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Evolution Of A Weapon

Homework Pays Off

Early on a gray November morning in 1956, a carload of Redstone Army engineers enroute to Fort Rucker, stopped for breakfast in the neighboring town of Ozark.

Relaxed and joking, lingering over hot coffee in the Ozark Cafe were Corbet Cornelison, Bill Newby, Norm Comus and Reid Hopper.

"One of us flipped open a newspaper," Cornelison remembers, "when, suddenly, all of us nearly choked at what we saw."

Jumping at them was a front page story about Secretary of Defense, Charles Wilson, who had just announced responsibilities of the Army, Navy and Air Force in developing and deploying missile systems.

"Shall we go home now?" someone asked. "Maybe we should go on to Rucker since we're almost there," another countered.

They decided to go on.

Wilson's edict had caught them broadside. Of particular concern was a directive that forbade the Army to arm helicopters, the reason Cornelison and the Redstone engineers were traveling to Rucker.

"We had done a lot of homework in aircraft armaments," Cornelison said, "not only on rocket, missile and launcher design, but on aircraft installation and system testing as well. Rucker was looking to develop an armed, airmobile force so we were meeting to exchange ideas."

Although the door was slammed in their faces for lack of an officially sanctioned program, Redstone and Rucker had their meeting, made plans, rolled up their sleeves and went to work.

Many others would play important roles in adapting missiles and rockets to helicopters. "When it's time to railroad, everybody railroads," Cornelison said.

But from that Redstone-Rucker meeting in 1956, the Army's armed helicopter program took giant



GRANDDADDY OF LAUNCHERS
... XM3 subsystem mounted on the UH-1B ...

steps forward.

The 2.75 inch Folding Fin Aerial Rocket (FFAR), traditionally, has been the standard against which aircraft armament systems have been compared. Developed by the Navy prior to the Korean conflict, the 2.75 was designed for air-to-air use against other aircraft.

The Army Missile Command first met 2.75, and aircraft weaponization, in 1951.

That May, the Air Force funded Redstone's Rocket Development Division to design and develop a low cost, 2-inch rocket to be used for pilot training for the 2.75. Intended to reduce training costs, the new rocket, with an adapter developed by MICOM, would be launched from existing 2.75 rocket launchers on interceptor aircraft such as the F86D, F94C and F89D.

So successful was the program that not long afterwards, the Air Force asked MICOM to develop a 2-inch tactical rocket to replace the 2.75. Thus MICOM laboratories plunged headlong into development of rockets, launchers,

and aircraft installation hardware.

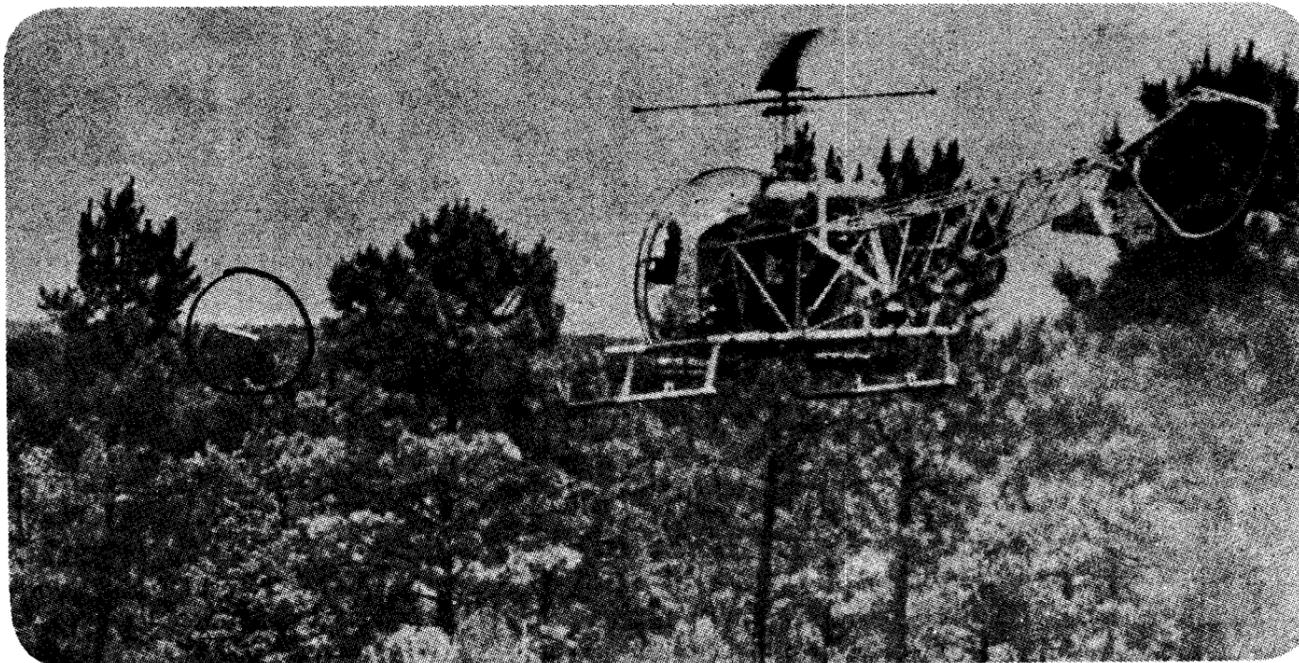
Thiokol assisted with design of the motor and propellant and Picatinny Arsenal was responsible for fuze development. The rocket went into limited production and about 10,000 produced.

MICOM's program was cancelled after five years, however, since the Department of Defense had some 10 million 2.75 rockets—more than could be shot, it was estimated, before expiration of the rocket shelf life.

By the mid 50s, the Army—seeking more mobility and firepower—began to think seriously about arming its aircraft. As Air Force jets began to fly faster and higher, the Army's need for close air support was becoming more pronounced.

Rucker began scrounging bits and pieces, whatever it could beg or borrow, to hang on its H-13 observation helicopter (The H-13 was the first Army aircraft utilized for mounting rockets and developing helicopter warfare tactics.)

See Pages 6 and 7



ROCKET AWAY
... 2.75 firing from H-13 at Fort Rucker ...

Just A Caper? After Effect Could Be Great

"I'll just slip this fishing lure in my pocket. Nobody will ever know. Anyhow, why should I pay for a little thing like that?"

Why should you? Well, the reasons may turn out to be more than just little things. And it could cost you more than the price of a fishing lure.

A police record follows you the rest of your life. It could keep you from getting that job you want or prevent you from entering a college you planned to attend. Is it worth it?

Shoplifting isn't confined to any particular group or type of individual. The temptation is there for everyone. And, unfortunately, Redstone is no exception.

Hill Frey, general manager of the Post Exchange, commented that CONUS exchanges lost approximately two million dollars to shoplifters last year. On a world-wide scale, the figure is even more shocking. Although accurate figures are impossible to determine, estimates by security agents of the Exchange Service place the amount near the nine million dollar mark for 1972.

A cumulative figure for the Southeast Exchange Region which includes Redstone Arsenal is 837 incidents of shoplifting since February of this year. There are 22 exchanges in the region.

The penalty for military personnel caught shoplifting is an Article 15 or a court martial. For military dependents and retirees, as well as other authorized civilian patrons, the penalty is deter-

mined by the local U.S. Attorney's office. In all cases, the individual has his Exchange privileges suspended for a minimum of six months.

The Exchange customer suffers from the effects of shoplifting in two ways. First, the losses by the Exchange represent money which cannot be turned over to the military in the form of non-appropriated funds. This means nine million dollars less was available for such facilities as swimming pools, gymnasiums, bowling alleys and service clubs.

Increased prices also effect the customer. As in all retail businesses, losses are eventually reflected in higher prices. In the final analysis, the military shoplifter is actually stealing from himself.

In an effort to reduce losses by shoplifters, CONUS Exchanges now employ security inspectors. These people are training all Exchange employees to spot shoplifters. Redstone's inspector patrols all of the Exchange stores posing as a customer. With this increased emphasis on security, the chances of a shoplifter being caught are getting higher.

The Redstone Exchange is taking one further step to reduce shoplifting. "We are asking you," says Frey, "as honest patrons, to report anyone that you witness shoplifting. Merely inform the nearest store employee and they will handle the situation as discreetly as possible. In so doing, you will be helping the Exchange fight inflation by reducing theft losses.

Military Travelers Warned

WASHINGTON (ANF)—Military travelers on official government business are warned not to use the airlines reduced leave fare rates. Abuse of the privilege may result in disciplinary action by their unit commanders as well as payment to the airlines for the balance legally due.

Currently the airlines are making periodic checks with the military to establish the authenticity of the statement, signed by the individual, indicating he was on leave and traveling at his own expense.

The Delays Are Needless

ANF—Officer oversights are causing needless delays in processing two important personnel actions at military personnel center. DA career managers report that officers with Regular Army applications pending are not keeping the center's RA appointment section posted when they are reassigned.

Also some officers are using their assignment preference statements as makeshift applications for civil schooling.

AR 621-1 specifically requires that separate applications be forwarded to the appropriate officer career branches.

The Redstone Rocket

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RETREAT?

By SSGT DARRELL D. HARE, USAF

Somewhere a bugle softly sounds
The message of renown,
And men inside their buildings wait
Until the flag comes down.

And others run to get their cars
Quite harrowed or dismayed
Afraid they will not reach the gate
Before retreat is played.
Not thinking of the flag or men
Who fought to keep it flying.

How many would be glad to stand,
Whose bodies now are mute,
Or have no hand that they might raise
And stand in proud salute.

So accept it not as duty
But a privilege even more
And receive it as an honor
Instead of just a chore.



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RIF Required In RASA

The Army Missile Command said Monday it will be necessary to use reduction in force procedures to place people with required skills in available jobs within the Redstone Arsenal Support Activity (RASA).

RASA has approximately 1,600 civilian employees. They are in a competitive area apart from the remainder of the Missile Command's workforce.

The action will involve separating some individuals now employed in RASA and assigning others to other jobs within the organization. Some of those reassignments will be adverse actions such as reduction in pay grade. Not more than 47 civilian employees will be separated, probably less.

Under current plans, individuals within RASA adversely affected will be given written notice on November 16. The personnel actions will become effective January 18, 1974.

Its civilian workforce includes many specialized trades skills such as air conditioning maintenance not now available within the workforce. RASA also has more than 100 individuals excess to its needs. Most have specialized occupational skills.

There were two major causes of the current imbalance between jobs and available skills. A substantial number of retirements have taken place so far during 1973 during a period when the Missile Command was adjusting its overall manning through attrition—that is by not replacing retirees in many cases to get manning levels down as directed by higher authority. A recent manpower study within RASA by the Army Materiel Command also resulted in directed reductions in the manning level of some RASA operations.

Reduction in force procedures specified by the Civil Service Commission and Department of the Army will be used to protect the rights of individuals involved in making the adjustments. It will be possible to fill some of the

vacancies by reassigning individuals now employed within RASA.

Under the Department of Defense Program for Stability of Civilian Employment, every effort will be made to assist displaced individuals to obtain acceptable employment.

Adversely affected civilian employees who desire placement assistance will be registered in a Defense-wide referral program and will get priority placement consideration for vacancies arising elsewhere within the Defense Department. They may also register in a Civil Service Commission program providing similar assistance for referral and consideration for vacancies elsewhere in the federal service.

