

Redstone Rocket

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'We had done it!' Sunday marks 30th anniversary of Explorer I launch

BY PAM ROGERS

The atmosphere was tense for the men crowded into the little blockhouse next to Launch Pad 26 at Cape Canaveral that night almost 30 years ago. On the pad sat a rocket, and perched on top of that rocket were the hopes and dreams of an entire nation.

Time was running out for the men with the Army rocket made from a collection of off-the-shelf parts, holding the small, unnamed satellite which some people said looked like a painted fence post. They had

been in the blockhouse for two days, and they were tired. High altitude winds were too strong for a launch. They waited.

At last the winds died down. Not much, but enough to take the risk of launching. The order was given.

At 10:48 p.m. EST on Jan. 31, 1958, America's space program began. It was after midnight before the anxious scientists had confirmation that the satellite was actually in orbit. Secretary of the Army Wilbur Brucker called the Cape to inform everyone that he and Gen. Maxwell Taylor, Army chief of staff, had decided on a name for the new "moon." It was to be called Explorer.

The launch was a triumph for the U.S. Army, for soldiers everywhere, and for workers at the Army Ballistic Missile Agency at Redstone Arsenal and the Jet Propulsion Laboratory in California.

It was the realization of a long-held dream for Werner von Braun and his team of rocket scientists which came out of Germany to work for the United States at the end of World War II.

For a nation of people whose hopes had been dashed by not one, but two successful Russian satellite launches (one even carrying a dog), and by failure of the Vanguard rocket, it meant a permanent spot in the space race.

In Huntsville, people danced in the streets.

Explorer's path to the launch pad was riddled with political pitfalls almost from its inception. In 1954, von Braun proposed that a satellite be launched during the International Geophysical Year using an Army Redstone missile as a launch vehicle. The IGY, observed from July 1957 until December 1958, was planned as a period of peaceful scientific study on a global scale.

Von Braun's proposal was struck down by President Dwight Eisenhower in 1955 in favor of the "civilian" Vanguard rocket then under development by the Navy.

Work on Army missiles continued. In 1956 the Army launched a Jupiter C missile, minus the fourth stage, which reached an altitude of 682 miles and flew 3,335 miles down range. Members of the Army missile team knew then, as they do now, that if the fourth stage had been on the rocket, it could have shot its payload into orbit.

Two additional Jupiter C shots proved that a re-entry heating problem had been solved. The remaining Jupiter Cs were put into storage, where they would remain until 1957.

Curtis L. Ferrell, a retired Army colonel who now works for the Illinois Institute of Technology Research Institute in Huntsville was a lieutenant colonel then and head of Technical Material and Equipment for the ABMA. He knew about a particular missile which was built a little differently— one that was designed to carry a satellite.

Space museum to hold Explorer I party

The Alabama Space and Rocket Center in Huntsville has big plans for celebrating the 30th anniversary of the Explorer I launch Sunday.

The public is invited to festivities beginning at 1 p.m. at the SRC cafeteria. The Rev. John Bruce Medaris, a retired Army major general and former commander of the old Army Ballistic Missile Agency, will share his pre-launch memories, as will Dr. Ernst Stuhlinger.

Stuhlinger, who is now employed by Teledyne Brown, was a member of the original von Braun team which came to the United States from Germany at the end of World War II.

"I had the missile a long time before launch, in storage in a warehouse along the river. We kept it a secret for a long time," he said.

Dr. Ernst Stuhlinger, a member of the original German team, still lives in Huntsville, and works for Teledyne Brown. He remembers the frustration of standing by while the Vanguard was under development.

"There is much to be said about the Vanguard. There were mishaps and people are quick to criticize. We were competitors, and we believed we had a better plan. We didn't believe we were better people. They had a plan that was almost unworkable. It was too ambitious and there was too little time. We had a vehicle, and they had to build theirs. We were in a far better position.

"The Army made the offer repeatedly to work together. I was the ambassador, so to speak. We said, 'you keep the name; let us help so our country succeeds.' They didn't do it."

When the Russians put Sputnik into orbit on Oct. 4, 1957, Americans responded with a combination of shock and furor. After all, the Russians were a backward people who were just beginning to get over the trauma of being dragged into the 20th century. They were hardly what any American would consider as being on the forefront of technology. Or so we thought.

The day after the news about Sputnik broke, Medaris quietly had Jupiter C number 29 removed from storage and readied for launch.

When the second Russian satellite, carrying Laika the dog, went up on Nov. 3, Americans were stunned. If they could put up two satellites, why couldn't we put up just one?

On Nov. 8, Medaris and von Braun got what they had been waiting for— the go-ahead to try a space shot with the Jupiter C, but only if the Vanguard failed.

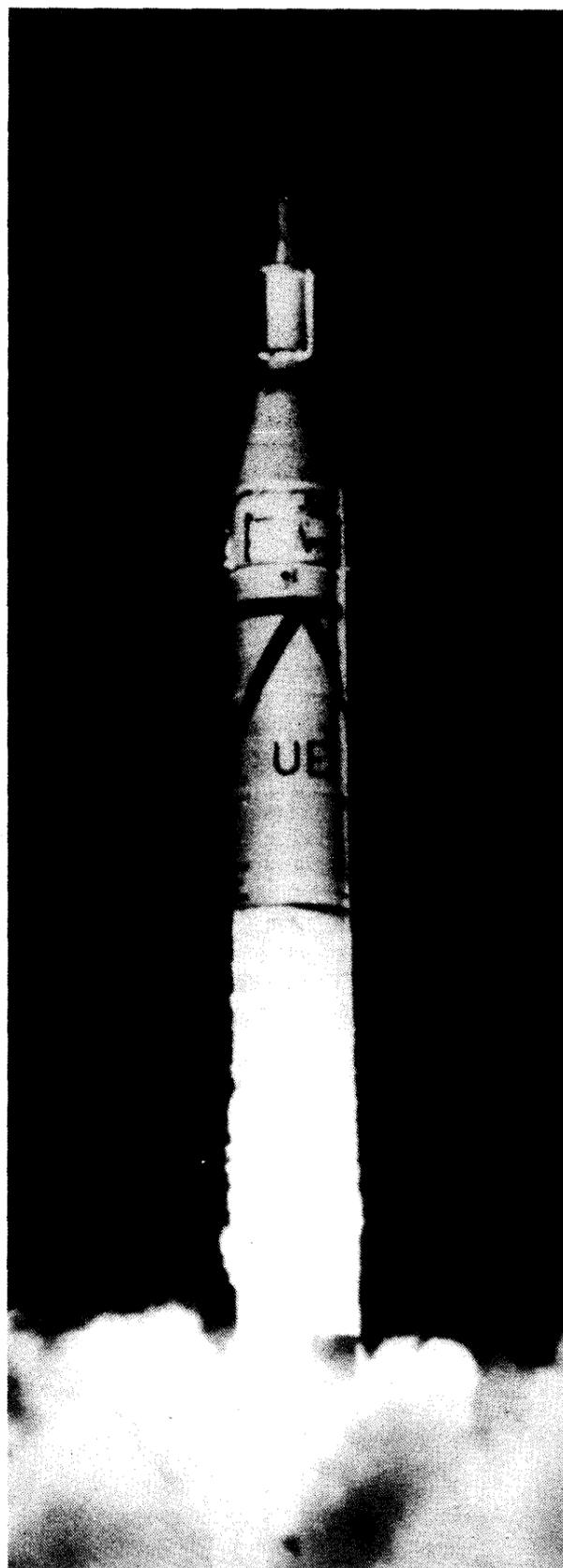
The Vanguard team tried their space shot on Dec. 6. The rocket rose a few feet, then crumpled and exploded on the launch pad. America's spirits sank even lower.

Meanwhile, the Army team was working night and day to prepare the Jupiter C for flight. It was made from an elongated Redstone with a few parts originally made for the V2 rocket. A special fuel was used to increase the thrust. On top of the Redstone was placed the "tub," containing a cluster of 11 small solid-fuel rockets— the second stage; a third stage made up of three more of the rockets; and a fourth stage consisting of a single solid-fuel rocket. On the end of the fourth stage was stuck the satellite.

On Jan. 29, preparations were complete. The missile team sat in the blockhouse with their array of primitive radio and computing equipment and waited.

The only way to determine the exact time at which to

(See Explorer, cont'd on pages 10 & 11)



INTO THE NIGHT — Jupiter C number 29 blasts off at Cape Canaveral, launching Explorer I, Jan. 31, 1958.

Joe Moquin of Teledyne Brown is also scheduled as a guest speaker.

"Old Timers," as members of the original Army missile team have come to be known, have been invited from across the country, according to Pat Saucier of the SRC.

After the speeches, the group will move to the Missile Garden, where a 4-foot model of a Jupiter C missile will be launched.

"We're going to launch our own little Explorer I," Saucier said.

For more information about the celebration, call the SRC at 837-3400.



Cost cutting

Editor:

The American Federation of Government Employees would like to take this time to thank each of you for your help in saving our step increase, our lump sum payment in our retirement, the 2 percent increase and the cost of living pay for the retirees. If the federal employees had not worked together during the budget deficit process, we would have lost it all.

As stated above, the federal workers will again be receiving a 2 percent increase in pay. This is the third year in a row Reagan has asked for that figure. In fact, if Reagan had had his way on the budget in fiscal 1986, 1987, and 1988, federal white-collar salaries actually would have declined by 1 percent. In fiscal 1986, he sought a 5 percent cut in General Schedule pay. On other civil service budget items, congressional aides expect the 1989 budget to contain many cost-cutting initiatives the White House has pushed for unsuccessfully in past budgets. These include proposals to eliminate within-grade increases in favor of performance-based or "merit pay" systems, and to increase the percentage of health care costs borne by employees under the Federal Employees Health Benefit Program.

Therefore, the work now begins on another budget. Therefore, we need your support. The big push will start when Congress goes back to work about Feb. 1. We don't know at this time what President Reagan will present to Congress that might affect federal employees.

I have talked to Maj. Gen. Thomas Reese about the budget here at MICOM. The Army had to cut about \$6 billion, so MICOM had to reduce accordingly. So, we all will need to cooperate and work together to have as little impact on our work force as possible.

AFGE Local 1858, here at Redstone Arsenal, will be celebrating its 30th anniversary all year. We are proud of this Local and all the good things that come about through your support to make this an anniversary year to remember.

We want to thank our good friend, Congressman Bill Nichols (D-Ala.), for his amendment in the budget authorization process that handed over to local commanders the authority on contracting-out for the next two years. AFGE believes this is a move in the right direction and AFGE Local 1858 stands ready to work with all commanders on all contracting-out. We are in hope there will be *none*.

Dennis Garrison
President,
AFGE Local 1858

THE REDSTONE ROCKET

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Gate complaint

Editor:

How many guards does it take to open a gate? It takes three. This seems funny when all I've heard is we've had a cut in the budget so we've had to cut our guard force. Well, if this is true, why did I see three guards on Gate 3 drinking coffee the other day?

Why did three guards have to come to Gate 2 to open this gate and the guards (all three of them) were 15 minutes late! It's kind of funny because Gate 2 used to be open for two and a half hours in the morning and in the afternoon. Now it's open for two hours in the morning and only one and a half hours in the afternoon.

A number of folks on this arsenal work from 6:30 a.m. until 3 p.m. It would be nice to get this gate opened at 3 p.m. At least if the gate was supposed to open at 3 p.m., it might actually be open by 3:30, when it is supposed to be open now.

I know you get tired of hearing people complain about the guards and the gate situations, but you'd complain too if you had to drive 60 miles round trip every day.

Name withheld by request

Sign your letter

Letters will not be considered for publication in the *Redstone Rocket* unless they are signed and contain an address or phone number for the writer. Names are withheld on request but unsigned letters will not be used. Send letters to: *Redstone Rocket*, AMSMI-IN.

Law enforcement actions listed

The provost marshal office provided the following summation of law enforcement and judicial proceedings for the Redstone Arsenal community for December:

Sentenced for driving with a suspended driver's license—Floras T. Burks, 1904 14th St., Athens; Jeffrey W. Chestnut, HHC MICOM; and Mubaarakah A. Coleman, 1128-B Buffington, Redstone Arsenal. Each was fined \$100 and required to contribute \$25 to the Victim's Restitution Fund.

