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AUGUST 22, 1973

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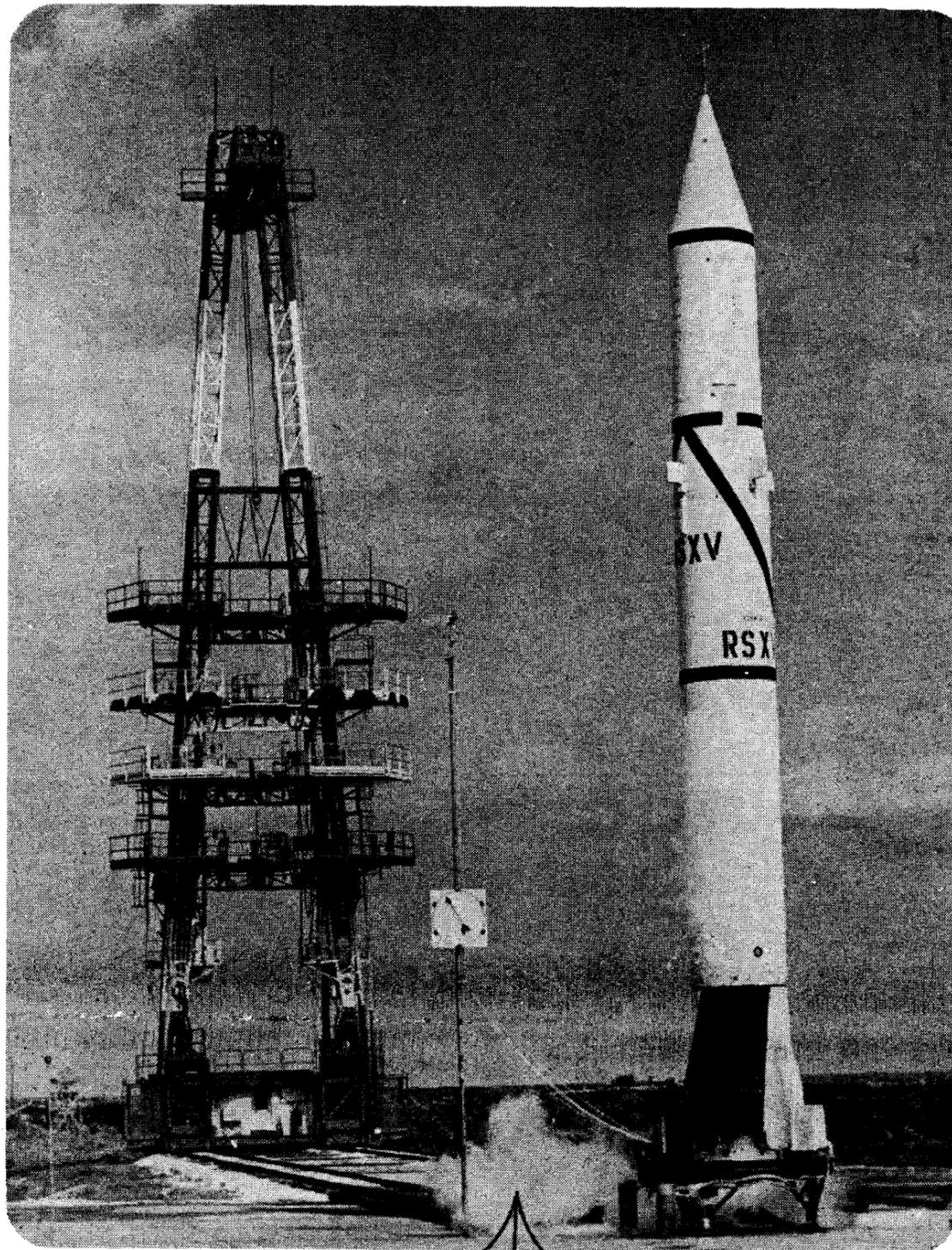
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Joseph Stalin died that March. In May, two men reached the summit of Mt. Everest. An armistice in July ended three years of fighting in Korea, but not the Cold War. It turned much colder in August when the Soviet Union announced that it had detonated a Hydrogen bomb.

On the day of the Soviet announcement, August 20, 1953, a 69-foot missile called Redstone climbed slowly into a partially overcast Florida sky, the roar of its rocket motor overriding the cheers of the men who had launched it. A few stood silent. Some jumped up and down in the sheer excitement of a moment they would never forget.

One man, remembering it all Monday, 20 years later, said:

"It was thrilling. Most of us had never seen a large missile fired. Looking back, I almost feel as though I was present at the creation."

The missile and the men who launched it had come to the desolate cape jutting into the Atlantic from an Army base in Alabama. Most of their countrymen in 1953 had never heard of the missile or the place where it had been designed and built, a place called Redstone Arsenal.

Twenty years is not such a long time, but the events of August 20, 1953 seem in retrospect to have taken place several light years ago. The Redstone has come and gone and the men who built it and launched it have scattered. Some continue their work here in the Army missile program. Many are now working in the space program. Some have retired. A few have died.

Mention the name Redstone to those who survive and you touch a responsive chord because Redstone has always been something special to all of them. For many, Redstone is a password to a lost youth, a time when, fresh out of college, they set out to build a missile.

The thing about Redstone with most of them is that they really built it. They got their hands dirty on it. It was theirs.

What they did was of great importance to all of us in the Army missile program of today. Redstone was a success when the Army and the United States very badly needed success.

It's not generally known, but you'll find a story in today's issue about how the missile got its name from a man who hoped not for success, but failure and who apparently thought that by linking the missile and its birthplace he could kill off the budding Army missile program with which he had little sympathy.

Redstone, of course, did not fail. It succeeded beyond its builders' fondest dreams.

—It was the first large ballistic missile developed in this country to reach operational status, first to be fired by soldiers, first to be deployed overseas.

—It gave the Army its first experience with mobile, long range missiles.

—The first object fired over intercontinental range was launched by a Redstone.

—The first man made object flown into space and recovered intact was launched on a Redstone.

See Old Reliable, Page 8

Related Articles Pages 7 and 9

Upward Mobility

Lower Level Civilians Get Better Chance To Advance

The Missile Command has begun an upward mobility program designed to identify future job opportunities and give lower level employees a chance to receive education and training that would help them qualify for better jobs.

The local program is part of an effort being emphasized throughout the Civil Service.

Major General Edwin I. Donley, MICOM commander, approved the local program on June 11. It was prepared by the Civilian Personnel Division.

Managers and supervisors are now reviewing occupations in each organizational element to identify appropriate and potential jobs that may be suitable for upward mobility candidates who complete a planned training program. Projections are being prepared on such jobs that may become available during the next five years. The listings will be updated every six months.

It is anticipated that future vacancies will be in such occupational categories as administrative and clerical, technician and assistant, and all types of wage grade jobs. Grades will be from GS-2 through 11 and WG-2 through 13.

To be eligible for the program, employees must be in semi-professional or non-professional jobs at the GS-7 level and below or WG-12, WG-10, WS-5 and below; must have been employed at MICOM for at least 12 months; and must have demonstrated satisfactory performance or better in their present positions.

Although the goal of the program is to enhance the potential of employees so they may compete for advancement, there is no guarantee or promise of promotion.

This is the way the program will work:

A form will soon be distributed for eligible em-

ployees to indicate their interest in the program.

One hour briefings will be presented to interested employees between mid-September and mid-October when application forms will be given to the attendees.

Following these orientations, supervisors will counsel employees individually on their career goals.

Individuals will then complete part of the application listing the skills, education and training they have that are not being used, and which they hope to develop, their career goals, and the occupational areas of interest to them.

Interested persons are not limited to fields or organizations in which they are now assigned. For instance, a person working in procurement might wish to move to a career in personnel work, and would so indicate that as the occupational area of choice.

Supervisors will complete the applications giving their appraisals of the employees' interests and potentials.

The application will then be forwarded to the MICOM Civilian Personnel Division through the Equal Employment Opportunity Office.

The Civilian Personnel Division will group the applications by career goals, and a screening panel will be assembled to select individuals to participate in the program. Elements to be used in rating will be education, training, experience, self development, awards outside activities and the supervisors' appraisals.

Competitive procedures will be used to select participants in accordance with the Merit Promotion and related placement plan.

The upward mobility program is long-ranged. Employees not selected initially will have an op-

portunity to re-apply.

Present plans call for the first group to be selected by December 14. The specific number of individuals to be selected will depend on the positions to be included in the program.

Within 60 days after selection, an individual career development plan will be worked out for each person who is to participate, and will cover whatever training, on-the-job assignments or formal classroom training or college courses are necessary to reach his or her career goals.

The training, with the exception of developmental assignments, will be done while the individual continues to work in his present position.

Some of the training will be at government expense, but candidates will be responsible for getting needed training that cannot be provided at government expense or during working hours.

Individuals must show some initiative. Those who do not accept responsibility for their part of the training will be dropped from the program.

In the future, when a suitable position opens, management officials will be responsible for giving priority attention to placing employees who have successfully participated in the program.

When vacancies occur which might be filled by program participants, the Missile Command will first check through the Army Materiel Command (AMC) to assure there are no graduates of the intern program or adversely affected personnel within AMC who could qualify for the jobs.

The Civilian Personnel Division is in the process of completing upward mobility programs for the other Army agencies in the area served by that organization.

The Redstone Rocket

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

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala. 35804, telephone 533-0471, as representative of the publisher. Advertising deadline—both display and wanted—is 10 a.m. Monday before publication.

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$7.42 a year, or \$4.00 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala. 35640.

Everything advertised in this publication must be made available for purchase, use, or patronage without regard to the race, creed, color, sex or national origin of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

QUESTION: How many persons were promoted in MICOM during FY 73?
ANSWER: There were 559 promotions in MICOM during FY 73.

Get Your Refund

(ANF) — The Army and Air Force Exchange service is recalling a possibly hazardous automotive jack stand. Tests have shown that the jack stand doesn't meet its specified load capacity.

The unit is designated model number J-S 200, and is distributed by Globe Fabricated Products Corporation of Philadelphia. It can be returned to any PX for refund.

Friend In Need — Lots Of Them

Betty Butler needed help the other morning. She got plenty.

On her way to work in the Missile Intelligence Agency, she had stopped her car for a traffic signal at the intersection of Burose and Neal when a radiator hose let go. As clouds of steam billowed from beneath the hood, she switched off the engine, snatched her coat and

purse and bailed out.

Friends and strangers to her stopped to offer assistance. Military Police suggested a nearby service station which provides road service.

"I didn't know there were so many people who would stop to help," Mrs. Butler said. "I really appreciate it. I could thank my friends with a telephone call, but I don't know the names of some of the others who helped me. I want to express my appreciation to them too."

Few Can Argue

Upon termination of the longest and in many respects the most difficult period of combat in our nation's history, I give you my personal salute for a job well done. The tremendous sacrifices and, in particular, the supreme effort of our comrades who were lost during the war have not been in vain. We were called upon by our nation's leaders, as we have been in the past, to carry out orders in furtherance of national policy and objectives. Few can argue against the common will and determination shown by our armed forces while attaining these objectives. You have performed superbly; your spirit and elan have remained steadfast throughout; the human qualities and greatness handed down from past military generations have remained undiminished.

Now the long conflict has come to a close, but our tasks remain. In coming months we must make every effort to account for those still missing in action, while we prepare ourselves for the future. As we move ahead, I have every confidence that when your accomplishments are chronicled in the pages of history, it will be written that you performed second to none, in the longest, most difficult and in many cases, the most frustrating and complex war in the history of our nation.

THOMAS H. MOORER
 Admiral, USN

Letters

Editor
 The Redstone Rocket

Dear Sir:

We would like to use the Redstone Rocket as a means of publicly thanking civilian and military personnel at Redstone for their concern and assistance during the illness and death of Thomas F. Gannon (Major, USA Ret.).

Their thoughts, prayers and other expressions of sympathy were sustaining during a trying time.

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Locals Attend SOLE Convention

HUNT VALLEY, Md. — Several members of the Tennessee Valley Chapter are attending the annual convention of the Society of Logistics Engineers here today.

John Goodrum of the Marshall Space Flight Center, chapter chairman, is presenting a paper titled "Logistics in Space." Ronald

Baudendistel of Chrysler Corporation is also scheduled to make a presentation.

Other members of the chapter attending include Barney Kemp, Glen King and Robert Reiff of the Missile Command and Lieutenant Colonel (Ret.) Daniel Fugit, now employed by Hayes International.

No Tail Rotor

(ANF) — The Army's new research helicopter, the HX-59-A, has had its first flight, marking the start of an extensive test program aimed at developing a helicopter which will use a new rotor system that will not require a tail rotor.

Studies indicate that such a new system will substantially increase helicopter speed and maneuverability.

The test program is being conducted by the Sikorsky Aircraft Division of United Aircraft Corporation.

ROTC Instructors Needed In Germany

(ANF) — Retired officers are needed as instructors for Army Junior ROTC units in the Federal Republic of Germany.

Individuals must be certified by Department of the Army, have a bachelor's degree, a teaching certificate and two years teaching experience in Junior ROTC.

Applicants should contact the Overseas Dependent School Teacher Recruitment Branch, Room G-B 171, Forrestal Building, Washington, D.C., 20314.

