

The Redstone Rocket

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The Old Team remembered . . .

See pages 8-15

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Opinion

Where your CFC donation goes

In spite of its having been around for years, many people still don't know what the Combined Federal Campaign is.

First of all, the CFC is not just another name for the United Way. The CFC includes the National Health Agencies, the National Service Agencies, and the International Service Agencies as well as the United Way.

Next, there's the matter of designating gifts. It isn't hard for some people at Redstone Arsenal to find one or more agencies of the CFC which he doesn't like. Many use that as an excuse not to give to the CFC.

To avoid giving to those agencies you don't support, designate your gift. You can

designate to as many as five different charities.

"But," say some people, "it doesn't matter if I designate. No one pays any attention to it. Or if they do, the CFC just takes away money my charity would have received from undesignated gifts."

That's not the way it happens. The distribution of designated gifts is handled completely separately from undesignated gifts. All money designated to an agency goes to that agency. Period. No exceptions. An audit is made each year to be sure all designated gifts go where they were intended.

The distribution of undesignated gifts has already been decided, with the exception of

the new National Service Agencies — the NAACP and the Medic Alert Foundation. The percentage of funds that will go to the United Way of Madison County has been determined, as has the percentage that will go to the National Health Agencies and the International Service Agencies. The agencies themselves decide on how to divide the gifts within each category.

Last, any money that goes to the national United Way office is used only to keep that office working, and to support the services they provide to the local United Ways. The national office doesn't make any donations to charities. Only those agencies that are a part of your local United Way receive your gifts.

— Bruce Wine

Letters

CFC chairman's response sets record straight

Editor:

I would like to respond to the letter from Fred D. Peace in the Oct. 1, 1980 issue of the *Redstone Rocket* to set the record straight on several points.

1. The United Way has no connection with the named agencies and does not help fund them in any way.

2. The International Service Agencies states that "Planned Parenthood — World Population (PP-WP) is one of 10 agencies who function is to give direct emergency relief and developmental assistance to underdeveloped countries overseas. PP-WP recognizes abortion as one alternative method of birth and population control. CFC funds received by PP-WP are channeled directly to governmental agencies in those underdeveloped countries. They are then utilized by those countries in their family-planning education assistance and population control programs."

3. The March of Dimes Birth Defects Foundation, an agency of the National Health Agencies, states that "Legal abortion is outside the Foundation's purview. We are incorporated for only one purpose, namely, to support medical scientific research and treatment leading to the prevention or amelioration of the serious consequences of birth defects."

The Combined Federal Campaign (CFC) provides the opportunity to each federal employee to make a donation if he or she chooses. There is no coercion or pressure to give. The employee also has complete freedom to choose where his gift will be distributed. Designated gifts go directly to the named guidelines established by the U.S. Office of Personnel Management as stated in the last paragraph of the campaign brochure.

The U.S. Office of Personnel Management has made a number of changes in the cam-

aign this year. If you have any questions I will be glad to answer them or get you an answer if I do not know. You may call me at 876-5054.

Ruth M. Morrison

Chairman, CFC Fund-Raising
Program Coordinating Committee

Note: The CFC Fund-Raising Program Coordinating Committee is the chartered

Federal Coordinating Group specified by the Manual on Fund-Raising within the Federal Service for Voluntary Health and Welfare Agencies. It is made up of representatives from 11 federal agencies in this geographic area, a union representative, and participating non-voting representatives from the United Way, International Service Agencies and National Health Agencies.

Will take sides from now on

Editor:

My qualifications for commenting on Mr. Peace's letter in the 1 Oct. 80 *Rocket* are limited. I am not a member of any pro- or anti-abortion group. . . just a citizen who tries to stay abreast of current issues.

I couldn't help noticing that Mr. Peace's letter began with a comparison which has nothing to do with legal abortions. He compares the brutal murder of a one week old baby with the abortion of a fully-developed fetus (capable of life outside the womb). An abortion performed after the first 20 weeks is illegal. Organizations such as Planned Parenthood do not advocate such practices. Nor do they, as Mr. Peace wrote, "promote" or "encourage" any abortion. They encourage knowledge and, after proper consultation with family, clergy and-or doctors, free choice. This includes contraception first and abortion as a last resort. I would imagine that, should Planned Parenthood opt to do so, they could

bring legal action against Mr. Peace for slander. . . and win.

As I understand it, the Catholic position is that birth control is taboo because of the belief that where a sperm and an egg exist, life exists. Most other religions consider this to be a little early and that life exists only after the egg has been fertilized. Carry that further and you are faced with the question of when a human life (a soul?) actually does begin to exist. That's not a question for any one group or person to answer for **everybody**. It is to be answered by the individual who is involved.

Incidentally, I have never given much thought to taking sides on this issue, but thanks to Mr. Peace's letter I will from now on. Personally, I think that abortion, if not acutely murder, is very close to it. But I have absolutely no right to force my religious or moral convictions on others. This is America, not Iran.

Victor L. Van Leeuwen

Opposing view on abortion

Editor:

After reading Fred Peace's anti-abortion letter in the Oct. 1 *Redstone Rocket* I feel it is my duty to write and give the opposing view.

With his wording he would have us believe that a medical abortion is performed by a maniacal doctor, frenziedly hacking away at an "unborn baby" (fetus, Fred, let's be realistic) mere weeks before birth. This is completely untrue. Abortions and not "baby-killing" can only legally be performed during the first few months of pregnancy and take place in hospitals or clinics, not butcher shops.

Before quickening and perhaps afterward, a fetus is a mass of dividing cells — no more, no less. Throughout the whole pregnancy the embryo is a parasite, living inside the host-mother, taking nutrients from her and com-

pletely dependent on her. If Mr. Peace had an unwanted growth inside him, I'm sure he would feel he had the right to have it removed, yet he would deny women that same right. And believe me, an unwanted pregnancy is analogous to, and synonymous with an unwanted growth.

Who should have the "right to life"? It is a sticky question I admit, however leave it up to the individual woman to decide. Don't try to legislate your brand of morality to impose your beliefs on others. If you're against abortion, don't have one: But don't try to tell me, or any other woman what to do with our bodies.

And remember this: if men could get pregnant, abortion would be a sacrament!

Lora L. Dührberg

THE REDSTONE ROCKET

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Army buys Patriot

By BOB HUBBARD

The Army Wednesday awarded approximately \$123.1 million to Raytheon Company on Oct. 1 for fiscal year 1980 production of Patriot, the Army's newest and most advanced air defense missile system.

The initial buy of the Huntsville-developed plane killer is five fire units and 155 missiles with the work to be performed at Raytheon's Andover, Mass., facility; Martin Marietta Aerospace's plant at Orlando, Fla.; and at Thiokol Company on Redstone Arsenal.

This brings the Patriot FY80 production contract to approximately \$228.4 million. The Army earlier this year awarded \$105 million for long lead time materials.

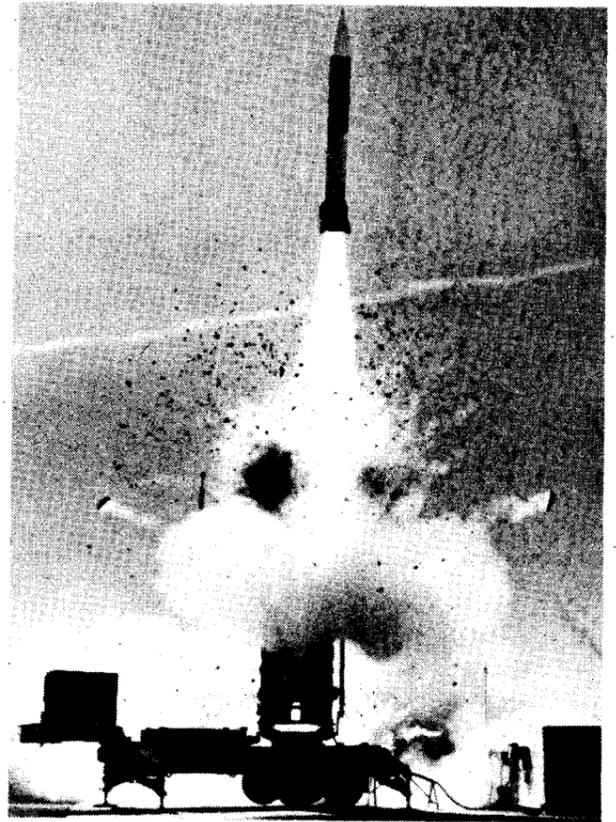
Defense Department approval for limited production of Patriot was announced in September. DOD said that full-scale production will depend on test results with the first production hardware and other tests planned during the next two years.

"This is what the Patriot team has worked for... to get Patriot through development and into production so we can get the system into the soldiers' hands as soon as possible," said Maj. Gen. Oliver D. Street III, Patriot Project Manager in Huntsville Research Park. "Patriot marks a new era in Army air defense."

The computer-assisted Patriot is so sophisticated and smart it can diagnose its own problems and tell how to solve them. Featuring a new guidance scheme, along with the digital computer, Patriot can simultaneously destroy a number of planes over a wide range of altitudes, maneuvers and countermeasures, and operate under all weather conditions.

The highly mobile Patriot will replace both the Nike Hercules and Hawk weapon systems.