In those cases where individuals are moved to jobs at lower pay, their salaries will be protected to the maximum extent by law. Career employees, if otherwise eligible, may qualify for severance pay or for immediate retirement under one of the voluntary or involuntary retirement options.

Progress— —Outlook

The North Alabama Chapter of Federally Employed Women will hold a dinner meeting tomorrow night at the Officer's Open Mess. Guest speaker for the evening will be Dr. Priscilla Ransohoff, national president of the organization.

Social hour begins at 6:30 and dinner will be served at 7.

Dr. Ransohoff is the Staff Assistant for Education to the Director of Laboratories at the Electronics Command, Fort Monmouth, New Jersey. She will speak on the progress of federally employed women and the outlook for the future.

Members and guests are cordially invited to attend. For further information contact Linda Painter, 876-5921; Virginia Arnold, 876-5989; or Osie Neblett, 881-2012.

Rally Heralds Start Of CFC

"Thanks to you — it's working —"

That's an appeal that goes out to some 20,000 civilian and military personnel of the Federal government next Monday when the 1974 Federal Combined Campaign starts a six-week solicitation at Redstone and throughout the Huntsville area.

The once-a-year fund-raising effort in support of some 150 local, national and international health, welfare and social service agencies, opens with the traditional kick-off rally on Monday morning at the Rocket Auditorium.

Major General Edwin Donley will deliver his fourth and final opening keynote for the annual drive prior to his retirement as Commanding General of the Army Missile Command in October.

He will speak to the assembled campaign officials and workers representing the 22 agencies of the Federal government that are united in this the lone authorized fund raising appeal of the year.

Also scheduled to speak briefly are the state directors of the International Service Agencies and the National Health Agencies as well as the drive chairman of the Huntsville-Madison County United Way.

Gen. Donley is expected to set the tempo for a campaign to equal or surpass the outstanding record of a year ago. He will call for all-out support of the humanitarian crusade with a thoughtful and generous gift from all assigned persons in the area.

Leonard Twinem is master of ceremonies for the kickoff. Ruth Milner Morrison is the program chairman.

Mrs. Morrison, assistant MCOM director, said that Dennis Garrison, executive vice-president of the American Federation of Government Employees, has been invited to speak and that the 55th Army Band will once more have a prominent role in the festivities.

Twinem is wearing two hats in the management of the campaign this year. In addition to his duties as the Missile Command's director, he is filling in as acting Area CFC Coordinator during the convalescence of Abner McNaron.

The 1974 campaign is the tenth conducted in the Huntsville area under the one-drive-per-year concept featuring payroll deductions.

In each of the previous drives local personnel have attained nationwide recognition for their generous response to the needs of the less fortunate. The overall giving, both individually and collectively, has consistently ranked near the top in the country.

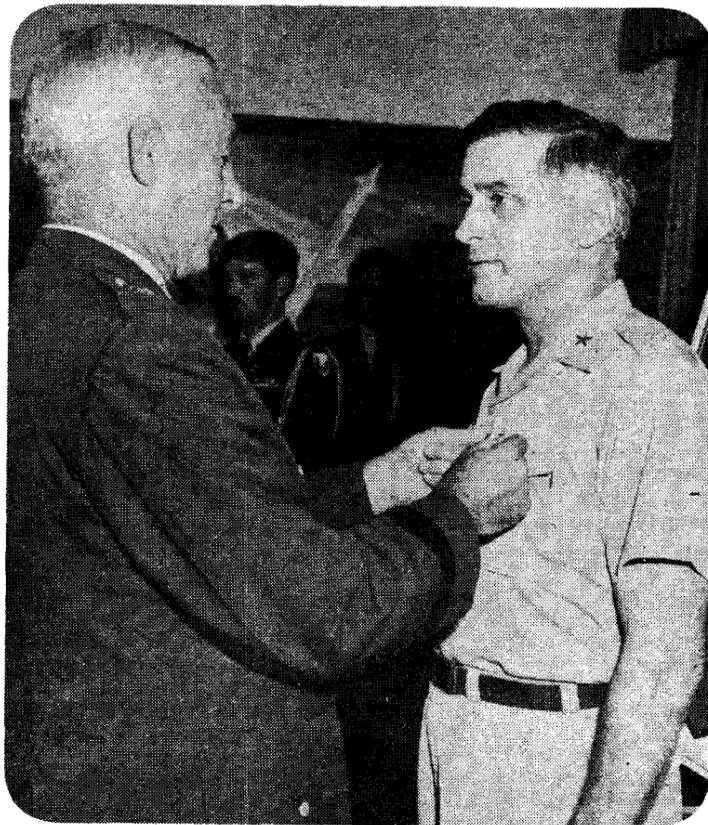
The total gift has increased in all but one of the drives with last year's contribution being slightly over \$581,000. Ninety-five per cent of the Federal personnel in the area contributed to the drive with the average gift reaching an all-time high of \$30.44.

Each person will be solicited by a fellow employee during the next few weeks and asked to make a donation to the overall campaign, or to one or more individually designated agencies. He will be told that his gift may be made in the form of a cash donation, or that it may be made in the form of a pledge to be paid by regular bi-weekly payroll deductions. The payroll de-

ductions will commence at the start of 1974 and continue through the year.

Designated contributions go directly to the agency named by the contributor while undesignated donations and pledges will be turned over to the various agencies according to a pre-arranged schedule.

The schedule is based on the giving experience over several years. Under it, 91 per cent of the undesignated donations are assigned to the Huntsville-Madison County United Way, six per cent goes to the National Health Agencies and the remaining three per cent goes to the International Service Agencies.



ENDS ARMY CAREER—Brigadier General Joseph C. Fimiani gets the Distinguished Service Medal during a ceremony at the Missile Command. Major General Edwin I. Donley presents the award. Fimiani, who has just retired from active military duty, was cited for "...exceptional performance of duties as SAM-D Project Manager from 1971 to 1973." Under his leadership, SAM-D got the green light to move from advanced development into full scale development.

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Alabama Outlook Good According To Secretary

Alabama can look to strong ties with the defense establishment, Secretary Callaway told local and national news correspondents who gathered here for a press conference preceding Thursday night's speech.

Early on the reporters turned to the outlook for the state's military installations, particularly Ft. McClellan. "There are no current plans to close Ft. McClellan", Callaway responded, "none at all. On the other hand it would only be fair to say that we are looking at everything in the Army right now in a long-range stationing project."

He explained that the project is to define for each post the role it will have in the Army of five or ten years from now, so that military construction expenditures will be consistent with that role. This, then, is the reason for speculation regarding Ft. McClellan's future, he indicated, adding, "My guess is it will be January or February before a final decision comes out on it."

Overall, the outlook is "good" for military installations in Alabama, said Callaway, citing the states "fine" climate and long record of good military relations. "Alabama is an area where the people believe in the military, and the military will stay strong here", he said.

"TOUGH SLEDDING" AHEAD

The Army budget, to quote Callaway, is "going through tough sledding with the Congress, every line item in it is being looked at

carefully, and I think...we'll have a hard time defending everything we've got in it for our missile command."

It is really too early to comment much on the subject, he added, after pointing out that the Senate Armed Service Committee's bill reached the Senate floor for debate September 19. "It's our hope that (proposed cuts) will be restored either on the floor or in conference with the House", he said.

He wouldn't speculate on what the upcoming second session of the Strategic Arms Limitation Talks might bring, but said: "Most of the people I've talked to feel we will still have a strong program of anti-ballistic missile research going on," and added that he sensed from the conversations not only a hesitancy to stop research in this area but in fact a strong push to continue it.

He predicted that research programs for missile guidance will continue in importance and cited the research at Redstone into laser guided systems.

Of this, he remarked, "The big change in missiles" is that we're getting hits on a far higher order of magnitude and accuracy. People with very little training are getting accuracies in some cases of over 90 per cent at fairly long ranges, whereas with other weapons the percentage of hits was much smaller, and it took a lot more training."

The TOW program, he noted, "is beginning to go a whole lot faster", adding, "we think the TOW

weapons are excellent. As you know our attack helicopter that's coming out will be TOW equipped, and we're also putting them on a lot of our Cobras now.

"Our Lance missile is becoming operational, and this program will be going forward", he added.

MORE TOUGH SLEDDING

SAM-D, which Callaway called "The ultimate" air defense weapon for the Army in the field, may also be in for tough sledding because, in Callaway's words, "it's enormously expensive...in large measure because of the very sophisticated radar that goes with it."

But, he noted, for field air defense it is far better than anything the Army has and in the long run will save money because it will do the job with a whole lot less men and missiles.

"It's in a whole lot of opposition in Congress because it is so expensive", he continued, "but whenever we've had a chance to go in and really give an explanation of what SAM-D is to do, in almost every case I think the people we've talked to in the House and Senate have agreed that it's important."

SAM-D's detractors, Callaway remarked, often charge that it is for the defense of Europe, so Europeans should pay for it. "It's for the air defense of the United States Army wherever it is in the field," he countered emphatically, "and we don't think we can afford to have an Army that has no defense against (a large-scale air attack). We think it's very important."

TROOPS IN EUROPE

Of the number of American troops in Europe, which one recent proposal would halve, Callaway commented: "The President's position, which I support wholeheartedly, is that we should not pull troops from German and Western Europe without some kind of reduction on the other side. On October 30 we'll begin the Mutual Balance Force Reduction (MBFR) talks, and the hope is that we can agree to some mutual reduction that will not impair our capability as concerns NATO vs the Warsaw Pact.

"I think that's a very sound position—I think it would be crippling for us to pull out half of our troops unilaterally."

VOLUNTEER FORCE

Turning to the home front, maintaining troop levels under the volunteer force concept is, in a word, "challenging", to quote Callaway.

Here is how the challenge is being met:

—Providing young men and women a standard of living roughly comparable to what they would get as a civilian and—"far more important", says Callaway—giving them a job that they perceive to be meaningful.

—Making a term of Army service "an important part of your life" rather than "an interruption", this by offering educational opportunity above and beyond meaningful job training while on active duty, and continuing into civilian life under the GI bill.

This offering, designed to appeal to patriotic Americans whatever their geographic location, ethnic mold or income level, is attracting volunteers of "a quality we're



ADDED DUTY. Secretary of the Army Howard H. (Bo) Callaway pins the eagle insignia of a full colonel on Minnie Sue Walker, a nurse in the U. S. Army Reserve, in a promotion ceremony conducted during the Secretary's visit to Redstone. Colonel Walker served in Vietnam as Chief Nurse of the 312th Evacuation Hospital, a unit of the U. S. Army Reserve based in Winston-Salem, North Carolina, called to active duty in May 1968.

quite pleased with", Callaway said. The volunteers, he continued, are lending the Army a motivation and responsiveness to discipline that were unattainable with the draft. Moreover, contrary to widely-held belief, the Army's percentage of high school graduates is now higher than it was with the draft. What the volunteer Army means, Callaway summed up, "...is disciplined Army, not a permissive one...a mission-oriented Army...an Army equipped to do its job."

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Army Faces Time Of Change And Challenge

"The simple fact is that we are not going to have a draft ... not this year ... not next year ... and not the following year," Secretary of the Army Howard H. Callaway said last week at Redstone Arsenal.

"The only possible way to have a draft unless the national situation totally changes is for the Army to fail so miserably that it is irreparably damaged and we don't want that," he added.