Safeguard Pact Backs One-Site

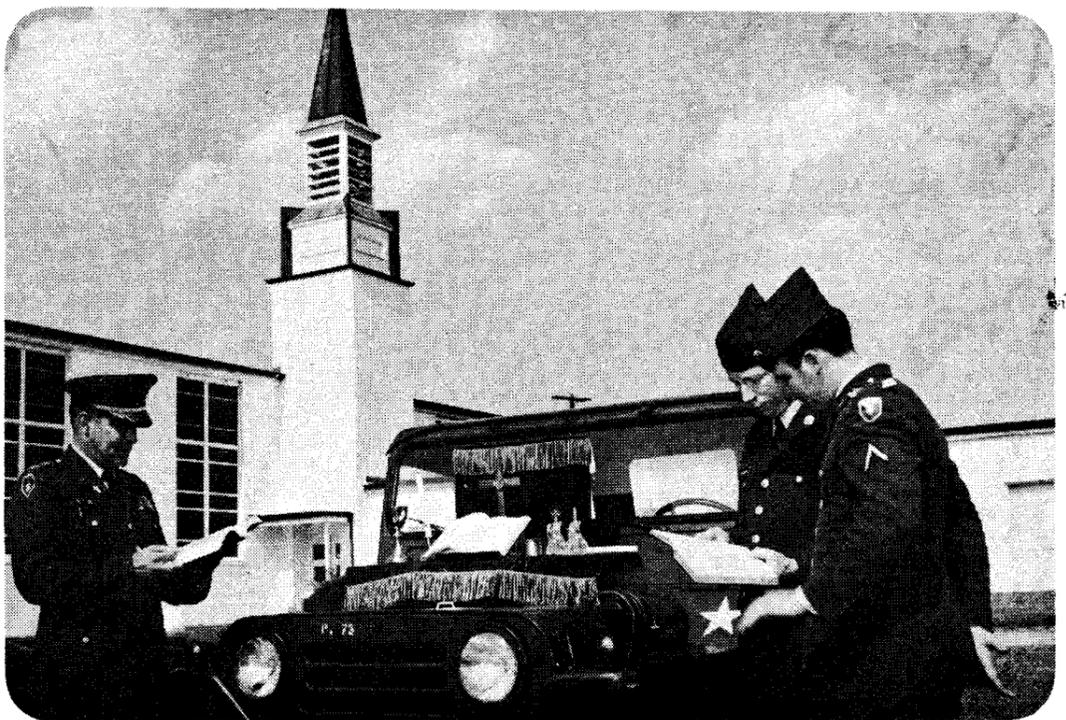
The Army last week signed a \$163,821,490 contract with the Western Electric Company for continued research and development on the Safeguard Ballistic Missile Defense System. This ef-

fort is in support of the Congressionally approved one-site Safeguard deployment program.

Western Electric, prime contractor for the system, along with the Bell Telephone Laboratories, Inc., responsible for overall direction and integration research and development, will perform the largest part of the work under the contract. Also sharing in the award are a number of sub-contractors.

The award was negotiated and signed by the US Army Safeguard System Command. The cost-plus-incentive-fee contract is for work to be performed from September 1, 1973 through August 31, 1974, and does not include funds for Safeguard production.

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OUT TO THE FIELD — If the soldier can't come to the church, the church will go to the soldier. Staff Chaplain Gene M. Little reads religious passages during an outdoor service to demonstrate the purpose of the chaplain's field kit on display. The 198th anniversary of the U.S. Army Chaplain Corps was observed recently.

Maintenance Pair Share Big Award

Two Redstone equipment specialists have won cash and a commendation for an idea that is saving the Army money.

Kenneth Skinner and William Jones got \$575 each for a suggestion that has an estimated first year savings to the Army of \$89,807.

They recommended that a Greer Hydraulic Console, which had been used to test hydraulics on the Lance Loader-Transporter but declared excess by the Missile Command, be modified to support Lance activities at Anniston Army Depot.

Jones is employed by the Depot Maintenance Division, Directorate for Maintenance, and Skinner by the Lance System Support Division.



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Enrollment Deadline Near

Applications are now being accepted for enrollment in local group study program of the National Security Management Course of the Industrial College of the Armed Forces, coordinated by the Huntsville U.S. Army Reserve Training Center.

The National Security Management Course is a graduate level course designed to increase the knowledge of military and civilian executives who are or may be engaged in managing key national security programs. It is not designed to train specialists in any particular field, but rather to impart knowledge and understanding of economic and industrial aspects of national security and of the management of resources under all conditions and in the context of both national and world affairs.

Seminar groups meet 24 times per year, from September to May, for two years.

Minimum qualifications for admission include: federal, state or local government employees rated GS-13 or above or equivalent with baccalaureate degree whose duties relate to the education provide by the course; and, active duty and reserve officers in the grade of lieutenant colonel, commander or above of the Department of Defense and the

B. D. Harrison

Funeral services were held for Buford D. Harrison, 47, Saturday at the West Huntsville Baptist Church, the Rev. Same Wolfe officiating.

Burial was in Memory Gardens Cemetery in Huntsville.

Mr. Harrison retired from the military service after 22 years, most of it military police duty. He also served as Redstone Arsenal's game warden.

At the time of his death, he was on duty as a civilian guard at Redstone Arsenal. Taken to the Army hospital by a military ambulance, Mr. Harrison was pronounced dead on arrival.

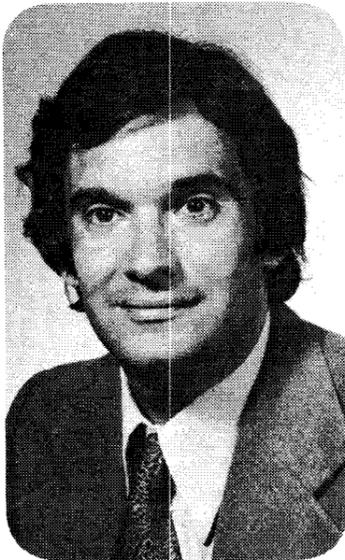
He was a member of the West Huntsville Baptist Church and was active as a Mason.

Survivors include his wife, two daughters, a son, and four grandchildren.

Coast Guard; majors and lieutenant commanders with baccalaureate degrees who have completed a command and staff course or its equivalent.

Applicants should complete and mail ICAF Form 81 by September 1, to: 3392nd Huntsville USAR School, ATTN: ICAF and Logistic1s Dep, 1218 Meridian Street, Huntsville, AL 35801.

Forms and further information may be obtained from the following course instructors: Joe Carlton (453-5689), Charlie Cox (876-5115), or Bill Jann (876-1165).



AUXILIARY CHAPLAIN — Charles Emanuel, newly assigned rabbi at Temple B'Nai Sholom, has also been named auxiliary chaplain at Redstone. He is in the inactive reserves. He earned his B.A. at the University of Wisconsin. His advanced degree is from Hebrew Union College in New York City. Rabbi Emanuel holds services Saturday morning at Redstone, and will arrange for anyone who wishes to be picked up for dinner on a Friday evening and to attend services at the Temple in Huntsville. His phone number is 883-1037.

Dial 112 For Redstone News

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SEE— TANYA TUCKER

- ☆ "DELTA DAWN"
- ☆ "JAMESTOWN FERRY"
- ☆ "LOVE'S THE ANSWER"
- ☆ "WHAT'S YOUR MAMA'S NAME?"

AUG. 30 & 31

Also Lonzo And Oscar

Super Sleuths Spot Pot

Snoop and Ken are a couple of canines with an uncanny nose for cannabis.

Last week local newsmen saw how they operate in a demonstration set up by investigators conducting a marijuana search here.

A clear plastic packet of pot, about the size of a matchbook, was put in a cloth pouch that looked like a tobacco sack. The pouch was hidden under the right portion of the front seat of a car, doors closed, windows up.

Snoop went first. Starting at the left front bumper, he sauntered down the driver's side, nonchalantly rounding the back bumper.

Sniffing the right rear wheel well, he tensed suddenly and his leash went taut as he proceeded with his nose almost brushing the car.

He stopped at the right door, plopped his posterior on the hot asphalt, tail wagging, at which signal he knew came his reward.

Snoop's handler, an Army narcotics investigator, reached into his back pocket, withdrew the reward, popped it into Snoop's mouth and stood back for Ken to strut his stuff.

Snoop and Ken are what the Army calls "biological sensors." They along with other specially trained dogs are the most versatile and mobile sensors the Army has.

Snoop is a four year old Labrador retriever. Both he and Ken belong to a narcotics detection squad at Ft. Benning, Ga. They operate throughout the Army and are trained and handled by the squad's investigators. The dogs are rarely wrong. Snoop has made finds resulting in 40 cases in the two months he's been used as a marijuana detector. His training took 13 weeks.

Ken is six and a half years old and has been with the squad since its inception in 1972. Since October he's turned up evidence for 151 cases.

Ken is a Labrador retriever-German shepherd admixture, tawny and mongrel-looking, sort of. Ken's homeliness, however, hides a pedigree that most dogs would give their canine teeth for.

According to Aaron Foster, his trainer and handler and one of the narcotics investigators who was here, Ken is a first generation forerunner to "Superdog" who is being selectively bred by the Army at Department of Biological Sensor Research, an Aberdeen Proving Ground-based activity of the Walter Reed Institute of Research.

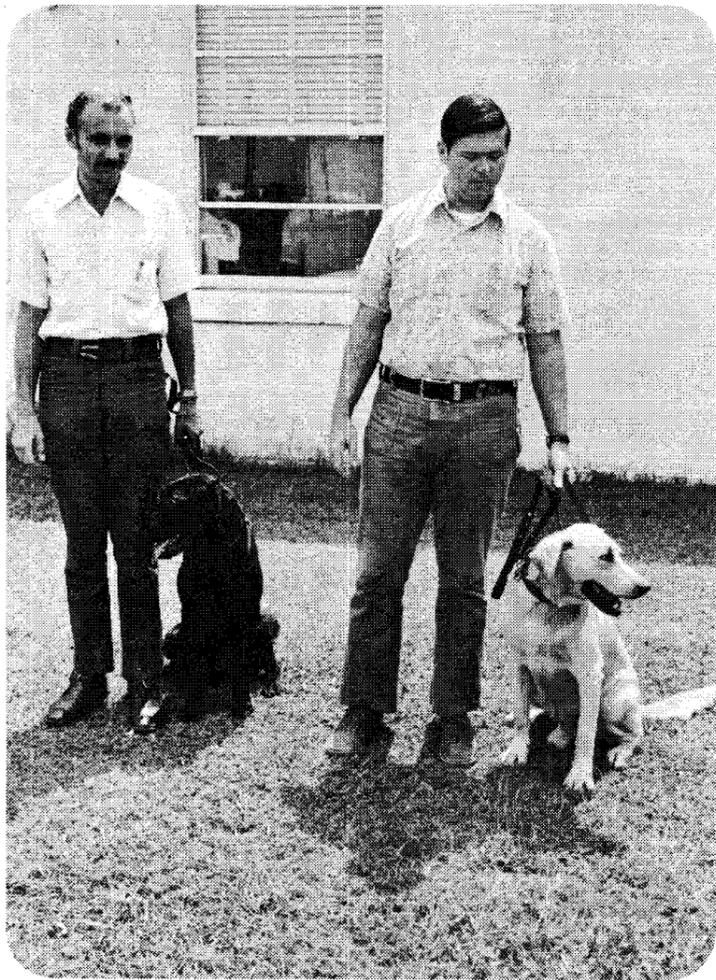
(An unofficial Aberdeen Proving Ground publication says the name "Superdog" derives from national media accounts of the program at Aberdeen to develop what DoD calls "improved detector dogs." The Army's goal, the publication continues, is to develop a more intelligent and sensually acute dog which is physically and temperamentally better suited for military purposes than is now generally available. The German Shepherd was selected for the program, which is not attempting to develop a new breed of dog, just a better one.)

In addition to dogs for detecting marijuana, Foster said Ft. Benning has some trained as scout dogs, and others that can detect explosives and hard narcotics. Some of the dogs are trained to be aggressive, however not Snoop and Ken.

Race Relations

(ANF) — The Army has published a special handbook for its leaders on the subject of race relations.

The pamphlet takes a look at the race problem in the Army, helping leaders understand what causes it, and gives them advice on how to approach racial problems in their own units.



POT SPOTTERS — Thomas Roach and Snoop, left, and Aaron Foster and Ken, spent last week at Redstone in a marijuana search. Roach and Foster, Army narcotics investigators from Ft. Benning, trained the dogs.

Search Turns Up Small Quantities

A number of small quantities of suspected marijuana were confiscated in a six-day search at Redstone last week in which two dogs trained by the Army to detect marijuana were used.

The Provost Marshal Office here said several cases have been developed and the investigation is continuing. Upon completion

the cases will be turned over to unit commanders for disposition.

The suspected marijuana was found in barracks, offices and cars.

The dogs, in the company of two Army narcotics investigators who train and handle them, are part of a narcotics detection squad based at Ft. Benning, Ga.

ATTENTION ALL E4s thru E9s

Did you know that the Non-Commissioned Officers Association (NCOA) has a Career Option Plan (C.O.P.) which is underwritten by American Fidelity Life Insurance Company (this company was in the top 1% of the nation in net yield on assets in 1972 with 7.07%)?

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Remember—You must be a member of the NCOA (dues \$10 per year) to qualify. Join today! If interested call: Jack Lea 881-6356 or 533-5775 or come by the office located at 3503 Drake Ave. S.W.