Negotiating the contract for the Army was the Army Missile Command's Procurement and Production Directorate.



Patriot launched at White Sands

Patriot

Story titled, 'Twenty years at parade rest'

BY BOB HUBBARD

(Editor's note: Charles Cockrell, former deputy project manager often called the "Father of Patriot", once joked that the Patriot story could be titled: "Twenty Years at Parade Rest." No Army missile program has undergone more studies, reviews, requirements, evaluations and redirections. Cockrell also said before he retired recently that Patriot, because of the delays, will be better and stronger. This is the Patriot story.)

In the late 1950s, when the Army was looking intently at air defense systems to defend against planes and ballistic missiles, Redstone researches launched a study they called Plato.

Plato was doomed from the start, however, because it was massive, immobile, involved a huge antenna that took a long time to erect and therefore was not a system a moving field Army could tolerate.

That led to a follow-on study called Field Army Ballistic Missile Defense System (FABMDS), a mobile concept of ballistic missile defense.

At that point in 1960, Charles Cockrell was assigned to the program and six contractors conducted studies and submitted proposals in 1961 for FABMDS forerunner of today's Patriot.

"We formed a team of about 200, assembled in what is now the Hawk room of the Redstone Officer's Club, and spent the summer of 1961 evaluating the proposals," Cockrell said. "Two looked attractive. . . one by General Electric that was massive, and a smaller lightweight concept proposed by Raytheon."

While Cockrell headed the Redstone team, the Army, meanwhile, appointed Col. Bob Lutz to manage the program in Washington.

"We finally realized after a year or so that we were not going to sell the concept," Cockrell said. The only hope for weapon

(Continued on page 17)

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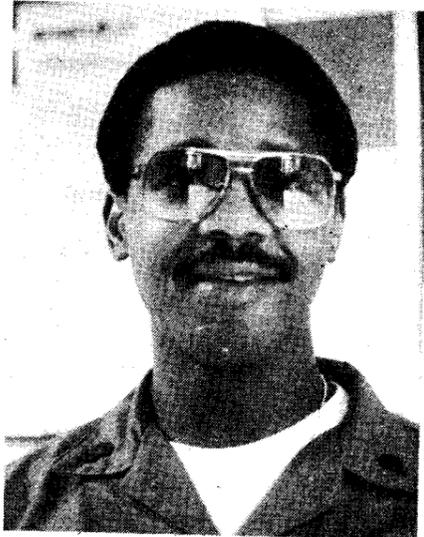
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What do you think of the absentee ballot voting system?

Sp4 Willard D. Cable, Co. A —
 "I've never voted on the absentee voting system before but it sounds like a pretty good system. I will use it probably this year, though, since it might depend on whether we go to war or not."



Sp4 Michele E. Smith, 515th Ord. Co. —
 "I think it's a wonderful thing. People should take advantage of it. It only happens in America. It does not happen all over the world. I think if more soldiers took advantage of the system, it would be a better government."



Pvt. 2 John L. Brooks, 7th S.C. —
 "There should be more information about the system so we can have a better understanding of it. I really don't know what it's all about."



Airman Basic Craig S. Barnard, AF DET —
 "I think it's pretty good because a lot of people are registered in their own state. When you come here, you don't know anything about the area so it's easier to send the ballot here and we send it back."



Maj. Donald W. Hard, Field Command, Defense Nuclear Agency —
 "I think that it is a good means for people to vote. It should be mandatory. Everyone should use it because by voting you exercise your right and privilege to determine the future of our country. Your vote does count. I consider it very, very important."



Airman Basic David D. Rivers, AF DET —
 "It's a good idea. For a serviceman, it's easier to do it that way instead of worrying about how you're going to get your vote in and we don't have the time for that."



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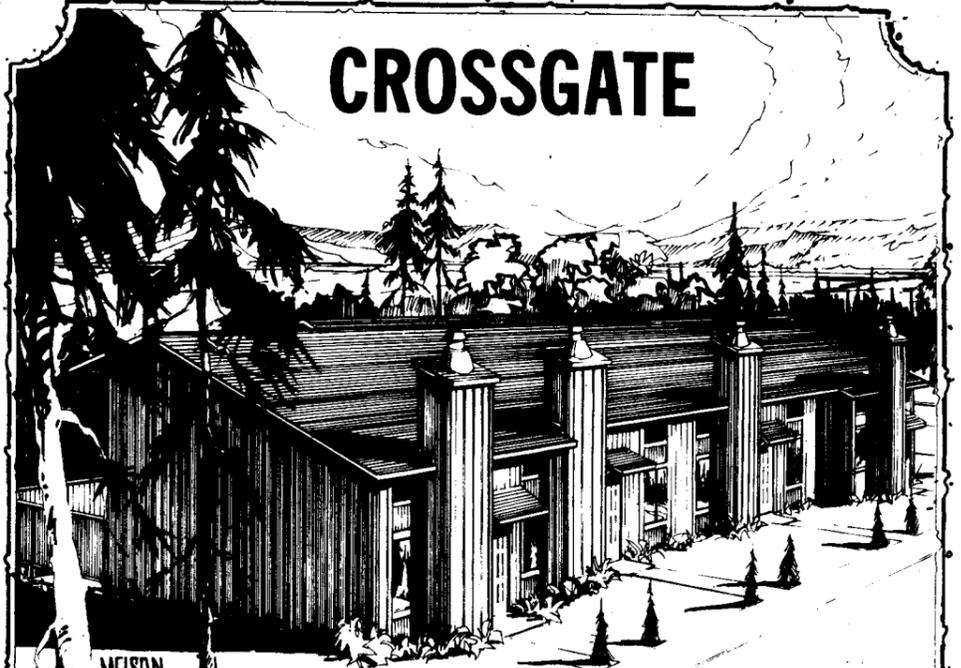
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Accreditation team visits MMCS

Twelve members of the Commission on Occupational Education Institutions of the Southern Association of Colleges and Schools began a five-day evaluation visit to MMCS Monday.

The group is gathering information to determine if their organization it will reaffirm the accreditation extended the school in 1975. Basically, accreditation is the commission's assurance that the MMCS training programs meet established standards for technical vocational schools.

A COEI team visits each of the schools it has granted accreditation every five years. Between visits, the status of the schools is monitored by a system of annual reports.

In preparation for this visit, MMCS has

completed a comprehensive self-study of its purposes, resources and programs. The results of that study form a 200 page report for the evaluators' use.

MMCS officials said the school's accredited status and that it is a positive indicator of the equality of the training provided here.

They see a double advantage in accreditation. First, it helps the soldiers trained here in gaining college credit. Second, accreditation helps to insure that MMCS training will be recognized under Department of Labor apprenticeship programs, officials said.

Although the final determination of the commission will not be available for some time, the visiting team will brief the school's commandant and administrators before they leave Friday.



Fire Prevention Week Oct. 5-11

MMCS worker awarded third degree

Ken McVey wasn't planning on getting another degree. He was graduated from Athens College in 1973 and was awarded a master's degree in education by Alabama A&M in 1976.

But, the acting chief of Field Artillery Branch in the MMCS Directorate of Training Developments said, "I've always been interested in vocational-technical ed. And MMCS is considered a vocational school"

So he signed up when the MMCS Staff and Faculty Development Office began offering Athens State College courses designed especially for MMCS instructors. And since the courses were directly related to his job in developing training materials, the Army provided tuition assistance.

That was in 1977. McVey was well into the program before he thought of getting another

degree. "When I saw the degree was possible, I pursued it."

In addition to the courses he took recently, McVey was granted credit for several courses he took in pursuit of earlier degrees. He also gained credit for his teaching experience at MMCS.

At the end of August, he received a bachelor of science degree in Technical-General studies.

He said, "It's a great opportunity to have a college here that will recognize military training in its course requirements.

Any soldier or civilian who's working in the electronics field here should take advantage of that opportunity to increase their education background."

McVey said the courses he took were useful on the job and the degree, while unexpected, didn't hurt at all.



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Prayer service set for hostages

A special prayer service for the American hostages in Iran will be held here tomorrow at 4 p.m.

Military and civilian members of the Redstone Arsenal community are invited to attend the 30-minute service, which will be held at the Post Chapel on Patton Road just inside Gate 10.

President Carter designated the past Monday a national day of prayer for the hostages. Military chaplains are conducting prayer services for the hostages and their families during the week Oct. 5-11.

In addition to tomorrow's community prayer service, Redstone chaplains have set aside time for prayers for the hostages at regular religious services during the week.

Dining facility No. 2 closed weekends

The closing of dining facility No. 2 on Saturdays, Sundays and holidays is expected to save \$40,000 a year without causing dining problems for soldiers here, according to CWO 2 Gerald Johnstone, chief of the Food Service Branch.

The dining facility was closed last weekend and won't be open again on weekends or holidays except during the Christmas season.

There has been no change to the dining facility's weekday schedule.

Unless there is a change in the arsenal's military population or it's food service needs, only one of the three dining facilities here will be open on weekends and holidays.

Dining facility No. 1, at the south end of building 3438, serves from 8 a.m. to 5:30 p.m.

with 15 minute breaks between meals on weekends and holidays.

Johnstone said, "We tested this concept on three separate weekends in February and we don't see any heartburn with it at all. We consider the change permanent but we have the option of reopening another facility if it becomes in the best interest of the troops to do that."