Military police issued 439 citations, including 354 for speeding and 85 for other violations.

According to the provost marshal office, actions taken by commanders included:

- Sp4 Tyrone K. Edwards of A Company 73rd Ordnance, Article 15 for disorderly conduct; suspended reduction from E-4 to E-3, \$51 fine and 14 days restriction.

- Sp4 Shelia M. Edwards of A Company 73rd Ordnance, Article 15 for disorderly conduct; reduction from E-4 to E-3, seven days restriction and extra duty, \$51 fine.

Overpass closes due to damage

Redstone Arsenal motorists are advised to avoid the overpass at the Toftoy Throughway-Rideout Road intersection.

The overpass is closed to traffic and could remain closed for about two months, pending an investigation of damages, Army officials said Saturday.

Black history month activities updated

Julian Bond is the scheduled speaker for a Feb. 17 luncheon during Black History Month which officially opens here Feb. 6 with a five-mile run.

Bond, a former state senator from Georgia, is to speak at the second annual luncheon set for Wednesday, Feb. 17 at the Von Braun Civic Center. Tickets, expected to cost \$8.50, are to go on sale around Feb. 1. For ticket information, call Capt. Jim Charlton or Bonnie Kilgore of the Equal Opportunity Office here 876-9223/3591. Shuttle buses will be available for those needing transportation to the civic center.

Logistic officials meeting locally

Army officials involved in supporting weapon systems and equipment are meeting in Huntsville this week.

The Army Integrated Logistic Support Executive Committee is being hosted Jan. 26-28 by the Missile Command's ILS office. The committee, chartered last June by the Department of Army deputy chief of staff for logistics, meets quarterly at various locations in the U.S. This is its first meeting in Huntsville.

"The purpose is to provide a forum for planning, discussing and resolving ILS policy issues and for development and implementation of a Department of Army ILS program plan," said Marty Martin, acting chief of the Integrated Logistic Support office here. He defined ILS as "the planning, coordinating and acquisition of all of the activities and resources required to operate, maintain and support a weapon system or piece of equipment."

About 25 people were expected to attend the meeting at the Huntsville Marriott, including the chiefs of ILS organizations from major subordinate commands throughout the Army Materiel Command. Bill Oldham, chief of the ILS office at headquarters AMC, serves as chairman of the committee. Its first two meetings were held in Orlando, Fla., and Detroit, Mich.

Subcommittees have been assigned to research issues and concerns and to recommend solutions. The six subcommittees include ILS policy, MANPRINT (Manpower and Personnel Integration)/ILS interface, Army milestone management system, ILS reviews, ILS assessment criteria, and ILS master plan.

"The committee meets quarterly so it's an opportunity to identify and resolve and track the progress toward resolution of previously identified ILS policy problems and concerns and issues," Martin said.

Ernest Young, deputy for procurement and readiness for the Missile Command, was scheduled to give welcoming remarks. Maj. Greg Potts, from Department of Army deputy chief of staff for logistics, was slated to make a presentation on "Logistics 2010," the future of logistics in the Army.

- MSgt. Thomas F. Bennett, 95th Maintenance Company, administrative action for harassing communication; written reprimand.

- Sp4 James A. Lee (company not listed), Article 15 for larceny of government property; suspended reduction from E-4 to E-3, \$28.65 fine, 14 days extra duty and restriction.

- Pvt. Tony L. Allen, D Company 832nd Ordnance, Article 15 for AWOL; detention of \$153, reduced to E-1, 14 days extra duty and restriction.

- Pvt. James T. Toms, A Company 832nd Ordnance, Article 15 for aggravated assault and possession of illegal weapon; \$500 fine, 45 days extra duty and restriction.

- PFC Stanley C. Heston, B Company 832nd Ordnance, Article 15 for larceny; reduction from E-3 to E-2, 30 days extra duty and restriction.

- Pvt. Danny L. Delage, B Company 832nd Ordnance, general court-martial for larceny; \$500 fine, reduction to E-1, two months confinement and bad conduct discharge.

A huge crane traveling north on Rideout failed to clear and struck the underpinning early Saturday morning causing structural damage.

Officials barricaded the overpass and asked motorists to avoid the area until further notice.

Registration continues for the "Brotherhood Run" set for Feb. 6 beginning at 9 a.m. at the post gymnasium, building 3474. The cost is \$5 for those wanting a T-shirt and \$3 for those who just want to run. For registration forms, call 1st Lt. Anthony Archibald 876-3900/3903 or 2nd Lt. Constance Reese 876-1826/3791. There will also be a one-mile fun run for children.

For information about these or other Black History Month events, call Charlton or SFC Joe Waters 876-6427.

Hellfire missiles track laser energy to their targets

Editor's Note: This is the sixth in a series of articles about weapon systems managed by the Missile Command.

BY SKIP VAUGHN

A Hellfire missile homes in on its target by following laser energy beamed by a designator.

"Hellfire is the primary anti-tank weapon system on the Apache helicopter," said Dr. Marvin Carroll, deputy project manager in the Hellfire/GLD Project Office. GLD stands for ground laser designator, equipment that can be used along with this weapon system.

The Apache helicopter can generate laser energy to designate a target on its own. In order to use Hellfire, helicopters without this "autonomous capability" would require the use of laser energy beamed by another source such as GLD. For example, a soldier can designate a target while he's on the ground or another helicopter can designate the target. "It doesn't matter about the source (of the laser energy) as long as it has the proper characteristics," Carroll said.

A seeker on the Hellfire missile sees the laser energy that is reflected off the target, and directs the missile to the target. The pilot of an Apache helicopter, which can carry up to 16 missiles, has several options for using them. He can fire two missiles at the same time, for example, as long as he directs them to follow laser sources that are on different codes so that they go to separate targets.

"We have demonstrated that Hellfire can be fired from the ground, wheeled vehicles and other helicopter platforms," Carroll said. "We are just embarking upon a program to develop a ground launch Hellfire application for the 9th Infantry Division."

The Hellfire missile is about 5 feet long, 7 inches in diameter and weighs just under 100 pounds. The launch-

er in its container weighs about 260 pounds. Hellfire's range is more than three miles.

The project office was established in January 1972 and engineering development began in October 1976. Hellfire entered production in early 1982, and the number produced is approaching 9,000.

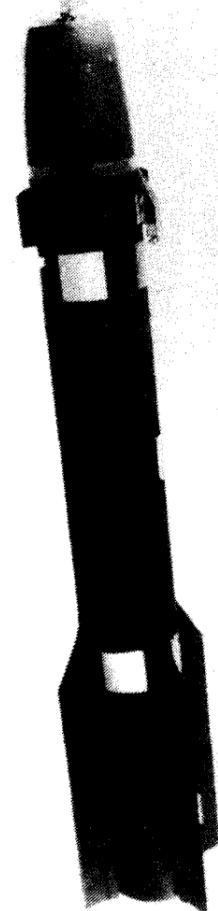
"Since Hellfire is what we call a modular missile, it will logically progress to accommodate future or more advanced seeker designs," Carroll said. Modular means "the basic Hellfire missile has been designed with sufficient design margin or stability margin so that changes in seeker weight within certain limits will not require redesign of other parts of the missile," he explained.

Besides the Army, Navy and Marine Corps, users of Hellfire include Sweden which has adapted it for ground application.

"Hellfire can be looked upon as an Army success story of system acquisition," Carroll said. "I think the success demonstrated during development is unprecedented; also the success in production, both technically and in terms of technical schedule and missile unit cost reduction, makes it a program worthy of being emulated by others." The average "fly-away" cost per missile is about \$34,000.

The approximately 100-member project office manages several designators in addition to overseeing the missile. These include the ground laser designator, and the Marine Corps' MULE (Modular Universal Laser Equipment).

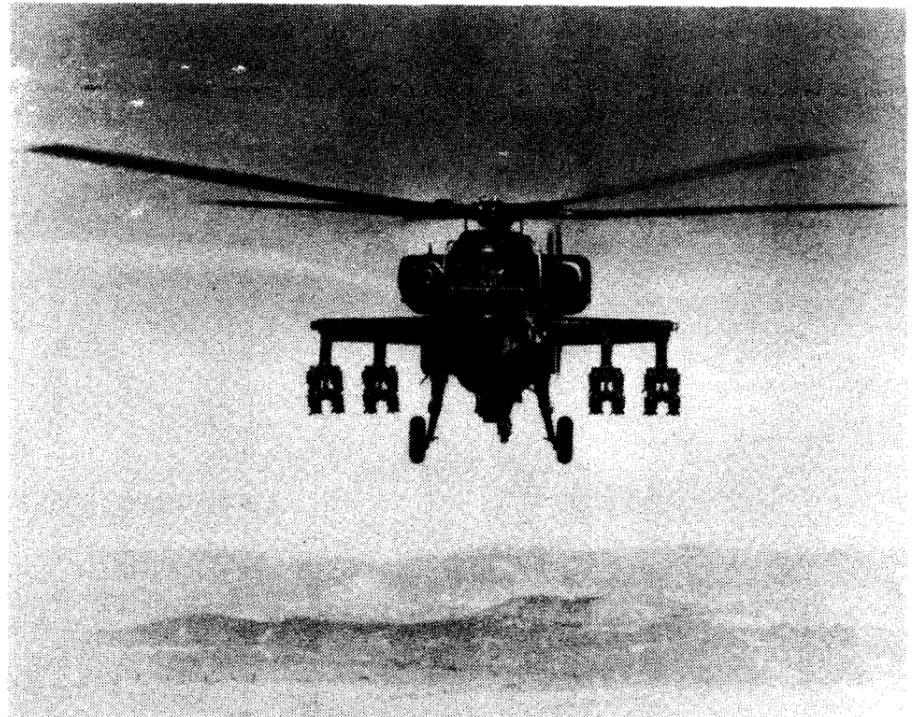
"The total success of this program has been driven by another success story which is one of having dedicated people within the organization that have a can-do attitude, pride in their work, and a willingness to go the extra mile," Carroll said.



MISSILE— The number of Hellfire missiles produced is approaching 9,000.



FIRING— A Hellfire missile is test fired from an Apache helicopter.



HEAVILY ARMED— This Apache helicopter is armed with 16 Hellfire missiles.



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Fifth grade students 'dare' to be drug free

BY RUTH MECHAM

Ridgecrest Elementary School held its first DARE graduation ceremony last week. More than 100 fifth graders received certificates from the Huntsville school system and the city police department.

DARE stands for Drug Abuse Resistance Education and is a new and unique drug program in Huntsville. The program represents a coordinated effort between the police department and city schools.

The students were congratulated by many state and local leaders who attended the ceremony. The program here started last year and was modeled after one in California, according to Dr. Mary Jane Caylor, superintendent of Huntsville schools.

"The DARE program has become very popular among students, teachers and parents," Caylor said. She went on to say that it was a collective effort involving students, teachers, parents and the Huntsville Police Department.

Police Chief Ric Ottman was also in attendance and offered a challenge to all the students. "You students are our future leaders of this country and I challenge you to be the first Drug Free generation in many years," he said.

The program originated in Los Angeles. Two Huntsville police officers were selected and along with Caylor and Ottman attended an 80 hour intense training course in Los Angeles prior to implementing the program here.