Appealing strongly for help in achieving a Volunteer Army, the Secretary spoke in a frank language the sellout audience of 750 friends of the Army understood.

The combined dinner meeting in the Redstone Arsenal Officers Open Mess was jointly sponsored by the Tennessee Valley Chapter of the Association of the U.S. Army and the Huntsville Chapter of the Reserve Officers Association.

Early in his address, Callaway made humorous reference to his recent decision to keep the Advanced Ballistic Missile Defense Agency in Huntsville which followed earlier reports that it might be moved to Washington.

In commenting on his large audience and hearty welcome, the native Georgian named Secretary of the Army in May, said:

ABMDA

"It's a heart warming thing to me and what makes it so exciting is that I am certain the reception would be just the same and just as warm as if a couple of weeks ago I had announced that ABMDA really was going to Washington."

After laughter subsided from his tongue-in-cheek humor, he added:

"Anyway, I'm glad that ABMDA is here and that I'm in Washington. It's good to be here with ABMDA tonight."

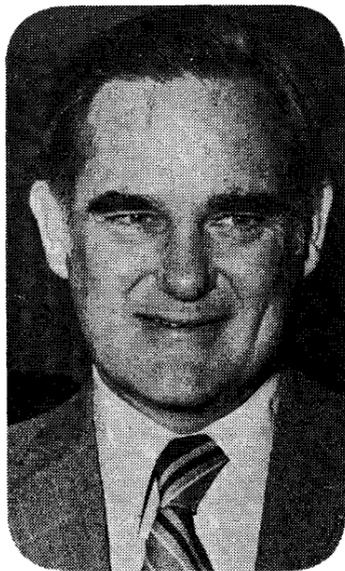
Callaway turned to what he described as major problems or opportunities of the Army. He spoke of it being a time of change and challenge for the Army.

"We've moved from a time of confrontation, internationally, to a time of negotiation. . . we've moved from a wartime economy to a peacetime economy and we see the results . . . we are re-

ordering our priorities in our country.

"Four years ago . . . the spending of the Defense Department amounted to ten percent of the gross national product . . . today, less than six percent . . . 20 years ago defense spending was twice as much as all the rest of government put together. Today it's far less than half. . .

"And, attitudes towards the Army have changed in the last few years, caused in large meas-



SEC. CALLAWAY

ure by the Vietnamese war which was extremely unpopular with many of the people of our country, a war in which many of our people served with great pride.

ARMY PRAISED

"The Army did nothing in Vietnam except what it was called upon to do in the most difficult of circumstances, and did it well. The Army deserves the praise of the American people for what it did in Vietnam. But what a price we paid. Now, we've got to meet the challenge.

"We've got to meet the challenge by discussing with the Congress and the American people what the Army is all about . . . Congress represents the American people.

"We can no longer just go to Congress and say what it is we need for the American Army and expect them to fund it. Instead, we've got to have a sound well-thought-out plan of exactly what it is that the Army has to do and how it fits in with our national needs. And, it must be very creditable.

"One of the things that we've certainly got to emphasize as we talk to Congress and the American people is creditability. The Army does not have the creditability it deserves with the American people, and certainly not with Congress.

"We've got to be in the position with the Army that whatever it is that we are asked by the press, or Congress, or by anyone looking into anything we are doing . . . we call it like it is. We give the bad news with the good and get on with our business.

"Hopefully, we will have done our business in such a way that when we let it all hang out, the Army won't be hurt by it. But, hurt or not, we've got to level with the American people and we've got to level with Congress.

REDSTONE PROGRAMS

"If there are programs here at Redstone that are not going as fast as we wish they were, if there are project managers such as those here who are called before Congress to testify, and if the news is all bad because we are just not able to do what we had hoped to do, it doesn't help that bad news by hiding it.

"Our Chief of Staff, General Abrams, told me the other day when we were talking about this subject, 'In all my Army experience I've never known bad news to improve with age.' . . .

Callaway said one of the Army's challenges was to win back the faith of the American people.

"Another one is to man the Army with a volunteer Army," he said.

He said the Army had never failed the country but that it had never been given the mission it had today, "the mission of being one of the two super powers of the world, including major deterrents to NATA . . . Asia . . . and to perform this global mission without a draft.

"I'm not sure this has ever been done in history by any army on any scale similar to what we are now doing without conscription. A lot of people think it won't work and that the Army can't do it. I say:

"The Army has never failed America and it will not do it now. We are going to make that Volunteer Army work.

"First . . . we are going to give them a standard of living that is roughly comparable with the standard of living they might get in the civilian community for doing a similar job.

"But the other half of the equation is much more important. It is up to those of us in the Army, or who are friends of the Army, to see that service in the Army is meaningful to every young man or woman who is in it . . . that they have job satisfaction.

"We do it by having a disciplined Army. Nobody can have a meaningful experience in a permissive Army and you and I know that. We've got to have a disciplined Army that is mission oriented. . . that can accomplish its mission . . . and that the people serving in it now can accomplish its mission.

"We've got to have good leadership. Our leaders must use the principles of leadership and the first one is to take care of the men and treat them all as soldiers. . .

OFFER TRAINING

"We've got to offer to the

young man and woman today one of the best deals that has ever been offered to anybody. . . high school education . . . college training . . . vocational training."

Callaway said if these men and women left the Army they could get a better job than if they hadn't been in it and "they will have had an experience that for the rest of their lives they will be proud of, and can always be proud of having served their country.

"Once we get them in, I'm not concerned. They will see that it is important. And more and more will stay in and follow the progression that we have for NCOs and officers for career leadership."

He said that a few years ago ROTC was a dirty word on a lot of campuses but that colleges and universities were begging ROTC to come back now.

"The only problem I have as Secretary of the Army is that last year, and probably again next year, there are thousands of these fine young men who want active duty and we aren't able to

take them all who want to come in.

"This the kind of Army that we need in a changing world . . . the kind of Army we must have. Those of you who believe as I do that the Army is important to our country, we need your help. We are not getting as many people as we want now, though the shortfall is not serious yet.

"We need to encourage and make it easy for young men and women to want to be in the Army and be proud to serve . . . each of you can effect the attitude of many youngsters today.

"The question is not whether a draft is better than a Volunteer Army, the question is in the tasks that the Army has been given to do. Does the Army succeed or does it fail?"

"It will be a great assistance to the Army if those of you who work with AUSA and ROA address the question of how can we help you make the Volunteer Army work rather than will it work.

"It's got to work. There's no acceptable alternative."

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A Lot Of Inter-Agency Cooperation Involved

Continued From Page 1

Rucker had little money but plenty of ideas, helicopters, maintenance and fuel. Redstone had money, rockets, launchers, fire control units and engineering expertise.

It was a perfect marriage.

In one of the earliest armament experiments, MICOM built a hybrid round for the H-13 which consisted of a 3.5 inch bazooka warhead mated with the 2 inch rocket motor. Redstone missilemen named it the WEEVIL, after the cotton bug. They mounted 20 of the 3.5 rockets on the H-13 and began collecting data such as blast effects, stability, sighting and firing limitations.

One early firing at Rucker proved the importance of research.

While attempting to determine the maximum firepower of the H-13, gunners fired five pairs of rockets in a ripple.

Recoil from the rockets just about stopped the helicopter in mid air and it dropped more than 50 feet before the pilot regained control.

Although Wilson's edict precluded a formal program, the Army continued to develop tactics and experiment with aircraft armaments. But first they had to overcome opposition proclaiming the helicopter was too slow and vulnerable to be effective in combat.

Just about that time, the "fors" won a battle against the "foes."

A "camera flight", staged at Fort Ord, Calif., to prove how easily ground forces could defeat helicopters, proved just the opposite—the helicopter had the edge when proper tactics were employed.

That success caused the Army to redouble its efforts.

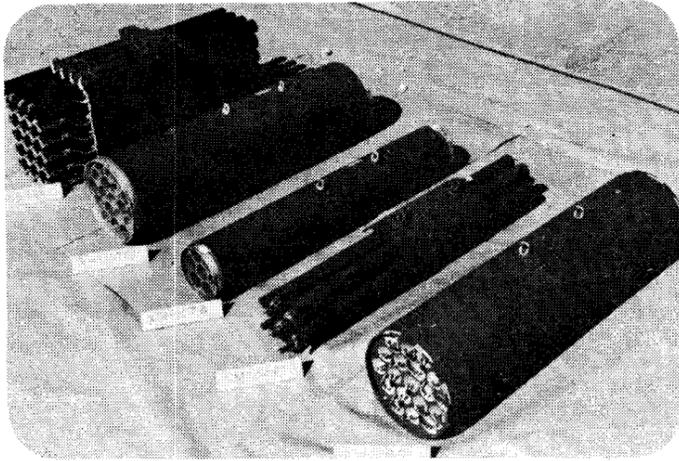
At Redstone, meanwhile, MICOM provided funds and know how to arm another helicopter.

To prove the feasibility for getting higher accuracy at longer ranges, MICOM designed for the 2-inch rocket some 10-foot-long launch tubes to hang on the H-19, a larger, multi-blade helicopter which was a more stable firing platform than the H-13.

Tested at Redstone and demonstrated at Rucker, the system proved that an acceptable dispersion rocket-helicopter system for defeating specific targets was within the state of the art.

The Army's interest in aircraft armaments hadn't gone unnoticed by helicopter companies, which were eager to get in on the ground floor. Companies having something that would fly, sought something to hang on it that would sell.

In 1958, MICOM assisted Hiller Helicopter Corporation with the Army's most provocative armament program — Sally Rand — so named because it was the barest helicopter anyone had ev-



LAUNCHER EVOLUTION

.. From XM3 (top) to M200 launcher of today (bottom) . . .

er seen.

The program was short lived after MICOM researchers convinced the contractor that high performance rockets and a light helicopter didn't make a tactical twosome.

During the late 50s to early 60s, the H-21 helicopter cropped up periodically with a new armament system strapped, bolted or hung on it. Several might have developed into weapon systems if armed helicopters had been legal and sufficient engineering could have been applied. The legality of helicopter armament was getting brighter but the H-21 was about ready to phase out of the Army inventory.

Just beginning to appear in quantities was the UH-1B which was a prime candidate for arming.

Then it happened!

Department of Defense in 1961 funded a program for MICOM to arm the UH-1B with a maximum complement of rockets. That led to the XM3, a rectangular cluster of 24 rockets, which was the granddaddy of all helicopter launchers for the 2.75.

That first program carried the tongue twisting, mind-boggling name of "Phase I Aircraft Interim Area Rocket Weapon Systems Feasibility Program."

(XM3 was developed completely in MICOM laboratories, tested, maintained and updated here.)

During this program, Rucker requested MICOM to arm an H-34 helicopter for a special firepower demonstration. Using hardware being developed for the UH-1B, MICOM accomplished the job in three months which included developing launcher, supporting structure, fire control system, helicopter wiring and structural modifications.

The system, designated the XM4, was so impressive that an additional eight systems were ordered by Special Forces and used later by the Howze Board to officially prove the doctrine

of armed helicopters.

Between May and August 1962, the Howze Board tested the air cavalry concept in sources of tactical situations — in woods, swamps, and on hills and mountains.

Could the cavalry force look

after itself in battle? Could it press an assault in bad weather? The study showed that answers were affirmative.

A couple months later, in October, MICOM hosted an In-Process Review on the XM3. Charlie Winslett, a MICOM engineer who with Cornelison is one of the few men who started with launcher development and is still connected with it today, said the decision was made at the IPR to procure 110 XM3 subsystems.