Pacer Helps Soldiers Speed Reading

There are probably a lot of soldiers and civilians at MMCS who are not happy with their reading ability for one reason or another. But the Library and Learning Center recently acquired

a device that can help MMCS personnel improve their reading speed and comprehension.

It's called a reading accelerator, a reading pacing device that covers a page of a book or magazine. A spring-powered "shutter" slides down the page at an adjustable rate, blocking some of the print as it moves.

The moving shutter, adjustable between 50 and 2600 words per minute reading speed, serves two purposes, according to the manufacturer.

First, it helps the reader pace himself at a steady rate. In addition, it prevents "looking back" at material already covered, a reading habit that slows speed and prevents improvement of comprehension.

The manufacturer of the device also claims readers using it can improve their reading speed by 5 to 20 percent during each single session of 20 to 40 minutes.

The device is lightweight and uses no electricity.

It has at least one other advantage. Persons wanting to raise their reading speeds need no longer plod through a "See Spot Run" book.

Now they can improve their reading skills with something like, "Bond started his Bentley and guided the powerful machine toward the headquarters of Her Majesty's Secret Service. M was waiting with another mission."



TRAIL RUN — Yvonne Taylor of the MMCS Library and Learning Center adjusts one of two recently acquired reading accelerators. The instruments are available for any MMCS soldiers or civilians who want to improve their reading skills.

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Ten Per Cent Less Fuel

The sea of uncertainty surrounding the petroleum fuel situation has prompted Army Materiel Command to begin a conservation program.

The target is for AMC installations to use 10 per cent less than they used in FY 73, without impeding mission activities.

Accordingly, in a commander's letter last week Major General E. Donley, MICOM commanding general, outlined a plan to cut consumption at Redstone.

The following actions are emphasized:

*Using commercial air transportation where possible in lieu of Army aircraft;

*Using vehicle air conditioners only in extreme hot weather and not allowing air conditioners to run while vehicles are on standby;

*Turning in under utilized vehicles and equipment;

*Using post taxis in lieu of other official vehicles;

*Scheduling meetings to coincide with availability of taxis to minimize or prevent using other government vehicles;

*Encouraging transacting business by phone or correspondence;

*Reducing frequency of scheduled bus runs and consolidating routes where possible;

*Consolidating trips and using government vehicles when travel is essential;

*Turning motors off on vehicles and equipment, e.g. forklifts, when not in use;

*Reducing individual hand-carrying of mail to a minimum.

JAG Corps Honored

(ANF) — The American Bar Association (ABA) has honored the Army's Judge Advocate General Corps with an award of merit for the Corps' "Law Day USA Program."

The program explains to soldiers how our system of law is the root of American freedom, liberty and loyalty.

According to the ABA, the Army's Law Day program has been an outstanding service to the general public and the legal profession as well as to soldiers.

SAM-D Gets Propellant Developed At Redstone

SAM-D motors, using a new propellant invented and developed by the Missile Command's Propulsion Directorate, have just completed successfully a series of static firings at Redstone and have been certified by the Army for flight tests.

Actual flights with the new air defense missile will begin later this year at White Sands Missile Range.

Thiokol Chemical Corporation's Huntsville Division conducted the pre-flight motor certification tests, the last two of which utilized the new MICOM-developed propellant called Hydroxyl Terminated Polybutadiene Propellant. Thiokol tailored the propellant to SAM-D requirements.

Altogether, eight development and four pre-flight certification motors were static tested at Redstone with the new propellant. Final two tests involved motors exposed to a combination of environments such as hot and cold temperatures, shock and vibration.

Marjorie Cucksee and Henry Allen, two chemists in the Propulsion Directorate, did the basic research and development on the propellant.

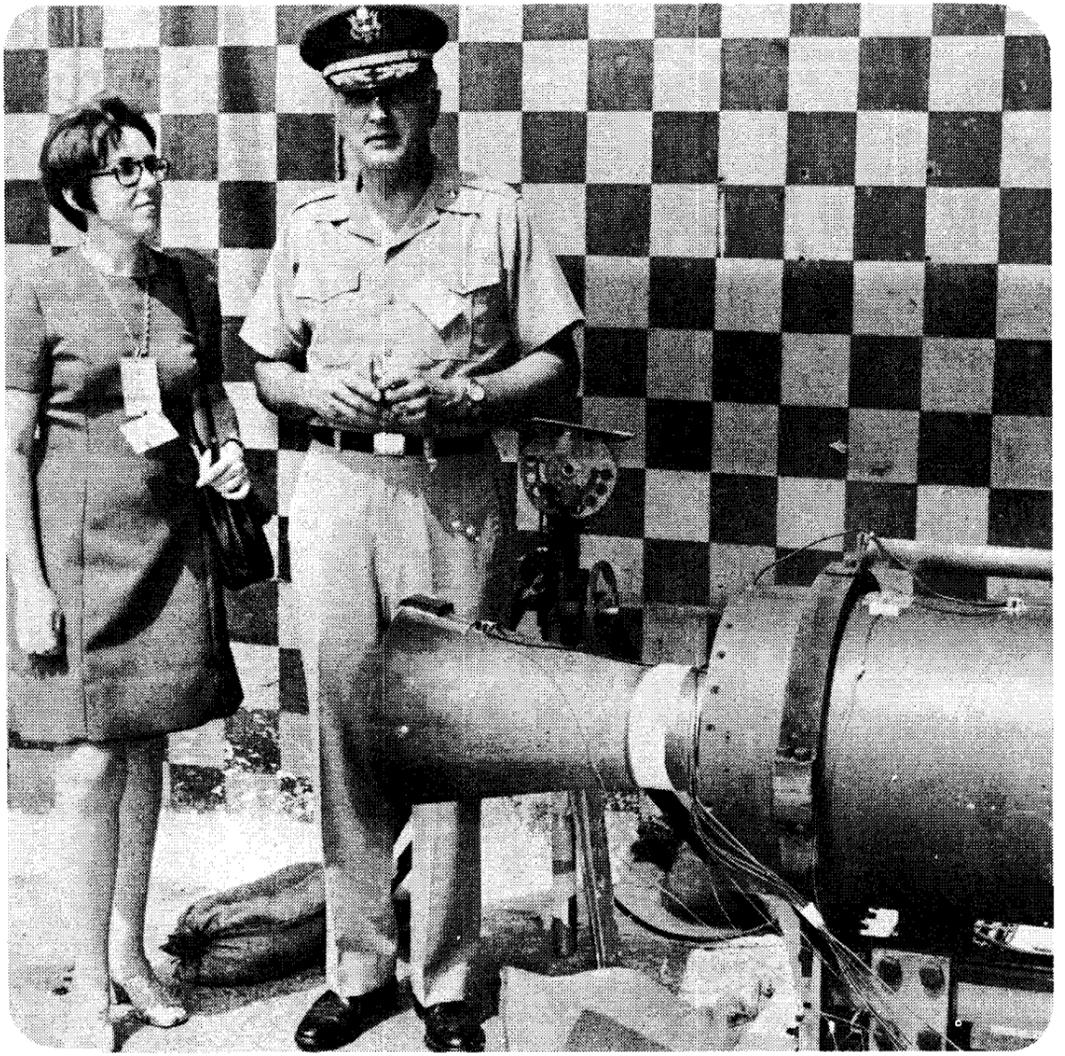
SAM-D is being developed for air defense against high performance aircraft in the 1930s. Intended to replace both the Nike Hercules and Hawk missile systems, SAM-D is the only weapon of its kind, and with its capabilities, that is under development.

Raytheon Company is SAM-D prime contractor and Martin Marietta Corporation's Orlando, Florida, Division is a major subcontractor. Thiokol is the propulsion subcontractor to Martin.

Flag Football Meetings Set

There will be a football coaches' clinic at 4 p.m. Wednesday, Sept. 5, and again at 4 p.m. Thursday, Sept. 6, in preparation for the upcoming unit-level flag football season.

All units planning to field a flag football squad must have a representative present at the meetings. Discussion will include rules and player eligibility.



SAM-D MOTORS CERTIFIED—Marjorie Cucksee, and Brig. Gen. Joseph C. Fimiani, SAM-D Project Manager, inspect a SAM-D motor tested at Redstone. Motors for the new air defense system have been certified and approved for flight tests.

Simonson Heads D&TD Division

A onetime newsboy who delivered the Huntsville Times to TVA employees working on the Guntersville Dam in 1938 was recently assigned to head a division of the Missile and Munitions Center and School.

Colonel Eugene M. Simonson, recently arrived from Ft. McClellan, Ala., has been named chief of the Doctrine and Training Development division at MMCS.

Simonson delivered the Times while his father was employed at the construction project.

Before his Army career, Simonson was a civilian aircraft machinist at the Hawaiian Air Depot at Hickam Field.

Simonson received a degree in chemistry from Henderson State Teachers College at Arkadelphia, Ar., in 1951, the year he entered the Army. He received a master's degree in industrial management from Georgia Tech in 1959.

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Tight-Knit Team Handmade Each Missile

The Redstone, this nation's first ballistic missile, was the product of a tightly-knit team of soldiers and civilians working here at Redstone Arsenal, men and women who share a common pride in their pioneering achievement.

William A. Mrazek was one of them. A member of the Von Braun team which developed the V-2 missile, he later worked in this country for the Army on the Hermes, Redstone, Jupiter and Pershing programs; transferred to NASA in 1960 when the Marshall Space Flight Center was established here to continue programs which had begun under Army sponsorship. He had a major role in the development of the Saturn space launch vehicles. Formerly associate director for Engineering and Program Development at MSFC, he retired this summer.

He recalled Redstone and the busy days, more than two decades ago, when he was in charge of layout and assembly for the missile and later as director of the Structures and Mechanics Laboratory in an interview in his home one afternoon recently.

Q: I have a feeling that esprit de corps was much higher in those days. Was that the case?

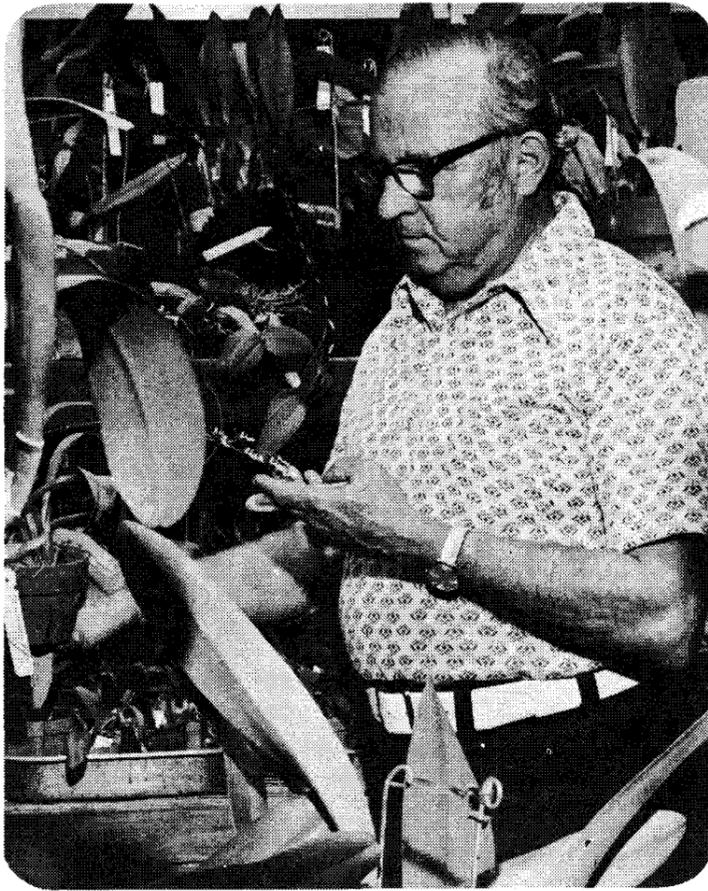
A: Absolutely, because each missile was closely handled like a baby. Each missile was almost handmade. Everybody had to know the details. It was easier then. When missiles like Saturn became so complex they were no longer like babies. It was strictly paper. You had to have specifications — there were too many people involved to remember practically all the details so we had to go to issuing them on paper. In the Redstone days the know-how transmitted from person to person If the contractor makes a mistake now, it is his goof. In the Redstone days it was our goof. We tried to always do our best.

Q: What were some of the technical differences between the German V-2 and the Redstone? What evolved during development of the Redstone?

A: Actually, you know, the Redstone was an entirely new development. For instance, we had in the V-2 internal separate containers for the fuel and oxidizer. In Redstone, for the first time we used what is called monocoque construction, the outside skin of the container was also the outside skin of the missile. The tanks were part of the missile structure. That was entirely new. The engine was an advanced development of the one for the V-2. There was, of course, an improvement in the injector of the engine, but basically the Redstone engine had the same approach as the V-2 engine.

By far the most important development for the Redstone was the introduction of the stable platform — the gyro — had air bearing gyros. It took several years to perfect these systems.

And something never done before was the introduction of the inertial guidance system which gave the fantastic accuracy to the



ROCKETS TO ORCHIDS
William Mrazek works among the 150 orchid plants in his greenhouse. He has also collected approximately 100 cacti.

Redstone.

With the integral tank we also introduced welded structural aluminum for the vehicles — the tanks of the V-2 were aluminum but not of a structural type. Whereas the skin outside carried the container in the V-2, in the Redstone it was the container itself. So it had to contain the cryogenic propellant and also support the load.

Q: One of the major technical advances in Redstone was the staging technique, dropping off the booster section after it had burned out. We understand you hold the patent on that. How was the decision made?

