama (Jan. 28)—Bama
- Georgia at Kentucky (Jan. 28)—Ky.
- Tennessee at Vanderbilt (Jan. 28)—Vandy
- DePaul at UCLA (Jan. 28)—UCLA
- Oklahoma at Memphis State (Jan. 28)—Memphis
- St. John's at Syracuse (Jan. 28)—St. John's
- Virginia at Wake Forest (Jan. 28)—Virg.
- Georgetown at Pitt (Jan. 28)—Georgetown
- Army at Holy Cross (Jan. 28)—Holy Cross
- Iowa at Indiana (Jan. 28)—Indiana
- Maryland at Notre Dame (Jan. 28)—Md.
- Arizona State at Oregon (Jan. 28)—Ore.
- Houston at Baylor (Jan. 28)—Houston
- Seton Hall at Boston College (Jan. 28)—BC
- Cincinnati at Virginia Tech (Jan. 28)—VPI
- Duke at Clemson (Jan. 28)—Clemson
- Louisiana State at North Carolina (Jan. 29)—NC
- Ole Miss at Florida (Jan. 29)—Fla.
- Arkansas at Villanova (Jan. 29)—Ark.
- Missouri at NC State—NC State



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**Epps sets record**

# F&A in driver's seat with four games remaining

F&A is in the driver's seat in the CWF basketball league with four games remaining.

The Hornets extended their unbeaten string to six last week with a 63-50 victory over Comptroller behind the balanced scoring of James Mooney with 23 points, and Keith Frost and Don Battle with 12 each.

Comptroller was led by Larry Gopher with 20 and James Lanier 16.

P&P #2 took sole possession of second with the help of a new record performance from Willie Epps, the CWF's leading scorer. Epps, the 6-4 bomber whose old record was 44, tossed in 50 to spark P&P #2 to a 98-73 win over Security. He had help from Calvin Boone with 16 and Ted Gunn 13.

For Security, James Nesmith had 19, Leon Williams 18, and Joe Easton 17.

In other games, Missile Systems stopped T&E 77-66; Comptroller downed Corps of Engineers 76-62; Green Machine defeated Missile Labs 63-45; and P&P #2 rolled over Structures 91-42.

Tops for Missile Systems was Autro Whitman with 18, Larry Cable 16 and Leonard Luqman 15. Ray Maples had 24 for T&E.

Comptroller was sparked by James Lanier with 25 and James Couch with 16 while Weldon Ragland countered with 16 for COE.

Buphus Nall hit 25 to grab honors for Green Machine with help from Dave Smith with 14. Chester Damaracki and Jim Danford had 12 each for Missile Labs.

Scoring was balanced for P&P #2 with Epps rolling for 27, Terry Whitman 22, Bobby Ford 20 and Terry Boone 14. Aubrey Askew had 17 for Structures.

Team	Record
1. F&A	6-0
2. P&P #2	6-1
3. Comptroller	6-2
4. Green Machine	5-2
5. Missile Systems	5-3
6. Security	4-3

7. COE	4-4
8. Structures	2-4
9. T&E	2-5
10. Missile Labs	1-4

Top 10 Scorers		
Name	Team	Avg.
1. Willie Epps	P&P #2	42
2. Terry Whitman	P&P #2	18
3. George Snyder	Structures	17.7
4. Larry Gopher	Comptroller	17.3
5. Steve Lide	COE	17.1
6. Leon Williams	Security	17
7. Dave Smith	Green Machine	16.8
8. James Battle	F&A	16.6
9. Buphus Nall	Green Machine	16.1
10. Larry Cable	Missile Systems	15.8
11. Autro Whitman	Missile Systems	15.6
12. Weldon Ragland	COE	15.1
13. Calvin Boone	P&P #2	15

**Larry's Sale Ends Feb. 10th**

**Special Sale**

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Rossi 38 Snub Reg. \$139.00  
**Sale \$94.95**

Stn M681 "L" Frame (357 Mag) Stainless \$276.00  
**Sale \$188.00**

Stn M586 "L" Frame (4" Blue) 357 Magnum Reg. \$303.50  
**Sale \$209.99**

RG (M 23) 22 Snub Reg. \$64.50  
**Sale \$44.00**

Davis 22 Derringer Reg. \$59.00  
**Sale \$39.95**

Raven 25 Auto Reg. \$59.00  
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Stn Mod 469 (12 Shot) Mini Auto Reg. \$408.00  
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- Type or legibly print a brief description of what you want to sell on an 8 1/2 x 11 inch piece of paper (no 3 by 5 cards or torn paper accepted). You must list a price, your home phone number, your home address and your duty status (active or civil service).