Watervliet Arsenal built the launchers, Frankford Arsenal the fire control systems.

In May 1963, MICOM conducted quality acceptance tests on the first five XM3 subsystems at Redstone's Test Area 1 and in June, those same five subsystems were airlifted to Vietnam. XM3 thus became the first weapon system developed by MICOM to be used in combat.

For the XM3 program, MICOM had to modify the 2.75 rocket so it could be fired from slower aircraft, like helicopters. The modification involved scarfing the nozzles which imparted a spin to the rocket.

The Army established a pro-

ject manager for Aircraft Weaponization in 1962 placing responsibility for helicopter armaments under one agency. Lt. Col. Nelson Lindstrand, Jr., was the first project manager.

During the mid 60s, MICOM branched off into a variety of other helicopter armaments, including TOW, but continued to work on 2.75 launcher replacements. That work led to the XM158, a seven-tube, reusable and repairable launcher.

By this time the supply of 2.75 rockets was running low and the Army in 1965 established a 2.75 Project Office to supervise tri-service responsibility.

That project office currently headed by Colonel Frank Ragano, and his civilian Deputy, John Harrity, was moved to Redstone from Picatinny Arsenal in September of this year.

"We have not only research, development, procurement and life-cycle management responsibility for the Army but responsibility for procurement, production, and delivery of all 2.75 inch rocket components for the

See Top Page 7

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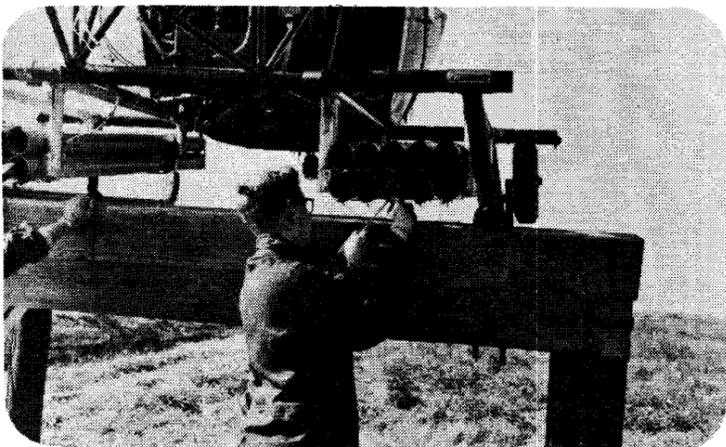
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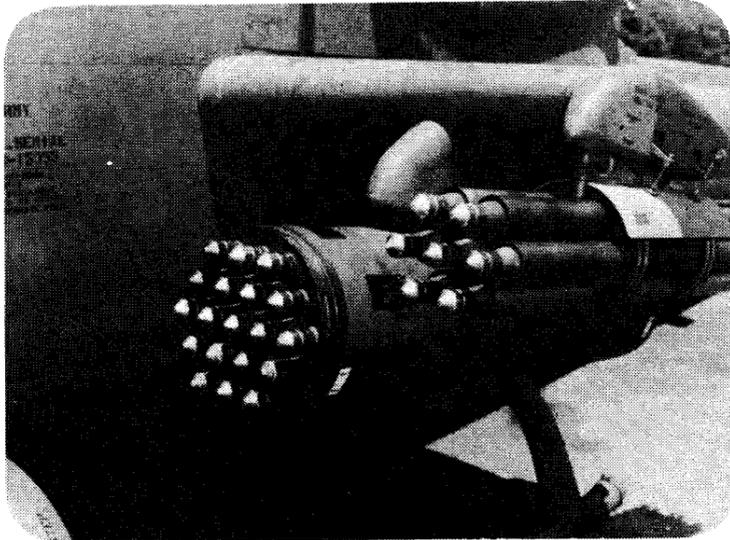
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EARLY REDSTONE TEST—Test engineers prepare to shoot a hybrid round called the WEEVIL during one of the early experimental programs at Redstone. The H-13 helicopter was tied securely to a stable platform.



NEW LOOK

... Army's Cobra gunship armed with M200 and M158 ...

Navy, Air Force and Marine Corps as well," Ragano said.

More than 30,000,000 rockets have been produced since the program started in 1965, about 25,000,000 have been fired by all services in Vietnam.

Although the 2.75 has been around for more than two decades, "We aren't limited by twenty-year-old technology," Har-rity said.

New developments should extend the effectiveness of the weapon system well into the 80s.

A whole generation of new fuzes and warheads, developed by Picatinny, has evolved, along with new launchers, like the M200, developed by MICOM to go on the Army's new gunship the AH-1G "Cobra."

One of those new developments, a dual purpose warhead, was deployed to Vietnam in 1971 and is credited with destroying approximately 19 tanks.

The late Bill Rotenberry, former Commodity Manager of Aircraft Weapons at the Missile Command, said at his retirement:

"Our role in adapting missiles and rockets to helicopters, in my opinion, was one of MICOM's biggest contributions ever."

"It represented a whole new concept for the Army and gave us a mobility and firepower we never had before."

A lot of Redstone missilemen played important roles in the 2.75 and adapting armaments to helicopters. But high on that list of names would go:

Cornelison, William Newman, Norm Comus, Bill Watson, Frank Bunn, George Burchfield, Winslett, Donald Conn, Carl Huber, M. R. Garcia, George Elrod, Larry Nicastro, Mark Wheat, Jim Martin, George Scott, John Cook, Bradley Kness, Rotenberry, Arnold Stokes, Bill Had-daway and Bob Conrad.

Big Red came to Redstone Arsenal with the flood waters in March of this year. No one knows what time he arrived or where he came from, but he paddled in sometime during the week when the civilian recreation area was under water.

When the flood waters receded, Big Red stayed behind and homesteaded a pond behind the softball field. On days when the civilian recreation softball league had games scheduled, players could see Big Red patrolling the outfield. He waddled back and forth quacking a hoarse challenge to the people who were invading his chosen homestead.

Big Red is a Muscovy Drake. He isn't afraid of people, but he keeps his distance and quacks his challenges to anyone coming near his domain.

Even when the waters of the Tennessee River covered the civilian recreation area again in April, Big Red stayed on in his



adopted area.

With duck season approaching in several months, Big Red may be in a heap of trouble. The pond behind the recreation area is a favorite spot for the local duck hunters and Big Red may find his hoarse quacks are a challenge they can't resist.

Some of the folks at Redstone who have watched Big Red's activities are hoping the old Drake will head for a safer area when

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duck season arrives. However, stand his ground and quack his most people think Big Red will defiance to the very end.

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NAMES IN THE NEWS

By SFC Wilfred Gileau

LTC Julian J. Levasseur, Chief, Task Analysis Branch, was awarded the Bronze Star Medal and the Joint Service Commendation Medal for meritorious service. Levasseur was recognized for service while assigned to the Military Equipment Delivery Team, Cambodia. He is a graduate of Johns Hopkins University and the U. S. Military Academy with a BS in Military Science.



NEWLIN

SFC Charlie L. Newlin, an instructor in the HAWK Division, received the Army Commendation Medal for meritorious service while assigned to USAMMAE, Germany. He entered the Army in May, 1957, after graduation from W. B. Ray High School, Corpus Christi, Texas.



WHITTLE

SP5 Richard B. Whittle, a student in the HAWK Pulse Radar Repair course, received the 1st Oak Leaf Cluster to the Army Commendation Medal for meritorious service while assigned to an Air Defense unit in Germany. Whittle is a 1964 graduate of Murry High, Murry, Utah, and entered the service in August, 1968.

SFC Joyce E. Hurst, First Sergeant, 8th ETC, received a certificate of achievement for exceptionally meritorious service while serving in the 30th Air Defense Artillery Brigade, USA Base Command, Okinawa.

SP5 Willie E. McCann, 9th ETC, received a Certificate of Achievement for successful completion of the Ammunition Officer Correspondence Course, equivalent of 155 credit hours of work.

PFC Joseph K. Carter, 3rd ETC, received a Letter of Commendation for his selection as 3rd Battalion Soldier of the Month for September.

SP5 David L. Myers, Co. B; SSG Thomas Carroll, Co. B, and SFC George T. Martin, Co. A, were awarded the Army Commendation Medal for meritorious service in ceremonies conducted by the 1st Battalion commander.

CPT John J. Tarpley, an instructor in Tech. Escort branch, received his Regular Army commission in Infantry in ceremonies at School Brigade.



WRIGHT

Tarpley is a 1965 graduate of Duke University where he received an AB in German. It was also from Duke that he received his direct appointment in the Army. His medals include the BSM with two OLC's, the Air Medal and the ARCOM with one OLC.



TARPLEY

PV2 Roger H. Wright, 7th ETC, was recently named honor graduate of the Nuclear Weapons Maintenance Specialist course. He is a 1972 graduate of McHenry, Ill., and entered the Army in March, 1973.

Two civilian employees of MMCS were awarded DA certificates of achievement last week, and both now hold new positions within the organization.

Clarence P. Carey, education specialist with the Career Development Department from 1969 to 1973 is now deputy chief of the EOD division here. Joseph Stoffel, former EOD deputy chief, is now deputy of the Conventional Ammunition division.

Frank S. Bowman, the other recipient, was also with the Career Development Department, from 1969 to 1973. He is now with the curriculum branch of the Resident Training Management division.



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And you can do it on a self-help project, using materials not otherwise needed by the Army.

"Before I assigned Sergeant Sias the project, the area behind one of my barracks was quite an eyesore," said Walsh.

Recent repair of steam lines in the area had left a broken sidewalk, bare earth and deep trenches around the company area. What had once been a decorate pool had become a stagnant, leaking concrete-lined hole between two wings of the barracks. A concrete apron around the pool was buckled.

Sergeant Sias and eight volunteer workers excavated and constructed forms for a new walkway and apron. They patched the leaks in the pool and added a rock obelisk in the center. In the interest of conservation, Sias and Walsh decided to install a recirculation pump for the fountain at the top of the obelisk.

With a little lumber and ingenuity, the men braced the sagging veranda with another set of verticle supports. Three weeks

after the first concrete was poured, were behind a privacy fence and the 4th ETC's patio and veranda surrounded with picnic tables.



SELF-HELP VERANDA—Staff Sergeant Jesse Sias (left) and Captain Jerry Walsh of the 4th Enlisted Training Company pause to discuss the unit's business on the recently-completed veranda.

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The Service Club has arranged a tour to Ave Maria Grotto in Cullman on Saturday and is throwing in a picnic lunch.

The Ave Maria Grotto is located in the beautifully landscaped park on the campus of St. Bernards College which makes a natural setting for the miniature reproductions of the most historic shrines and buildings in the world. These masterpieces of stone and concrete represent the lifetime work of Brother Joseph Zoetti, a Benedictine monk of St. Bernard Abbey and College.

Among the numerous replicas are famous buildings of Jerusalem and the Holy Land, famous Spanish Missions of the American Southwest and replicas, of the famous Shrines of Our Lady, Fatima and Lourdes.

The bus will leave the Service Club promptly at ten.