A: Oh, that was simple. First, there was a certain time lag in the development of the warhead. The dimensions of the warhead, which also was in development, were not known.

Secondly, with the introduction of the inertial guidance system, a new scheme was introduced to increase the accuracy of the warhead. The most practical way to achieve this, was to reduce the mass of the warhead and to actively control it at re-entry. Once the propulsion unit had done its work, we discarded it and concentrated for the re-entry on the shape, form and protection of the warhead.

We had some bad experiences with the V-2. The entire vehicle had to stay together all the way to the target. We had a lot of explosions and failures in the air at re-entry due to aerodynamic forces before the missile actually came down. We wanted to eliminate these problems entirely.

Q: What were some of the things that were tired and didn't work on Redstone?

A: We didn't have any actually — we did not approach anything which did not work out. All the initial designs actually proved right to the end of final development.

We had one small change at the beginning of missile flight tests. The V-2 engine, had a so-called pre-stage, that is, it began to burn, then built up to full thrust in a few seconds. It was very troublesome and gave some ignition problems. This was changed to full start in the Redstone. We had one missile failure caused by the old procedure. The launch preparations had advanced so far that we didn't want to change anymore. We stuck with the old procedure and the vehicle blew up on the pad. It was one of the early failures we had with Redstone.

Q: Did the first missile get off the pad?

A: Oh yes, the first missile got off the pad. But it had a heating problem. The rear end overheated and it failed in 60 seconds or something like that.

Q: And the second one?

A: The second was fully successful. The first was partially successful. We recognized our shortcomings from the films and telemetry. The third one blew up on the pad on account of the ignition procedure as mentioned before. From then we had successes.

Q: Did advancements in telemetry play a big part in Redstone?

A: Basically we had tremendous developments in the telemetry for the Redstone. We flew the Redstone with either one or two complete telemetry transmitters which had several continuous channels — I can't tell you off hand anymore — 100 or more. We were able to telemeter all of the necessary information to recognize our shortcomings or anomalies in flight. That shortened development time and cost tremendously. We were practically ready to release the Redstone for operational use with 75 flights. The V-2 took hundreds. The Jupiter needed 32 flights to be operational. In the Saturn I we flew five large vehicles first, and practically right away

after we developed the Saturn V it was operational, with payloads.

We had only 24 channels on the V-2. On Redstone we had over a hundred — possibly 120 channels carrying or transmitted and sometimes even two transmitters.

Q: How long did it take to develop the Redstone?

A: It took us five years — '52 to '57.

Q: Did you have some designs in hand when you started Redstone development?

A: We had to start designing Redstone from scratch. We had some real problems. For instance, the jet vanes were not available. We didn't even have good graphite available to make jet vanes. The burning time on the Redstone was double that of the V-2. The V-2 had 60 seconds, the Redstone had 120 seconds. The jet vanes had to withstand the longer burning time.

Q: How did American Army Army control compare with German Army control?

A: Oh, it was most pleasant. We had no difficulty in the development because the Army took care of any red tape that had to be cut. We had very foresighted management from General Toftoy and later General Medaris. Army control didn't bother us at all. We didn't have to justify anything here. The Army went up to Washington and justified it there. We were pretty much left alone. Who could tell us, to do the job differently? Nobody knew anything about missile development. So we had our ideas and we pursued them. . . .

Q: Did you feel budget pinches?

A: There was one bad thing. The Redstone missile for a long time was not an approved vehicle. Before the Army established the requirements, we were in

development and development money is very hard to get in the Army if there is not an established project. We were developing Redstone for the Army and they didn't even have any requirements or specifications. They didn't tell us what they wanted. We gave them something and they said they could use it — it was fine.

We had to take the engine which was available in the early '50s on one hand, and on the other hand a certain warhead which was also under development. There were some limitations. The engine had only 75,000 pounds thrust. The propellants define the specific impulse. Combine that with the weight of the warhead that ultimately gives you the capability and the range.

If you stood on a corner and asked for a larger engine you wouldn't have gotten it because it wasn't there. It wasn't available.

Once you settled the dimensions and weight of the payload you could actually design the re-entry warhead. That came very late in the game.

Q: Do you know how Redstone got its name?

A: There are many variations — We didn't care what they named it. The main thing for us was developing it.

Q: You were there for the first launching. What was your reaction?

A: Oh, I wasn't disappointed because when it got off the pad it was a big relief to us. Lift off is always critical. It lifted off beautifully, tilted over and ceased to burn. We saw it coming down. That reminded me exactly of the first launch of the V-2. The same thing happened with the Redstone 10 years later. The V-2 lifted off wonderfully, then we saw it coming down. Burning ceased prematurely.

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"...They Didn't Think We'd Get Off Ground"

The Army's decision to go ahead with development of a ballistic missile, triggered the first of many efforts to expand the missile team at Redstone Arsenal.

Among early recruits were John Osborne and Russ Gambill. "I was home in Huntsville for Christmas 1950 having just finished school in Kentucky where I'd studied television engineering, and my brother-in-law told me they were getting ready to do something out at Redstone — build a missile or something like that," Osborne recalls.

"So I came out to see about a job — I'd had a firm offer from industry — but since I'm a native of Huntsville, I thought I'd look here.

I wound up on "Squirrel Hill" in Building 112, being interviewed by Dr. Walter Haessermann.

"He talked to me a while and told me I was hired. It was very simple. No red tape. So I moved my family down from Kentucky and came to work in January 1951 in Building 112 (now the Army Hospital). It was being converted to a Guidance and Control Laboratory at that time and remained there through 1955."

Gambill didn't join the group until early 1953. "I was working on the wind tunnel up at Tullahoma and heard they were offering jobs with some good grades, so I came," he said.

CHECKOUT CREW

Osborne and Gambill were among those who actually participated in the design and development of the Redstone's control system. Both went to the Cape for the first firing as two of the three-man control system checkout crew.

"We weren't the only ones, by any means, who worked on the design and development," Osborne said. "But I recall the months of checkouts we did here on the Arsenal in an old warehouse somewhere back of where Building 4488 is now located.

"We took the missile apart and put it together so often, running simulated countdowns that we wore out many of the screws.

The development team included the scientists and engineers who had developed the German U-2, supplemented with youngsters like Osborne and Gambill who were working on their first missile.

"We were in essence just a bunch of kids—all in our 20s who knew nothing about missiles but this was offset by our enthusiasm", Osborne recalls.

"We felt we were contributing a lot. It was surely satisfying work. Some of the components and material we had to work



HOTSPOT OF THE 50s — Once host to the Redstone missile, now a companion to weeds and vines, is the old test stand off Dodd Road, here revisited by four MICOM employees who had key roles in the missile's research and development. They are, from left, Russ Gambill, Bill Stripling, John Osborne and Bill Pittman.

with were from V-2s and the Hermes. We were learning as we went along," Gambill said recently.

In 1953, many of the men moved to the Cape to prepare for the first firing.

There weren't much there in those days. Gambill and Osborne took their families and rented apartments right on the ocean for \$75 a month.

They found concrete had yet to be poured for the launch pad. However there was a test stand mounted on tracks that ran out and enclosed the missile which stood vertically on a firing table for launch.

"Redstone was the first missile of any size with a vertical launch," Osborne recalls. "The senior Air Force officer from the range who coordinated our portion of the Cape activities was captain. I don't think he or anyone else there thought much of our missile. They didn't think we'd ever get it off the ground. The Redstone didn't look like something that would fly. I'm not too sure that we believed it would either.

After about five weeks of checking, the Redstone was ready for its first launch which occurred within a matter of hours of the scheduled time.

COMIC OPERA

"On our way to the firing Russ (Gambill) and I had to stop at a road block because they were going to fire a Bomarc (an Air

Force ground to air missile).

"It was launched from an inclined rail and as it was taking off the flame from the motor shot across the road into the brush. There were all kinds of varmints on the Cape then. A fox ran out. It was like a comic strip. He looked up the road one way, then the other and took off like greased lightning. He wasn't used to the missile business either.

"When we fired the Redstone, the concrete launch pad hadn't set up and the exhaust flame scalloped out.

There was a metal trap door at the base of the missile where the cabling ran down, through a tunnel and into the block house. someone failed to secure that door and when we hit main stage the flames shot back through the tunnel and burned 20 or 30 feet of cabling.

"There was a hole in the block house wall where the cables entered and someone had plugged it with cotton and rags to reduce the noise level. When the

rocket exhaust came through the tunnel, the packing blew out and the people in the blockhouse received a first class scare. Their view of the missile had been blocked by the derbis created by the lift-off. They thought for a second the whole place had blown up.

"Those of us who were out where we could watch were cheering like mad. It was like a football game when your team

scores. We got goose pimples and we were really charged up because it was some show.

"I think it was that firing — after 20 years, things aren't as clear on individual ones — that one of the guys back where we did our instrumentation checkout was on top of a van and got so excited he fell off and broke his leg.

That first flight lasted little more than a minute. Then there was a malfunction. Osborne picks up the story.

"We could see the missile coming down, then the splash when it hit the ocean. They went out in boats and picked up pieces which we could recognize as various parts of the system. Plywood was used for mounting some of the equipment, and when the missile broke up on impact, some portions floated and were picked up for evaluation.

"We wore hard hats — nothing unusual about that — but we weren't too formal about the way we did things. In order to check the gain of the control system during the pre launch preparations, we had to go up under the base of the missile. There was a flame deflector in the firing table the missile sat on that had a rather sharp point. We used our hard hats to cover this point to provide a seat so we could do our work.

Osborne is now chief of an Air Defense Branch in the Maintenance Engineering Division in the Directorate for Maintenance. Gambill is a technical project leader in the Guidance and Control Directorate of the Research, Development and Engineering Laboratory.

Kept A Secret

Security — in a word — was tight at Redstone Arsenal during the early days of the missile program and got even tighter when the Redstone missile program began.

That's the reason for the large letters which adorned the flanks of the R&D Redstones fired at Cape Canaveral. The letters identified each round without providing any hint of their numerical sequence.

Specific letters represented numerals and were selected on a simple numeral to letter transposition code. The key to the code was "HuntsvilleX". Numerals one through zero can be substituted for the letters as they appear in "HuntsvilleX".

Thus the most famous Redstone booster of all, Missile 29 which launched the Free World's first scientific earth satellite, carried the letters "UE" on its tank section.

Old Reliable . . . Plus Two Decades

(Continued From Front Page)

—The first missile that carried and detonated a live nuclear missile was a Redstone.

—The Free World's first scientific earth satellite was launched by a Redstone.

—Our first astronaut rode a Redstone.

Some of the men who worked on Redstone reminisce in this issue. We kept waiting for them to say it. They never did so we'll say it for them:

They don't build them like that anymore.

Free Educational Conferences

Mr. Owen Cherry, Assistant Director of Admissions, Milwaukee School of Engineering, will be at the Sheraton Inn, West University Drive, Huntsville, Alabama, from 6:00 to 10:00 p.m., Friday, August 24, and from 12:00 noon to 10:00 p.m., Saturday, August 25, for free educational conferences with male and female military personnel from Redstone Arsenal.

The Milwaukee School of Engineering offers residence programs of study in engineering technology, engineering, and industrial management leading to Associate and Baccalaureate degrees. Senior college programs in engineering technology and industrial management for students who have two-year Associate degrees. Courses approved for Veteran study. Financial aid available for student assistance. Nationwide placement for graduates.

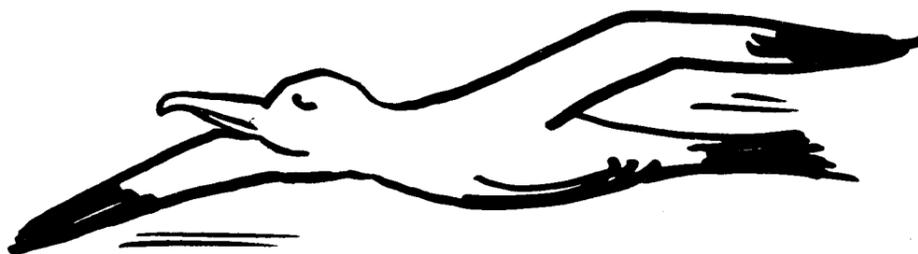
The Milwaukee School of Engineering will grant credit to armed services personnel or veterans for USAFI college-level independent or group study courses and subject standardized tests, for college-level correspondence or residence courses from accredited colleges and universities, and for College-Level Examination Program subject and general examinations, as well as for other education experiences in the armed forces.



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HUNTSVILLE AVIATION

It was theirs — all theirs. They built it. They lived with it. It was like one of their personal possessions.

They had ventured into a new world when they were given the job of designing and developing the Army's first ballistic missile.

Twenty years ago this week, the Redstone missile was test fired for the first time from a Florida beach.

Bill Stripling was there and obviously enjoys recollections of how things went that day. He was concerned with the missile's instrumentation. Today he is Inertial Systems Group leader in the Guidance and Control Directorate of MICOM's Research, Development and Engineering laboratory.

"We were all supposed to have observation points for the firing. I didn't have any, so asked Dr. (Wernher) von Braun to assign me one. He told me to go over to observation point number one, and if anyone asked why I was there, tell them he had sent me.

"When I got there, I found all kinds of people standing around and a parked soft drink truck. It was simply a road block for the firing! No one ever asked me why I was there!

"There was a strange noise after the missile left the launch pad, a pulsing sound. When I mentioned it, I was told that was normal, the way missiles always sound.