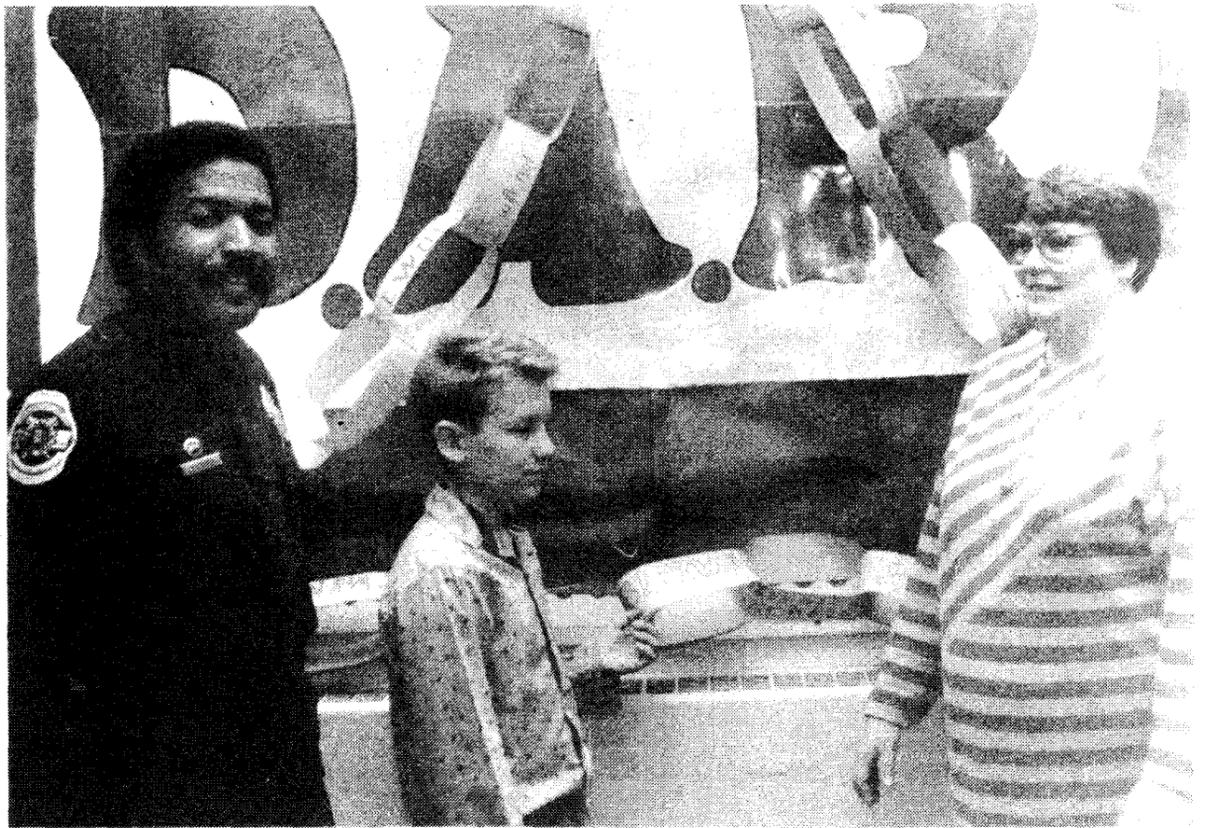
In the program, police officers visit the schools one hour per week for 17 weeks. "We feel we offer a preventive program. We also feel working with fifth graders we are reaching them before they are exposed to the drug scene," said Officer Will Culver, who is called Chill Will by his students.

Since there can't be a police officer on every corner, Culver said, the DARE program provides a different way to attack the problem of drugs. He went on to say both educators and law enforcement officials feel if they can educate young people and prevent them from using drugs they can eliminate the demand and curtail the supply.

"Our goal is to reach every child; realistically, we know we can't but if we only reach a small percentage of young children we feel like the program is still worth our effort," Culver said.

Only one of the 17 sessions is spent discussing the drugs themselves; the program gets away from the traditional so-called scare tactics. "We focus on teaching the student how to deal with and resist peer pressure, we help them work on building self-esteem and how to cope with life's pressures," Culver said.

The students enjoyed the class and all made a commitment to themselves and to each other. A paper chain was made, each link representing the commitment each student made. "I will stand by my commitment and not break the chain," said Scott Todd, son of SSgt. Kenneth and GG Todd. He also stated he felt he could resist drugs.



GRADUATE — Officer "Chill Will" joins Scott Todd and his mother as they celebrate Todd's graduation from the DARE program. Graduates make a commitment to stay drug free.

Officer "Chill Will" made the students laugh but taught them the seriousness of drugs. "We learned lots of stuff about drugs and what they do to you. We also learned it is okay to say no to drugs. I know I'm not gonna be the one to break the chain," said Dustin White, son of Sgt. Albert and Vicki Fowlkes.

Chill Will gives the credit to Caylor and Ottman for coordinating the program and to the parents for sup-

porting the program. "Everyone has been very supportive; the students, the parents, the teachers all have had an important role in making the program a success," Culver said. He went on to say he would like to see the program stay around forever. Plans are to have the program completed for all city fifth graders by the end of May, and to continue the program for fifth graders in future years.





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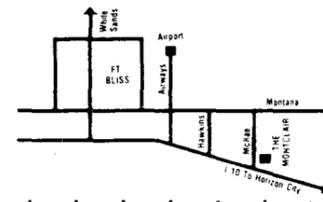
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Army Nurse Corps observes 87th year of service

BY RUTH MECHAM

The beginning of military nurses can be traced back to when George Washington recognized a need for female matrons to look after his sick and wounded soldiers.

On Feb. 2, 1901, Congress authorized the implementation of the Army Nurse Corps. This year marks 87 years of service and dedication on the part of Army nurses. During this time the corps has experienced change and growth. Changes include allowing males to join the corps in 1955 and the evolution of nursing into a highly technical profession.

"Prior to 1901, there were nurses serving in the Army, but they were civilian contractors," said Lt. Col. Dwayne Miller, chief of the department of nursing at Fox Army Community Hospital. He added that in those days, the nursing profession was not one of the best positions in society. "All nurses did in those days was meet the basic needs of patients, like feeding them, bathing them and changing bandages."

Miller recalls that there were not many male nurses when he received his degree in nursing in 1969. He was one of two male graduates in his class of 18. The Army has come a long way in setting standards for the nursing profession, according to Miller.

"There are about 20 percent males in the corps compared to 5 percent in civilian sector. Over the years nursing has become such a specialized profession especially in the Army and I think more men are choosing nursing as a career," he said.

Nursing has evolved from just maintaining patients to working with physicians in providing care. "We are the ones with the patients and the doctors rely on our opinions as far as caring for patients. We have advanced from the old way of thinking—that of the doctor knows all and what the doctor says goes—to a more collaborative effort by all health care disciplines," Miller explained.

Looking back over his 19 years of nursing service in the Army, Miller says his experience in Vietnam would be the highlight. "It was early in my career. We were all in a combat zone in one respect or another. I did things that I have never done since. We cared for people who needed caring, who's lives depended on our immediate care and we did it with very limited resources in less than optimum conditions. I look back now and wonder how we did it."

1st Lt. Nick Sengstacke, head nurse at family practice clinic, believes that his gender has nothing to do

with his abilities to provide nursing care. "I'm no different than any female nurse. I believe one reason I accepted my commission in the Army was because male nurses were more common. I think I get more respect for my abilities as a nurse and not so much emphasis on my gender," Sengstacke said. "I never considered being a male an issue. I think of myself as a nurse, not a male nurse."

Stress in the nursing profession can be hard to cope with; Sengstacke handles stress by playing soccer. "The Army has a very good physical fitness program also which helps me deal with the physical stress. In dealing with the mental stress, I feel you have to maintain a proper balance within yourself. I believe you have to be honest not only with your patients but with yourself. I believe you have to have confidence in yourself and in your abilities and if you do maintain both it will be reflective with the people you deal with."

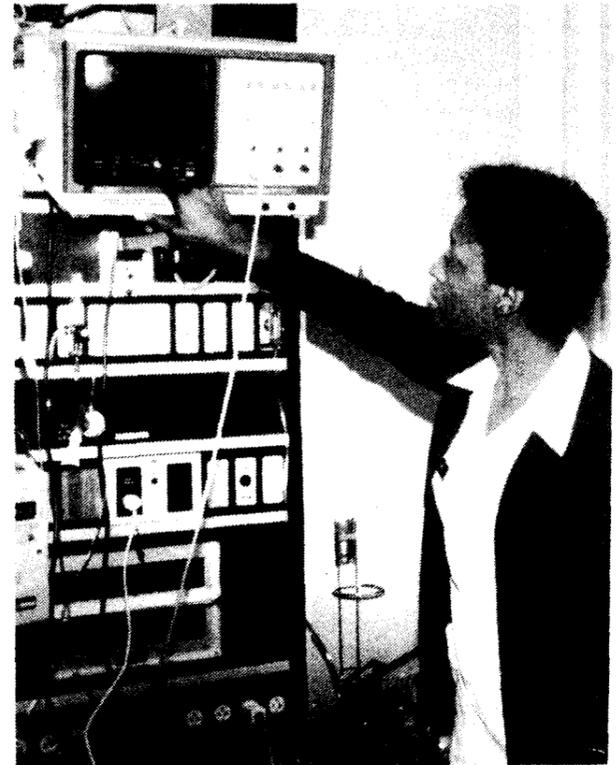
Sengstacke will not make the Army a career and will be getting out in about eight months. "I'm from Decatur, and to be honest I'm very happy here. My family is in this area, my wife and children are settled and happy and I just don't have the desire to travel. I will seek a job as a nurse in the area."

Capt. Carolyn Driver, head nurse of the intensive care unit, has made the Army a career. "I've been in the nurse corps for 10 years. I got out of the Army for a while and worked in a civilian hospital and didn't like it," she said. "The Army is more challenging, more rewarding and I feel more progressive."

"A head nurse in the Army is always offered new challenges because you rotate; in the Army you are allowed to grow and to keep learning different and new techniques. I'm part of a team in the Army."

Driver feels there is no difference between male and female nurses and in the quality of care they offer. "Providing nursing care to patients is standard, it doesn't matter what sex you are, the quality is the same."

There are misconceptions about the Army and the nursing corps, according to Driver. "I've had so many civilian nurses ask me about the corps they feel an Army nurse has more restrictions when really Army nurses have more latitude. Army nurses are trained in making decisions. During a wartime situation you have to do what you have to do to save a life and there are times when you can't wait on a doctor to make decisions. The Army puts more respon-



MONITOR — Driver checks new cardiac monitor in the Intensive Care Unit of Fox.

sibility on nurses at an earlier stage than their civilian counterparts."

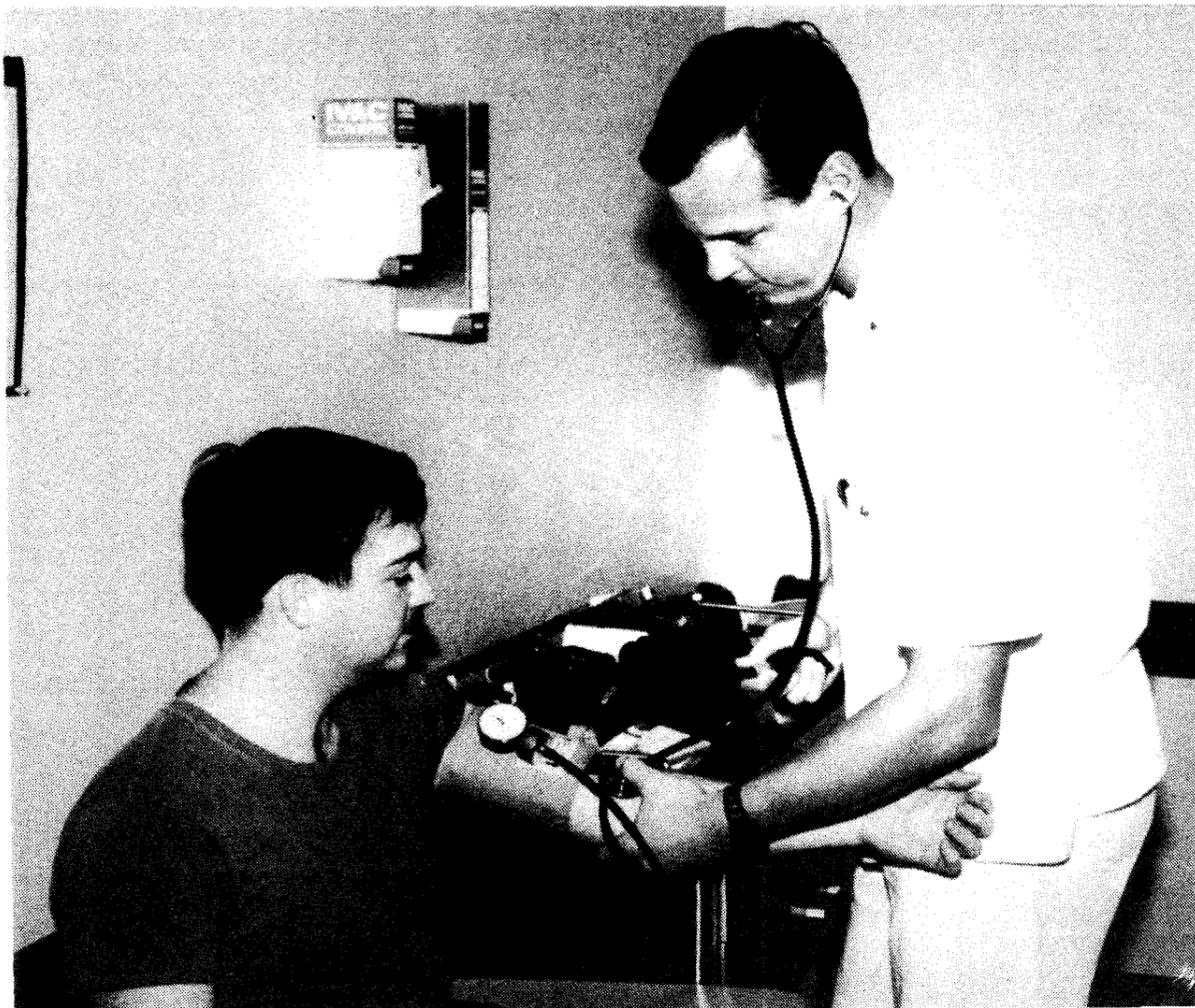
Another misconception about the nursing corps, according to Driver, is many people feel you can't have a family and serve in the Army and that if you do you will always be separated. "I have three children and so far my husband has been the one to move first and I have been able to work with the Army and get a transfer with him. The Army is committed to keeping families together as much as possible," she said.