The change should cause only minor inconvenience to soldiers who ate at dining facility No. 2. The 6th Student Company and 515th Ordnance Company are co-located with dining facility No. 2, but their people will now have to walk about two blocks on the weekends. Soldiers from the 7th Student Company will now have to walk about three blocks instead of one.

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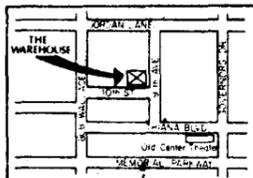
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harder here, but I do get to see a lot. I like the architecture. The customs. The people. I've been to Munich twice now, and the Oktoberfest is just madness. Really fun?"

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KEEP A GOOD SOLDIER IN THE ARMY. REENLIST.

The Old Team remembered . . .

The old team, the Army's famed group of rocket and missile pioneers, held a reunion here last week. Stories based on interviews with some of the old-timers appear in this issue, and next week the 9330th Technical Support Unit — a unique element of the team composed of enlisted scientists, engineers, and technicians — will be featured. In the cover photo on today's Rocket, five pioneers pose with scale models of their missiles they created in the 1950s. From rear left are the late Gen. Holger Toftoy, former Redstone

Arsenal commander; Dr. Ernst Stuhlinger, a member of the German rocket team and now on the staff at the University of Alabama in Huntsville; Hermann Oberth, a rocket pioneer who reportedly resides in Feucht, Germany at age 86; the late Dr. Wernher von Braun, famous German rocket pioneer; and the late Dr. Robert Lusser, who served as assistant director for reliability engineering for the Army Ballistic Missile Agency after working at the Messerschmidt airplane company in Germany.

Stuhlinger joined von Braun team at Peenemuende

BY SKIP VAUGHN

The 120 Germans brought to the United States for rocket research after World War II were "happy" about the opportunity, according to one of their number.

Dr. Ernst Stuhlinger says, "I felt very happy about it. I had the feeling it would give us all the chance to continue our program and go into space flight."

He said the group ranging from engineers to scientists felt "we could contribute and cooperate with a larger program on space flight."

Defense was the program aim when the rocket group was established in the little fishing village of Peenemuende in northern Germany. "At Peenemuende, it was all a defense program which was important to us. But in addition, we wanted to go into space flight," Stuhlinger said.

Stuhlinger, now on the staff at the University of Alabama in Huntsville, joined the rocket development team at Peenemuende in 1943. He was a young assistant professor of physics in Berlin and had served in the German infantry from 1941-43.

The German rocket team consisted of 5,000 in the north German village and 5,000 more working outside that village. The team designed the V-2 rocket in 1939 after predecessors beginning in 1937. The rocket was flown in October 1942.

After the war, 120 members of the team were brought by U.S. Army to Fort Bliss in El Paso, Texas. They accomplished "relatively little" there, according to Stuhlinger.

"We were a little unhappy about this. We felt we were put on ice and not given the opportunity to do what we were able to do," he said. "Only with the Korean War did the rocket program in this country begin to grow."

The group was moved to Huntsville Arsenal in the early '50s. "In Huntsville, with the traditional Southern hospitality, it was a very pleasant reception for us, a very enjoyable one," said the 66-year-old pioneer.

In the beginning, Huntsvillians were reluctant to absorb Germans with the recent close of World War II. "It took only a very short time and we began to make friends in Huntsville and really feel at home, and we've felt at home ever since," Stuhlinger said.

Huntsville "was almost like a door opening for us" because they were allowed to live in the city and were not as restricted as at Fort Bliss, he said. The highest speed limit across the arsenal was 10 mph which Stuhlinger said was understandable in light of the dangerous chemical cargos being transported here at the time.

Wernher von Braun, who became the German team's technical director at Peenemuende at age 27, was more than the team's coordinator. "He was the brain and heart of it, the soul and genius and driving force," Stuhlinger said. "He was an extremely unusual person — superior in many respects as leader, manager and a moving force."

Stuhlinger moved from the Army side her to the adjacent Marshall Space Flight Center when NASA was established in 1960. He was

associate director of science at Marshall when he retired in 1976.

He was retired for one day — in which he cleaned out his old desk — before joining the UAH staff. His present duties there are twofold: senior research scientist in the Johnson Environmental and Engineering Center, and adjunct professor of physics in the department of physics.

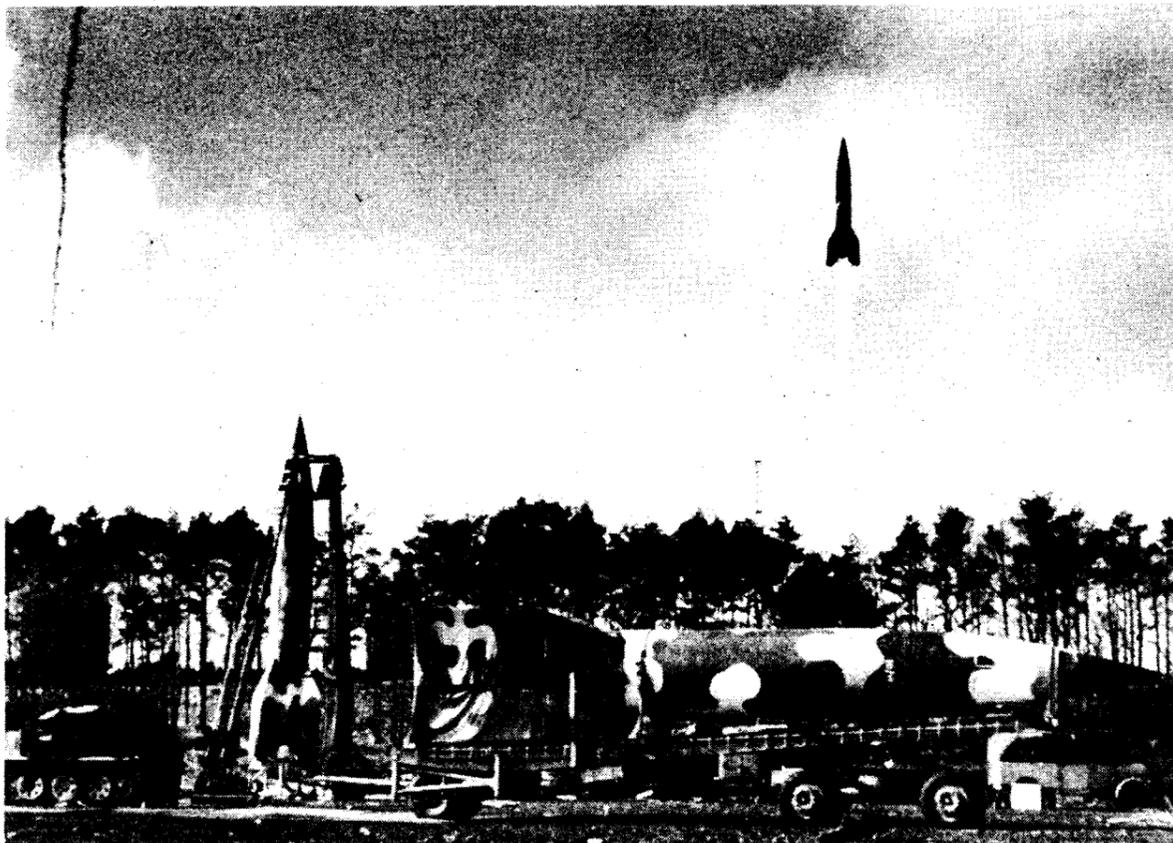
He describes the advancements at Redstone Arsenal as "tremendous and particularly the program in space exploration, it was extremely gratifying."

"And just to look back now and see that 12

astronauts have been sent to the moon and came back alive. What we've been dreaming about and what we saw come true in a perfect manner."

Stuhlinger, who lives in Huntsville with his wife Irmgard, believes the space program's main objective, the Space Shuttle, will fly on schedule in 1981.

"It is technically a very difficult program, very demanding, and the problems are not yet totally solved. But the people who work with it are confident it will be in good enough shape by 1981 that it can be launched with confidence."



Range activity at Peenemuende

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Army's 'Mr Missile' recalled

BY SKIP VAUGHN

Holger N. Toftoy, who was later to command Redstone Arsenal, predicted in 1946 that man would travel to the moon in his generation. His dream came true 23 years later.

Toftoy didn't live to see an American walk on the moon but he was instrumental in bringing the German rocket team to this country after World War II.

Von Braun's team of engineers and scientists was "very loyal" to Toftoy, says the general's widow, Hazel Toftoy. "He was called Mr. Missile," she said. "I think if he had gotten discouraged and left the Army, they would've gone on with it but I don't think they would've liked it."

Wernher von Braun provided the technical expertise while Toftoy "kept them going," she added.



Making music

In a photo taken in the early 1950s, then-Brig. Gen. Toftoy plays piano while his wife accompanies him on drum. "That was one night when we said we'd have a good time," she says. She's looking for that piano the couple bought for about \$50 and which he made into a modern piano "because I'd like to buy it back."

'Gen. Toftoy was a real humanitarian'

—Hazel Toftoy

Mrs. Toftoy lives in a south Huntsville apartment where a picture of her late husband holding a miniature rocket is framed by two curved swords. Another picture in the fashionable apartment shows a series of rockets.