"Turned out the pulsing was caused by the noise of the missile going up beating with the noise of it coming back down its own trajectory. There was trouble with the control system, but it did get off the pad. I guess you could call it a success.

"I remember the third Redstone firing. There was a propulsion explosion. I was sitting on top of a hangar looking through eight power binoculars. Seemed to me that big pieces of the missile were falling close to me and I was ready to jump. Then I realized I was seeing things eight times bigger and eight times closer than they were.

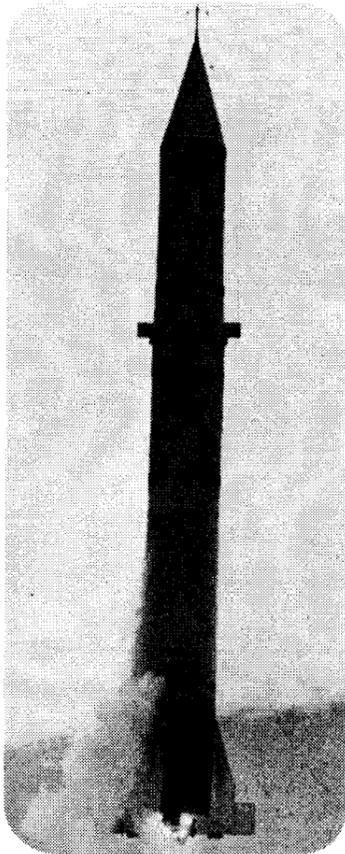
HOME-MADE

"All the early missiles in the R&D series were built at Redstone. We all followed a missile through from birth to death. Many components were built in-house. Sometimes we'd get something from a commercial firm and modify it for our purposes. But there were limited industry sources for manufacture of missile components.

"We brought some of our own tools from home — screw drivers, pliers, wire cutters, whatever we had that we could use. The missile assembly was done in an old warehouse. You might say the missiles were 'homemade.'

"We thought the firing stands at the Cape (Canaveral) were pretty good, but the set-up for static testing at Redstone was a Rube Goldberg affair. We buried an old tank car from surplus property and used it as a blockhouse.

"At the first static firing, rocks and debris flew everywhere as we had the flame deflected in four directions.



"We kept modifying our static test stand — the whole thing was built on a shoe string.

"When we went to the Cape for firings and said they'd be a certain day at a certain time, no one believed us at first. They were used to missiles that were delayed for weeks or months and maybe never got off the ground.

"But we always fired when we said we would. Once I suggested to my family — we had two small children at the time and we all went down and rented a beach cottage as sort of an extended vacation for them — that they walk out on the beach at a certain time. Firing times were supposed to be secret so I couldn't tell them right out when they'd be.

"They went out there and found a lot of others around. Someone came running up and said the missile would fire in four minutes. It did. Obviously someone had leaked the time.

"We were down at the Cape at least a month for each firing — it took that long to get the missile there, ready to fire and checked out.

"When local people saw a lot of cars with Alabama tags around they had a pretty good idea something was about to happen. Especially when they saw the cars going down the road at a certain time after we'd been there awhile.

Stripling noted some of the many changes in the missile business over the last 20 years.

"We were all young men," he said. "I was about 28 or 29 and had 10 engineers working with me who were just out of college. None of them were married.

The things we did sound pretty rash now, but we had a lot of enthusiasm.

FIRST NAME BASIS

"We were given a job, and we assumed full responsibility for it. We'd work six days a week and 10 to 14 hours a day. It was all on a person-to-person basis. We called each other by our first names — from the boss on down — and there were no layers and layers of organization — we didn't need them.

"We were so used to working on Saturdays that one fellow put in for sick leave on a Saturday and the thing got all the way to Finance before it was caught. We'd use up all the overtime allowed, and then keep right on working.

"Those were my most enjoyable times because everything we did was an innovation. No one had experience in the missile business, so a fellow could become an expert in some field in a month.

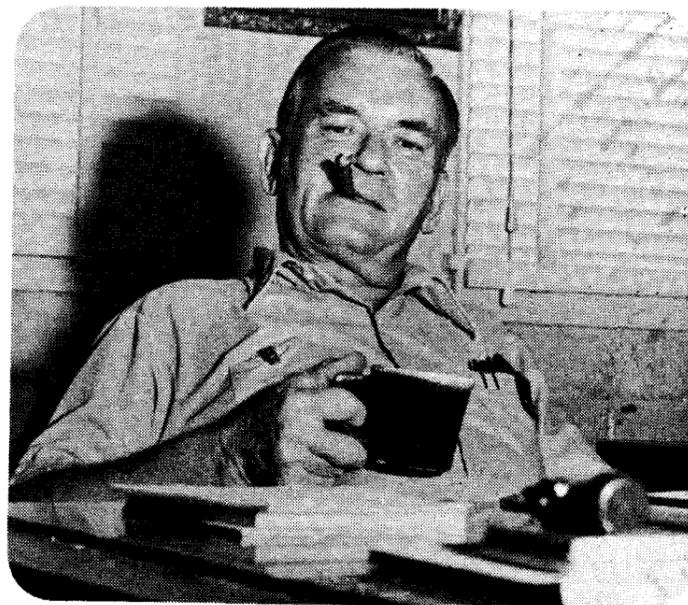
"We used to say the missile was held together by sturdy green cloth tape. We'd put that tape around it between sections, and when we recovered the pieces for analysis after a firing, that green tape had always held up.

"I remember one time to determine the cause of a flight failure, we recovered a section of the tankage that had filled with fish — they were dead and very ripe by the time we got to the section.

"I used to crawl up inside the missile after it was all tanked up before a firing to check the flow meters and make sure they weren't frozen. I tore many a shirt to shreds on safety wire doing that.

"Another make-shift arrangement we had was putting two orange crates with a board between them up on the platform near the top of the missile so we could check the angle of attack meter we had built. The device was greased to protect it from salt air, and there we were up there tettering on a board checking calibration.

"A Redstone missile doesn't look very tall from the ground, but when you're up there and there's nothing but an unsteady board between you and the ground, it's a long way down."



COX RECALLS . . . Redstone's Roar

Something Big In Store

"I recall it very vividly, the way it sounded," Lamar Cox said, then paused "... the terrible roar, the vibration you could see."

More than 20 years later Cox, who is supervisor of South Arsenal Maintenance, has come to know more spectacular goings-on, but none so impressionable as when the Redstone missile was static-fired here in the early 1950s. He was a World War II combat veteran, but nothing in the war had assaulted his senses like Redstone would.

The scene harks back to a time when the Arsenal was abuilding and Cox was a carpenter. He didn't quite grasp what was going on at the test area off Dodd Road near the shop where he worked, but word had it that it was something to do with rockets.

Cox is thickset, straightforward, genial. He does most of his talking through a cigar butt. In his first job here, he was one of a maintenance crew in old Building T 442, about where NASA 4655 is now. The crew could see the test tower from their

work site. They didn't know what it was for.

But they were caught up in the electric atmosphere that was the Arsenal then, when people didn't need a weathervane to know which way the wind was blowing.

"General Toftoy and all those German scientists had come in here, and you just felt something vast or great was going to happen," Cox recalled. "Along about this time most of us had viewed this German V2 that had been here — it's still here if I'm not mistaken — and it gave us some idea of what to expect in the future. We realized that possibly the same scientists that were involved in the making of this, here.

"We could see all that work going on up there," he continued, "but weren't sure what it was or what to expect.

"And on that day we were notified something was going to be fired, curiosity caused all of us to want to see as much of it as we could . . . and we watched it."

He remembers: "As we watched the blaze seemed to appear first, then the roar started. Sound traveling like it does, naturally you could see the blaze before the sound got to you. And it was straining at every cable that was holding it down.

"Our building was so close that they made the people get out of the one right below us and come up where we were at.

"I know that it was a beautiful day, and I imagine there were 8 or 10 of us from our shop out there watching, and maybe one or two of those boys from the carpenter shop below us. I daresay there wasn't a man there who wasn't a little scared when the vibration started. We were just on the verge of clearing out of there," Cox said, adding, "for myself, I'd have left that place for two cents!"

Looking at the test tower now, it seems impossible that it could have ever been connected with anything even remotely awesome. It looks alongside the NASA moonship stands like the product of an erector set. Vines creep up its lower parts, weeds fill the cracks in its concrete base.

It's amazing to think that now in just a few years time we've come far enough to put a laboratory in space and three men up there right now," Cox continued.

"But you know, sending those men up is no more exciting to me than seeing that first one going off.

"Yes sir," Cox went on, "back then never would I thought things that are happening now were going to take place. You know, we used to read those Buck Rogers books back when I was just a kid and the things those comic writers were writing about, well, actually they're coming to pass . . .



WEED GROWN, WEATHER BEATEN — The old stand here where Redstone was tested.

Hardly A Booster

The Redstone missile got its name from a man who thought it would fail.

Those who worked on the new, large missile here at Redstone in the early days of the program had called it "Major," a name the Army Ordnance Corps tried to formalize in 1952.

The thought behind that name was that it would honor Major James P. Hamill who had been in charge of the development team when the project began.

The general officer in the Army staff who had to approve the name however, had a different reaction.

Unsympathetic to the budding Army missile program, he rejected the name "Major" — according to the recollection of a man who was present — and said: "Call it Redstone. We're going to let it go up in flames along with the arsenal of the same name."

The Ordnance Corps dutifully issued an order dated April 8, 1952, designating the new missile "Redstone."

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MISSILE & MUNITIONS CENTER & SCHOOL
NAMES IN THE NEWS
 By SP4 Larry Marsh

Captain Manfred K. Heer is the new executive officer of the German Air Force Detachment at MMCS. He served previously with the German Air Force Material Command. Heer takes over for Captain Herbert E. Woelfel, who was at MMCS for more than two years. Woelfel will now command a Pershing unit at Geilenkirchen, near Aachen.

Specialist Four James D. Marett, Jr., of Company B and First Battalion, has been named Post Soldier of the Month for August. A 1969 graduate of Carroll High School in Ozark, Ala., Marett attended Clemson University for three years before entering the Army.

PFC Carl W. Radau will carry First Battalion hopes this month after winning battalion competition last week. A native of Delhi, La., and a graduate of Central High School there in 1970, Radau is assigned to Company B as an instructor in nuclear weapons.

Captain Jerry C. Walsh, commanding officer of the 4th ETC, received his RA commission last

week from Colonel Joseph A. DeSantis, School Brigade Commander. A graduate of Parkview High School in Springfield, Mo., Walsh received a B.S. degree from Southwest Missouri State College in 1968.

Honor Graduates

PFC John E. Christenson, assigned to the 8th ETC, was named honor graduate of his Pershing guidance and control technician class with a 96.88 class average. Christenson is a native of Cannon Falls, Minn., and received his B.A. degree from Dartmouth College in 1972. He entered the Army last October.

Private James O. Weeks, of the 6th ETC, took the honor graduate title in his Pershing electrical mechanical course with a 93.83 grade index. He is a 1973 graduate of Emmett (Idaho) High School and took his basic at Ft. Ord before coming to MMCS.

Another 8th ETC man, PFC Van E. Estes III, is the honor graduate in his Hawk radar repair course with a 96.99 average. He hails from Richmond Hill,

Ga., and graduated from Windsor Forest High School in Savannah, Ga., in 1971.



RADAU



WALSH



CHRISTENSON



ESTES



WEEKES

Luxemburg Students

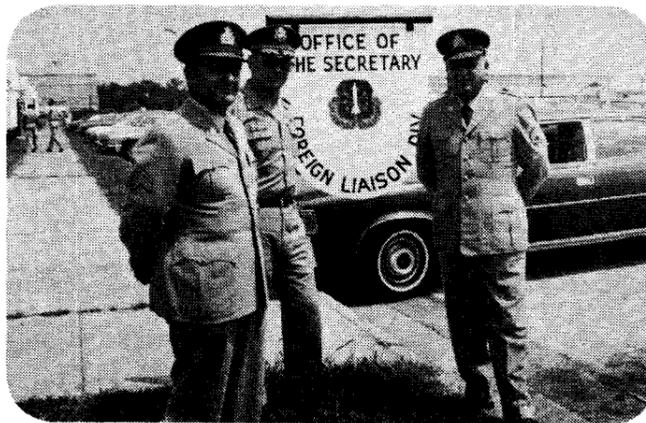
Two senior NCO's representing the Army of the Grand Duchy of Luxemburg arrived at the Missile and Munitions Center and School on August 8 to attend the wire guided missile system repair course.

This is the first time that MMCS has hosted students from Luxemburg. However, both students have had previous schooling with the American forces in Germany.

SGM Armand A. Wies entered the Army in December 1946 and attended a wrecker crewman course in 1951 and a logistics course in 1969 with an American unit.

Master Sergeant Raymond J. P. Thull entered the Army in May 1950 and attended an automotive electrician course with an American unit.

Both sergeants completed basic training at Walferdange and are stationed with an ordnance company in Luxemburg.



WELCOME ABOARD — MAJ Stephen Torok, Chief, Foreign Liaison Division (center) welcomes MSG Raymond Thull (left) and SGM Armand Wies to Redstone. The sergeants are the first students from Luxemburg to attend MMCS.