Getting lots of rest and eating right along with plenty of exercise is how Driver deals with the physical stress of her profession. "Dealing with the mental stress is a bit harder. The Army has such high standards that you know you are giving it your best shot and if someone doesn't make it, you know inside you have done all that is humanly possible," Driver said.

The native of Slocumb, Ala., is very proud to be an Army nurse and a member of the corps. "The Army has brought out qualities I didn't know I had. I know nursing makes a difference and I'm very proud of being an Army nurse."

There are 15 corps' nurses working in different areas at Fox. They work in the emergency room, inpatient wards and clinics. There are nurse practitioners and a community health nurse who also work alongside corps members.

"We also have 26 civilian registered nurses working with our military staff," Miller said. "All the nurses are super and I'm very proud of the staff. They are all motivated, compassionate and caring people. They all know what they are here for and they do an excellent job of caring. I can't help but wonder what Gen. Washington would think if he were around today. I bet he would be proud of his association with the Army Nursing Corps."



CHECKUP — Sgt. Barry Brown receives a pre-screening nurses' assessment from Sengstacke.

Open Your Future

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Government travelers get answers to their questions

BY SKIP VAUGHN

People who travel on government business will have a chance to ask questions and voice opinions at an open forum set for 1-4 p.m. Thursday, Jan. 28 at the Rocket Auditorium.

The session is to be conducted by Lt. Col. Michael Lamb, the finance and accounting officer, along with Ann Howard, chief of the travel pay section. "Based on these surveys that we got back, there were a lot of people asking these questions; and Col. Lamb came up with this idea (for a forum)," Howard said.

Questions asked by travelers who responded to the survey more than a year ago are similar to ones the travel pay section hears every day, according to Howard.

Here are some commonly asked travel pay questions and her answers to them:

Why does the first-line supervisor have to review and sign the voucher? "This is to ensure that the traveler has claimed all the entitlements that he is due and to reduce waste, fraud and abuse."

Why don't you pay the actual cost of lodging? "We do pay actual cost of lodging up to the maximum authorized for the area concerned which is set by the per diem and allowance committee (in Washington, D.C.)."

Why are government employees forced to travel on contract air carriers? "The answer to this falls under the transportation division and you need to contact them for any answer on that," Howard said. Carole Hunt, a traffic management specialist in the transportation division of Redstone Arsenal Support Activity, said use of contract air carriers is required in accordance with guidance from higher headquarters and with the Federal Travel Directory. "Use of contract service is mandatory unless it doesn't meet the traveler's needs," Hunt said. Also, the contractor is locked in at a certain price for one year whereas another air carrier can change its fares at any time.

Why must government travelers be paid in traveler's checks?

"Effective Jan. 1, 1988, traveler checks are no longer issued," Howard said. "Advances of \$500 or less are paid in cash; over \$500, by government check."

Why must we use Diners Club cards? "The use of the Diners Club is a Department of Army directive which says that GS-11 and above and E-7 and above for military are eligible for the Diners Club. And they can only receive a 40 percent advance whether or not they have the card. And the reasoning behind this is that they can put their lodging on the Diners Club, they can put their rental car on the Diners Club. So mainly the only thing they would have to have cash money for would be their meals."

Why does it take so long to process settlement vouchers?

"We feel like this has been improved in the last eight months. We process the vouchers we receive today the next day."



TRAVEL PAY — Ann Howard, section chief, and Margaret Steele, lead voucher examiner, are members of the travel pay section of Finance and Accounting Division.

Why don't you show your computations on the travel voucher itself?

"We implemented an automated travel system Oct. 1, 1987 which produces a printout of the day-by-day expenses which should be sufficient." (A copy of the printout accompanies the voucher returned to the traveler.)

How are mileages determined? "We obtain our mileages from the official table of distance (Army Regulation 55-60). Say you were traveling from Huntsville to Fort Lee, Va. We would go to the AR and find

the official mileage for that distance— 646 miles, that's the mileage we are limited to. We'd pay 21 cents a mile."

The travel pay section has published a traveler's guide which tells the do's and don'ts of travel, how to prepare vouchers, and all the required statements necessary. It also gives the per diem rates for the different areas. A traveler's guide can be obtained by calling the travel pay section at 876-1706.

"We're putting forth our best effort and we will continue to serve the traveler," Howard said.



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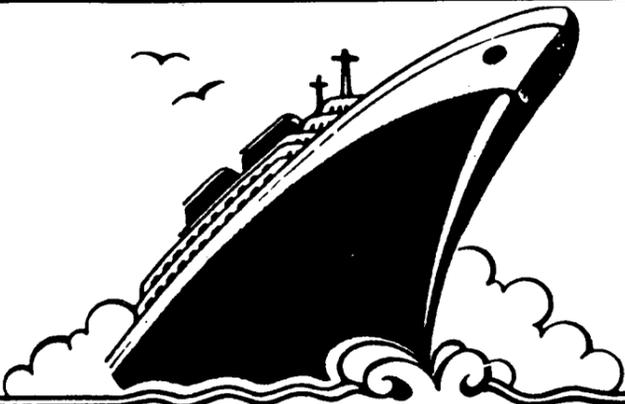
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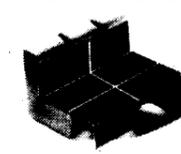
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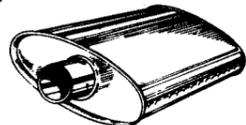
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A DIVISION OF THE SOUTHLAND CORPORATION

Soldier bowls first 300 game ever at Redstone

The final game in a three-game series was the charm for a soldier who made Redstone Arsenal bowling history on Tuesday night, Jan. 19.

SFC Gary Miller of HHC bowled what officials say is the first 300 game ever at Redstone. It came in league play matching the HHC-1 team against the C Company 73rd-2 team.

Miller bowled a 175 and lost his first game, then rolled a 209, and finally the history-maker. It was his first perfect game ever.

"The first nine strikes didn't bother me too much because I've done it three times before but when I carried the first one in the 10th frame, that was when it got really nerve-racking," he said. "The last one was even worse. When I was standing there after I had thrown the 11th strike, my knees were just shaking so bad I didn't know if I was going to be able to get the ball out of my hand or not."

He did. And after that 12th strike, he received so many congratulations that he estimates it took him 10 minutes to get off the alley. For the record, Miller and

his teammates— MSgt. Gary Carpenter, Sgt. Adolfo Soriano and SFC Danny Berardi —won the match with 22 and a half points out of a possible 25.

The 36-year-old from Eugene, Ore., has been bowling since he was 16. He resumed bowling last September after a three-year layoff due to recruiting duty. Miller bowls twice a week— once on post and once downtown at Pin Palace. "I'm averaging 171 at this house (Redstone lanes)— of course my average jumped with this 300 game," he said, laughing. "Downtown, I'm averaging 183."

Miller, NCO-in-charge at the inspector general's office, had a previous personal best game of 279. He had two of those and one 278. This was the first time he had ever gotten more than nine strikes in the same game. "It was unbelievable," he said. "I don't think it'll really sink in before they give me the ring." Once verified, a 300-game bowler receives a ring from the American Bowling Congress.

A 300 game is considered rare. Only 24 were recorded in Huntsville from 1962 through last summer. Of-

ficials here agreed this was the first perfect game ever at the Redstone lanes.

"As far as I know this was the first 300 game bowled here. I've been here 11 years," said Billie Kuhn. She became manager of the bowling center last December.

"I'm still on cloud nine," said Miller, a day after his feat.

Troop intramural bowling standings

Here are the troop intramural bowling standings as of Jan. 21:
Tuesday's Conference

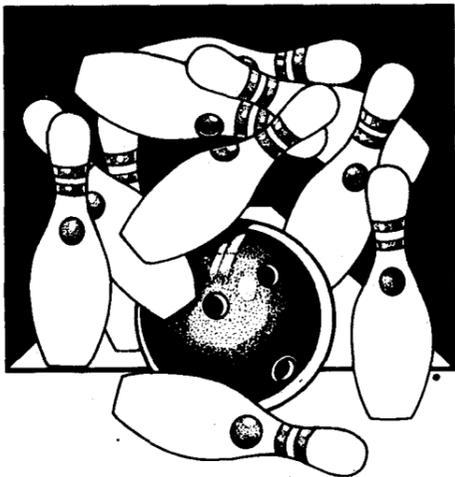
	Won	Lost
HHC-1	352	73
C Company 73rd-1	344.5	80.5
HHC-3	295	130
C Company 73rd-2	266.5	158.5
Marines-2	253.5	171.5
MEDDAC-1	249	176
D Company 832nd-1	214.5	210.5
TMDE/95th	197	228
MEDDAC-2	175	250
A Company 73rd-2	145	280
291st MPs	134.5	290.5
SSO, RDS	118.5	306.5
A Company 73rd-3	110.5	314.5
C Company 832nd	79	346

200 games/600 series bowled on Jan. 19:
Gary Miller a perfect 300, 209, & 684 series
Chuck Gensel 213
Mike Liston 205

Thursday's Conference

	Won	Lost
A Company E&TTD	323	77
B Company 73rd-1	314	86
Marines-1	296.5	103.5
HHC-2	240.5	159.5
HHC-4	231.5	168.5
B Company 73rd-2	226	174
A Company 73rd-1	205.5	194.5
B Company SAD	185	215
B Company EOD	165.5	234.5
D Company 832nd-2	147	253
B Company 832nd	144	256
515th-1	140	260
515th-2	107	293
HHD	52.5	347.5

200 games bowled on Jan. 21:
Ed Smith 226
Mick Gabree 219
Dave Hahn 216 & 200
Chuck Buxton 212
Keith Wartens 212
Jerry Dunaway 203
Jim Stracke 203
Doug Dixon 202
Angel Santos 201
Aaron Zook 201



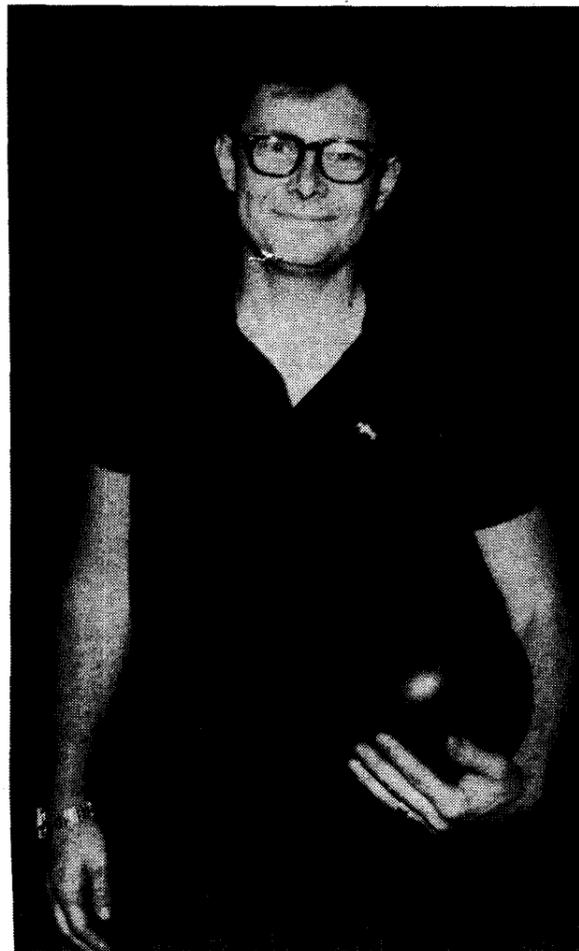
Bowling center

The Redstone bowling center is open to federal civilian workers and contractors on the arsenal as well as military people.