- Sign the ad.

- Deadline is 9 a.m. on the Thursday before the ad will appear. Ads will run for only one week. You may resubmit them.

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Conditional statements as "like new," "excellent condition," "runs well," will not be printed.

If you submit more than one classified at a time, place each one on a separate piece of paper, unless they fall in the same sales category, (miscellaneous, vehicles, etc.).

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

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

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

**No FREE Classifieds ads taken over the telephone**

# Food management team evaluates military dining here

BY SKIP VAUGHN

A food management team visits each Army dining facility to assist its food service operation for soldiers.

Last week one of the five teams under Troop Support Agency stopped at Redstone to evaluate the military dining facilities here. It reports its findings and recommendations only to responsible officials at each post it visits.

"In our evaluations, we may find deficiencies and shortcomings and we relate those deficiencies and shortcomings to the facility that's being evaluated directly," said Maj. James Allen, chief of the food management assistance team from Fort Lee, Va. "By doing that, we gain the confidence of the people that we're working with."

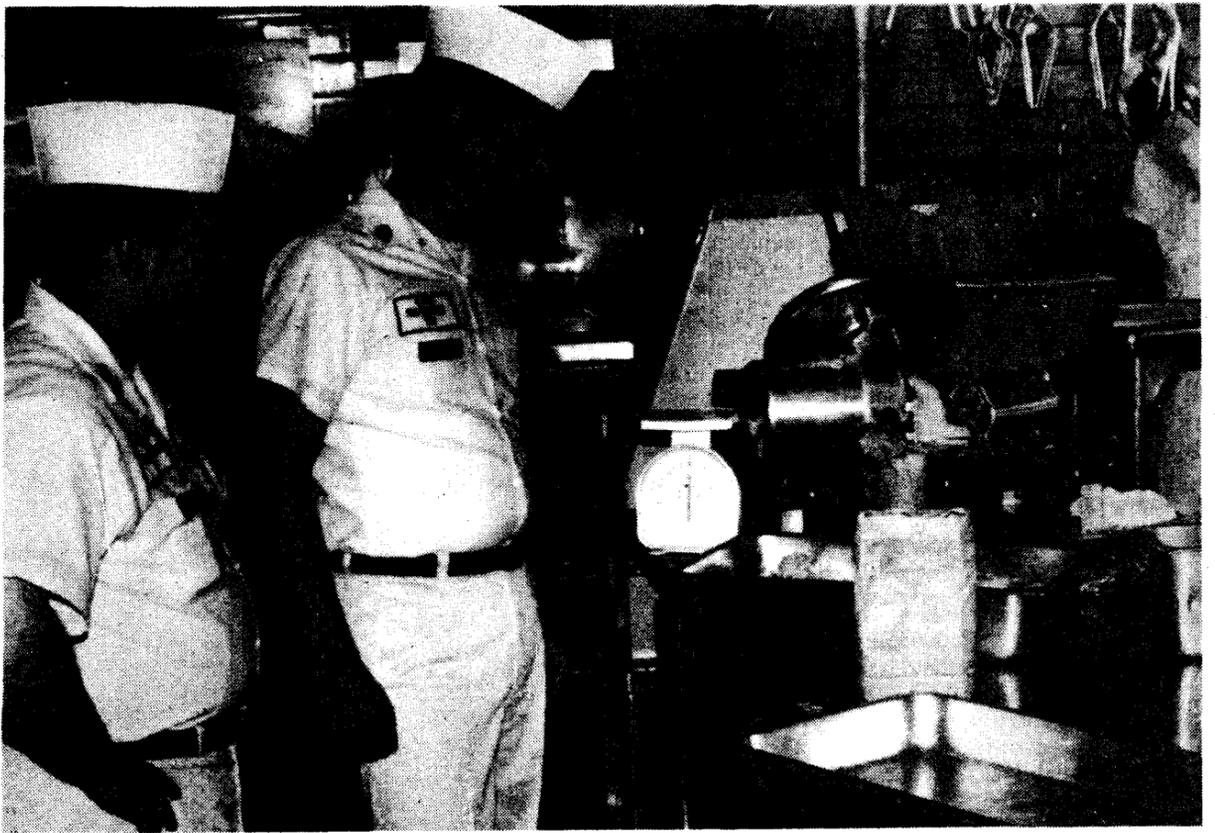
The five-member team looked at accountability, sanitation, food preparation, and administration.