She remembers coming to Huntsville with her then-colonel husband in 1952 from Washington, D.C.

Before assuming command in 1954 of Redstone Arsenal, the Army Ordnance rocket and guided missile center in Huntsville, Toftoy was director of the Ordnance Missile Laboratories at the arsenal.

He commanded the arsenal for four years, reaching the rank of major general, before leaving to assume command of Aberdeen Proving Ground in Maryland.

When Toftoy left in 1958, Huntsville gave him and his family a big sendoff. A few days before they left officials here proclaimed a "Toftoy Day" and established a monument for him in Big Spring Park.

Mrs. Toftoy recalls how the chamber of commerce and other local officials had been concerned about establishment of a missile center at the arsenal in the early 1950s.

Toftoy talked to them, she said, and those officials "were all for it because Huntsville needed the boost."

When the Toftoys arrived, Huntsville was "a little, tottering old town" dependent on producing watercress and cotton, she recalled.



The arsenal was "just a small place" and a handful of people under Col. Carroll Hudson, according to Mrs. Toftoy.

"Gen. Toftoy was a real humanitarian," said Mrs. Toftoy, who married him in New York in 1926. "He was well liked here; he had no enemies. He was just a beautiful person."

Toftoy retired in 1960 after 34 years of Army service. He died in 1967 and was buried in Arlington National Cemetery.

Missiles were only a part of his life, Mrs. Toftoy said. The West Point graduate developed a controlled submarine mine system, was an expert pistol shot, and excelled as an artist.

Toftoy was nicknamed Ludy as a child living with a Danish aunt in Wisconsin. Ludy was short for a Norwegian type of fish that young Toftoy would eat at meals.

The Toftoys had two children: a son, retired Lt. Col. Chuck Toftoy who heads the Raytheon office in Washington; and a daughter, Doris Toftoy Williams, married to a lawyer in Huntsville.

Both Huntsville and Redstone Arsenal have grown since the early missile days, said Mrs. Toftoy, the former Miss Hazel Schweikert of New York. The daughter of a German-born Baptist minister, she was presented a certificate Sept. 29 from city officials proclaiming her an "honorary citizen" of Huntsville.

"I don't think he ever swayed from his course," she said of her late husband. "I remember I got quite insulted when he said 'You come after duty, honor and country.' I got insulted. I thought I was first. "So I just went along with it."

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Missile pioneer began with GE

BY SKIP VAUGHN

When General Electric ended its contract to support the German rocket team for the U.S. Army in 1950, Al Muller faced a dilemma.

Muller had been with GE for 11 years and had traveled with the company from Fort Bliss, Texas to the arsenal in Huntsville.

He decided to take the Army's offer to join its missile program. "I saw missiles as a key thing for the future, an opportunity to get into a significant endeavor, and Huntsville was a nice area," Muller says. "The significant thing was I saw the missile program as a challenging area."

GE about 1947 was contracted by the Army to assist in supporting a group of German rocket scientists and engineers. The Army had brought the 120 Germans to Fort Bliss in El Paso after World War II.

Muller went to Fort Bliss about 1948 as a production specialist for GE and eventually as a procurement agent. GE was assisting the Germans and working with the Hermes rocket program at Bliss. Another GE group was working on another phase of the Hermes program at White Sands in New Mexico.

Muller recalls the "awesome" feeling he had from seeing the Hermes A1 and A2 during a time when the general public knew little about missiles. He describes the feeling as "incredible that you could have something fly like that without a man."

When the Army decided to move its German rocket team and support personnel from Fort Bliss to Huntsville, Muller felt it was a "very necessary" and "very excellent" move. "We were kind of stymied for growth and needed a place like this to move into," he says.

About 50 families from GE were involved in the 1950 move. They came to Huntsville with the Germans and Army military and civilian personnel who were supporting the rocket team.

GE's move included transporting equipment, desks, chairs and raw material — all by van. It took six to seven months.

GE, under manager Dave Sargent, occupied parts of eight to 10 buildings on the arsenal here — including the area where the National Aeronautics and Space Administration works today. Part of the company's engineering staff occupied what is now the Officers Club.

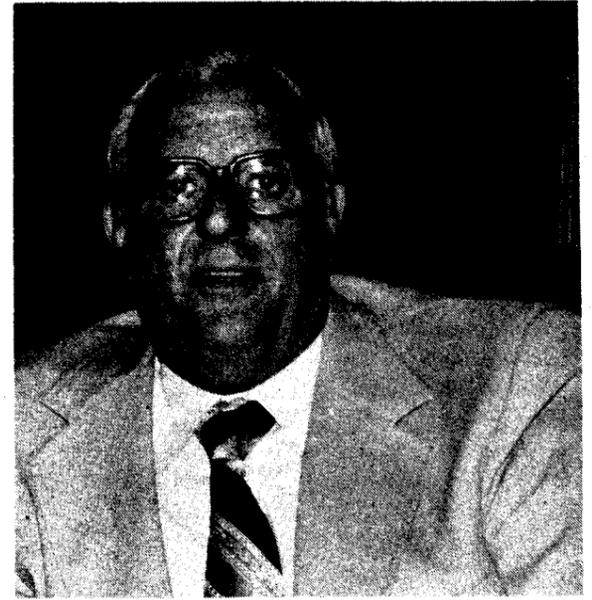
Shortly after GE's arrival, the company bowed out of its contract to support the German rocket team, Muller said. He joined the Army missile program in May 1950.

The Army decided initially to make this installation a manufacturing arsenal for missiles but it was decided months later in Washington to make this a center for the management of the Army's rocket and guided missile programs, according to Muller.

The switch meant more of a research and development type activity. The German team's knowledge was used in the development of the early Redstone rocket, then Jupiter, then Jupiter II and eventually the Saturn rocket, Muller says.

Muller went to work in the procurement area with the Industrial Directorate. After over 29 years of civil service, he is director of the Missile Command's Procurement and Production Directorate which buys parts and systems used here.

"The thing I remember most — and is always imprinted in my mind — is in early 1948 when Dr. (Wernher) von Braun and Dr.



Muller

(Ernst) Stuhlinger gave a technical presentation at a university (at El Paso) and it was there that they presented their theories on what could be done in space travel," Muller recalls.

Something else that stands out in Muller's mind, he adds, is how the Army supported the German rocket team. The Army provided that team "flexibility" through the Redstone and Jupiter programs, he says.

Still residing in Huntsville, Muller is 59, married and has a son, a daughter and four grandchildren.

"You feel quite humble to think you were a part of tremendous leaders such as von Braun, Gen. (John) Medaris and Gen. (Holger) Toftoy," Muller says.