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- 1973 Astroglass 16' with 50 HP Mercury and trailer, rod locker, live well and cushion seats. Was \$2716. **NOW \$1995.**
- 1973 Warrior 16' Pro Model, I-O, 140 HP Mercruiser with trailer. Was \$4700 **NOW \$3395.**
- 1973 Warrior 16' Pro Model, with 50 HP Mercury and trailer. Was \$3185 **NOW \$2295.**
- 1973 Sea Star with 50 HP Mercury and trailer. Was \$2250. **NOW \$1650.**
- Challenger Mark II with 65 HP Mercury and trailer, live well, storage and pedestal seats. Was \$3390 **NOW \$2500.**

RUNABOUT SPECIALS

- 1973 Alacraft 15' Deluxe Model, bowrider with walk thru windshield 50 HP Mercury and trailer, with canvas top. Was \$3000 **NOW \$2250.**
- 1973 Alacraft 15' Standard model, bowrider with walk thru windshield, 50 HP Mercury and trailer with covers. Was \$2700 **NOW \$1995.**
- 1972 Alacraft Taittwister, 140 HP I-O Mercruiser, 4 gauges and trailer. Was \$4800. **NOW \$3708.**
- 1973 Correct Craft Mustang, 235 Holman Moody Inboard engine with trailer. Was \$5600. **NOW \$4750.**
- 1973 Marlin, 18' Aquarius Jet Boat, full gauges, with 455 HP Olds engine with trailer. Was \$6000. **NOW \$4750.**
- 1973 Caravelle Chimera 18' V hull, 188 HP Mercruiser, on trailer with serge brakes, Was \$6295. **NOW \$4850.**
- 1973 Caravelle, 16' Stingray, V hull, 130 HP Volvo, on trailer with serge brakes. Was \$4850. **NOW \$3695.**
- 1973 Caravelle Barracuda, 17' Bowrider with walk thru windshield, 24 gal. tank and full covers, 85 HP Mercury, on trailer, with serge brakes. Was \$4460. **NOW \$3495.**
- 1972 Caravelle Barracuda, 16' 140 HP Mercruiser I-O, on trailer with serge brakes. Was \$4995 **NOW \$3995**
- Yukon Delta Houseboat, 21' with all living features, and trailer. Was \$4650. **NOW \$3375.**
- 1973 Atex Atv multi terrian Mud Buggy, Was \$1025. **NOW \$880.**

USED BOAT SPECIALS

- Ebb Tide, 14' Bass boat with 40 HP Mercury, trolling motor, and trailer, Was \$2150. **NOW \$1405.**
- Basscraft, 15' with 50 HP Mercury, and trailer. Was \$2200. **NOW \$1595.**
- Fabuglass Runabout with 95 HP Mercury and trailer. Was \$1995. **NOW \$1550.**
- Glasspar Bowrider with 60 HP Evinrude and trailer. Was \$2350. **NOW \$1750.**

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Military Briefs

NEW ARRIVALS

MICOM

SP4 William A. Lagnese
 SP4 Jeffrey Matthews
 SP4 Lester Pittman
 SP7 Mikhall J. Brown
 SP5 Kenneth R. McNair
 SFC Carry Choat
 SGT Bobby W. Zehner
 SP4 Donald R. Johnsey
 PV2 James R. Fatz
 SP5 John R. Buquo
 SP4 Timothy P. Stewart
 SP4 Edward D. Barko
 PFC Omer S. Brown
 SSG Arthur R. Foster
 SP5 Bobby G. Davis
 PV2 David A. Moudy
 SP4 Bill E. Roberts
 SP4 John H. Garceau
 SP4 James D. Mayer
 SP4 James E. Hooper Jr.
 SP5 Billy R. Lambert
 SP5 Rollin E. Shelton
 SP4 Ronald H. Pollock
 SP4 Rodney S. Earhart
 SP4 Donn D. Smith
 SP4 Clem A. Simmons
 SGT Gary E. Johnston
 SFC Jose Lamar-Guerra
 SGT Lawrence E. Ingold
 PV1 Robert K. Williams
 PFC Clarence R. Stiffler
 SP4 Lee R. Roe
 PV2 Michael P. Kirkland
 SFC Roland S. Cole
 SP4 Allen W. Smith
 SP6 Charles W. Horton
 SP5 Gary H. Flahart
 PV2 Rhody C. Maples
 SP4 David E. Turner
 SP4 Steven R. Clark
 PV2 William E. Wilson
 SP5 Kevin E. Williams

MEDDAC

SP4 Terry T. Sillis
 SP5 Ordley C. Stewart
 PV2 Jon S. Hallmark
 SP5 Earnest F. Westfall
 SP5 Winford R. Howard
 SGT Robert G. Donnellan
 SP6 Hoyt L. Claburn
 SSG Shelby N. Stewart

REENLISTMENTS

MICOM

SP4 James W. Zimmerman
 SP4 Stanley D. Horne
 SFC William L. Patton
 SP5 Lynn R. Poskey
 SSG Ronald L. Myers
 SP4 Leslie L. Grayson
 SP6 Robert J. Colwell
 SP6 William H. Polk, Jr.

MEDDAC

SP5 Merlind K. Cannon

PROMOTIONS

MICOM

To SSG: Ruben Bastidos
 To SP5: Collis H. Sims Jr.

MEDDAC

To SP5: Clinton C. Coughren

ARMY

COMMENDATION MEDAL

MICOM

1LT Michael C. Guilbault
 MAJ Robert E. Eldredge
 SGT Gary A. Knight
 1LT Carlton A. Perkins
 MAJ Kenneth A. Ingram
 1LT Edward N. Donnelly
 MSG Joe L. Van Roey
 CPT James L. Morris Jr.
 SPT Roderick L. Lane III
 CPT Harry R. MacDermaid
 CW2 Willie H. Hunter
 CW2 Gerald T. Minton
 SGT Bruce W. Speck
 SGT Clarence L. Sharpe
 SGT James E. Johnston
 SFC Kittrell Higginbotham
 CW2 Marion E. Gates
 SFC Wayne L. Schnitzmeier
 SGT Delbert E. Weaver

MEDDAC

MAJ Alfred R. Louis
 MAJ Donald H. McClure
 SFC James Burks Jr.
 SP4 Larry R. Casper
 SP4 Robert A. McDaniel

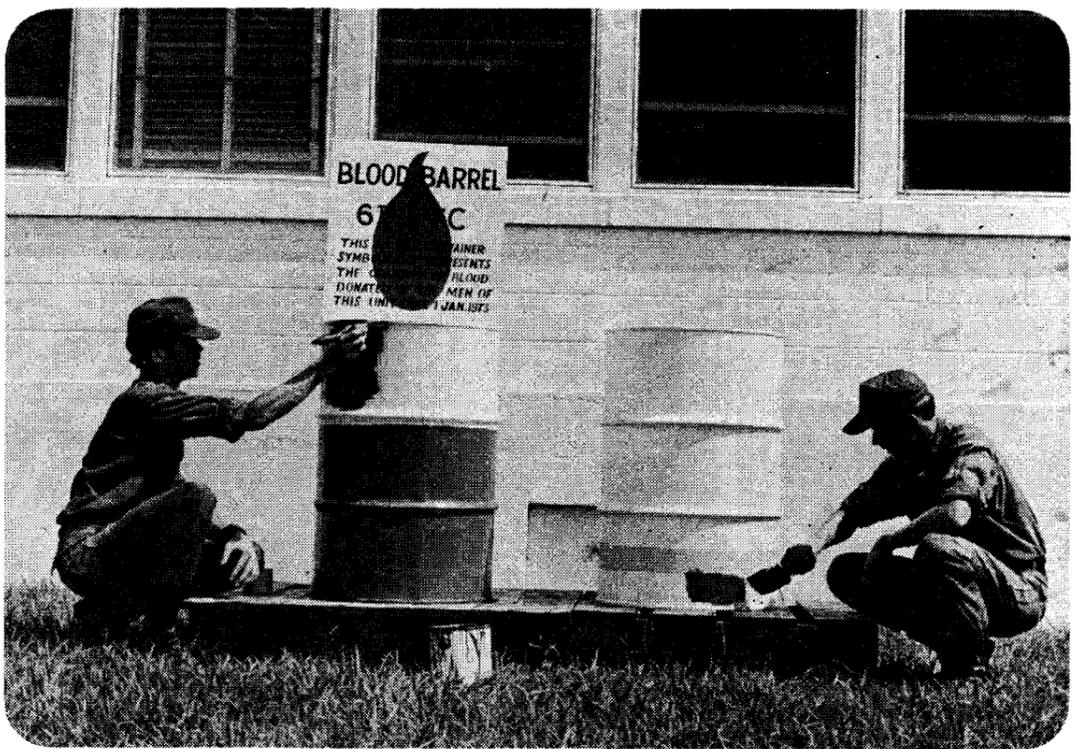
CERTIFICATE OF ACHIEVEMENT

MICOM

SP6 Eldridge L. Stafford
 SP6 Harry P. Stevenson
 SP6 Jose C. Hinojosa

MEDDAC

SP5 Charles E. Franklin



OVER THE TOP — Privates Paul DeWitte (left) and Kevin McLaughlin of the 6th Enlisted Training Company bring the unit's blood barrels up to date. Units throughout the School Brigade's 3rd Battalion display blood barrels, and the 6th ETC currently leads with three large-unit blood donor trophies. During the last Bloodmobile visit, the unit recorded 80 percent participation.

Major Yawn Named SJA

Major Malcolm T. Yawn is the new MICOM staff judge advocate replacing Lieutenant Colonel Cecil R. Morrow, Jr., who transferred to Washington, D. C.

Yawn came to Redstone from the office of the Judge Advocate General at the Department of Army. He was chief of the legislative and major projects team in the military justice division.

A native of Fulton, Miss., he

attended Columbia Military Academy, Columbia, Tenn., and later received a bachelor of business administration degree and the LLB degree in law from the University of Mississippi.

He served in the U.S. Army in Vietnam, 1968, and the Army from 1952-1964 and then re-entered in 1964. Permanent as-

signments have included Camp Rucker, Ala.; Ft. Bliss, Tex.; Ft. Benning, Ga.; and Ft. Jackson, S. C. In addition, he completed a tour in Vietnam, 1967-68.

Yawn received the Bronze Star Commendation Medal at Ft. Jackson, 1972.

POST THEATRE

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THURSDAY-FRIDAY

"Kid Blue" (PG)

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FRIDAY

"Catch 22" (R)

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SATURDAY

Walt Disney's "\$1,000,000 Duck" (G)

SUNDAY-MONDAY

"Scorpio" (PG)

INCREASED ADMISSION: adults 75c, children 35c

TUESDAY

"Play Misty for Me" (R)

Two shows nightly at 6:00 and 8:30 p.m.

Sunday matinee at 2:30 p.m.

Invitational Bids Mailed

The Redstone Officers Wives Golf Group will hold its fourteenth annual invitational tournament at the Special Services Golf Course Thursday, September 6.

Invitations have been sent to 36 clubs. Entries will be restricted to 80.

Prizes will be awarded the winners of low gross and low net in each of the eight flights.

A continental breakfast is planned and a snack. The combination luncheon-dinner at the Officers Open Mess will take the place of the regularly scheduled monthly luncheons and business meeting. Presentation of awards will be the order of business.

Tournament chairman is Bev Payne who can be reached by calling 881-8879.



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CWF-Marshall Playoff Finals Tomorrow

Materiel Management Looking For Sweep

Materiel Management will go after a clean sweep of slo-pitch titles tomorrow evening when the All-Redstone finals are played at the Tennessee River Recreation Area.

The Civilian Welfare Fund League winners made it to the final game with three straight wins last week. Their opposition will come from the survivor of a pair of loser's bracket contests this week.

The last two Marshall hopefuls, Procurement and the Astros, met on Monday afternoon, and the CWF runner up took on the winner of that game yesterday.

Materiel Management opened tourney action with an 8-2 win over the Jugs and MISD gave the Army civilians a first round split with a resounding 15-0 rout of SSL.

The MARS victories were scored by the two teams still in the running. The Astros hung an 18-6 defeat on Finance and Accounting and Procurement out-defended GEM, 7-2.

Dave Bryant homered with two mates aboard as MM got off to an early 12-3 lead over the Astros and then had to call on all of its defensive finesse to

hang on for a second round win, 13-11.

MISD still had their hitting togs on in shellacking Procurement, 13-3, as Jody Winkles provided the spark with a second inning grand slam.

The other two Army squads bowed out on Tuesday after two straight losses. The Accountants came up a run short in falling before the Jugs, 9-8, while GEM dropped a 9-7 nod to SSL.

In Thursday night action MM qualified for the tournament finals with a 9-5 decision over MISD as Jay Allen turned in his third straight three-hit performance and Lindon Calvert kept the MISD hitters at bay for his third win over the week.

Procurement shunted the Jugs to the sidelines with a 12-5 defeat and the Astros advanced over SSL, 13-8.

Thursday's game is scheduled for 5:30. In the event Materiel Management comes up short in that contest, the playoff will be played at the Rec Area on Monday at the same time.

The final curtain falls on the civilian slo-pitch season on Tuesday evening with the annual all-star game between the best performers in the CWF league and those from the Marshall Center.

Arsenal Hosts Pistol Matches

Soldiers of the Redstone Arsenal Pistol team competed against marksmen from four states to take honors in a recent pistol match at the Blue and Gray Pistol Club at Guntersville.

Staff Sergeant Pete Alley took first place in .38 caliber centerfire,

second place with the .45 caliber and second place in grand aggregate total.

Specialist 6 Danny Alexander placed fifth in the marksman class for novices.

