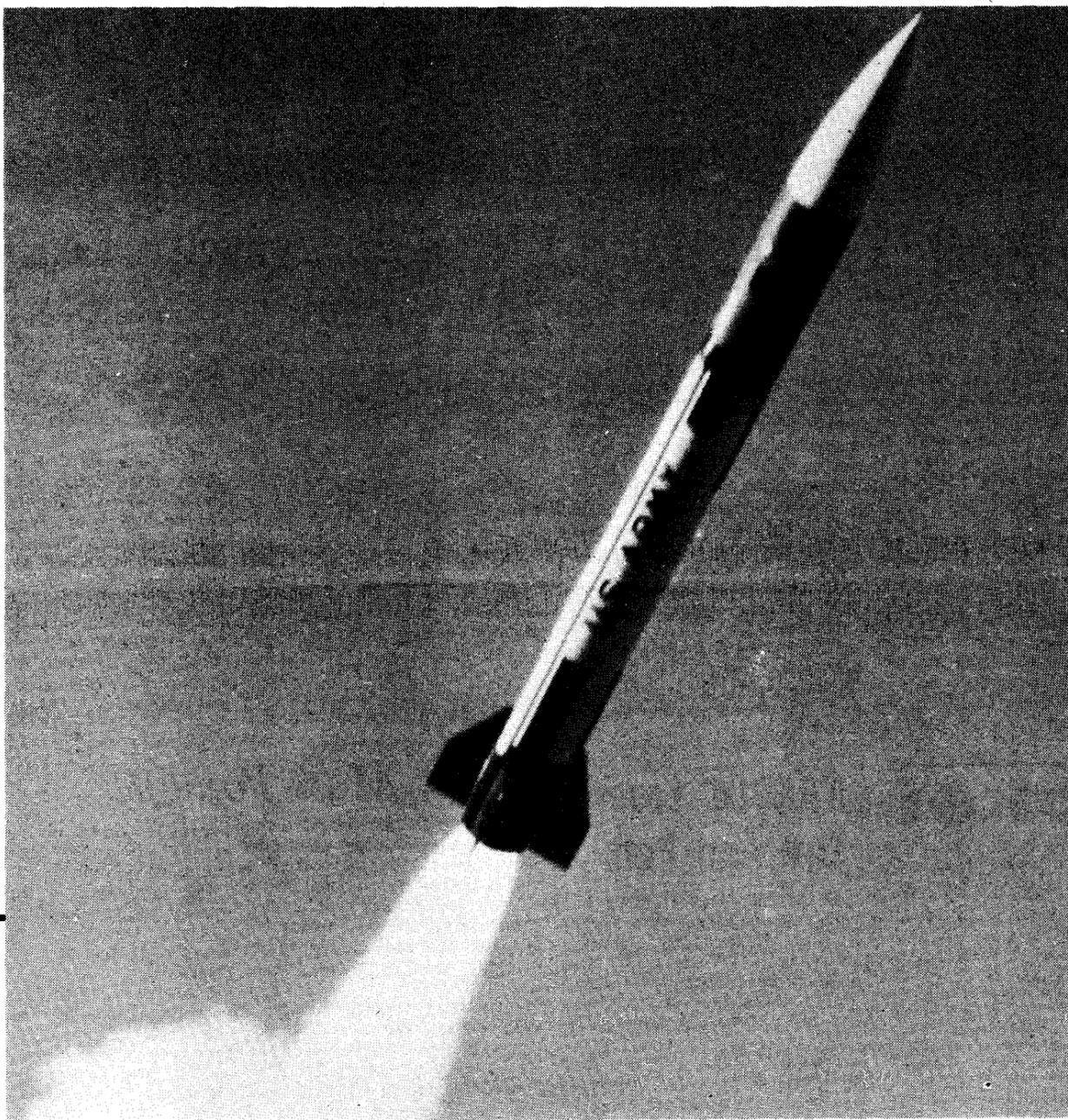


SAM-D In The News



Launch System Checks Out

A SAM-D missile powered by a short burn motor was fired successfully from its own sealed canister last week in a test conducted by Martin Marietta's Orlando Division at its Florida test facility.