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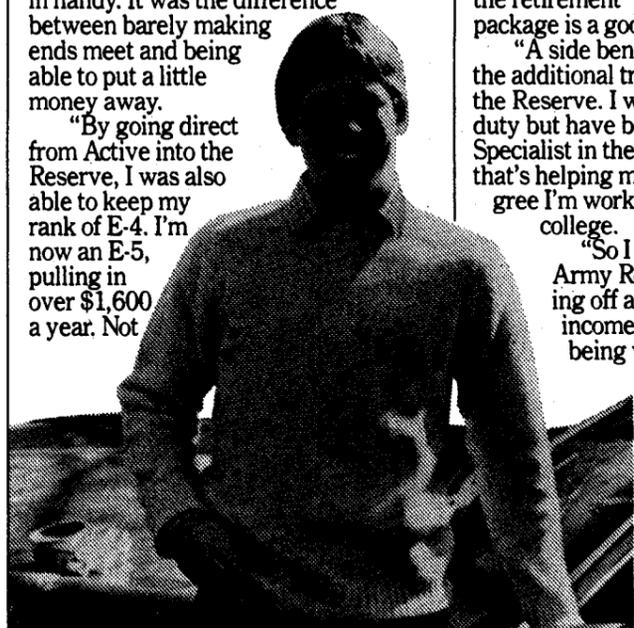
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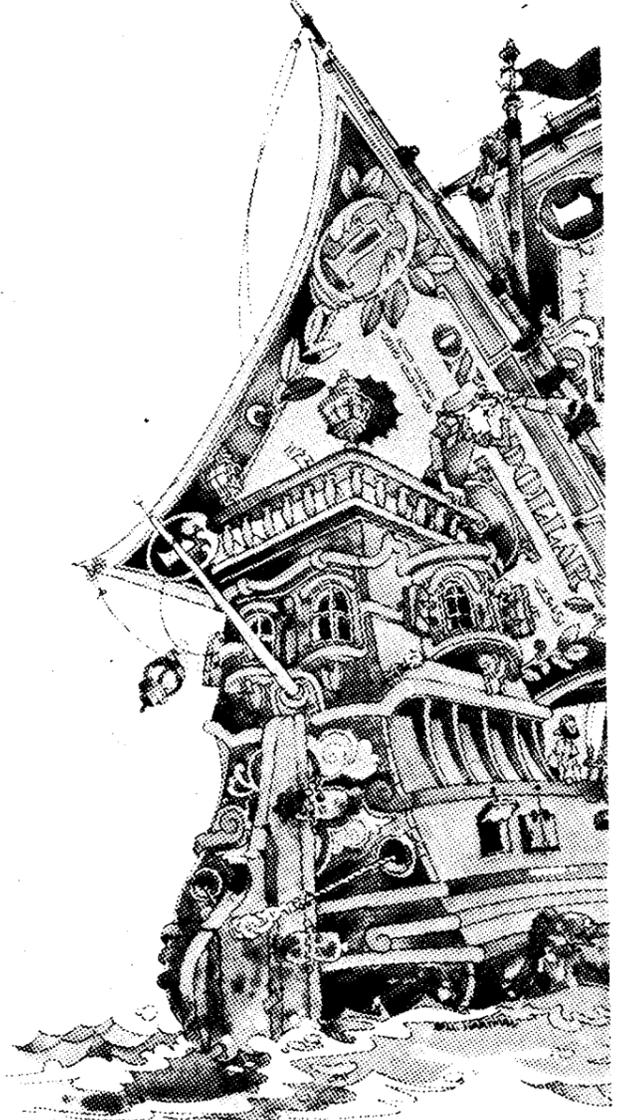
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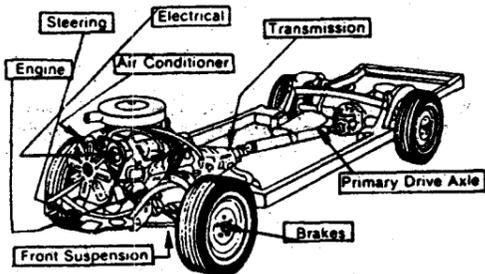
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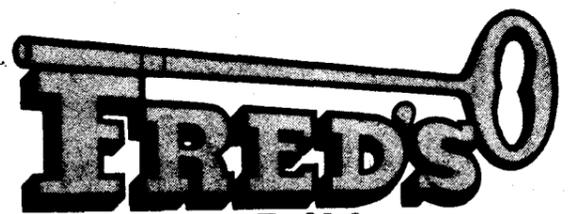
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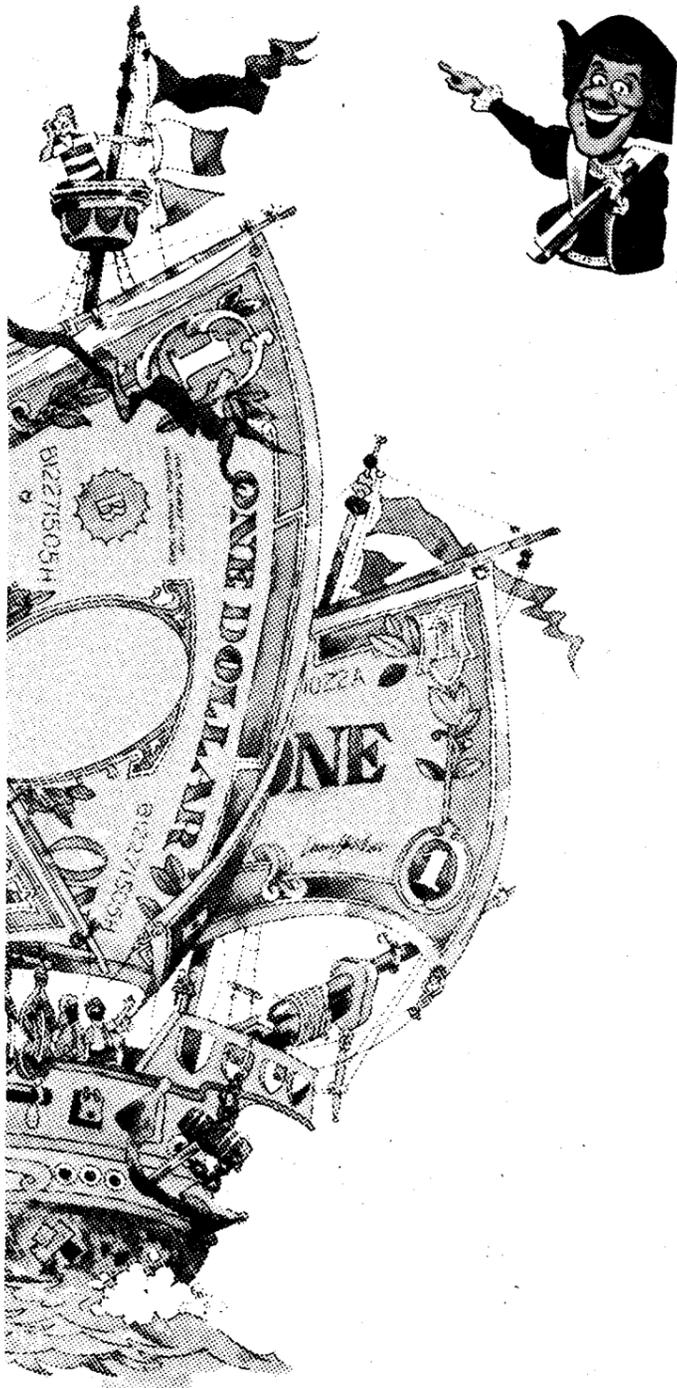
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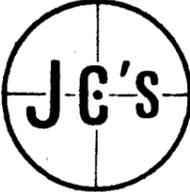
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Erratic rocket lands in Mexico

BY SKIP VAUGHN

Von Braun's rocket team from Germany and the handful of Americans supervising them at Fort Bliss, Texas, developed a close relationship that continued when the group came here.

James J. Fagan, who retired from his civilian Redstone Arsenal job last February, remembers the wooden barracks at Fort Bliss in El Paso. An automotive repair building was used as a machine shop and hospital wards were converted into apartments when the Germans' families started coming to the Army fort.

"Obviously we were cramped for space and everything else," said Fagan, who was sent to Bliss from Washington in 1946.

Fagan was a tech sergeant with the 9330th military group and stayed on as a civilian when released from the Army in '46. An engineering graduate from Notre Dame, he became the chief American civilian at Fort Bliss.

The Germans and V-2 rockets were taken to the fort in late 1945 with the idea of refitting some V-2s for firings at White Sands.

"It got to be like a fraternity," Fagan said. "Like you were living in a very, very enclosed self-contained community."

But everything didn't go smoothly. V-2s were being fired but there was no safety program, Fagan recalls.

"One time I was looking through a camera, and instead of going up, the thing kept coming down."

A man would stand atop a trailer used as a radio transmitter and would watch a rocket in flight. If it looked erratic, he would push a cutoff switch to shutdown the rocket's thrust by closing some valves in the propellant system.

Fagan remembers one firing in 1947 or '48 designed to measure atmospheric radiation. The cutoff man was Ernst Steinhoff, a member of the German team.

Steinhoff was standing on the 2 to 3 foot tall trailer ready to push the cutoff switch if necessary. However, the trailer was three miles from the launch site and he couldn't see the V-2 was flying in the wrong direction until it was too late.

The rocket was supposed to go north about 70 to 100 miles uprange in White Sands but instead went south toward Mexico. "Of course he gave the cutoff signal quite properly but it was too late," Fagan said.

Luckily, the V-2 landed on the lip of a Juarez cemetery without disturbing a grave.

*'This was a new science,
a new technology'*

—James J. Fagan

"That was the first U.S. missile ever fired in foreign territory," Fagan said. "In fact, it was probably the only guided missile ever fired in foreign territory."

"Because nobody was hurt, it became sort of a joke."

In 1949, Fagan and James P. Hamill, a military man who was part of the technical team which brought the Germans to the United States, heard that Huntsville Arsenal was up for sale. Two weeks before bids were to open, they flew down and found "it was ideal for our purposes."

They decided they would come here, and give back to the government \$4.5 million in military construction money for Fort Bliss.

The team started moving here in April 1950: about 120 Germans, 80 American civilians, a handful of military officers, 30 enlisted men, and some General Electric Co. workers. GE had provided industrial support at Fort Bliss under an expanded Army contract.

When the group moved down, Col. Carroll Hudson commanded a rocket development group on the south end of the arsenal called Redstone Arsenal. Huntsville Arsenal, the larger part of the installation, was the one that had been offered for sale.

Huntsville was "a little cotton town" of 16,000 people, Fagan recalls. "Having lived at Fort Bliss close knit, we kind of maintained that close-knitedness here," he said. "It took a lot of time for the town to absorb the Germans. World War II was still pretty close. It wasn't until the mid-'50s that they were absorbed by the community."

The missile operation under Hamill moved its headquarters into what is now the Officers Club. Fagan and Hamill had their office space there.

"Outside of that, there was nothing but empty buildings. Mostly barns. The first year we turned the Germans loose with hammers and nails and told them to build their laboratories," Fagan recalls.

Buildings were hand-built out of old tile warehouses. To keep the tin-roofed buildings



from overheating, the Germans put pipes at the top to let water run down the corrugated metal.

In the early 1950s, then-Col. Holger Toftoy was sent here from Washington to head the Army Ordnance Missile Command, a combination of the rocket center and the guided missile center.

Fagan remembers how the missile center's projects expanded in those early years. The center developed the Hermes II, a two-dimensional winged ramjet that was to be boosted into flight by a V-2 rocket.

Because of the urgency of the Korean War, the Corporal missile project was adopted by the missile center.