Accountability means "how well the subsistence is being accounted for in the facility," Allen explained. Evaluating sanitation means checking for cleanliness.

In food preparation the team looks to see if Armywide recipe cards are being followed. "If we find that the recipe cards are not being followed, more than likely a nonstandard product will be the result so we recommend that recipe cards be followed precisely," said Allen.

Looking at administration means seeing how well actions taken in the dining facility are documented, he explained. An example would be the cook's worksheet.

"We are not an inspection team. We are an assistance team," Allen said. "Now in carrying out



FOOD PREPARATION is observed by Sgt. Maj. Philip Edney and MSgt. Donald Huntley at dining facility in building 3438.



DISCUSSION of food service evaluation is led by Maj. James Allen, chief of the food management assistance team.

our mission we routinely evaluate dining facility records and related records as necessary. The purpose of this evaluation is to give us a feel for where the dining facilities actually stand. And then based on how they stand, we then provide assistance to raise the quality of the program as we see fit."

A team normally visits an Army dining facility about every 18 months. The goal is to ensure the best possible support for soldiers with an economical and efficient food service operation, officials say.

Besides scheduled visits, like the one here, teams go on requested visits and to help facilities make transitions. A transition assistance team would help dining facility personnel when they have new equipment, for example.

"We're subject to go anywhere in the world that we have Army dining facilities operating," Allen said. "My most recent visit was MDW area (military district

Washington, D.C.) and prior to that I was in Korea."

Teams are structured according to the mission. The one that traveled to Korea had twice as many people as the team that came here and it stayed there all of October. After Redstone, the group is to be joined by a sergeant for a trip to Fort Eustis, Va. in February.

Other groups are traveling elsewhere. "We have a team now in Panama," Allen said. "Then we have a team in Fort Rucker."

The food management assistance team that visited here included Allen, chief; Ernie Sexton, food service analyst; Paul Goldman, equipment repair parts specialist; Sgt. Maj. Philip Edney; and MSgt. Donald Huntley.

"I appreciate the courtesies and support that's been provided to the team members while we were here at Redstone," Allen said. "Everyone's just been super."

## Support the March of Dimes

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This space contributed by the publisher.

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# Voting assistance program helps military voters

BY SKIP VAUGHN

Voting assistance officers are assigned to help soldiers and their families exercise their right to vote. Many times this means providing applications for absentee ballots. The Federal Voting Assistance Act of 1955 gives military personnel the right to vote in absentee status.

At Redstone Capt. Melvin Doolan is voting assistance officer for Special Troops while 1st Lt. Sandra Lambert is voting assistance officer for School Brigade. Each unit has or will assign someone in their unit as the first point of contact.

"The purpose of the (voting assistance) program itself is to ensure that all military personnel and their dependents are aware of their right to vote and to make them aware of the procedures they have to go through to do that," says Doolan.

Those who claim Alabama as their state of residence can simply register and vote in person. But those from out of state would have to use an absentee ballot. They would first obtain a federal post card application which is an absentee ballot request.

"They should go to their voting assistance counselor or officer at their unit and he should have these. And they simply fill the card out," says Doolan. "The information that they're wanting as far as residence is the residence that you consider your home of record in the state that you're requesting the absentee ballot from."

The form is filled out with the assistance of the voting counselor or officer because each state has its "own peculiarities as far as performance," he says. Some require that the forms be witnessed and notarized, some don't.