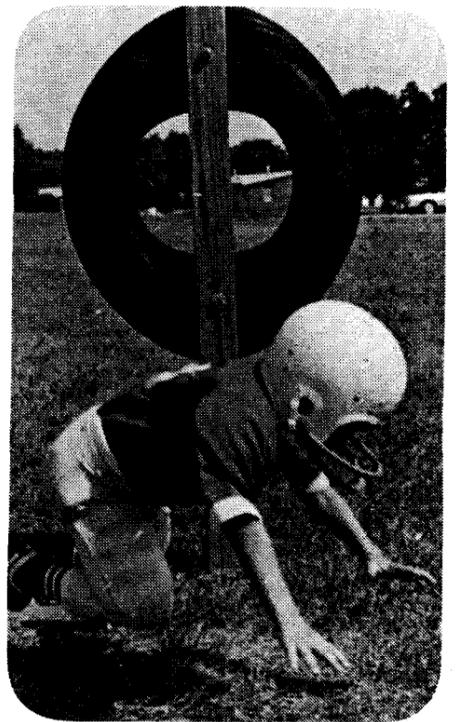
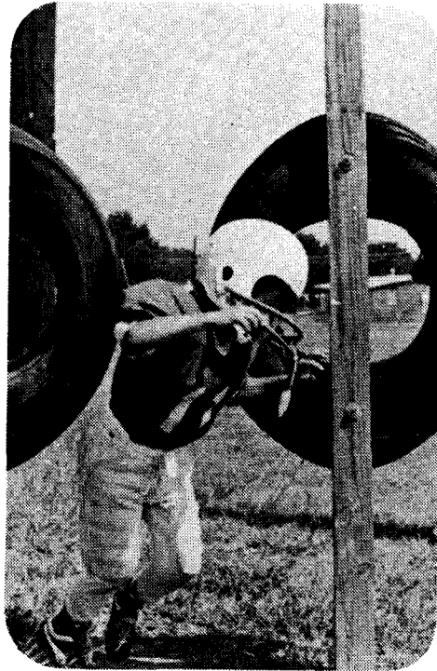
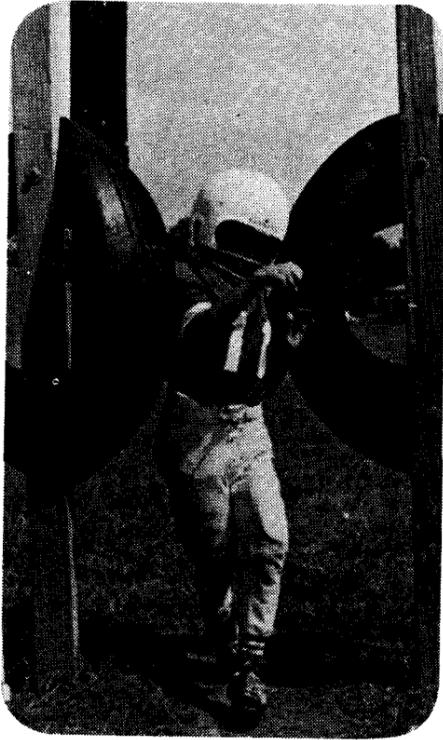
School Wives

The officers wives of the Missile and Munitions Center and School will hold their bi-monthly White Elephant and Bake Sale Sept. 20, starting at 10 a.m. at the Redstone Arsenal Officers Open Mess.

All items for the event should be priced and delivered no later than 10 a.m. the day of the sale, according to publicity chairman Elsie Rittmuller.

Persons puzzled over what to bring may contact Mrs. Rittmuller telephone 837-1584 for suggestions.

Reservations will be handled by Mrs. James Fields (A-L) at 837-6944 and Mrs. Thomas Sneed (M-Z) at 837-0241. The deadline for reservations is noon Sept. 18. Cancellations will be accepted until noon Sept. 19.



STUDY IN PERSEVERANCE— Young Kenneth Walker, deep within his helmet and protective padding, manfully assaults stanchions used for blocking drill near the YSP football fields. His momentum fails him after initial impact with the tires, (left) but with renewed effort the defensive safety for the Chiefs breaks through (center) and tumbles in a heap in a classic display of overkill (right).

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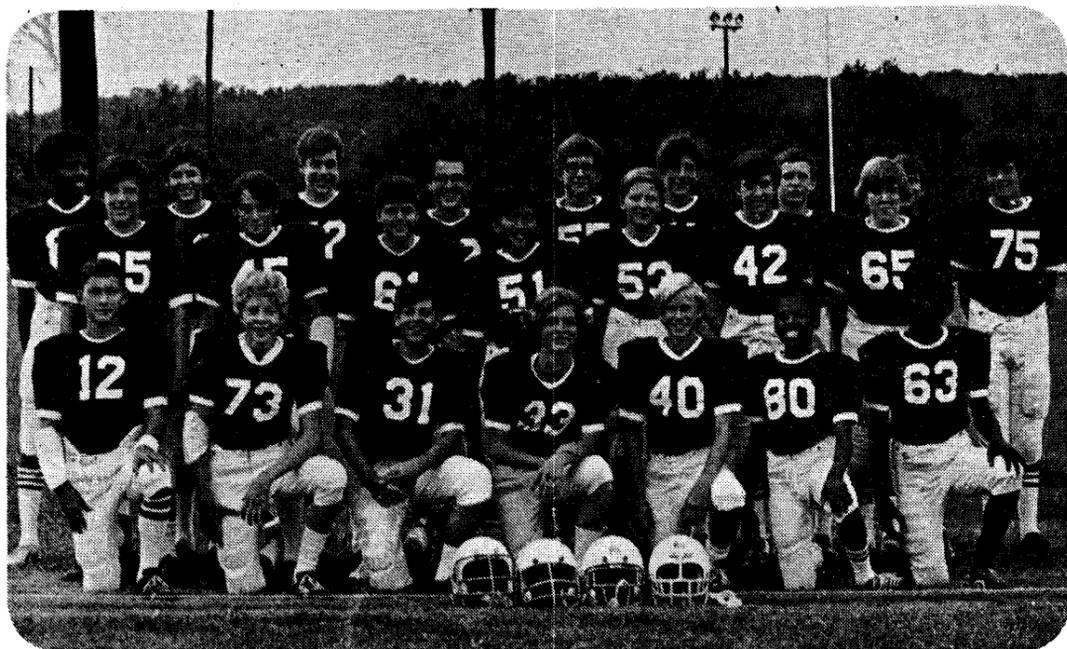
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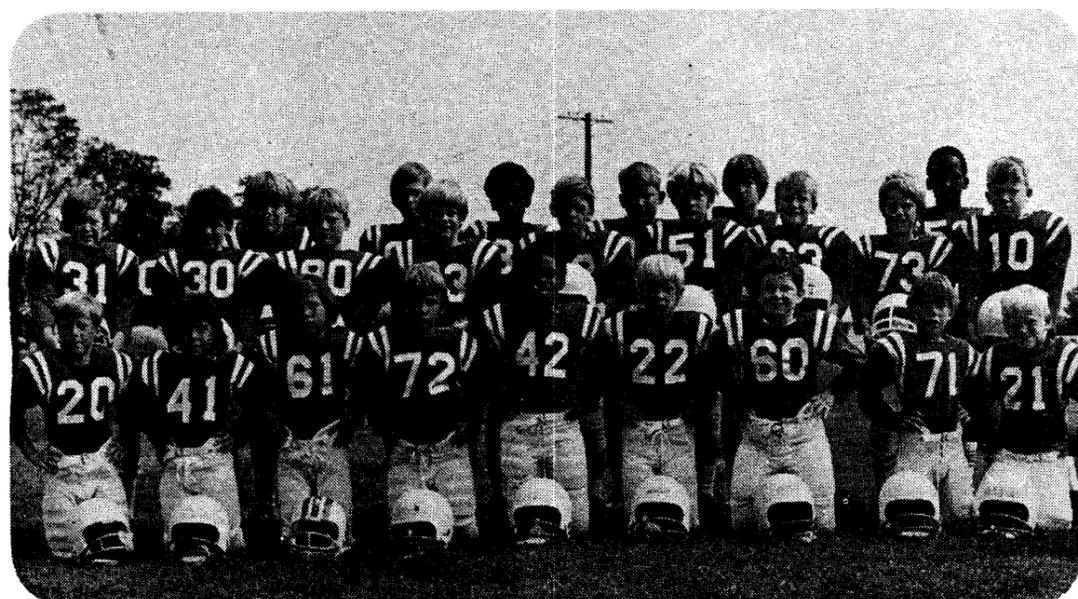
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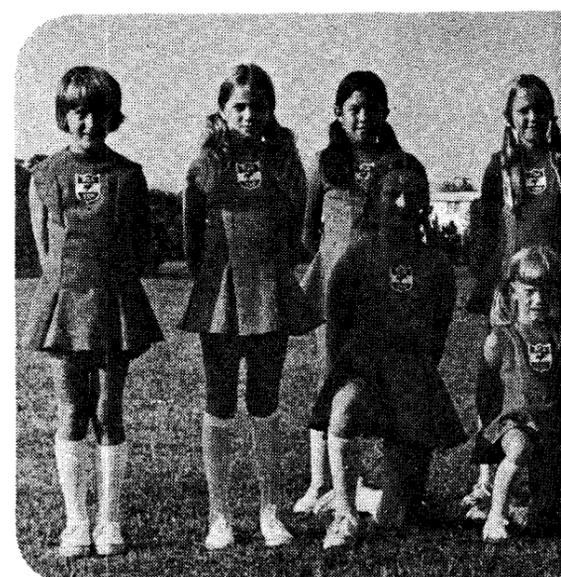
RAIDERS—Kneeling, left to right, Douglas Bolles, Timmy Hopper, Billy Holloran, Mark McKnight, Greg Stone, Kyle Rose and Greg Shoemake. Second row, Dave Goodson, Darian Vittorini, Richard Smith, Patrick Higa, Rodrick Ruiz, Tom Sly and Martin Goins. Third row, Butch Shoemake, James Olson, Roger Lowry, Glen Yee, Kyle Bryan, Jay Levasseur, Hans Burley, Steve Davidson and Ron Poteat.



COLTS—Front row, Ernest Collier, Randy Speakr, Mike Schnack and Brian Knowles. Second row, Ge Polyard, Walter Ross and Bobby Murphy. Third row Buddy Walker, Wally Johnson, Jeff Pope, Mike Skee



LIONS—Kneeling, left to right, Tim Byrnes, Frank Bernal, Jack Musselman, Michael Yager, Julius Manley, Scott Hughes, Bobby Loughary, Russell Musselman, and Scott White. Second row, Billy Boatright, John Fellers, Steven Ford, Dirk Funderburg, Mike Doherty, Danny Hittner, Tommy Rogers, Tom Lucas and John Ragano. Third row, Tony Rose, Jimmy Hopper, Jeff Behrens, Reginald Smith, Paul Thamasett, Kin Finkbeiner, and David Collier.



COLTS CHEERLEADERS—Kneeling, left to right, Tammy Sprad, Tammy Kerry, Laura Hoffman and Linette Garrett. Standing, left to right, Ellen Busck, Laurie Garrett, Suzanne Skeeter, Missy Bus, Susan Knowles, Sally Hudson, Terry McKeith.



CHIEFS—Front row, left to right, Kenny Walker, Timmy Lapointe, Harry Shaddix, Clifford Kerry, Lomer Comier and James Donaldson. Second row, Eric Wagner, Billy Yates, Chris Newcomber, Jerry Copeland, Greg Parker, Daniel Baum and Steven Bose. Third row, Blake Davis, Skip Lankford, Greg Owen, Patrick Johnson, David Lambert, Mark Robertson and Keith Thames.