The center got the go ahead to develop the Redstone missile but officials here were disappointed when the Navy got the greenlight to develop the world's first orbiting vehicle, Fagan recalls.

When the Russians launched their Sputnik in 1956, the Army was told to take over that goal, Fagan said, and the free world's first orbiting vehicle resulted.

Fagan recalls how a civilian agency, the old National Aeronautics and Civil Ad-

(Continued on page 15)

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Sparkman recalls arsenal history

Redstone Arsenal might be known today for nerve gas rather than rockets, if a deal that was working years ago had gone through.

In a talk to the rocket and missile old-timers here last Thursday, John Sparkman disclosed that he had tried to get for Huntsville the mission that went to Pine Bluff Arsenal early in the World War II years.

"I remember when talk grew that they were going to close the plant in (Edgewood) Maryland," said the retired senator. "I did a little talking about it, let it be known that I wanted it in this area."

Sparkman said he talked to Col. Carroll Hudson in the War Department about moving the chemical plant here. "But it didn't come here", said Sparkman, smiling. "It went to Pine Bluff, I believe."

But Huntsville did manage to get a chemical arsenal; however the mission was terminated at the end of the war. Pine Bluff, kept its chemical mission and recently was proposed as a manufacturing site for binary nerve agent.

Sparkman also recalled how the installation got its name. He asked Col. Hudson, who became its first commander, where the name came from. Hudson replied, the former senator said, that when the site was being studied, there were big red spots on the charts and maps he was provided of the area. Hudson thought the spots were rock, and coined the name "Redstone", but later found out they were red clay dirt.

Sparkman called the Von Braun team "a great group" and recalled his acquaintance with Wernher von Braun both as a neighbor in Huntsville and through the late space pioneer's appearances before the Senate Foreign Relations Committee. "He was a wonderful person," said Sparkman.

At the close of the program, which AOSA sponsored, Col. James Hamill was made an honorary citizen of Huntsville by Mayor Joe Davis. Hamill commanded the support unit that moved here from Fort Bliss with the von Braun team. He is now a resident of Maryland.



Sparkman

Erratic



Old-timers

Four pioneers talk rocketry, about 1952. From left are Fagan; the late Gen. Holger N. Toffoy, first commander of Army Ordnance Missile Command; Hermann Oberth, famous

Rumanian rocketeer; and Dr. Ernst Stuhlinger, part of the German team and now of the University of Alabama in Huntsville.

(Continued from page 14)

ministration, was given total responsibility for space activities as the National Aeronautics and Space Administration in 1960. Von Braun's team went over to the new Marshall Space Flight Center here on the arsenal as part of NASA.

Fagan, 61, retired in February after 37 years of civil service including a year and a half as a soldier. He was a scientific and engineering advisor to the arsenal director of research and development when he retired. He resides with his wife of 31 years, Mary, in southeast Huntsville.

"This was a new science, a new technology," Fagan said, remembering the team's early years. "We were all a bunch of young, bushy-tailed enthusiasts, most of us in our 20s and 30s."

"People were following us instead of directing us. It wasn't a matter of Washington telling us to do this or do that. We would go to Washington and tell them what we were going to do."

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Barracks antennas taken down

Government-provided mounted antennas outside six barracks here were taken down under new Department of Army policy effective Oct. 1.

The central television antennas, providing reception to the four Huntsville UHF channels, were removed at barrack buildings 3433, 3434, 3435, 3436, 3480 and 3481. The antennas had been mounted at those newer barracks around 1974.

Soldiers can still use loop or bow-tie antenna to pick up channels on their individual sets, officials said. They added that outside TV antennas are not permitted on barrack buildings.

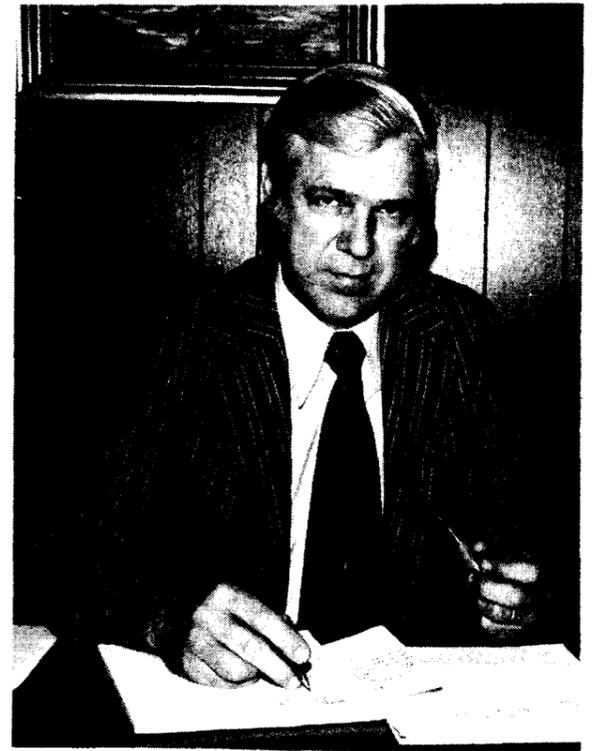
Dewey Wilson, communications specialist in the Operations Division here, said soldiers desiring cable television programming should contact Redstone Cable TV Co. (telephone 772-3331) on an individual basis.

The DA policy, which came down last year, stated there will be no government-provided central TV antenna systems on installations where a commercial TV company had a franchise.

"We already had a cable TV franchise providing it," Wilson said. "In our case, it just amounted to: come 1 Oct. discontinuing the MATV (Master Antenna Television Systems)."

MATV is defined by the Army as a government-provided entertainment TV system as opposed to CATV — a commercial company provided entertainment TV system.

The exception to the policy are installations with no such commercial company on post. But those installations would have to begin charging a fee to help cover the cost of providing their TV service, Wilson said.



Meritorious executive

William A. Davis Jr., Deputy Ballistic Missile Defense Program Manager, was one of twelve top-level Army civilians to be awarded the new Presidential Rank of Meritorious Executive, which carries a \$10,000 bonus. This new incentive award for members of the government's Senior Executive Service was authorized by the Civil Service Reform Act of 1978. Davis is credited with assisting in development of more cost-effective BMD systems to counter the Soviet threat.

Full stop required for school bus

State law requires that vehicles stop for school buses on Redstone Arsenal just as they must on state roads, according to Capt. John Long, acting provost marshal.

He said the law requires that vehicles come to a complete stop when approaching a school bus that is taking on or discharging children.

A complete stop is required regardless of the width of the roadway or direction of travel.

Anyone cited for violating the full-stop law must make a mandatory appearance in court and could be fined up to \$300, jailed for up to 90 days or both, Long said.

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Patriot

(Continued from page 3)

success was a nuclear warhead and that was bothersome to a lot of people in those days.”

So on a gray November day in 1962 Cockrell and the Redstone team got a terse message to dismiss the people, secure the classified files, terminate the FABMDS program and get on with other things.

Cockrell didn't and that's one good reason why he's often called the father of the program.

He literally pulled the program out of the classified trash although he says modestly: "That's only one act. One individual can't take the glory for achieving something by himself. I prefer to think of myself as a catalyst."

Cockrell asked for permission to assign himself and a couple of others, including Steve Likos who is still with Patriot, on overhead expenses to see if they couldn't salvage something from three years of studies.

"Colonel Raymond Burkett, my boss then, said sure. . . is we thought we could do something, go ahead," Cockrell said. "He was almost nonchalant about it but had faith in us and let us go."

Earlier that fall, Cockrell had heard of an air defense study performed by the allied command in Europe and given to the then Army Materiel Command. So off to Washington he went and talked with Brig. Gen. John Zierdt, later to become commander of the Army Missile Command.

"We talked about the study, about requirements, and concluded that the new concept was something less than FABMDS, kind of an interim air defense weapon to replace Hawk and Hercules, and hopefully provide some capability against tactical ballistic missiles."

So requirements, subsequently, were written up, staffed and approved, money was appropriate and the Army at Redstone hosted a bidder's conference in 1963 for a new weapon that was named Army Air Defense System for the 1970s (AADS-70s).

Again, the Army awarded three contracts, got back some interesting proposals, conducted another evaluation, and concentrated on component development from 1963 to 1965.

All the concepts envisioned phased array radars which implied computer-controlled sensors and radars.

"We did some ferrite phase shifter work with General Electric," Cockrell said, "Actuator work with Beech Aircraft through their prime, RCA; some radome work with Hughes. We had a scale model array radar built by RCA and a phase-phase array model built by Hughes. Both these devices tracked aircraft. And we began experiments with the new track-via-missile guidance scheme.

"As I recall, we spent some sixteen million on component development."

But in late 1964 word came from Washington once again to rethink the whole process, look at tradeoffs. Should more money be put into the defensive missile, make it more sophisticated? Would it be better to put more money into ground equipment that isn't expended every firing?

Those were just some of the questions.

Cockrell and the team did the tradeoff studies, while continuing component development and hardware experiments, and in the summer of 1965 filled the top floor of a building at the Army Missile and Munitions Center and School to study more than 30 concepts. Some 200 people, headed by Col. Glenn Crane, were involved in the study which got subsequent approval to go.