A municipal or county office that receives the form has to be able to read it in order to determine voting eligibility and address for mailing the ballot. "It's very critical that it be very neatly printed or typed and all the information filled out," says Doolan. No stamp is needed; applicants can simply drop their completed post card form into a mailbox.



ABSENTEE BALLOT request is shown by Capt. Melvin Doolan, voting assistance officer for Special Troops.

"Sometimes they can't get a ballot until it's close to the election date. Therefore there has always been a problem, especially if you're overseas, of getting the ballot late so you don't have enough time to complete it and mail it back," Doolan says. "If you're in the states and you got down to a week before the election and you still haven't gotten your ballot then I would start being concerned."

Doolan, the adjutant for Special Troops, will be voting absentee in San Antonio, Texas. He arrived at Redstone last May. By last week three or four people had come to him with questions about voting in the upcoming presidential election.

"There's a definite need for the program. And personally I think it's very important that the people have the assistance readily available to assist them in exercising their right to vote," Doolan says. "But the only way the program will be a success is if all the supervisors and the commanders ensure that their troops or their personnel know how to go about getting the assistance."

Lambert, assistant adjutant at School Brigade, has been the school's voting assistance officer since last November. She has application forms for absentee ballots and also the Voting Assistance Guide, a large booklet put out by the Department of Defense.

Different states have different rules so the guide tells

such things as when to request a ballot. Lambert says the voting assistance program is to help people vote in federal, state or local elections "depending upon state requirements."

"Each company will have a training assistance officer, probably their executive officer, and we plan to sometime soon have a meeting to let them know exactly what they need to do. And also to pass out booklets and just to make sure they have their (application) forms," she says. Her phone number at the school is 876-2002.

Lambert, here since December 1981, plans to vote absentee in New Jersey. She says it's important to vote "because too many people complain about the government and then don't vote to be sure the right people get in."

"I think a lot of things the government does affects the military person—decisions on foreign policy, pay and everything—and if you don't vote then you don't have a say at all hardly," she says.

At Special Troops, Doolan is available to help soldiers who have already contacted their company voting assistance officer. His number is 876-1826/3791. Company voting assistance officers include 1st Lt. Henry Byrnside of 291st MP Company and 1st Lt. Robert Krefting of HHC MICOM.



SCHOOL BRIGADE voting assistance officer is 1st Lt. Sandra Lambert.

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1980 Toyota pickup, 4 speed, 4 cyl. AM/FM stereo, \$3,700. 1980 Kawasaki 750 Ltd, hiway bars, case savers, \$1,400. Both in excellent condition. Call after 4:30 p.m. weekdays, anytime weekends, 837-7133.

1981 Buick Skylark Ltd. automatic, air, power steering, AM/FM radio, tilt steering, other features offered only on limited edition, 4 cylinder, burgandy inside and out, low mileage, 2-door, \$5,600, call 830-0627 after 5 p.m. or all day on weekends.

1973 Capri, 2 door, 4 cylinder, \$750.00 call 423-3866.

1977 American motors Pacer X. Orange with brown vinyl roof, white interior. Straight six, automatic, power steering, power brakes, air conditioning, AM/FM four speaker stereo. Recent valve job and new ball joints. Asking \$1850. Please call 536-3584 after 4:30 p.m.

Waterbed Ensemble "Super single" size \$100. Bar (Padded Black) with 2 stools, \$135. Call 881-9868.

Aquarium for sale. 20 gallon toll with wrought iron double stand, hood/light, outside power filter, air powered decorative devices, pump, heater, fish, and various assortment of accessories. \$125 or best offer. Call 830-0630.

1973 Mercury Montego, 4 door, PS, PB, A/C, V-8 automatic, AM/FM radio. Good mechanical condition, 76,000 miles. One owner. \$900 or best offer. Call 883-6825.

German Shepherd Pups, all shots and dewormed. Excellent blood lines. \$125 for males and \$100 for females. Call Gary or Bill after 5 539-6630.

Service Manual for 1974 Pinto. New \$10. 881-6362, 883-4778, or 895-3530.