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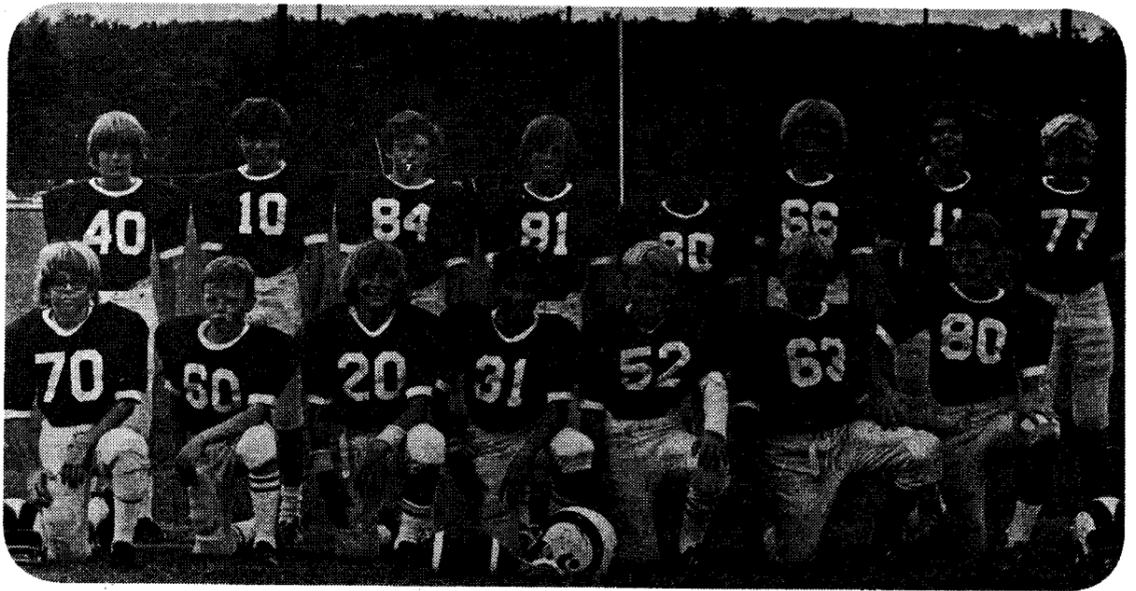
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, Robin Harris, John Kinch, John Whitford, Ed Cantrell, Greg Stewart, Bob Wait, James tonnie Speakman, Bruce Busck, Joel Woiton, s, Rodney Dinkle and Owen Oleson.



RAMS—Kneeling, left to right, Danny Worsham, David Ruttencutter, Mark McKnight, John Yezzi, Roy Morgan, Steven Vaughn and Jeff Walker. Standing, Jerry McKnight, Jeff Hodge, Steve Goodson, Glen Behrens, Chuck Dunem, Bryan Matthews, James Woiton and Stephen Dwyer.



EAGLES—Front row, left to right, James Pyle, Mike Shalz, Phillip Crawford, Craig Warren, Gary Finkbeiner, Kevin Berry and Gary Davis. Second row, Jon Hanline, Ken Ellis, Jeff Challenger, Lindsay Shoemake, Frank Canterry and Bobby Dunem. Third row, Brad Fuller, Mauro Murphy, Rocky Rosier, Steve Johnson, Danny Speakman, Darvi Stevenson and Gerald Rones.

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Arsenal Youths Capture Grid Triple Bill

Dolphins, Redskins Claim Scalps In Campbell Visit

By DAVE COWAN

The newly organized Redstone Dolphins made their debut in the Ft. Campbell National Football League last Saturday here nipping the Campbell Bears 6-0, although the Dolphins had 15 fumbles in the game.

Coach George Dorrity, who admitted to not having any gray hair before the start of the game, saw his team recover 13 of 15 fumbles, while the referee assessed 10 penalties against the Dolphins, totaling 70 yards.

Both teams played a keen defense throughout most of the game until Redstone halfback Dave Lewis ran four yards off tackle for the game's only touch-

down with two minutes remaining.

The Dolphins defense, led by end Ronnie Hollingsworth and middle linebacker Fred Ruttencutter, held the Bears to a minus 19 yards while the Dolphins offense churned out 187 yards.

Lewis nearly had a TD on the opening kickoff of the second half when his 80 yard return for a score was brought back on a clipping penalty.

The Dolphins 6-0 shutout was coupled with a same-day Redskins 44-0 win over the Browns. The Redskins held their opponents to a minus 17 yards.

The Dolphins will play the Bears and the Redskins will meet

the Jets, both teams from Ft. Campbell, this Saturday at Clarksville Base.

Redskins Swarm All Over Browns

The Redstone Redskins won their second game in a row last Saturday defeating the Ft. Campbell Browns 44-0 in a Ft. Campbell National League football contest here.

In winning their second game, Redstone's offense tallied for 66 points while their defense has allowed no points scored against them.

After routing the Ft. Campbell Bears 22-0 two weeks ago, the Redskins split into two teams of 17 youths each. The team had too many players for one roster.

Bill Males will continue to coach the Redskins, while George

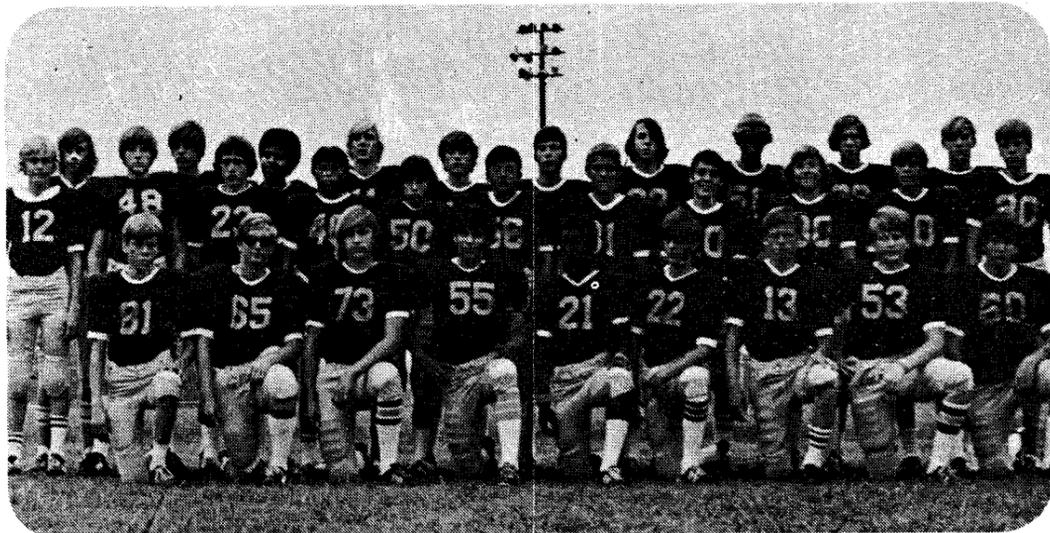
Dorrity is at the helm of the new team, the Dolphins.

In Saturday's action Steve Ferris ran three yards on a quarterback sneak in the first quarter to give the Redskins a 6-0 lead against the Browns. The Redskins kept the 6-0 advantage throughout the first half as both teams displayed sparkling defenses.

In the third period, Redstone scored two touchdowns, the first on a 22-yard pass from Jon Doolittle to Kevin Males. The local youths made the score 20-0 when tackle Larry Tingle blocked a Browns punt and returned it for a 39-yard TD. Kevin Males added the two-point conversion with a run up the middle.

Outstanding defense by the Redskins led by Tingle, blocking an earlier punt for a 39-yard TD and grabbing the only Redskin interception to set up the last touchdown enabled Redstone to explode with three more TD's in the final period.

Quarterback Anthony Doane threw a 50-yard bomb to Bill Males, who also added the successful two-point conversion for their first of three fourth quarter TD's. Fullback Kevin Males ran off tackle for a 9-yard TD, while Doane added the two-point conversion. Doolittle bootlegged the football around right end for a 16-yard TD while Ferris completed the two-point conversion for the final scoring.



REDSKINS—Kneeling, left to right, Terry Pyle, Deryl Carroll, Dwayne Brush, Ray Bateman, Dave Lewis, Chris Kinch, Steve Ferris, Dave Smith and Steve Burks. Second row, Ricky Doritty, Micky Willis, Dave Burrows, Manuel Zaccheus, Kevin Burns, Aaron Murphy, Kevin Males, Bill Males, Robert Andreottola, Jon Doolittle and Malcolm Burns. Third row, Mike Knowles, Jose Lamar, Ron Hollingsworth, Fred Ruttencutter, Larry Tingle, Larry Pyle, Eddie Coleman, Carl Jackson, Leslie Reed and Brad Walker.

Raiders Outscore

Mountain Foes

Halfback Mark McKnight gained more than 100 yards rushing for his second consecutive week as the RSA Raiders downed Brindlee Mountain 18-6 last Saturday in a 9-11 year-old Mountain Football League contest.

Brindlee was bewildered by the razzle-dazzle running of McKnight and Mark Lowery of the Raiders. McKnight gained 127 yards in rushing and 27 yards passing, including a 90-yard TD run in the second quarter for the Raider's third touchdown.

Two weeks ago, the Raiders defeated Cotaco 46-6 as McKnight churned out 156 yards in rushing and 37 yards in passing.

McKnight's counterpart, halfback Lowery, was by no means idle, as he scored the Raider's first two TD's.

The Arsenal youths took a 6-0 lead in the first period as Lowery ran 8 yards on a quick trap play. Several minutes later, cornerback Tim Hopper intercepted a Brindlee pass. Three plays later, Lowery scampered 30 yards around the end for the Raider's second TD. Late in the first half, Brindlee had two scoring opportunities as the Raider's were penalized twice for roughing the kicker. Brindlee couldn't capitalize on the miscues and had to punt, setting up McKnight's 90-yard gallop for the Raiders final score.

For the third straight game, Arsenal youths contained their opponents to a minus offense. Brindlee was held to a minus 17 yards, while the Raiders hammered out 251 yards in rushing and passing.

The Raiders will play undefeated Union Grove this Saturday at the YSP Football Field.

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Blake Opens 600 Door, Sparks Follows Through

Honor Roll entries cropped up on both ends of the Parkway Lanes last Wednesday evening when Ted Blake passed the magic 600 barrier in S&M League action and Nick Sparks turned the trick in the AMC.

The former included games of 222 and 243 in his 635 run while the latter opened with a 245 game and held on with a pair of 178's for a 601. It was the first Honor Roll total of the season in each of the civilian leagues.

Mack Baeder was a distant second in S&M scoring with a 552 total that included a 215 game that enabled the Strikers to take three of four from the Clowns.

Garland Kinslow rapped the Parkway maples for 549 and H. W. Whitworth added 545 more as Rebas swept the No Names and Lou Sucich shot a 210 game and totaled 518 as the Out House five won all four from the Lobos.

Blake got 541 help from Johnny Helland in getting Lot-o-pins a

four-point sweep from the Misfits and Larry Hulett hit for 539 as the Outcasts won three from the Interns.

Sparks put together a seven-bagger in his big game and teammate, Howard Helmick did the same in the second game as the Spares won three from the T-Birds. Helmick got a 242 out of his string and ended with 581.