Other Redstone participants were Warrant Officer Ray Martin,

a newcomer to the team, and Warrant Officer Donald St. Germain.

The Redstone team will host pistol matches on Aug. 26, Sept. 23, Oct. 21 and Nov. 18. A team spokesman welcomed spectators to the matches.



FIRST DISTRICT CHAMPS. The MICOM girls slo-pitch softball team is pictured during a practice session just prior to the state tourney. They are, left to right, kneeling: Barbara Roberson, Tina Brown, Donna Hudson, Pat Whisenant, Pat Bryant and Dwayne Kidd, coach. Standing are, Bill Michaels, manager, Gladys Hill, Sara Fisk, Ginny Beard, Glenda Kidd, Sherry Gray, Kathie Leeth, Pat Shipp and Cena Taber.

Page 14 THE ROCKET — AUGUST 22, 1973

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509 MADISON STREET, HUNTSVILLE, ALABAMA

More WACs Slated

You won't find her running down the hall wrapped in a bath towel, sporting curlers in her hair. Specialist 5 Karla Judkins knows her limitations. She is adjusting to her distinction as the only woman at Redstone living in a barracks with 105 enlisted men.

"I'm just glad to have permanent quarters," says the young WAC from Lincoln, Nebraska. "Since coming to Redstone on July 2, I've lived in the BEQ and then in the Guest House."

Then there is the obvious question. How is the arrangement working out? According to Specialist Judkins she's had no problems. "Oh, of course, I've received a lot of kidding but I don't mind it. It's all in fun."

The young woman's quarters are slightly separated from the quarters of the enlisted men, which offers some added privacy. Before she moved in, some remodeling was done and she finds the quarters very comfortable.

Specialist Judkins works in the OB-GYN Clinic at the U. S. Army Hospital, Redstone. She says she is enjoying her work and has learned a great deal during her 19 months of military service.

After basic training at Ft. McClellan, Ala., she was assigned to Ft. Sam Houston, San Antonio, Tex., and then to William Beaumont General Hospital in El Paso, Tex.

If she sometimes feels a little alone now, things may look different next year. The 1974 military construction program, which is now being reviewed for Congressional approval, proposes appropriated funds for the establishment of a WAC barracks at Redstone.

Six barracks on post have been recommended for upgrading under the construction plan including 3481 which would be remodeled to accommodate 126 WACs.

If Congress approves the program, it will probably be this

fall. Bids from contractors would be accepted shortly thereafter, with construction tentatively scheduled for early 1974.

Until that happens, Specialist Junkins will enjoy her new home in the former man's world of building 3434.



KARLA JUDKINS

Hunters' Briefing Set For Saturday

The second and last of the pre-season mandatory hunter briefings will be held Saturday at the Rod and Gun Club at the intersection of Patton and Martin Rds. beginning at 9 AM.

In the event of rain, the session will be held in the Post Theater.

Several hundred soldiers and civilians planning to hunt on the post this year attended the first session last week.

The two hour briefing includes hunting safety and an orientation on Arsenal hunting regulations. Individuals who plan to hunt on the post this season must attend the lecture to be eligible to apply for hunting permits.

The Huntsville Chapter of the Institute of Electrical and Electronic Engineers Control Society meets for a noon luncheon tomorrow at the Officers Open Mess.

Guest speaker will be Henry A. Padinka, IBM Federal Systems Division. His topic will be "Divergence in Redundant Guidance, Navigation and Control Systems." For reservations, call Jim Baumann, 876-2038; Klaus Danenberg, 533-0090; or Jim Smith, 837-4000, ext. 2713, prior to noon today.

Why settle for a car when you can own a Cadillac?

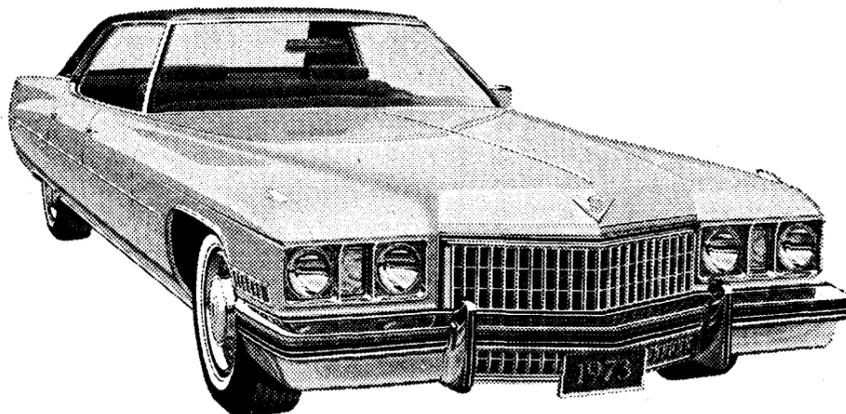
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Nell Gaylord 881-7865

Details Take Little Longer

Though the Missile and Munitions Center and School became part of the Training and Doctrine Command July 1, a few extra details took a little more time to be completed. One such detail was switching the old CONARC shield to the TRADOC emblem, a chore handled neatly by men from the Facilities Engineers.

A crew of three men recently brought a 20-ton crane, and with its 65-foot boom installed the new

TRADOC shield within minutes. The shield is a replica of the shoulder patch worn by all TRADOC soldiers, a circle with verticle stripes, blue, yellow and red, left to right (or front to back). MMCS soldiers will continue wearing the MMCS shoulder patch: a yellow missile crossed with a yellow torch of knowledge, all on a crimson verticle lozenge with rounded corners.

Dial 112 For Redstone News

AUCTION

SATURDAY, AUGUST 25 AT 10:00 A.M.

45 Acres—8 Tracts

Belonging to The Estate of the Late
MR. L. R. WALLACE

Located: 6 miles S.W. of Fayetteville
18 miles East of Ardmore
23 miles North of Huntsville—on State Highway # 110 and the Camargo Road.

WATCH FOR SIGNS

This is one of the most desirable farms ever to be offered in Lincoln County with unlimited possibilities as to its uses. To accommodate the wishes of the buying public we have divided this unit into 8 parcels each of which lends itself to residential, agricultural or subdivision purposes. UNRESTRICTED FOR YOUR INVESTMENT PROTECTION.



TRACT 1—Containing 8.3 acres and improved with a comfortable frame house containing 5 rooms and bath, setting among some of the most beautiful shade to be found. A ready-made homesite offering the advantages available only in an established home place. There is an excellent potato storage house, barns and other outbuildings. This tract is mostly fenced and sown to improved pastures. Watered by an excellent well and stock pond—an ideal unit.

TRACT 2—Containing 5.2 acres fronting Camargo Road all open and sown to pastures. Improved with small frame house which could be used for week-end privacy. Watered by good well. Beautiful building sites and excellent soil type.

TRACT 3—Containing 7.5 acres all open with long road frontage on Camargo Road. This tract is sown to pasture and has an elevation that offers an excellent view with perfect setting for your individual home or numerous houses. A nicer tract could not be found.

TRACT 4—Containing 8.9 acres of excellent land with long road frontage and all sown to pastures. This tract is slightly rolling and has sufficient depth to accommodate a small farming operation or further development as you may wish. Be sure to look at the possibilities. City water available. A perfect tract to insure you an income as well as privacy.

TRACT 5—Containing 2.7 acres fronting Highway # 110 a distance of 211 ft. One of the nicest small building tracts available today. City water in front of property. Large enough for your home, outbuildings, garden, pasture.

TRACT 6—Containing 1.8 acres and fronts Highway 110 a distance of 211 ft., with city water in front of property. Ideal tract with ample room for you to have all the things offered only in country living.

TRACT 7—Containing 6.2 acres located behind 1-2 and 3, with a 50 ft. R.O.W. leading to the Camargo Road between tracts 1 and 2. This tract is all open and level. Buy it and build where privacy is a certainty. The soil is excellent and is located only 1000 ft. off blacktop road. If you dream of a "PRIVATE" baby farm—this is it.

TRACT 8—Containing 3.3 acres and is mostly open with small amount of woods. This tract is located on the extreme northern portion of farm and adjoins tracts 4 and 7. Would fit well in conjunction with either of these tracts, to give you the extra acreage you might want. Sown to lespedza which crop is reserved to sellers.

As a unit, the farm is mostly fenced and ready to produce. Buy one or several of these tracts and have your own farm unit or develop your own subdivision. Investment in Real Estate is the safest investment on earth as Real Estate is the Foundation of All Security.

LOCATION: Perfect—being near church, markets and school and employment in any of the towns of the area.

POSSESSION—Tract 1—30 days from date of deed—or as agreed between buyer and occupant. Immediate on remainder of tracts—except TRACT 8.

For further information contact either of the heirs, attorney or agents.
Roy C. Wallace, Extr. 433-6948
John V. Matthews, Atty. 433-4588

Owners and Agents reserve the right to sell separately and/or regroup in any manner they may decide to bring the most money.

Sale to be held Rain or Shine.

Being sold for division.

Terms—20% cash date of sale—balance upon delivery of deed.

Agents will assist in financing if desired.

Information contained in this advertisement is derived from sources believed to be correct but not guaranteed by Agents.



Auctioneer's License No. 52



JUST HANGING AROUND — Harold Stacey swings in a bosun's chair after installing the new Training and Doctrine Command (TRADOC) shield to the left of the MMCS nameplate on the headquarters building. Wilburn Gross is the crane operator, assisted by Clyde Callahan on the ground. All three men work for the Facilities Engineers.

Just Thought You Were Interested

Turnip lovers are reminded that it's not too late to sow a patch. But it will soon will be.

Nell Rudd, one of Maintenance Directorate's resident garden gurus, says she likes to sow a few radishes along with the turnips.

The radishes repel the bugs, and they will do fine in the cool weather.

Turnip plants are hardy and will grow in almost any well stirred soil. Both the tops and the turnips, singly or in combination, raw or cooked, are considered a delicacy

by many outside of Dogpatch.

It's reported that successful fall sowings may also be made now of mustard, kale, rutabaga, endive, rape, and lettuce. But don't wait. They all need a strong start before it gets cold.

Stockton's Close Out

CLEARANCE!

NOW is the time to get the best buy on your new Buick or Opel at STOCKTON. Every style, every model made... we have it — and, it's Close Out Priced.

Apollo

BY BUICK

This is the car you've been looking for . . . Apollo by Buick. Fully equipped with a 350 V8, Turbo Hydramatic, AM radio, white wall tires, deluxe wheel covers, protective body side moldings, vinyl roof, beautiful custom interior, and much more.

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PHONE 539-9651

OPEN DAILY 8:00 A.M. 'TIL 9:00 P.M.—SAT. 'TIL 5:00 P.M.

Compete For Little Miss



VICKY MORENO

Carolyn Paige Grissom and Vicky Lee Moreno are competing this week for the "World Little Miss" title in New Orleans.

Paige is the daughter of Mr. and Mrs. Charles M. Grissom. Her mother is employed at the Equipment Management Division, Redstone Arsenal Support Agency of the Missile Command.

Her first year for beauty competition, Paige was named Little Miss Beta Sigma Phi and won Best 11-year Old in Madison County's Our Little Miss contest. She attends Rolling Hills School, and she is a member of the Up Girl sorority.



PAIGE GRISSOM

In New Orleans she will compete in sportswear, party dress, and perform a talent skit singing Joy To The World.

Vicki is the daughter of SFC and Mrs. William L. Moreno. The sergeant is assigned to the Missile and Munitions Center and School. Previously named Madison County's "Our Little Miss," Vicki was named Alabama's best tap dancer during four days of competition at Troy State University. She attends Madison Pike school.

In New Orleans Vicki will model sportswear, party dress, and perform a three-minute tap dancing routine.

55th Presents Sunday Concert

The 55th U. S. Army Band will present a variety concert at the Post Service Club Sunday afternoon starting at 2:30.

Chief Warrant Officer David G. Mathis will conduct the concert band in the presentation of classical music.

The stage band, directed by Staff Sergeant Andrew Walton, will present middle of the road music

from stage and popular tunes, while Specialist 4 Larry Golden leads a rock combo.

The band is seeking musicians with skills in all instrumental categories including piano, guitar, reeds, percussion and wind instruments.

Present plans call for a monthly concert with appeal for the whole family according to Mathis.

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CURIO SHOP
PARKWAY CITY

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1973 VALIANT DUSTER 2 DOOR COUPE



Bench seat, cloth and vinyl, manual transmission with column 198 CID 6 cylinder engine, torsion air ride, electronic ignition system, front and rear bumper guards, and all Chrysler safety features.

ST. NO. V-1238

REDUCED TO

\$2350⁰⁰

TAX & TAG

1973 CHRYSLER NEW YORKER 4 DOOR SEDAN



6 way power bench seat (vinyl), torqueflite transmission, 440 CID V-8 engine, tinted glass, air conditioned, AM radio, vinyl roof, body side paint stripes, whitewall tires, deluxe wheel covers, power steering, power disc brakes.

ST. NO. C-5081

REDUCED TO

\$4924⁶⁷

TAX & TAG

1973 SATELLITE CUSTOM 4 DOOR SEDAN



Cloth and vinyl bence seats, torqueflite transmission, 318 CID V-8, tinted glass, air conditioned, vinyl roof, vinyl side body moulding, whitewall tires, deluxe wheel covers, power steering, power disc brakes, AM radio.