Carpet, 12'x13' beige \$150. Carpet, 9'x12' blue tweed \$40. Curtain rods, assorted sizes. GE self-cleaning white stove \$275. 30 pint Sears dehumidifier \$75. Large cartop carrier-enclosed type \$35. Call if interested 882-0407.

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HUNTSVILLE

**When You Advertise in the Redstone Rocket, You're Talking to an \$8,500,000 Weekly Payroll!**

Individually, 20,000 Redstone Arsenal employees earn an average salary of \$435 a week. Collectively, each week these people swell the payroll to \$8,500,000.

Of the 20,000 Arsenal employees, 16,000 are civilians and the remainder, military. Thus, about 80% of Arsenal employees support families off the base and are consistently good buyers.

Rocket advertisers each week see the good results the paper's advertising columns produce for them.

That \$8,500,000 weekly payroll is plenty impressive but when you multiply that by 52... \$450,000,000 is Redstone's yearly payroll!

The Rocket would like to show you the path to that brimming bonanza!

**Redstone Rocket**

Over 35,000 people (Redstone Arsenal employees and their families) read the Redstone Rocket each week. This figure is based on the Association of American Advertising Agencies' acceptance of two and one-half readers per newspaper.

Circulation 15,000  
108 B South Side Square  
P.O. Box 5351 Huntsville, Alabama 35805  
539-3980  
Richard Kolb, Advertising Manager

# Supply store reopening; set up for convenience

The arsenal's self-service supply store will begin business Monday in a new location under a more convenient arrangement for customers.

The store is relocating from building 7427 to building 8022. At the new location merchandise will be displayed better and customers will find under one roof office supply items that previously were dispensed from several different buildings.

Store manager Betty Trimble said improvements will include grocery store-type shelves for displaying merchandise in place of "tall gray bins that you couldn't see anything in" used at the old store.

The display area has a newly painted floor and with the new shelving "has a lot better appearance than the old store," Trimble said.

The self-service store's inventory will be bolstered by "150 to 200 line items," according to Trimble. Customers formerly had to go to other buildings for these items which include boxes, bond paper, Xerox paper and envelopes. "We'll offer the customer more line items in one location so they won't have to go to so many different buildings for supplies," she explained.

The new store is in a warehouse building north of

the intersection of Buxton and Shields Roads. Store hours effective Jan. 30 will be 8:30-11:30 a.m. and from 12:30-2:30 p.m. Monday through Thursday. The store is closed every Friday for restocking.

Assisting Trimble at the new store will be Austin Watson, Dan Conley and Sam Counts. Their phone numbers, 876-4011/3970, are the same as at the old store.

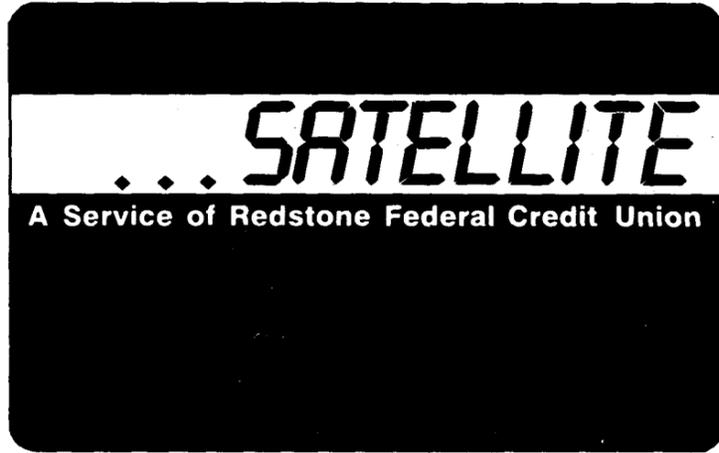
Trimble said she and the store staff are looking forward to the move. "We feel like we will be able to offer the customer better service when we get down there and after all, that's what we're here for," she concluded.

## REDSTONE FEDERAL CREDIT UNION

### Announces the Arrival of

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The 24 Hour, 7 Days a Week  
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Use Your SATELLITE CARD

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## Just A Shuttle Away!



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# —ANNOUNCEMENTS

## Closings

The following Exchange Service activities will close today for inventory: The main exchange, shoppette, troop store, military clothing store, and the service station retail store. The pump island will be open. The garden shop in the main exchange will be closed through today and all concessions in the mall area will be open during normal hours.