Noel Moore turned loose a 581 string and Reggie McLaney added 561 more, but it only got the Alley Cats a single point out of their duel with the Sheratons whose Jim Watts turned in a 568 reading.

Carl Bostwick got in his first licks for the All-Sports and they included a 222 game and a 586 series while Dave Pentecost shot a 231 game on his way to a 581 total for Hughes TOW.

The What Ifs gave the Bombers what-for as Bob Brand rattled the maple sticks for 572 and Chuck Turner was almost as tough at 555.

German Students In Soccer Meet

The German Air Force soccer team from the Missile and Munitions Center and School traveled to Washington, last weekend and participated in a round-robin exhibition series against their German counterparts.

The Redstone team played the 1st German Student Squadron team from Sheppard Air Force Base on Saturday and challenged the German Military Representatives team from Washington on Sunday. The final game pitted the Representatives against the German students from Sheppard.

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Nadolski Sets Paddleball Pace

Frank Nadolski notched his second win against no losses Monday to take the lead in the Men's double elimination paddleball tournament at the Arsenal gym.

Ten players banged their way to victories in the first round with Nadolski and Edwin Ervin tapped as possible favorites to win the singles tourney, according to a tournament spokesman.

Both Nadolski and Ervin defeated their opponents, Clarence Lyles and James Hodges, in the first round, which set up a match between the two men today in the beginning of the second round.

At press time a tournament spokesman said that Nadolski defeated Ervin in a hard fought battle 21-18. Since the tournament is a double-elimination af-

fair, Ervin will probably get another crack at Nadolski to decide the winner.

In other first round games, Fleming defeated Lowery, Bunn dropped Lockwood, Coryell nipped Jaczkowski, Rounds downed Condon, Jones defeated Thomas, Newman defeated Devaney, Osinski beat Rosier and Dwyer pounded Caceres.

Following the singles tourney, a double tournament will be conducted, according to Jerry Thomas, tournament chairman. Anyone who hasn't signed up yet can do so at the Post gym, according to Thomas.

Low Net Low Putts

The 18-hole golfers among the Officers wives played for Low net and low putts on the regular playday at the Arsenal course.

Jane Walker was low with a net of 73; Loy Stafford shot 76; Hester O'Brien, Lucille Johnson and Sonja Skemp tied at 77. Loy Stafford had the least putts, 29.

Among the 9-hole group Nancy Hecker scored low gross; Mitzi Bisch, low net; and Carol Provancher, low putts.

Vietnam Bonus States Growing

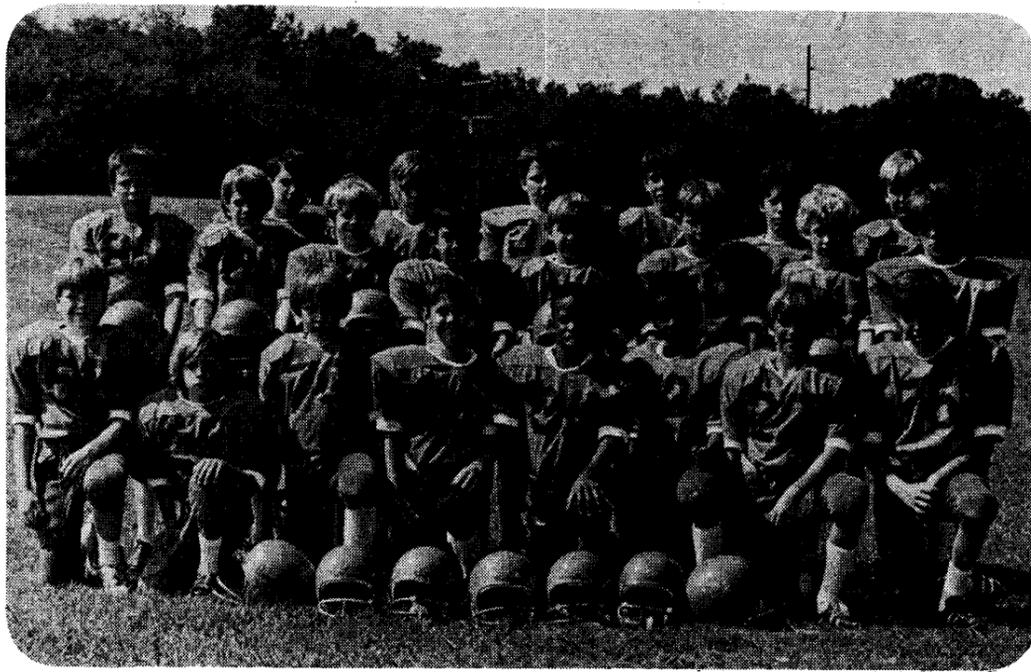
ANF—Guam, Iowa, Indiana and Minnesota are the latest to authorize the payment of a bonus to veterans and members of the armed forces who served during the Vietnam Era.

Some states have also changed their eligibility requirements after the termination of the conflict on January 27th. In all cases eligibility is determined by the individual states. If you think you might qualify—apply to your state officials.

State bonus payments are wholly exempt from federal and state taxes and need not be reported.



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BENGALS—Kneeling, left to right, Tim Tilghman, Jerry Musselman, John Mathews, David Smith, Billy Rones, Kenneth Hester, Mike Balke and Gary Lustig. Second row, Allen Ole, Clay Ponder, Keith Porter, Ed Gonzales, Tony Martina, Greg O'Daniel, Jimmy Stone and Timmy Kinch. Third row, David Ragano, Roger Mack, Donald Wilson, Chuck Davidson, John Donaldson and Brian Weeks.

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1967 Buick LeSabre	\$580
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1967 Olds Coupe	\$660
1968 Rambler, 2 door hardtop	\$580
1968 Olds, 4 door sedan	\$780

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Early Missile Officer Closes Military Career

Another officer who started in the missile business early in his Army career is retiring at the end of the month after 31 years of service.

Colonel Donald H. Steenburn, manager of the Air Defense Special Items Management Office, MICOM, began his involvement with missile as one of the first officers to attend the original Ordnance Guided Missile School at Redstone in the early '50s.

"We studied Nike in the morning and Corporal in the afternoon for a full year and to be eligible for the school, we had to be long-term officers and graduate engineers," Steenburn said.

"As far as I know, there are only three of us left on active duty—Brigadier General Robert Proudfoot who left MICOM recently, Colonel Billy Walker with the Safeguard System Command, and myself.

"That initiation in missile has led to a very satisfying career. I have had challenging assignments that let me grow with the technology.

"Perhaps the two most gratifying assignments were commanding an ammunition battalion in Korea where I worked directly with a large number of troops, and heading the Chaparral program here at Redstone. I saw it grow through the throes of starting and finally being deployed. Since I have been back in this assignment, I have seen Chaparral set an enviable record in the field."

Steenburn has had other missile-related assignments at White Sands Missile Range, N. M.; Fort Meade, Md.; and in Italy.



COLONEL STEENBURN

He and his wife, Marie, have purchased a home on Gunterville Lake which they are renovating for year-around occupancy.

"The next thing on the agenda after retirement is finishing the work on our home," he said.

Budget Bunch

ANF—The Army and Air Force Exchange Service is adding another line of merchandise to its traditional—good, better and best quality stock assortment.

The new lower priced, top-quality items are to be known as budget bunch.

A lower-priced children's clothing program with selected other items is currently being introduced to post exchanges worldwide. The new line of merchandise began appearing on Exchange shelves in July at installations where the customer mix indicated a demand.

Contract Let On Housing Improvements

Colonel Drake Wilson, Army Corps of Engineers District Engineer at Mobile, has announced the award of a \$1,270,700 contract to Western Mechanical Contractors, Inc., of Dallas, Texas, for extensive family housing improvements at Redstone.

The contract calls for improving a total of 719 housing units by furnishing and installing individual central air conditioning systems,

replacing or reworking furnaces, providing humidifiers, upgrading the electrical distribution system, and constructing a new electrical substation and transmission lines. The work is scheduled for completion in about 16 months.

Bidding of the work was

restricted to small business concerns.

There will be a pre-construction conference September 27, participated in by Redstone and contractor representatives and work is expected to begin by October 1.

Policy Seeks Open Exchange Of Ideas

Open and forthright exchange of information among supervisors and management officials is the intent of a policy on intramanagement communications signed recently by Major General Edwin I. Donley, MICOM commander.

Supervisory personnel at MICOM are to meet at least once a month with the supervisors they supervise for informal discussions to exchange information and to express their opinions freely.

James K. Fowler, who served as chairman of a 20-member committee on intramanagement communications systems, said that an established MICOM plan was required by an executive order on labor-management relations in federal service.

"As we studied the best approach, we explored systems in use

at several industries and at other installations in order to develop and recommend the best system for us," Fowler said.

"We recognized that staff meetings are a valuable means for conveying certain types of information, but that we needed to go further than that in encouraging supervisors and managers to communicate effectively."

The policy says, in part, "All supervisors are important members of management. Only the supervisor, by personal skill in communication, can make decisions effective at the working level and convey to higher levels of management the candid views relative to impact of decisions."

"Supervisors conducting these meetings should recognize their function is to listen as well as talk, to impart information and to solicit views. Each supervisor will take prompt action to resolve problems identified in these discussions or to alert higher authority if the problem cannot be solved at his level."

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Adult Education Week

Mayor Joe Davis has proclaimed September 24-29 as Adult Education Week in Huntsville.

The Huntsville City Board of Education will have registration Monday at Stone Junior High and Cavalry Hill School at 6:00 p.m. The following classes are offered free to all adults: Adult Basic Education, GED (High School Equivalency diploma), typing, shorthand, woodworking, ceramics, personal grooming, and sewing.

All classes will meet on Monday and Thursday evenings from 6:00 until 9:00 p.m.

For further information about Adult Education please call Mrs. Bobbie Walden at 536-5328

Counselors

The Huntsville City Board of Education's Adult Education Program has employed three full time vocational counselors to assist adults who are seeking educational and job opportunities.

Joseph Burton, Herman Wright and Margaret Henderson can be contacted at the Adult Learning Center (behind Stone Jr. High for free counseling. To help learners make more knowledgeable choices in their academic program to supplement occupational interest will be counseling on Monday evenings (6 to 9) at the Calvary Hill

Adult Evening Classes and Mrs. Henderson, will be counseling on Monday at the Adult Evening Program, Stone Jr. High.

The Counselors serve as a resource for information on Community educational programs. Free vocational and educational testing is available to adults to learn more about interests, talents, and capabilities of the adult learner.

The Adult Education Program is able to offer this free counseling service through a special 309 (b) grant received from HEW.

Accountants Meet On Thursday

Dr. Henry Angelino will be the guest speaker tomorrow evening when the Huntsville Chapter of the Federal Government Accountants Association meets at Michaels Restaurant.

The Chapter's regular monthly meeting starts at 6:30 with dinner at 7. Guests are invited with Carl Hardy (852-0656) handling reservations.

Dr. Angelino is Assistant for Cost Analysis with the Safeguard System Command. He will discuss "Army Staff Level View of the Program/Budget Process and Its Problems."

Enrollments Being Accepted

Enrollments are still being accepted at the Big Springs Community Center in Huntsville for an adult art class that began last week with an informal get together with Phil Andrews, the instructor.

The first of eight weekly sessions is set for next Monday evening at the Center starting at seven.

Acrylic and oils may be used at the classes adapted for beginners as well as those who have taken previous courses. Simulated landscapes and live models will be utilized.