In 1965, the project became Surface-to-Air Missile Development (SAM-D), Cockrell was named the Deputy Project Manager and the team focused on tradeoffs while continuing hardware experiments. For a short time the Army conducted a joint effort with the Navy which was looking at advanced surface missile systems but the two services' needs and problems differed and they went separate ways.

"We had several good years of concentrated effort, felt very good about what had been accomplished and thought we had things



Patriot maneuvers in a test

under control," Cockrell said. "But in 1964 Secretary of Defense James Schlesinger directed the Army to reexamine and redirect development of SAM-D.

"We were told to continue the program on an austere basis until we completed flight tests to prove out the guidance scheme. We did, and accomplished one of the most successful flight test programs ever."

There were to be other delays, other studies (it became Patriot in 1976), changes in requirements — but since 1976 when the program went into full engineering development, Patriot has moved steadily along. Cockrell remembers the years, despite some frustrations, as a rich and rewarding experience, and believes Patriot emerges from the delays even stronger.

"We structured a system that represents the latest in known technology; that has tremendous growth potential, not by redesign of hardware, but by redesigning software that drives the computers; requires fewer people to operate and maintain; and will cost less eventually because of reduced operating costs.

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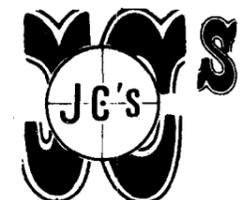
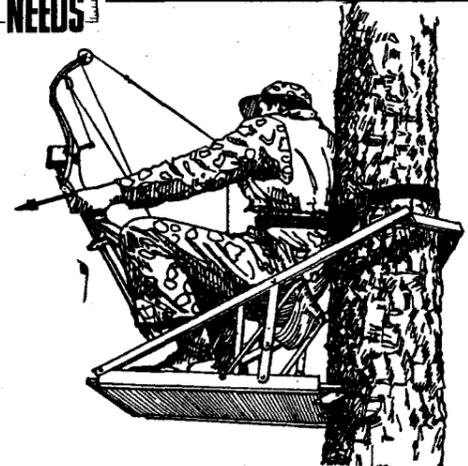
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Model rocketeer eyes international title

BY LIZ CARSON

Lieutenant Matt Steele learns all about rocket systems during the day, then goes home and builds them at night, Steele, a student here in missile maintenance management views his model rocket hobby as serious business.

He recently won the third place bronze medal in the International Association of Rocketry competition at Lakehurst, N.J.

Steele says that his interest in rockets follows closely his educational background. He has a nuclear physics degree from Kent State University in Ohio.

His hobby just sort of grew with him. "Back in high school I would spend all winter in my spare time building the models," said Steele. "You have to do the building during the winter in Ohio because you sure can't fly them until summer."

His membership in the Suburban Northeast Ohio Association of Rocketry gave him a start in local and national competition.

The first time Steele was selected for the international American team was in 1977, but the meet was held in Bulgaria and he couldn't afford to go.

Two years later, Steele was again a national winner and was chosen to compete at the 1980 international meet in New Jersey.

His model, the Sandhawk, only cost \$15 to make. The paper tube rocket flew 1800 feet only to be beaten by two other rockets on the American team.

The accuracy required in making a small rocket involves many long and tedious hours. "It is tiny work," said Steele. "Everything must be tolerant within one thousandth of an inch."

For the first time, the United States holds the world title in model rocketry. Steele hopes

the U.S. can keep it. In the past it has been one of the Eastern European countries like Bulgaria that always came to the front.

"The Bulgarians are government subsidized like they are athletes going to the Olympics," said Steele. "They get three weeks off from work just to practice launching the rockets and chasing them once they land on the ground."

In one way it was rather like going to the Olympics for the Americans. They wore the same uniform made from the U.S. 1980 summer Olympic teams originally bound for Moscow.

Steele hopes he will be selected to compete in the next worldwide competition. "I am saving my money," he said. "The next big contest will be in Poland."

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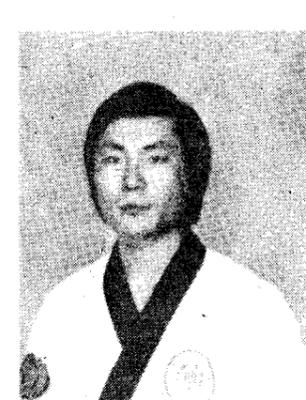
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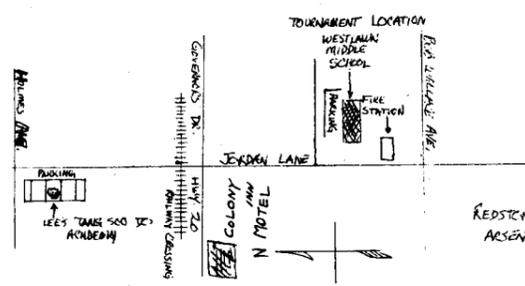
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WHITE BELT	Light	1st, 2nd, 3rd
	Heavy	1st, 2nd, 3rd
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WOMEN BEGINNERS		1st, 2nd, 3rd
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(under 8 yrs. old)		
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Picker goes 11-3 last week, sees Tide win, Tiger loss

BY SKIP VAUGHN

An 11-3 record last week brought this picker's record to 18-8 for his weekly major college football guesses.

This weekend Pittsburgh visits Florida State, and Penn State travels to Maryland. Pitt should scalp the Seminoles while Penn's Nittany Lions should nip Maryland's Terrapins.

Alabama's Crimson Tide shouldn't have any trouble in their trip to Rutgers. But Auburn's Tigers will probably bite the dust at Louisiana State at night.

Here's another forecast for selected major college football games Saturday:

Miami of Fla. at Notre Dame — Notre Dame by 7
 Oklahoma at Texas — Texas by 3
 Pitt at Fla. State — Pitt by 10
 Penn State at Maryland — State by 7
 Auburn at LSU — Louisiana State by 7
 Bama at Rutgers — Bama by 28
 Missouri at Okla. State — Missouri by 14
 Stanford at UCLA — UCLA by 14
 North Carolina at Wake Forest — N.C. by 10
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'B' undefeated in eight games

BY RAY ROWDEN

Company B, the only undefeated team in the Company Football league, stretched its winning streak to 8-0 Thursday night with an 8-0 shutout over the 7th Student Company.

Kenneth Cain set up the only touchdown of the game when he intercepted the 7th's first pass of the night. A 30-yard strike from Bruce Lester to Ernest Hobson put six points on the scoreboard and a successful two-point pass to Bobby Henry ended the scoring for the evening.

However, if the teams had been playing horseshoes, Bravo would have scored at least once again. In about the middle of the second quarter Lester launched a bomb for the end zone where Everett Sloan managed to outrun the 7th S.C. defenders and lay hands on the ball — only to bobble and drop it.

The rest of the game highlights were defensive.

Bravo's Nathan Perryman, the only Air Force player in the league ended the students' only first half scoring opportunity when he intercepted a pass as the horn for the half sounded.

On the 7th S.C. side, Brian Dery and Mitchell Defoor shared defensive honors. Each collected a quarterback sack, Dery from his position on the end and Defoor from the middle of the line.

In one of the most nerve racking plays of the game, Dery also managed to tip the ball out of the fingertips of Kenneth Ellis to break up a deep pass play that looked like a certain score.

The companies have completed all the games scheduled out of their own conference and the results of those matches indicate that Bravo may have already finished the toughest part of its slate.

However, to remain unbeaten, they will have to down the 95th Service Company again (their previous encounter ended in a 8-6 score) and handle HHC twice. That won't be easy.

But Bravo is confident. And coach Andrew

Brittle said they are leaving nothing to chance. "Luck doesn't exist," he said. "We make our own luck — all the way to the championships."

Nor is the Co.B team worried about being tagged "the Over the Hill Gang." Lineman Charles Adams noted, "We're not that old. Besides, these kids know we're instructors in the classroom, but we have a lot to show them on the football field, too."



On the move

Ernest Hobson (number 22) leads the blocking as Bobby Henry (number 20) runs the ball toward the 7th S.C. goal line on the way to Bravo's eighth victory in a row.