"We're very agreeable to opening the bowling alley anytime that we can to accommodate a league," said Stuart Soffer, chief of community operations division in the Directorate of Community and Family Activities. "And we also have open bowling; and children's bowling on Saturday morning.

"I don't think contractors and civilian employees on the arsenal are aware they can use the bowling alley and they need to be aware of it," Soffer added.

For more information call Billie Kuhn, manager of the bowling center, at 881-1780.



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Hannaway Hall dedicated in memory of soldier

BY TAB SHIOTA

The Hawk Systems building of Ordnance Missile and Munitions Center and School is now dedicated in honor of an enlisted soldier, the first to be so dedicated on Redstone Arsenal.

Building 3307 is now named Hannaway Hall in honor of the late MSgt. Robert E. Hannaway, who served as both a military and civilian instructor of the Hawk missile system. He did most of his teaching in building 3307.

During the dedication ceremonies, Huntsville Mayor Joe Davis said that the dedication was a small but meaningful tribute to a real patriot. After Davis' remarks OMMCS Commandant Col. Paul A. Wilbur and Carolyn Hannaway, widow of the honoree, unveiled a portrait of Hannaway and the flag used at his funeral. Hannaway died in 1984 of a heart attack.

Hannaway was born in New York City. He grew up in Philadelphia and entered the Army at Camp Breckenridge, Ky., in 1952. Throughout his career, he sought to improve himself and others. As the Hawk missile system continually improved, so did Hannaway, spending many off-duty hours studying it.

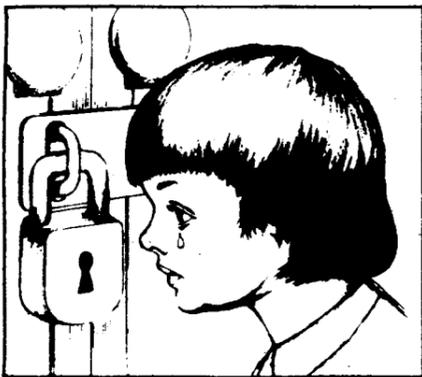
He was so successful at this, that when he was an instructor at OMMCS, he earned the "Outstanding Instructor" award several times.

Hannaway retired from active service in 1979 and became a training specialist at OMMCS. He developed the original program of instruction for the Ordnance Officer's Advanced Course, writing the majority of the common subject lesson plans.

During his career Hannaway earned the following awards: the Meritorious Service Medal, the Army Commendation Medal, seven awards of the Good Conduct Medal, the Armed Forces Expeditionary Medal, the National Defense Service Medal, the Vietnam Cross of Gallantry with palm, the Vietnam Campaign Medal and the Special Act (Civilian) Award.



UNVEILING— Col. Paul Wilbur and Carolyn Hannaway unveil a portrait of the late master sergeant.



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Chi Ho has served Huntsville for 15 years, but now needs Huntsville's help. Chi Ho must raise \$130,000 by May 1, 1988 to purchase their facility. An additional \$40,000 is needed to repair and prevent structural damage. Federal funds cannot be used to purchase property, so the entire amount must be raised from local contributions.

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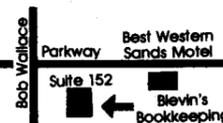
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Explorer

(Cont'd from page 1)

fire the solid propellant stages was through a series of computations to estimate the apex of the missile's trajectory. Stuhlinger, along with teammate Walter Haeussermann, had the job.

"I had built a little analog computer. People would look at it today, and shake their heads," he said. Actually, he built two of the rudimentary computers. One for himself and one for Haeussermann. They called them "apex time predictors." They used nomographs and stopwatches to collect flight data, and then fed the data into the computers, which were designed to fire the stages automatically through a radio signal. Stuhlinger and Haeussermann also had a manual backup system for firing.

After two days of waiting for the winds to calm, Medaris and team Director Kurt Debus agreed to give the order for launch.

Stuhlinger remembers his feelings as the rocket roared into the night.

"I felt, as the thing was going up, 'on the thin thread of that satellite hangs the fate of the free world,'" he said.

It worked. But nobody knew for sure whether the satellite had reached orbital velocity until the Jet Propulsion Laboratory sent word that it was picking up a radio signal.

Ferrell was test director and head of the ABMA Field Office at Cape Canaveral at the time of the launch, and was in the blockhouse that night.

"Every time we had a stoppage (of the countdown) for something not working right, everyone almost had heart failure.

"It was very crowded. The launch was a relief, and when we knew we had obtained orbit, everybody in there let out a scream. We realized we had done it!"

It was official. America, and Huntsville, had entered the Space Age. Downtown, people jammed into the courthouse square, dancing and waving signs.

William McMahan, a technician with the TMDE Support Group, remembers the noise of the celebration. At the time, he was an instrumentation technician, and had worked on Jupiter C number 29.

"I remember they had quite a celebration downtown. I could hear it all the way to where I lived," he said. "Not only seeing history made, but sharing in it, is a good feeling."

Tom Moore, an American who had joined the von Braun Team at Fort Bliss before they moved to Redstone, took part in the revelry at the square that night. Moore, who also works for the TMDE Support Group, figures it must have been a good feeling to know Explorer would be circling the Earth for several years.

"They knew they had it in orbit, but it must have been so satisfying to have it come around an hour and a half later and receive it on the radio. It's one thing to have it go, and quite another to have it go all the way around."

Walt Wiesman was out of town when Explorer I was launched, but he was a part of the team that came out of Germany to the United States after World War II. Wiesman worked as a logistical troubleshooter and participated in organizational communication with ABMA. After his retirement from NASA, he went to work for the Huntsville-Madison County Chamber of Commerce. As far as he's concerned, Explorer and projects like it made Huntsville the city it is today.

"To me, Huntsville's spirit today is basically founded on the spirit established by the kind of projects we did here between 1950 and 1960," he said.

Stuhlinger echoed that sentiment, and asserted that the space race had more profound effects.

The launch of Explorer I "was a very conspicuous milestone, not only for scientific research, but it was a strong factor in international diplomatic relations," he said, adding that there was a second, equally important development.

"All of us realized we really have to compete. We realized we had to do more for education— math and engineering.

"Another important point which should have struck home, and did with the politicians, was that it (Explorer I) was a strong element in the sympathy of the people. We were sitting in the same boat as a nation. It came out again with Apollo. People were ready to be

involved— thinking, hoping and being proud," he said.

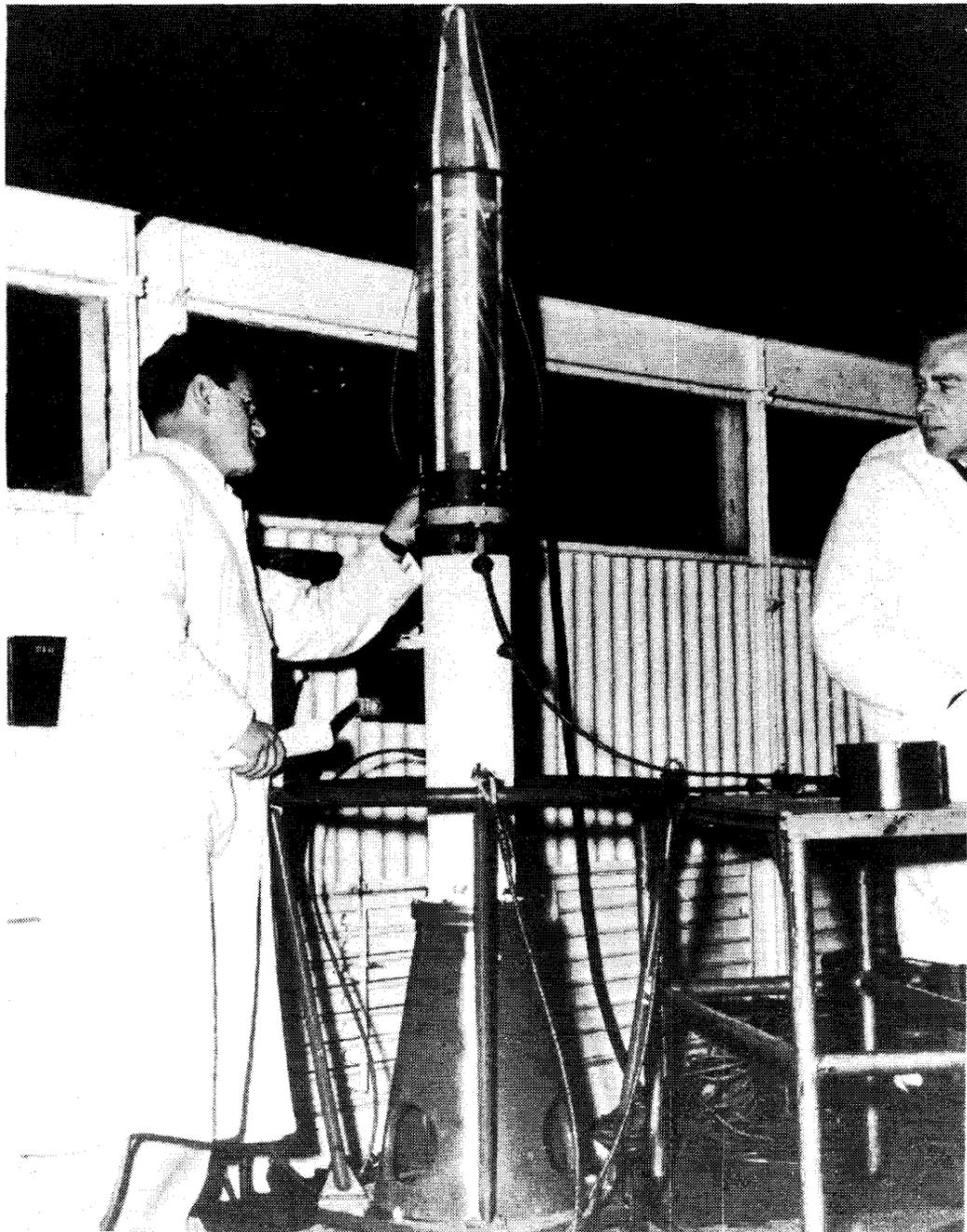
Explorer I circled the Earth for 12 and a half years— longer than anyone predicted. It also confirmed the existence of the Van Allen belts— bands of radiation surrounding the Earth. It was still there when, just 11 years later, man took his first steps on the moon.