Andrews, a Missile Command artist, said the classes will be informal in nature and that no

grades will be given. Each class will be limited to 25 persons, 16 years and older, with the Community Center charging a nominal fee to cover expenses.

Additional information may be obtained by calling the Center or Andrews (837-0667). For information on the watercolor class being held on Saturdays, call the Art League (534-2511).

Redstone Toastmistress Club and the Mason-Dixon Toastmasters shared the program at a joint meeting at Ireland's restaurant in Huntsville Sept. 10.

Fellowship

A protestant fellowship meeting will be held tonight at the Post Chapel beginning with a dinner at six in the social room. The University Baptist Church Singers will provide a music presentation at seven.

Church families are asked to bring two salads, vegetables or deserts. A main dish will be provided.

Everyone is cordially invited to attend.

Joint Meeting

Bill Hayes served as Toastmaster and Judy Hanson as topicmistress. Best speakers were Jack Kay and Sara Jamar, best topic speaker: Socorro Caranto.

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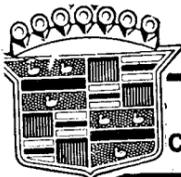
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**Present Papers On
 Laser At Seminar**

Five MICOM engineers from the Research, Development and Engineering Laboratory will travel to Ottawa, Canada, this month to present technical papers at the NATO Seminar on Lasers and Their Military Applications.

They are Dr. Joseph W. Luquire, "Technical Review of Army Laser Terminal Homing Weapons Systems Under Advanced Development"; Robert L. Sitton, "The Army Materiel Command Tactical Laser Measurements Program"; Gene H. Widenhofer, "Laser Designators for Army Missile Systems"; and Dr. Julian S. Kobler and William H. Leonard, "Assessment of Battlefield Environments for Laser Terminal Homing Systems".

The purpose of the seminar is to provide Defense Research Directors with basic information on the military applications of lasers both as presently realizable and as predicted for the future.



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Chemist Receives Doctorate

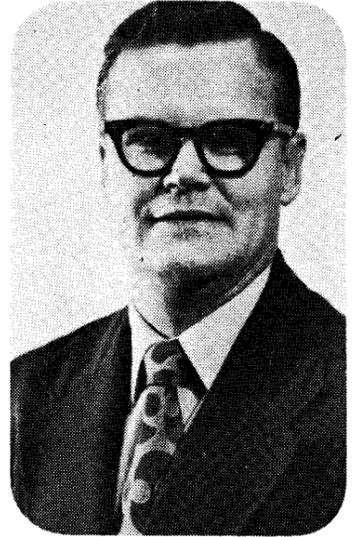
Orval E. Ayers, a research chemist in the Propulsion Directorate received the Ph.D. degree in chemistry from the University of Alabama in Tuscaloosa during recent summer graduation exercises.

Dr. Ayers dissertation entitled "Synthesis and Characterization of Transition Metal-Containing Macromolecules" was in the field of organometallic polymer chemistry.

A native of Grant, Ala., he received a B.A. degree from Berea College in Kentucky and a M.S. degree in chemistry from Auburn University.

He has been employed at the Missile Command since 1959. In 1969, he entered the cooperative Ph.D. program in chemistry between the Huntsville campus and the Tuscaloosa campus of the University of Alabama. During the 1970-71 academic school year, he was in residence in Tuscaloosa on a long-term training program sponsored by the U.S. Army.

During he past two years, he completed all the requirements for the Ph.D degree in chemistry while employed at Redstone.



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And now it can be yours at remarkable savings. Look at these discounts:

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- 33% off on air fare for positive space (military personnel only).
- 25% off on lodging at Reef Towers or Cinerama Reef in Waikiki.
- 50% off on Grayline Tours.
- Discount on Hertz cars.
- Discounts at certain restaurants.
- Free boat tour of Pearl Harbor.

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"The Army lets me be myself."

Sergeant Dean Williams was involved in a lot of different things before he joined the Army. Radio. Journalism. Photography.

But he's been even busier in the Army. And that's the way he likes it.

"Besides my full-time job, I'm also a referee on post, a coach in town, a college student at night, and I'm taking Army courses.

"The Army really lets a man expand, and go as far as he wants to. That's why I reenlisted. My wife and I have a good life here. There's plenty to do, and all the opportunity in the world to be yourself."

Why are you staying in?



SEPTEMBER 19, 1973

POST THEATRE

WEDNESDAY, September 19
"Ludwig" (PG)

THURSDAY-FRIDAY, September 20-21

"Deep Thrust — the Hand of Death" (R)
INCREASED ADMISSION: adults 75c, children 35c

FRIDAY, September 21, Late Show:

"The Lady in the Car with Glasses and a Gun" (R)
One showing at 11:00 p.m.

SATURDAY, September 22
"Blacula" (PG)

SUNDAY-MONDAY, September 23-24

"The Lost Horizon" (G)
INCREASED ADMISSION: adults \$1.00, children 50c

TUESDAY, September 25
"Charley One-Eye" (R)

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

Signs For New Tour

ANF—A former Vietnam prisoner of war with 15 years military service has re-enlisted for another six years.

Sergeant First Class Cordine McMurray of Detroit, Michigan, took the re-enlistment oath while undergoing treatment at Brooke Army Medical Center.

Sergeant McMurray was taken prisoner in 1967 near Pleiku and released earlier this year. His next duty assignment is Fort Bragg, North Carolina.

LTC M. F. (Spike) Spicer (Ret.)
10103 Dunbarton Dr., S.E.
Huntsville, Ala. 35803
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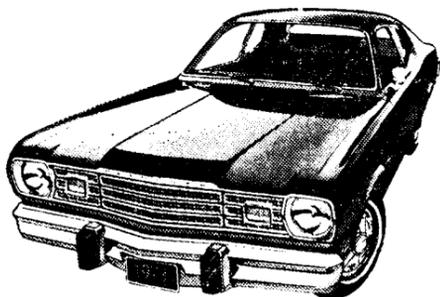
Whether you have questions on your present coverage or are considering additions to your program, call Spike. You'll be glad you did.

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We're Getting Things Moving... EARLY!

New car time will be rolling around soon and we're getting an early start on our closeout of the 1973 models right now! Beginning today, every new and used car and truck in our inventory has a new, low, discount price that means big savings to you. If you've been waiting for Lee-Bentley's model-end clearance, come in early for the best selection. Just look at these sample prices.

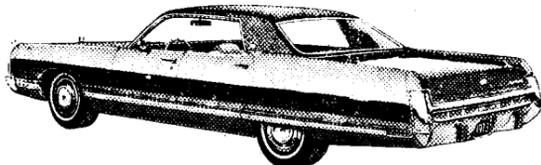
1973 VALIANT DUSTER 2 DOOR COUPE



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

ST. NO. V-1251
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 bench 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-3209
REDUCED TO \$3593⁰⁰ + TAX & TAG

1973 SATELLITE CUSTOM

4 door station wagon, vinyl bench seats, automatic transmission, 318 CID engine, tinted glass, left remote mirror, air conditioned, air deflector, luggage rack, power steering, AM radio, vinyl body side moulding, white wall tires, deluxe wheel covers.

REDUCED TO: \$4137 + TAX & TAG
ST. NO. 3270

1973 SATELLITE SEBRING PLUS

Silver Frost Metallic finish, 2 door hardtop, bucket seats, automatic transmission. 400 CID engine, tinted glass, air conditioned, vinyl roof, vinyl body side moulding, white wall tires, power steering, power disc brakes.

REDUCED TO: \$3950 + TAX & TAG
ST. NO. P-3195

1973 VALIANT SCAMP

2 door hardtop, bench seats, power disc brakes, automatic transmission, 318 V-8, tinted windshield, radio, air conditioning, vinyl roof, vinyl body side mouldings, white wall tires.

REDUCED TO: \$3450 + TAX & TAG
ST. NO. V-1225

1973 VALIANT

4 door sedan, bench seats, power disc brakes, automatic transmission, 318 V-8 engine, tinted windshield, left remote mirror, power steering, vinyl body side moulding, deluxe wheel covers, white wall tires.

REDUCED TO: \$3295 + TAX & TAG
ST. NO. V-1248

1973 PLYMOUTH FURY III

Vinyl bench seats, automatic transmission, 400 V-8, tinted glass all, air conditioning, vinyl roof, vinyl body side moulding, white wall tires, radio, delux wheel covers.

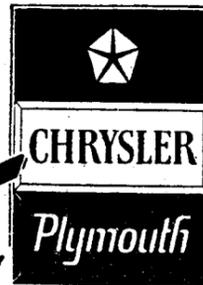
REDUCED TO: \$4050 + TAX & TAG
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1. FOR RENT

FOR RENT—Lovely 3 bedroom & den Brick Home. Many features including covered patio, attached garage, 2 baths, beautiful level lot. Available Oct. 1. \$160.00 per month. Phone 533-0471. TFC

2. CARS

1968 BUICK RIVIERA, fully equipped, excellent condition, 39,000 miles. Priced for quick sale. Phone 837-1121 or see at 4311 Hunt Drive.

FOR SALE—1969 Olds 442. \$600.00. Phone 852-2896. 1tc

3. Miscellaneous

INTERNATIONAL HEALTH CLUB Messages, Steam Baths, Assistant Trainee — Lisa. Call 536-9204. TFC

MASSAGES—Steam and Shower Baths, Thermophore. Heat Pak experienced graduate female masseus. Phone 539-5511. tfc

WANTED—REAL ESTATE SALES ASSOCIATES licensed or interested in obtaining license Reply in confidence to P.O. Box 3041, Huntsville, Ala. 35810. 10-10c

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 16" B&W ZENITH \$8/mo.
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SALES & SERVICE
PHONE 539-3411
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\$100 DOWN—You can move into a like new 3 bedroom home with no closing cost and payments as low as \$89. per mo. Including taxes and insurance. REDSTONE REALTY & FARMS, Phone 539-5800. tfc

LAND FOR SALE — Level, fertile, heavily wooded land on Bice Mountain near Maysville and New Market. Available in tracks of 5 to 40 acres. Priced \$500 per acre. Phone TY DORMAN 582-3654, Guntersville, or write Box 517, Guntersville, Ala. 35976. 9-26c

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Deadline Draws Near

WASHINGTON (ANF)—Military retirees have until Sept. 20 to make their election to participate in the Survivor Benefit plan.

The Plan provides a benefit to the surviving spouse equal to 55 per cent of a "base amount." The "base amount" is any amount of retired pay from \$300 per month up to full retired pay. A member whose full retired pay is less than \$300 per month must designate his full retired pay as the "base amount."

The cost of providing coverage is two and one-half per cent of the first \$300 of the base amount plus 10 per cent of any amount over \$300.

At widow's age 62, the survivor benefits are reduced by the amount of social security attributable to military service. Graphs are available in DA Pamphlet 600-1, Vol. IV, 1973, to compute the social security offset.

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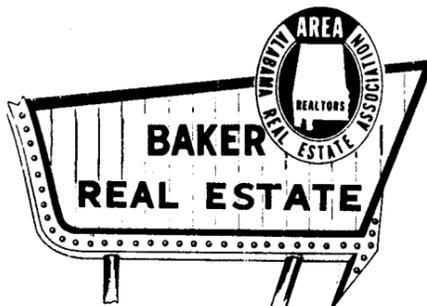
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