ST. NO. P-3205

REDUCED TO

\$3618¹⁶

+TAX & TAG

1973 SPRINT HIGH SIERRA



Automatic transmission, 350 CID V-8, white side wall tires, custom appearance, power brakes, power steering, electric windows, air conditioned, console, gauges, auxiliary lighting, custom outside mirror, radio, bucket seats, chrome wheel covers.

ST. NO. T-9088

REDUCED TO

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CHRYSLER



ON BOB WALLACE JUST OFF THE PARKWAY

There Must Be Faster Way

For five years, Staff Sergeant Giorgio Magarotto, U.S. Army, was a man without a country.

He became an American citizen last week after seven years of effort and disappointment. In spite of the long wait, Magarotto says he's not bitter about the experience. In fact, he's just re-enlisted for six more years of military service.

"I just wish there was some kind of program to help soldiers who want to become citizens," he said.

Though he admits he got help from the Army, the help he got was usually a handful of forms to fill out. He said he had hoped the Army would grant administrative leave, perhaps even provide travel for soldiers who want to be citizens. He had to do it all at his own expense.

Sergeant Magarotto, 30, born and raised in Padova, Italy. He graduated from Pietro D'Abano, a language institute at Padova, in 1961. He then worked as an interpreter of French and Italian for a branch of Citroen Company at Padova.

He entered the Italian Army in 1964 and left about 15 months later as a second lieutenant. His father had died earlier and Magarotto, the eldest son in the family, was released from service to support his mother.

LIKED THE OFFER

He emigrated and found a number of jobs in the midwestern

U.S. By 1966, he was looking for a better job, and liked what the Army offered. He enlisted in August.

After his training, he was sent on tours of duty in Itlay, Puerto Rico and Vietnam.

"I tried to become a citizen before I went overseas, but the naturalization office in Chicago said there wasn't enough time for the paperwork between my application and reporting date for overseas duty," said Magarotto.

Magarotto said it seemed to be a question of which came first — the chicken or the egg. Each time he could come close to getting his citizenship, he was assigned outside the U.S. before paperwork could go through.

If there are legal provisions for soldiers stationed outside the U.S., Magarotto said he didn't know about them. He says he did know that military service with one NATO signatory nation could exempt him from the draft in another.

Early in his seven-year quest for citizenship, Magarotto was assigned to duty in Italy. Since he was still listed as a citizen of that country, he would be required to vote. Voting is compulsory in Italy. The usual penalty for not voting is a nominal fine, about the equivalent of a dollar, according to another naturalized U.S. citizen from Italy.

Magarotto reported to the polling place in his American uniform. At

the polls, however, voting officials threatened to revoke his Italian citizenship if he didn't exercise his franchise.

REVOKED

Magarotto says he didn't vote, and his Italian citizenship was revoked soon after. His wanderings from one Army assignment to another continued, he says, until he arrived at the Missile and Munitions Center and School, fresh from a European tour.

Magarotto had taken leave from MMCS and paid his own way to Chicago, where his wife, a telephone operator, lives and works. Because his wife, a U.S. citizen, lives in Chicago, he decided to go through the Chicago office of the Immigration and Naturalization Service.

With his current enlistment contract almost up, the administrative sergeant wanted to reenlist for a particular assignment back in Europe. Once again, he says, a clerk said he should fill out some forms, then go home and wait.

He didn't have time to wait. He had to take the oath and leave for Europe within days.

He explained to the clerk he expected to be assigned to Europe, but would not have orders until he re-enlisted. He couldn't re-enlist for a special assignment unless he was a citizen. (The chicken or the egg?)

"I tried to explain to the woman, but she wasn't listening," he said.

"I can understand the problem of people working in an office like that. They have thousands of nervous aliens going through that office trying to get U.S. citizenship; some of them speak no English," he said.

Magarotto's English is impeccable. So is his French. Italian is his native tongue, but his Spanish and German are little rusty, he admits. He's also studied Esperanto, an artificial language once hoped to become a universal tongue. The Esperanto vocabulary is based on cognitive words of the chief European languages, without sounds peculiar to any one of them.

"They could use some interpreters at the naturalization office," Magarotto quipped.

In near desperation, Magarotto told subsequently higher ranking personnel in the office that he would remain there until his problem was resolved. He was quite determined to see it through.

THE RIGHT MAN

"I finally got to see the right man, and he told the people there of get going on my application," he said.

Magarotto telephoned Master Sergeant Raymond L. Lebeau, one of two career counselors at MMCS, to get a letter explaining the situation to the naturalization officials.

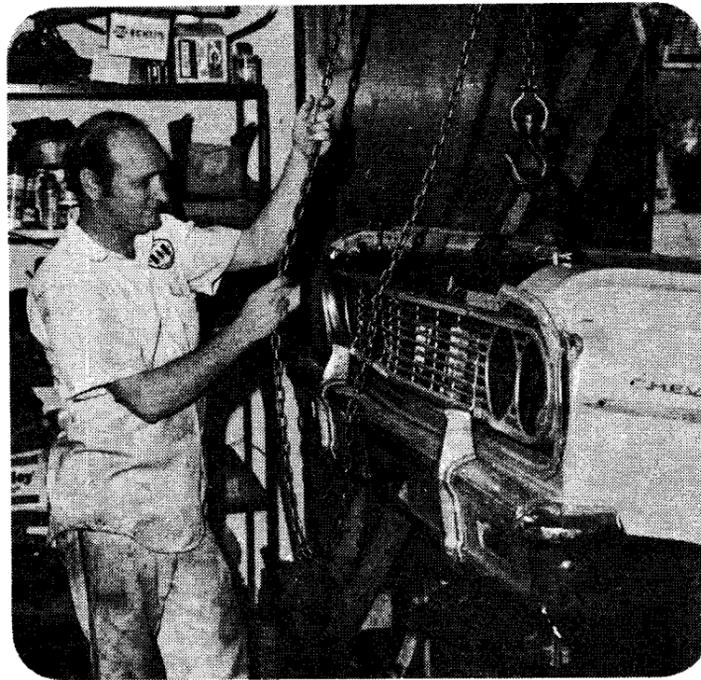
Lebeau sent one, airmail. Two days later, Magarotto was an American citizen, ready to renew his commitment to service in the Army.

On the way back to Huntsville and MMCS, Magarotto's plan was approaching Nashville, an intermediate stop on the flight.

During the approach to Nashville, the plane descended through rough weather above the hills surrounding the city.

"The weather was so rough, I got a little scared," Magarotto admitted, "but I felt that if I was going to die in a plane crash, at least I would be an American citizen."

The plane landed safely and Magarotto continued on to MMCS in time for his appointment to re-enlist.



JOHN CONNER

... Another Winner?

Rest and Relaxation Is Working On Stock Car

Happiness for John Conner is a pair of greasy coveralls, some tools and a stock car he can work on.

Conner is an Equipment Specialist in the Directorate for Maintenance and likes his job, but after a day in the office he likes to relax and work on stock cars that he builds for racing.

It all started in 1959 when Conner bought an old 1939 Ford and rigged it for racing on an oval track. With an old Army buddy driving, Conner's car won the first time out and went on to post 16 heat victories in a row in dirt track competition.

With an all victorious start in stock car racing, Conner bought a 1934 Ford and cut it down for the modified class competition. During two years of racing and several different drivers, his entry won a few races but never won consistently as his first car did.

Having tasted success and not wanting to stick with a loser, Conner bought a 1958 Ford and joined the National Stock Car Racing Association (NASCAR) in 1961. His new car did well in competition so he sold it to his driver and decided to build one and race it himself.

Conner bought a 1952 Chevrolet, modified it and started driving himself in the Cadet class for beginning drivers. His driving

debut was a success and he never finished lower than fifth place while he owned the chevy.

While he has built and raced 12 different stock cars, a 1957 Chevy has been his biggest success. This car was so successful that its winnings more than doubled the original cost of the car.

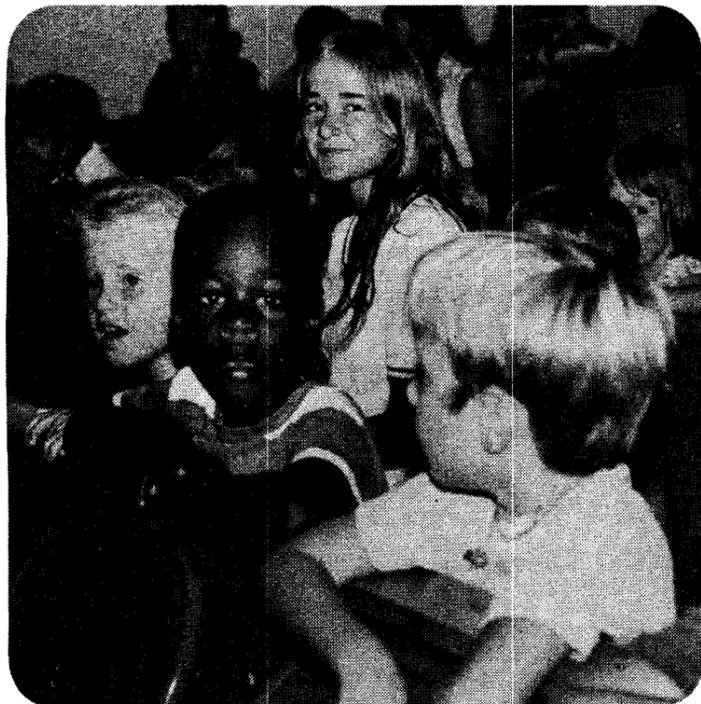
After six accidents in which his cars were totally wiped out, Conner retired from driving, but kept on building stock cars and picking his own drivers.

His largest single purse was \$800 when his car finished second last year in Nashville and Bristol, Tenn. Jones Farrell, his driver, brought the 1969 Chevelle in second during a close race.

The Conner racing team has run in Huntsville, Birmingham, Montgomery, Jackson, Miss.; and Macon, Ga., Nashville and Bristol, Tenn.

For Conner the challenge of designing and building his own cars in his backyard garage is his biggest thrill. He is now getting a 1969 Chevelle ready for the big race at Charlotte, N.C. later this month.

One thing for sure, Conner's enthusiasm for stock car racing is contagious. When he needs a pit crew he calls on Lee Milligan, Tom Billings, and Carl Hanzlik of the Technical Publications Division and Bill Crum of Air Defense Systems.



SING ALONG — When you are three to five, lots of actions helps to remember the words sung during vacation Bible School. This is the first year the Catholics have held a summer education program at the Post Chapel for the youngsters. The youngsters in the picture are in the Chapel Annex and represent the Protestants.

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3	250.00	651.16	8-1-84
1	500.00	1,357.67	2-1-85
1	500.00	1,415.37	8-1-85
2	500.00	1,475.55	2-1-86
1	500.00	1,538.25	8-1-86
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3. Miscellaneous

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Hostile Pay Out

(ANF) — Hostile-fire pay will be discontinued, September 1, for servicemen stationed along the DMZ in Korea.

That stretch of land has been designated a hostile-fire area since April 1968. But now it's been decided that present conditions no longer justify continuing the special pay.

AATSCO Transmissions

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HALE BROTHERS

DOWNTOWN HUNTSVILLE

In Furniture City

Caltech adds ROTC

John C. Calhoun State Junior College has added Army ROTC to its program starting with the fall quarter.

This makes available to Caltech students the same two-year program of basic ROTC instruction normally offered during the freshman and sophomore years at four-year colleges and universities.

ROTC courses at Caltech will be offered for college credit to both men and women students and does not involve any military obligation. Courses will emphasize management and leadership training, military history, and a general study of the Army and its role in national defense. Students taking ROTC will earn one credit hour per quarter for one class meeting and one leadership laboratory meeting each week.

A spokesman for Caltech indicated that students may wish to take ROTC courses for general elective credit or for transfer to a four-year school with a four-year ROTC Program where both men and women students may earn commissions as Second Lieutenants in the Army.

Students completing two years of ROTC instruction are also eligible for enlistment in the Army, Navy, Marine Corps or Air Force with advanced rank and pay as enlisted members.

Heading the Caltech program is Captain James R. Henderson, a Morgan County native and ROTC graduate of Florence State Uni-

versity. He has been serving as Assistant Professor of Military Science at Florence State and is a veteran of assignments in Vietnam and Germany.

Caltech students interested in ROTC should contact Captain Henderson during registration on Sept. 4th and 5th.

THE ROCKET — AUGUST 22, 1973 Page 19

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Jim Lowe

Baker Home Of The Week—

ABANDON ALL HOPE . . . of ever house hunting again once you enter the front door to this elegant foyer. Living room and formal dining room has White Shag carpet and custom drapes. Kitchen features all stainless steel appliances, including double oven, large pantry and extra cabinet space. Separate breakfast room with wallpaper overlooking patio, large den with fireplace, Downstairs has large bedroom with full tub bath. Upstairs is three more bedrooms and two full baths, master suite is tremendous and has double built-in vanities with dressing area. All bedrooms have double closets. This home was custom built for owner. **FIRST TIME OFFERED! CALL NOW! BAKER REAL ESTATE 536-1536 or nights 852-2601, MARGO PERRY.**



Charles Weaver



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“The Army’s what you make of it. And I’m makin’ it.”

Sergeant James Thomas likes his job, and likes to talk about it.

“I’m in light vehicle maintenance. And every day there’s something different. That’s what keeps it interesting.

“Whenever I go home, my friends are always complaining about their jobs. And some of them aren’t even working!

“But I like what I do. And my wife and I like the life. The shopping’s good. The schools are good. And the medical service is great. So we’re making it fine.”

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