## Warrant officers

The next monthly meeting of the Redstone Arsenal Chapter of the U.S. Army Warrant Officer Association will be Feb. 1 at 11 a.m. at the officer's club. You need not be a member to attend the luncheon and meeting. For more information call CWO Banville at 876-1461 or 876-1591.

## Ballet performance

The Royal Winnipeg Ballet will perform Saturday, Jan. 28 at 8:15 p.m. in the concert hall of the Von Braun Civic Center. The Canadian dance company will present a variety of classical and modern ballet dance pieces. Tickets are available at the civic center ticket office for \$6 to \$8 depending on location of seating. The performance is sponsored by Huntsville's Community Ballet Association during its 20th Anniversary season. For more information call the association at 539-0961 after 3 p.m.

## Calhoun college

Calhoun class schedules are now available at the Education Center, building 3222. On-post registration is Feb. 7 from 2:30-4:30 p.m. at the recreation center. Cost for military using tuition assistance is \$18.75 for one course or \$7.50 for enlisted E-5 or higher with less than 14 years service.

## Recreation center

Today—Shuffleboard tourney at 7 p.m. Thursday—Bingo at 8:30 p.m. Friday—Chess tourney at 7 p.m. Saturday—Coffee and donuts at 2:30 p.m. Sunday—Jam Session at 2 p.m. Monday—Video game tourney at 7 p.m. Tuesday—Pool tourney at 7 p.m.

## Accounting fundamentals course

Managers with less than two years' experience may be interested in an accounting fundamentals course now offered by the Learning Resource Center. The 12 hour course is part of the financial management curriculum and is designed to introduce basic accounting terminology and documentation. For more information call 876-1061/1416.

## Overeaters Anonymous

The Overeaters Anonymous support group for compulsive overeaters meets at different times and locations throughout the week in the Huntsville area. There is a newcomers' meeting on Mondays from 1-2 p.m. at 4008 University Dr. For more information call 532-7013.

## Dining special

The dining special advertised in the officers club calendar as "Salute to Retirees Night" is available to the entire membership on a first-come basis. Each club member is limited to one guest for that special. For reservations call at 830-2582.

## Boating safety course

The U.S. Coast Guard Auxiliary Flotilla 2401 is offering a nine-week course in Boating Skills and Seamanship at Jones Valley School beginning Feb. 28, from 6:30 to 8:30 p.m. The course, designated for boaters of all ages, teaches basic safe boating skills as well as legal requirements, navigation, chart reading, knots and lines, engine maintenance, locks and dams, weather and weather warnings, trailering boats and how to conduct marine radio communications. Instruction is free, textbooks are \$10. For further information, call Mary LaRue, 883-6456 or Warren McAdams, 881-3091 or Hal Cronkhite, 883-0143.

## Art auction

The 12th Annual Officers Wives Club Art Auction will be held March 3 at the officers club. A preview featuring wine, cheese, hors d'oeuvres and a cash bar will begin at 3 p.m. Saturday and the auction at 7:30 p.m. A stand-up auction will be held Sunday, March 4 from 10 a.m.—2 p.m. Coffee, tea, and juices will be served. All proceeds from the auction will be used as welfare contributions to fund organizations on the arsenal and the Huntsville community. Tickets are on sale for \$2.50 at the officers club or by calling 837-8 494 or 830-5552.

## Carpool Hotline



Call 876-1500 to place your free carpool ad

### Union Chapel

Ride wanted from Union Chapel, Arab, or Morgan City to building 5681, hours flexible. Jim Weaver 876-5312 or 1336.

### Athens/Ardmore

Carpool wanted from Coffee Pot community between Athens and Ardmore to building 7440, hours 7:30-4. Joe Rutherford 876-4589.

### Fayetteville

Carpool members wanted from Fayetteville to 5250 vicinity, hours 7:30-4. Darlene O'Neal 876-3367.

### Athens

Carpool members wanted from Athens to MMCS area, hours 7-3:30. Lou Helms 876-3146.