Explorer I gave to us a new age which captured the

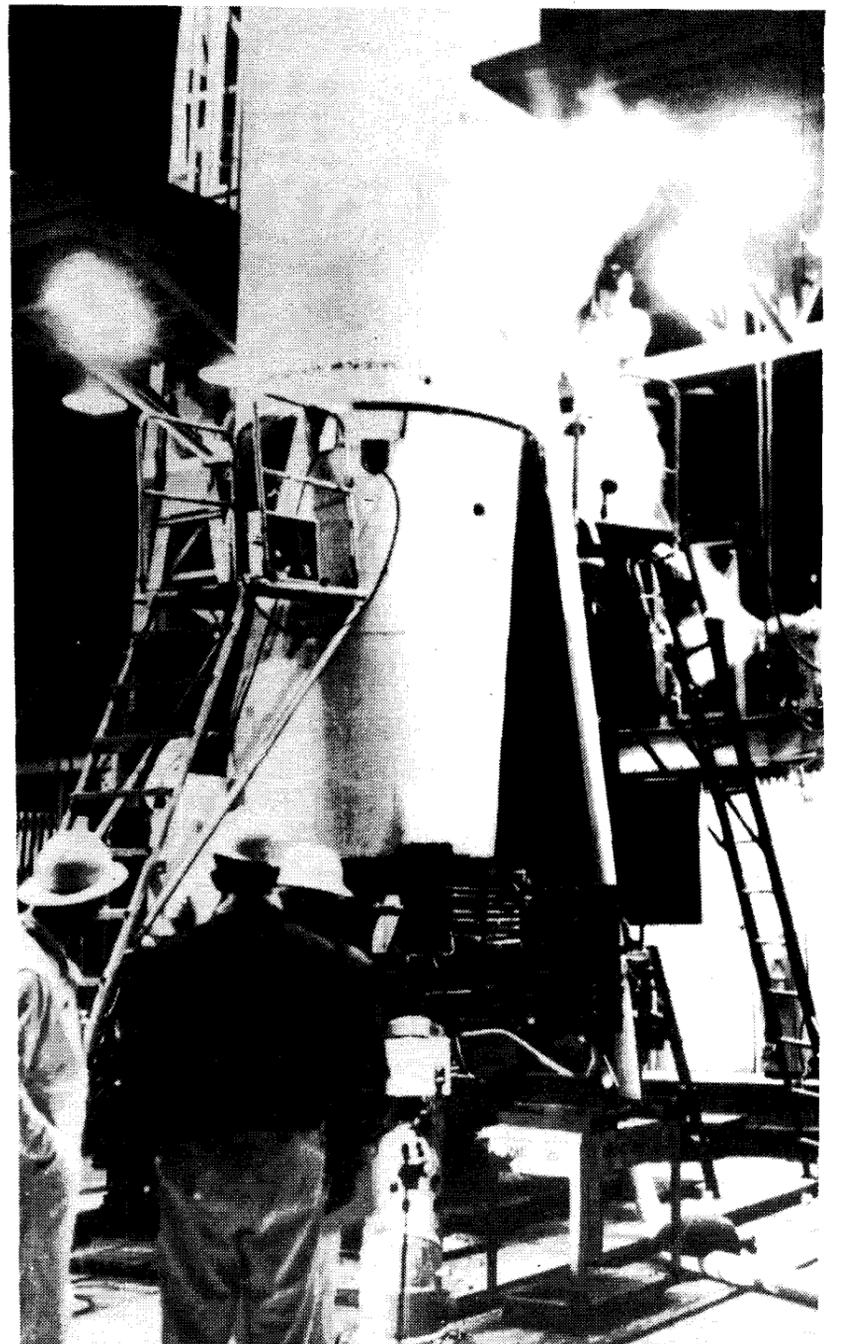
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A



SATELLITE TALK — Discussing the Explorer I are (standing, from left Stuhlinger. Seated from left are Dr. Eberhard Rees, Maj. Gen. J



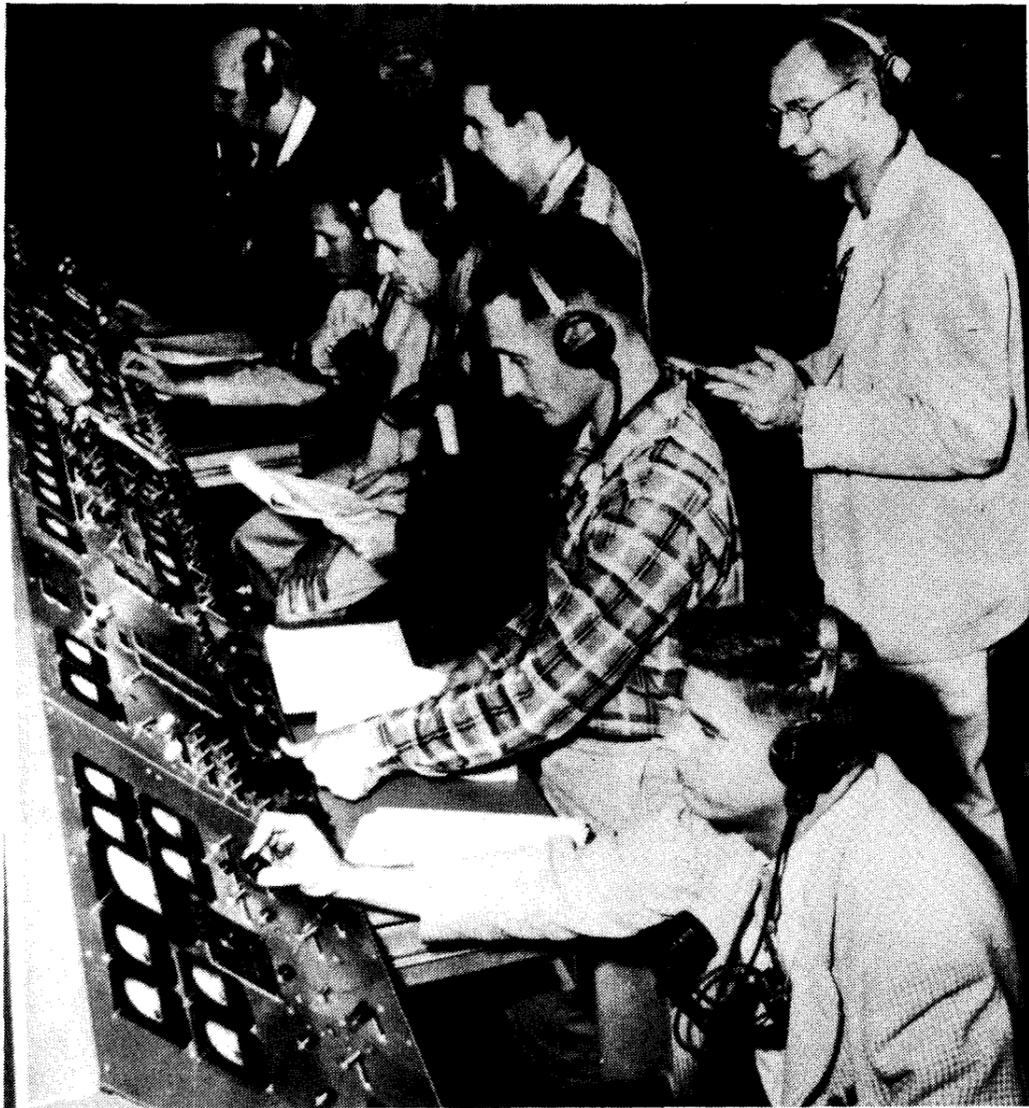
EXPLORER I — Adjustments are made to the satellite before launch.



LAUNCH VEHICLE — Final pre-launch preparations are made to Jupiter C numbe

ation of the nation. Together, we celebrated
ig achievements. And together, we mourned
loss of life.

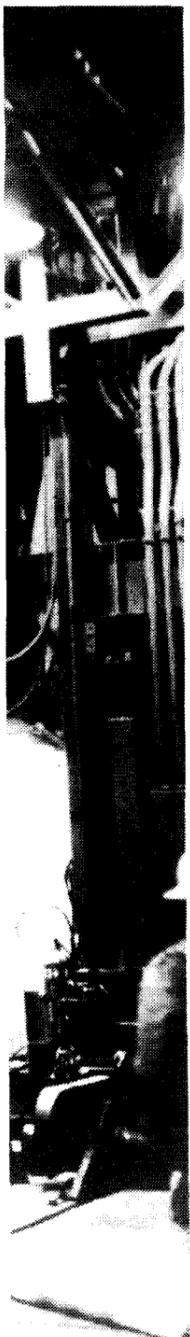
space program may not be as far along as some
might have hoped, and it may not have the
sal approval it once did. But it's alive and well,
ill letting us look to the stars.
l an Army rocket started it all.



MISSION CONTROL — Members of the Army missile team check readouts on the launch control panel.



Dr. William A. Mrazak, Dr. Walter Haeussermann and Dr. Ernest Bruce Medaris and Dr. Wernher von Braun.



HUNTSVILLE CELEBRATION — Fireworks were part of the party in the streets of Huntsville the night of Jan. 31, 1958. Preparing to set off another are, from left, Jimmy Walker, Mayor R. B. "Spec" Searcy, and Dorsey Uptain. Dorsey and Up-

tain were both Chamber of Commerce officials. Standing behind them is Stuart Jones, who was head of personnel for Redstone.

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CLEM NOLAN



APPRECIATED— Two Redstone Arsenal boys recently received certificates of appreciation from Col. James A. Hall, deputy post commander, for reporting a fire in family housing. From left are Janice Stephenson, David Stephenson

(with certificate), Lt. Col. Ray Stephenson, Fire Chief Sam Taylor, Maj. James Barnett, Edward Barnett (with certificate), Katie Barnett, and Betty Barnett.

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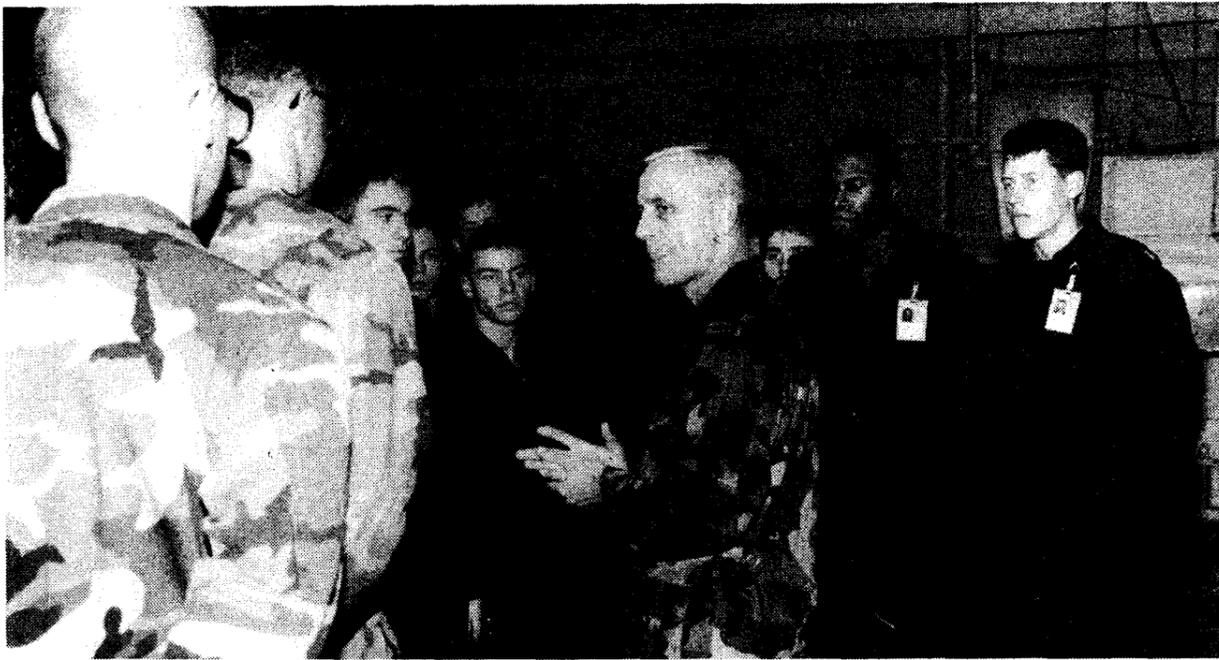
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TOP VISITOR— The Sergeant Major of the Army, Julius W. "Bill" Gates, addresses a group of AIT students in the land combat training department during a recent visit to the Ordnance Missile and Munitions Center and School. Gates, who

became the Army's top enlisted soldier last June, ended his visit by meeting with the senior noncommissioned officers of OMMCS at the post theater.