COLUMBIA COLLEGE
REDSTONE ARSENAL EXTENDED STUDIES CENTER

Phones: 881-6181 or 876-4851

SESSION V October 20 through December 13

COURSE NO.	COURSE TITLE	INSTRUCTOR	PREREQUISITE	DAYS	TIME
BUS 150	Introduction to Business	Huggins		M-W	7:30-10
BUS 296	Basic Business Finance	Smalley	BUS 150, 293, 294, or Soph. Standing	M-W	5-7:30
BUS 366	Administrative Office Man.	Smalley	BUS 260	M-W	7:30-10
ENG 102	English Composition II	Dyar	ENG 101	M-W	5-7:30
GOVT 320	Political Philosophy	Brumett	Junior Stand.	M-W	5-7:30
MA 222	Analytic Geometry and the Calculus II	C. Patty	MA 201	M-W F	7:30-10 5-8:30
MA 350	Statistics	S. Patty	MA 100 or Ins. Permission	M-W	7:30-10
PSY 230	Educational Psychology	May	PSY 101	M-W	5-7:30
PSY 450	Abnormal Psychology	Blanchard	PSY 101	M-W	5-7:30
PSY 381	History & Systems of Psy.	May	PSY 101	M-W	7:30-10
BUS 260	Principles of Management	Rouse		T-Th	7:30-10
BUS 293	Economics I	Traylor	Soph. Standing	T-Th	5-7:30
BUS 325	Retailing Management	Shepard	BUS 260	T-Th	5-7:30
BUS 422	Advanced Small business Man.	Dodson	BUS 321	T-Th	7:30-10
CJ 311	Police	Moon		T-Th	5-7:30
ENG 101	English Composition I	Dyar		T-Th	7:30-10
SOC 112	General Anthropology	Wilson		T-Th	5-7:30
SOC 331	Juvenile Delinquency	Bill		T-Th	7:30-10

ACADEMIC CALENDAR — SESSION V80

Early Registration Begins.....	Sept. 22
(Early registration is continuous from Sept. 22 until Oct. 17)	
Tuition Assistance Form Deadline.....	Oct. 10
Regular Registration.....	Oct. 17
Classes Begin.....	Oct. 20
Late Registration Ends.....	Oct. 27
Last Day to Drop.....	Oct. 31
Classes End.....	Dec. 13

Classes are open to Active Duty Military, their dependents and civilians employed on the Arsenal. The Columbia College office is located in Building 3658 on Cajun Dr. The office hours are 9:00 A.M. to 5:00 P.M. (Monday through Friday). ALL TUITION ASSISTANCE FORMS MUST BE IN BY FRIDAY OCTOBER 10, 1980.

**Phones: 881-6181
or 876-4851.**

Carpool Hotline 876-1500



Harvest/Toney

Carpool wanted from Harvest/Toney area to MMCS building 3345, hours 7-3:30. Sonja Goode 876-6563/4687.

Gurley

Ride wanted from Mountain Lake subdivision, Rt. 1 Gurley, to 7471, hours flexible. Jean Beard 876-8451.

Guntersville

Carpool needs two members from Guntersville to 5250 or vicinity, hours 7:30-4. David Henderson 876-8123.

Carpool wanted from Guntersville to 5250, 4505, 4488, hours 7:30-4. Alpha Camp 876-4423.

New Hope

Carpool or ride wanted from New Hope to 8027, hours 7-3:30 or 7:30-4. Shelia Thompson 876-4233.

Florence/Killen

Carpool wanted from Florence/Killen area to 5250 area, hours 7-3:30 (flexible). Belinda Peck 876-4237.

Arab

Carpool wanted from Arab to Fox Hospital, hours 7-3:30, can change. Melissa Isom 876-5716.

Ride or carpool wanted from Arab, Main St., to 7101, hours 7:30-4. Would like to pay someone to ride, but will consider driving sometimes. Janice A. Torstenson 876-3648/3691.

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Destination _____

Hours _____

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Decatur

Carpool members wanted from southwest Decatur to 5681, 5687 or 5678, hours 7-3:30. Guy Cannon 876-1155 or Ernest Frix 876-7401.

Athens

Carpool or ride wanted from Athens (East Side) to 4488, hours flexible. Julian Newman 876-3912/3915.

Rogersville/Athens

Carpool members or riders wanted from Rogersville to 4566. Leave Rogersville at 5:45, Athens at 6:20 and arrive at Redstone at 6:50. Morris Williams 876-5726.

Athens (Wed.-Sun.)

Carpool, ride or riders wanted from Athens to 4500. Work week is Wednesday through Sunday, hours 8-4 or 8-4:30. Kenneth Davis 876-2588/3083.

Announcements

Toastmistresses celebrate

The Redstone Toastmistress Club will celebrate its 10th anniversary with a Supervisors-Founders Day luncheon meeting on Wednesday, Oct. 15 at 11 a.m. at the Officers Club. Everyone is invited to attend the celebration. For reservations call Bobby Bradley, 876-3686-3843.

New dental appointment system

As of Sept. 26 the Dental Clinic will begin utilizing a new appointment system. Personnel desiring dental appointments may call 876-1643 between 3:00-4:15 on Friday afternoons. Emergency problems can be seen on a walk-in basis. The stand-by system will continue in effect. The following categories of patients are authorized care: active duty, active duty dependents, and retired personnel.

Redstone Riders 'sunshine tour'

The arsenal motorcycle club, the Redstone Riders, will have their third annual "sunshine tour" to Mexico Beach, Fla. during Oct. 10-13. The riders will depart the Main PX at 6 a.m. Friday and return on Monday. Reserved campsites will be available. For information call Ken Blackmer 876-2331 or 837-8414.

R&D conference

A conference on "How to Keep Research and Development Successfully on Track" will be held Dec. 10-12 by American University in Washington, D.C. MICOM engineer James Jernigan is one of 80 senior people from research and development organizations who will lead the conference's 40 workshops on how to find the right R&D project, recognize when it goes off track, ensure that it solves the user's problems, and related topics. For more information contact Center for Technology and Administration, American University, Washington, D.C. 20016, telephone (202) 686-2513.

Recreation Center

Today — **Movie** at 7 p.m. Thursday — **Bingo** at 8 p.m. Friday — **Pool** at 7 p.m. Saturday — **Hot Dogs** at 4:30 p.m. Sunday — **Charter Oak Show** at 8 p.m. Monday — **Movies** at 7 p.m. Tuesday — **Yahtzee Night** at 7 p.m.

OWC fashion show Oct. 14

On Oct. 14 at 11 a.m. the Redstone Officers Wives Club will host a Furs and Formal Wear Fashion Show, just in time for the Charity Ball. It will be held in the Officers Club Ballroom with the social hour being held upstairs prior to the luncheon. It is hosted by the Ladies of BMD-SCOM. Make reservations to: A-E Karen McCullough 883-2190, F-L Linda Terry 883-8750, M-R Rose Garbardi 837-7089, S-Z Julie Goodridge 837-4548. Cancellations: Marge Kunhart 883-2546.



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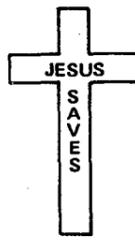
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Friday Evening Evangelistic Service 7:00 p.m.
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Destin Fla., condominium furnished 1 br, private beach, pool lighted tennis courts, shuffle board, new fall rates - Destins finest weather, \$200 wk, \$50 a night 3 night min. Call 534-0651 or 881-6045 after 5 p.m. ttc

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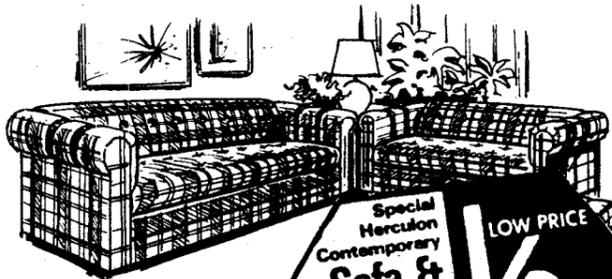
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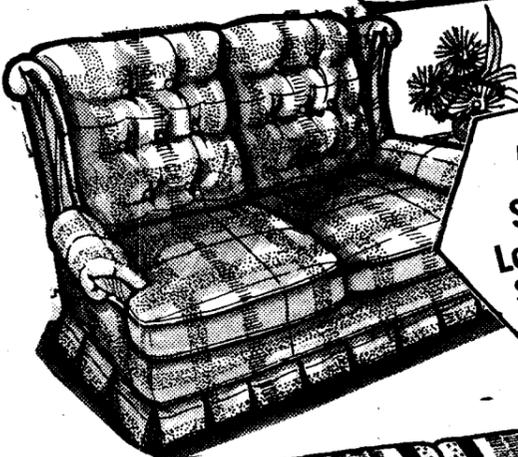
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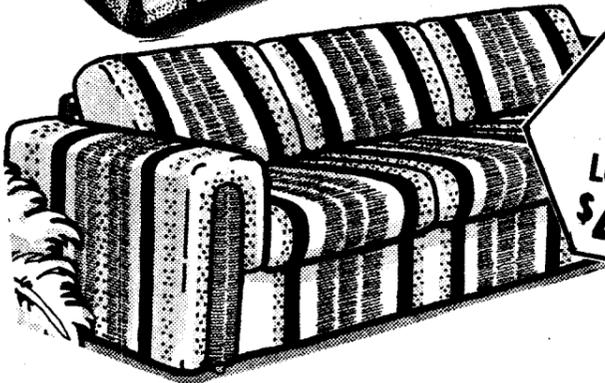
Bold Herculon Contemporary
Sofa & Loveseat
\$399
LOW PRICE FOR 1/2 PIECES



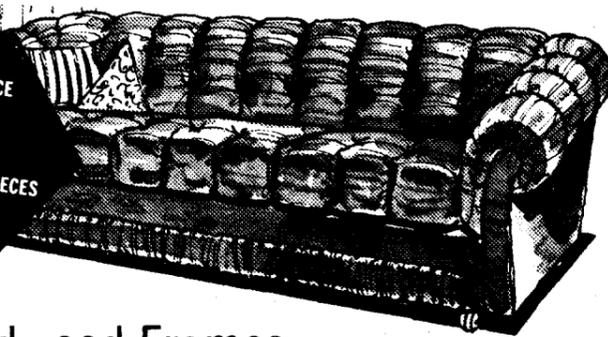
Early American Herculon
Sofa & Loveseat
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Herculon Chenille Velvet
Sofa & Loveseat
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