## Merit Award Scholarships

Applications for the Officers Wives Club Merit Award Scholarships are still available. Applicants must be dependent children of active, retired, or deceased commissioned or warrant officers, whose mothers have been members of the Redstone Arsenal Officers Wives Club since the October general membership meeting, or who jointed within 30 days of arrival at Redstone. Applications must have been accepted by an accredited two or four year college before the awards are presented in May. The deadline for completed applications is March 25. Forms are available through Sandra Chen, 46 Ripley Dr., Redstone Arsenal, AL 35808 or call 830-5592.

# AUCTION

Cole's Auctioneers go Anywhere and Sell Anything  
SAT., FEB. 4 — 10:30 A.M.  
WOODVILLE, AL

## 4515 SQ. FT. BRICK HOME WITH FULL BASEMENT — POOL

Directions from Paint Rock: Go east approx. 3 1/2 miles on Highway 72 — turn left on Highway 35 — go .4 mile, turn left — house on right. See auction signs.

This is a beautiful brick home, 3 bedrooms, 3 1/2 baths, living room with fireplace, dining room, den, all built-in kitchen with food processing center, central air and heat, large room presently used as an office, all carpets and drapes, 2-car garage, large patio. Downstairs there is a large rec room with bar and large work shop. 16 1/2' x 36' underground swimming pool, approx. 5 yrs. old, large A-frame playhouse. Situated on a beautiful 2.67 acre wooded lot. \$4,000 alarm system. Building lot across the street.

Terms: 20% down sale day — balance due 30 days. Pre-inspection invited. Open house Sunday, Jan. 29 — 2:00-4:00 P.M.

## SALE #2 WOODVILLE, AL 12:30 P.M.

### D J'S GAS, OIL AND QUICK-STOP STATION ALL FURNITURE, FIXTURES AND EQUIPMENT

Located on Highway #72 — 11 miles west of Scottsboro

This is a modern up-to-date gas and oil and quick-stop station, with 4 Wayne fuel pumps, 5000 gal. underground tank, 4000 gal. underground tank, 3000 gal. underground tank, 2000 gal. underground tank, car lift, 220 air compressor, all furniture, fixtures and equipment now located in the building.

Terms: Real estate 20% down sale day — balance due 30 days. Equipment cash day of sale — pre-inspection invited.

Auctioneers: Arthur L. Cole #SL617 - Frank E. Strawn #SL226

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**\$149<sup>47</sup> PER MONTH**

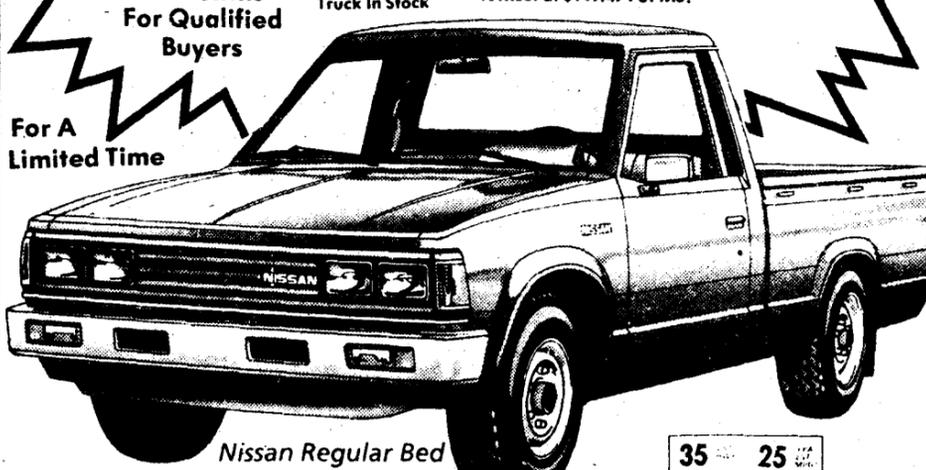
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List Price.....	\$6664.00
Tax .....	200.67
Title & Doc. Fee.....	29.50
Down Payment.....	6894.17
Amount Financed.....	999.60
Finance Charge APR 9.9%.....	5894.57
Total of Payments.....	1279.99
48 Mos. at \$149.47 Per Mo.	7174.56



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