OMMCS groups receive awards

Two organizations of Ordnance Missile and Munitions Center and School were recently commended as being the best in the Training and Doctrine Command.

Company A, 832nd Ordnance Battalion, was recognized for having the best troop housing area for TRADOC schools on non-TRADOC installations and the 832nd Ordnance Battalion's Field Training Center was praised for having the best field training exercise area on a non-TRADOC installation.

Both awards were presented by Col. Paul A. Wilbur, the OMMCS commandant, during a brief ceremony. The judging for the awards took place last June.

Capt. Larry D. Turner, commander of A Company, praised the hard work of students and drill sergeants to win the award. He also cited Capt. April Liberg, former commander of A Company and 1st Sgt. David Humiston, in motivating and leading the efforts of improving the company area.

1st Lt. David Rowell, officer-in-charge of the field training center, said that the dedicated, hard work of his cadre made the difference. Without their attention to detail and striving to meet TRADOC regulation requirements, the winning of the award would not have been possible, he said.

This is the third year of the Installation of Excellence Award program. Through the program, all TRADOC installations compete in several different categories, with the overall goal of improving the training given to soldiers at these installations.

General Schedule salary chart

The following is a civilian pay chart reflecting the salary increase effective Jan. 1, 1988

	Step 1	2	3	4	5	6	7	8	9	10
GS-1	\$9,811	\$10,139	\$10,465	\$10,791	\$11,117	\$11,309	\$11,631	\$11,955	\$11,970	\$12,275
2	11,032	11,294	11,659	11,970	12,103	12,459	12,815	13,171	13,527	13,883
3	12,038	12,439	12,840	13,241	13,642	14,043	14,444	14,845	15,246	15,647
4	13,513	13,963	14,413	14,863	15,313	15,763	16,213	16,663	17,113	17,563
5	15,118	15,622	16,126	16,630	17,134	17,638	18,142	18,646	19,150	19,654
6	16,851	17,413	17,975	18,537	19,099	19,661	20,223	20,785	21,347	21,909
7	18,726	19,350	19,974	20,598	21,222	21,846	22,470	23,094	23,718	24,342
8	20,739	21,430	22,121	22,812	23,503	24,194	24,885	25,576	26,267	26,958
9	22,907	23,671	24,435	25,199	25,963	26,727	27,491	28,255	29,019	29,783
10	25,226	26,067	26,908	27,749	28,590	29,431	30,272	31,113	31,954	32,795
11	27,716	28,640	29,564	30,488	31,412	32,336	33,260	34,184	35,108	36,032
12	33,218	34,325	35,432	36,539	37,646	38,753	39,860	40,967	42,074	43,181
13	39,501	40,818	42,135	43,452	44,769	46,086	47,403	48,720	50,037	51,354
14	46,679	48,235	49,791	51,347	52,903	54,459	56,015	57,571	59,127	60,683
15	54,907	56,737	58,567	60,397	62,227	64,057	65,887	67,717	69,547	71,377
16	64,397	66,544	68,691	70,838	72,500	73,660*	75,765*	77,870*	79,975*	
17	73,958*	76,423*	78,888*	81,353*	83,818*					
18	86,682*									

*Salary limited by Sec. 5308,5 USC, to level V of Executive Schedule — \$72,500.

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The new tax law: Questions and answers on itemizing

The Tax Reform Act of 1986 will have an impact on taxpayers who itemize on their returns. The Internal Revenue Service has compiled the following questions and answers about itemized deductions:

Q. Will I still be able to take a deduction for medical and dental expenses?

A. Yes, but deduct only the reimbursed part that is more than 7.5 percent of your adjusted gross income.

Q. What interest deductions am I allowed to take on my home?

A. Generally, if you itemize deductions on Schedule A, Form 100, you can deduct all mortgage interest on your principal residence and a second residence for all mortgages secured on or before Aug. 16, 1986. On mortgages secured after that date, you will generally be limited to deducting interest only to the extent that the loans are not more than the purchase price, plus the cost of improvements.

Q. Can I deduct loan interest on a mortgage secured after Aug. 16, 1986, that is in excess of the purchase price plus the cost of improvements?

A. Yes, if the mortgage interest result from borrowing money for qualified medical or qualified education purposes.

Q. Will I still be able to deduct the interest on my car loan and credit cards?

A. The deduction for personal interest is being phased out. The deduction will be limited to 65 percent in 1987, 40 percent in 1988, 20 percent in 1989, 10 percent in 1990 and zero percent thereafter. For this purpose, any interest that you cannot deduct because of the home mortgage limitation, discussed in the

preceding two questions, will be considered personal interest.

Q. Can I still deduct sales taxes?

A. No, taxpayers can no longer deduct state and local sales taxes.

Q. Are there limitations on deducting employee business expenses?

A. Yes. Except for reimbursed expenses and moving expenses, employee business expenses will generally be deductible as a miscellaneous itemized deduction and only to the extent that they exceed 2 percent of adjusted gross income.

Q. Are there taxpayers who must itemize deductions?

A. Yes. Some taxpayers must itemize deductions. For example, when married taxpayers file separate

returns and one spouse itemizes deductions, then the other spouse must also itemize.

Q. Can I continue to take a charitable contribution deduction without itemizing?

A. No. A charitable contribution is deductible only for taxpayers who itemize.

Q. How are moving expenses deducted?

A. Moving expenses of an employee or self-employed individual are now allowed only as an itemized deduction. This deduction is not subject to the new 2 percent of adjusted gross income limitation.

Q. Are adoption expenses still deductible?

A. Adoption expenses are not deductible. Adoption expenses for a child with special needs were allowable as an itemized deduction under prior law, but can no longer be deducted.

'86 Tax Reform Act repeals provisions

The Tax Reform Act of 1986 repealed many familiar provisions of tax law. Some of the more important are listed below:

Personal Exemptions for Dependents— If an individual qualifies to be claimed as a dependent on another person's income tax return, the dependent may not claim a personal exemption on his or her own return. This rule took effect in tax year 1987.

Two-Earner Deduction— There will no longer be a special adjustment to income when both the husband and wife have earned income, effective for 1987.

Income Averaging— Income averaging is repealed, effective for 1987.

Unemployment Compensation— The former limited exclusion has been repealed. All unemployment compensation benefits are includable in gross income, beginning in 1987.

Charitable Deduction for Non-Itemizers— Beginning in 1987, the charitable deduction for persons who don't itemize their deductions is terminated.

State and Local Sales Taxes— The itemized deduction for state and local sales taxes is repealed, beginning in 1987. The deductions for state and local income, real estate and personal property taxes are retained.

Dividend Exclusion— The \$100 dividend exclusion (Cont'd on page 17)

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Teams break scoring records in CWF

The 76ers and MSID set new scoring marks enroute to identical 5-0 records in Civilian Welfare Fund basketball.

MSID, which is averaging 119.8 points per game, scored a record-breaking 151 against the MSIC-1 team. The 76ers, averaging 108.7 per game, broke that record by scoring 159 against the MSL-2 team.

Leonard Gurley pumped in 33, Tommy High 30, John Petty 25, Tony (full name unavailable) 23, and Terry Whitman 13 in MSID's 151-95 win over MSIC-1. For MSIC-1 Ken McCormick scored 19 while John Warren, Dave Smith and Bill Adams each contributed 13.

Clyde Hobbs scored 48, James Stevens 31, Derrick Lewis 26, Larry Cable 25 and Cleveland Billups 12 in the 76ers' 159-86 win over MSL-2. For MSL-2 Don Fortune hit for 26, Artro Whitman 25 and Frank Lindsey 12.

In other games P&P-2 pounded Product Assurance 124-60, Stars beat Servicemaster 87-73, CPO defeated MSIC-1 team 77-70, Untouchables mashed MSIC-2 team 61-30, and the Celtics trounced TMDE 98-70. TMDE won by forfeit over Pershing.

Dewayne Moore tossed in 29, Dante Emanuel 24,

Joe Carter 23 and Calvin Boone 11 as P&P-2 whipped Product Assurance. Jonathan Chandler countered with 19 for the losers.

A. Gibson scored 42, Calvin Parker 17 and Wayne Gore 10 in the Stars' win over Servicemaster. Don Davis hit for 33 and John Jackson 20 to lead Servicemaster.

Lorenzo Jones pumped in 30, Bobby Lightner 22 and Roger Watson 10 as CPO beat MSIC-1. McClure (full name unavailable) countered with 31 and Ken McCormick 20 for MSIC-1.

Steve Williams scored 19, Molly Copeland 12 and Eric Edwards 10 in the Untouchables win over MSIC-2. Darren Newberry led MSIC-2 with 12 points.

Gary Davis hit for 20, Henry Jones 18 and Neal Todd 14 as the Celtics beat TMDE. Steve Burgess countered with 26 followed by Greg Ingrum and Sam Wood, each with 15, for the losers.

Troop basketball

Here are the standings for troop basketball as of Jan. 21:

Eastern Conference		
	Won	Lost
D Company 832nd	6	1
A Company 73rd	4	1
B Company 73rd	3	2
C Company 832nd	3	3
291st MPs	1	6
95th	0	4

Western Conference		
	Won	Lost
NCOA	5	1
HHC	4	1
B Company 832nd	4	2
515th	4	3
C Company 73rd	2	4
Marines	2	4
Meddac	0	6



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P175/80-13	39.00	P205/75-15	48.50
P185/80-13	40.00	P215/75-15	50.50
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9 February, Non-Priority

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BU396 Government Contract Law	5	Rau
BU397 Procurement Contract Negotiation	5	Smith
EC415 Managerial Finance	5	Edmondson
HY435 History of the Middle East	5	Hayes
PO453 International Politics	5	Joiner
Tuesday 5:00 - 9:20		
AR340 The Visual Arts	5	Johnson
BU305 Statistical Methods of Bus. (Lab Fee)	5	Burton
BU398 Federal Contract Negotiation	5	Smith
BU435 Personal Finance & Investments	5	Sproul
MA301 Pre-Calculus	5	STAFF
Wednesday		
BU311 Legal Studies in Bus. I	5	Colane
BU395 Price & Cost Analysis	5	Landroop
GS302 Earth Science	5	McNutt
MG433 Labor Relations	5	Lambert
PS368 Industrial & Personnel Psy.	5	Kennedy
BU368 Industrial & Personnel Psy.	5	Kennedy
Thursday 5:00 - 9:20		
AR300 Drawing	5	Green
BU301 Micro-Computer App. for Bus. (Lab Fee)	5	McCall
ISM300 Industrial Security Management	5	Scott
MG420 Strategic Management	5	Campbell
PH300 Moral Values in Today's Society	5	West
SO300 Moral Values in Today's Society	5	West
PS403 Seminar in Parapsychology	5	Slate
Friday 5:00 - 9:20		
BU305 Statistical Methods of Bus. (Lab Fee)	5	Burton
MMCS TUESDAY 4:30 - 9:50		
VE434 Occupational Analysis	5	Brown
MMCS THURSDAY 4:30 - 9:50		
VE432 Methods of Teaching Voc. Ed.	5	Tomlinson

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Tax law means changes for IRA eligibility, deductions

The Tax Reform Act of 1986 included significant changes affecting individual retirement arrangements.

The new rules, which generally took effect on Jan. 1, 1987, include new eligibility requirements for individuals who claim deductions for an IRA. The new eligibility requirements are based on the size of the taxpayer's adjusted gross income and whether the taxpayer is an active participant in any type of employer-maintained retirement plan.

Under the new law, taxpayers can claim the maximum deduction for IRA contributions (\$2,000 or 100 percent of compensation, whichever is less), only if they meet one of the following criteria:

- The individual is not an active participant (or in the case of a married couple, neither spouse is an active participant) in an employer-maintained retirement plan during the year, regardless of the amount of the taxpayer's adjusted gross income; or

- The individual (or in the case of a married couple, either spouse) is an active participant in an employer-maintained retirement plan and the taxpayer's adjusted gross income is less than \$40,000 for a married couple or \$25,000 for a single individual.

If an individual (or, in the case of a married couple, either spouse) is an active participant in an employer-maintained retirement plan, the maximum allowable deduction for contributions to an IRA will begin to phase out when the adjusted gross income reaches \$25,000 (\$40,000 for a married couple). When the adjusted gross income reaches \$35,000 (\$50,000 for a married couple), no deductions are allowed for IRA contributions.

While many taxpayers may have their deductible IRA contributions reduced or eliminated due to the new eligibility requirements, they will be able to continue making non-deductible contributions to a new or an existing IRA. As with the earnings on deductible IRA contributions, any earnings realized on non-deductible IRA contributions are not taxed until distributed to the taxpayer. This normally happens at retirement, when the individual may have a lower taxable income.

The new law also includes changes in the rules concerning spousal IRA deductions, qualified voluntary employee contributions and the purchase of gold and silver coins for an IRA.

The spousal IRA provisions have been changed to eliminate the requirement that the spouse have no compensation in the year in order to be eligible for the spousal IRA contribution.

The new law repeals the IRA deduction previously allowed for voluntary employee deductible contributions to a qualified plan. Also, beginning in 1987, taxpayers are allowed to establish an IRA by investing in certain gold and silver coins issued by the United States.

Other basic tax rules concerning IRAs have not been affected by the new law. Taxpayers may continue to establish or contribute funds to an IRA at any time during the tax year and the following year, up to the due date for filing their tax return, without extensions.

Taxpayers who withdraw funds from an IRA before age 59½ are required to pay an additional 10 percent tax, unless the withdrawal was due to the death or per-

manent disability of the taxpayer or was due to a return of non-deductible contributions. Taxpayers may also continue to make tax-free rollovers, either from one IRA to another or from an employer-maintained retirement plan to an IRA.

Additional information concerning the new rules affecting IRAs is contained in IRS Publication 5901, *Individual Retirement Arrangements (IRAs)*. Taxpayers can obtain a copy of the publication by writing their IRS office or by calling 1-800-424-3676.



Provisions

(Cont'd from page 15)

for individuals (\$200 for a joint return) is repealed, beginning with tax year 1987.

Political Contributions Credit— The tax credit for political contributions is repealed, beginning in 1987.

Investment Tax Credit— With certain exceptions, the new tax law repeals the regular investment tax credit for property placed in service after Dec. 31, 1985.

Personal Exemptions for Age and Blindness— Starting in tax year 1987, there is no longer an additional personal exemption for blindness or age. However, an individual who is 65 or older or blind may be entitled to a higher standard deduction.

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Announcements



Child care

If you want to provide child care in your quarters, you need to be certified. Call 876-2752 for reservations for the Family Child Care Orientation Class, which will be held at the Bicentennial Chapel Feb. 23 from 8 a.m. until 4:30 p.m.

Community counseling

The Community Counseling Center, building 3490, has a program for workers whose spouse is having a problem with drugs and/or alcohol. "We care and we want to help; the program is, of course, confidential." For more information, call Chaplain (Capt.) William Meyer 876-7256.



Children's center

The Child Development Center is now taking infants 6 weeks and up. Spaces are available for toddlers 18 months to 3 years. Some 3-year-old preschool spaces are open. Call 876-7952 for more information.

Volunteer registration

Volunteers who are active duty military, retired military, or military family members affiliated with the Redstone Arsenal community should register with the installation volunteer coordinator. This will enable them to receive community recognition for their voluntary efforts. To register, call Sue Paddock 876-7391/1653 by Feb. 1.

Prayer breakfast

The National Prayer Breakfast will be held Feb. 3 at 6 a.m. at the Officers Club. The scheduled speaker is J.R. Thompson, director of the George C. Marshall Space Flight Center. Everyone is invited to attend this annual event sponsored by the Office of the Chaplain. For more information and for tickets call the Post Chapel. 876-5751.

Black employees

The Black Federal Employees Association will meet Feb. 2 at 7 p.m. in the Alpha House conference room, 4301 Oakwood Ave. NW. For more information, call 859-4478.

Supply management

The next Army Supply Management Civilian Career Program ad hoc screening panel will convene March 15-17 in Alexandria, Va., for employees eligible for referral to GS/GM-13 through GM-15. These ad hoc panels are in lieu of annual panels. Initial submissions and add-ons can be exercised at these ad hoc panels, but careerists who are satisfied with their panel element ratings are not required to take any action. Send original plus five copies of career appraisals (SKAPS) to AMSMI-LC-MM, Willena Richardson, building 5681, by Feb. 3. For forms or more information, call Richardson 876-1531/1411.

Career evaluation

Army Civilian Career Evaluation System will replace the SKAP system in career programs 13 (supply management), 17 (materiel maintenance management) and 24 (transportation management) for GS/GM 12s and above. The civilian personnel office is to distribute forms and conduct training sessions on ACCES Feb. 2-16 in building 5681. Each organization with employees in these three career programs will be notified of the dates their workers should attend. Employees will be scheduled by name. For more information, call Willena Richardson 876-1531 or Vickie Gist 876-4580.



Marathon team

The sports and athletic training branch is interested in organizing a marathon team. Interested active duty military people should call the Irv Lyles at the sports office 876-2943/6701.



Overeaters Anonymous

Overeaters Anonymous meets every Thursday from 11:15 a.m. to noon at the Post Chapel, and every Friday at 7 p.m. at Fox Army Community Hospital. For more information, call 532-7013.

Divorced people

"Divorced are People" is a support group for divorced people of all ages—military and civilian employees at Redstone Arsenal and Marshall Space Flight Center. The group meets on the second and fourth Tuesday of every month at 6 p.m. at the Bicentennial Chapel (go to the parking lot in the rear of the chapel). Discussion topics center around the book "The Friendship Factor." The next meeting is set for Tuesday, Feb. 9. For more information, call Chaplain (Capt.) William Meyer 876-7256.

Volunteer of year

The Redstone Arsenal Volunteer of the Year Awards Program is being implemented as part of the installation volunteer coordinator's efforts to increase volunteer recognition in the community. Anyone who wishes to nominate a candidate for this award may pick up a nomination form at building 112, room 203. Nominations must be received by March 1. For more information call Sue Paddock, the installation volunteer coordinator, 876-7391.

Korean course

The Huntsville community is offering Korean I from 6-8 p.m. Tuesdays, March 22 to May 17, according to the Education Center. Cost is \$71. Tuition assistance and VA benefits can be used to pay for the course. For more information, call the Education Center 876-9762.

Supported employment

A satellite telecast on "Supported Employment for Individuals with Disabilities" will be aired locally at Alabama A&M University on Tuesday, Feb. 2 from 12:30-2:30 p.m. The viewing site will be the R.D. Morrison Building Theatre at A&M. This telecast will describe vocational options for individuals with severe disabilities who need ongoing support to become competitively employed. For more information, call Elizabeth Sloan-Ragland 859-7443.

Learning center

Army Learning Center offers the following in-house, self-paced courses: Laser Safety, Laser Technology II, and Laser Technology III. To enroll in these courses or for more information, call 876-1061/1416.

Pathfinder chapter

Pathfinder Chapter of UVS Association will have a dinner meeting Wednesday, Feb. 10 at the Officers Club. Scheduled speaker is Richard Mosier, director of tactical intelligence systems, office of the deputy assistant secretary of defense for intelligence. Social hour begins at 6 p.m., with dinner at 6:45 and the program at 7:30. Cost is \$12. For reservations, call Mary Alverson 881-2021 or Pat Cleveland 830-0223.

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Albertville

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classifieds

Federal law makes it illegal to advertise any preference, limitation or discrimination in housing based on race, color, religion, or national origin. The REDSTONE ROCKET will not knowingly accept advertising that is in violation of the law, and readers and advertisers are hereby informed that all dwellings advertised in this newspaper are available on an equal opportunity basis.

According to the Inspector General, the use of office phone numbers in classified advertising is contrary to regulation. Please submit home numbers only.

FOR SALE: Two bedroom, one bath, frame house near Arsenal. Central gas heat and air, washer, dryer, stove, refrigerator, and garbage disposal. Carpeted over hardwood floors, carport with utility room, large corner lot. \$43,500 or equity and assume loan. Equity of \$19,300, mortgage payments of about \$265. Owner financing on large part of equity. Call 881-3061.

FOR SALE: 1987 Chevrolet Chevette, blue, two door, AM/FM radio, four speed, \$5,800 or best offer. Call 721-0271.

WANTED TO BUY: VW Trike with H/D front end or Harley Davidson "74" or Duo/Electra Glide without engine or not in running condition, any year. Rear Wheel/Fender not needed. Call 1-574 1838.

FOR SALE: Three bedroom rancher in convenient NW location, great room, two full baths, eat in kitchen, three walk in closets, parkay foyer, only three years old. \$57,700. Call 534-2785.

5 MINUTES FROM ARSENAL: Cedar rancher for sale by owner, three bedrooms, two baths, fireplace, large living room, dining room, single garage, fenced yard, TVA package, central heat and air, \$66,500. 3913 Fair Oak Lane, 883-5795.

FOR SALE: 1976 Plymouth Volare, air, power steering, power brakes, six cylinder, good condition, \$1000. Beige living room rug, 12' x 15' \$60. Singer sewing machine, model 247, \$75. Cosco infant seat \$20. Call 895-9894.

FOR SALE: 1978 Ford Thunderbird, gold/blue in color, (1979) 351 engine, new rebuilt automatic transmission (December 1987) AM/FM, three spare tires, all tires like new, \$2,100. Call 533-6523.

FOR SALE: 1979 Chevrolet Impala station wagon, air, two new tires, rear facing extra seat, tow bar, well maintained, runs well, \$1050. Pine bunk beds, new mattress, \$80. Water ski boat, many extras, Johnson 55 HP, outboard, electric start, on road trailer, \$1,500. Call 830-2811.

FOR SALE: 1977 Chevrolet Impala, \$1,200, excellent condition, both mechanical and structurally. Call 830-5592.

FOR RENT: House on Brindlee Mountain. Three bedrooms, two baths, inside utility, deck, front porch, outside building, and carport. 1500 square feet. All appliances furnished, including washer and dryer. \$450 plus deposit and lease. Call 880-6545.

FOR SALE: Luxury car, 1979 Grand Marquis. Air conditioning, power brakes and steering, AM/FM cassette player, tilt wheel, many other options. Will sell for \$1,900. Call 830-2908 (SFC Hammond).

FOR SALE: Child's bunkbed set, one bed never used, \$50. Call 837-9299.

FOR SALE: Singer oak china cabinet. Five and a half feet long, 6 feet high, glass doors, lighted, like new. Was \$1,350, asking \$725 or best offer. Call Tony 852-0567.

FOR SALE: 1974 Cadillac Seville. Four door, gold in color. Good condition. Asking \$500. Call 536-3362.

FOR SALE: Beige refrigerator, 16 cubic feet, \$300; lawnmower, \$75. Call 721-1656.

FOR SALE: King size waterbed, everything included, excellent condition, \$150. Dinette table with four chairs, good condition \$50. Call 830-5789.

FOR SALE BY OWNER: 1,896 square foot log home, three bedrooms, two baths, basement, double garage, combo porch and deck, lots more. \$99,900. Call 852-5035.

FARM FOR SALE: Ardmore area, 22 acres, fenced, two bedroom house, new vinyl siding, one bath, vinyl and carpet floors, good well, city water available, barn and storage building, \$60,000. Call 615-468-2652.

FOR SALE: 1980 Datsun 280 ZX, silver with black interior, 49,000 miles, automatic, AM/FM radio, power antenna, new tires, brakes, and battery. Call Jim after 5 p.m. 830-8371.

GREAT LOCATION: One bedroom condo flat at Sutton Place on Golf Road for sale or rent, all appliances, pool, includes Venetian blinds, ground level with fenced patio. Call 880-1144.

FOR SALE: 1982 BMW 528E, automatic, in excellent condition, \$9,495. 1983 Oldsmobile Regency, new transmission, excellent condition, \$5,495. Call 880-8931 after 5 p.m.

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