The test verified the SAM-D launch system including firing the missile through the fly-through canister end cover.

For the firing, the third such fly-out test, Martin used a modified lightweight canister which incorporates weight and cost savings of the tactical design. Made of aluminum with steel main frames, and insulated with polyurethane foam, the unit used in the test represented all missile-canister tactical interfaces which included the launch rails, missile support, end covers, and missile restraint system.

Its design is the result of an effort to simplify the design and reduce production costs of the operational system.

In production, each SAM-D missile will be packaged and sealed in its individual canister at the factory. The canister will provide complete environmental protection during transport, storage and handling and then serve as launch tube.

When fired, the missile blasts through the forward end cover made of laminated fiber glass. A layer of rubber ablatives on the exterior of the end cover protects it from the rocket exhaust of adjacent missiles in the four-pack arrangement. On the interior side, the end cover is lined with an aluminum foil electromagnetic shield polyurethane foam for insulation.

Callaway's Endorsement

WASHINGTON, D. C. — Secretary of the Army Howard Callaway had praise for the Army and an endorsement for the SAM-D missile system in a press conference last week before leaving the post he has held for two years.

Responding to a reporter's question about R&D programs that might have caused problems, Callaway said:

"On our Big Five, I feel very happy.

"I think we have made a lot of progress . . . SAM-D, you know, the missiles are hitting the targets now.

"We have a relationship with

Congress that we let them know if a missile misses, we let interested people know the minute it misses. I have not sent two many of those out lately. It is a lot more fun to send out the ones that say we are hitting.

"SAM-D is technically in good shape. We've cut it back. It's an extremely expensive program and we've cut it back to what we think is the minimum.

"I don't think there is an alternative to SAM-D. Its purpose is to protect the Army in field. It is not to protect Washington, D.C. or something of that kind...

(Continued Page 11)

Joint Use Study

Germany and the United States are nearing an agreement which calls for the two countries to collaborate in a joint study on use of the Army's new SAM-D air defense missile system now under development at Redstone Arsenal.

A memo of understanding outlining plans for the study on SAM-D interoperability and standardization programs in the U.S. and Europe, particularly Germany, is expected to be signed at Redstone later this month, according to James J. Jernigan, an electronics research engineer in the Army Missile Command's

Advanced Systems Concepts Office.

The Missile Command will conduct the study for the Army and the SAM-D Project Office and Jernigan has been named study director.

Plans call for a German cadre of four, headed by mathematician Reinhard Hutter, to arrive at Redstone to begin the study about August 1. Hutter will be Jernigan's deputy for the study and Colonel Tom Bearden, Chief of the SAM-D Evaluation Branch, will be military deputy.

Jernigan said German teams

(Continued Page 11)

Rescuers

Training and readiness proved life-saving last week when a flight crew from Redstone responded to the call for help after a light plane carrying two Marshall Space Flight Center employees crashed near the North Huntsville Airport at Meridianville. The Army helicopter piloted by Captain Raymond R. Benson, landed near the crash site where one of the injured, John Haire, was taken on board and flown to Huntsville Hospital for treatment. Pictured from left to right are Sp6 Marion Edge, SSgt. Kenneth E. Gann, CW2 Richard Bosworth, Capt. Benson and Sp4 Gerald P. Nogues. The crew also aided in the weekend search for a man missing after a boating accident on the Tennessee River.



Regarding Homosexuals . . .

Army Reiterates DOD Policy

The Army released last week a statement of DoD policy on homosexuals in the armed forces. "Recent voluntary disclosures by service members confessing homosexual tendencies may have precipitated questions by Army personnel of DoD policy regarding the subject", DA said in releasing the policy statement, which reads: "DoD policy requires prompt separation of homosexuals. The homosexual person is considered unsuitable for military service and is not permitted to serve in the armed forces in any capacity. His presence in a military unit would seriously impair discipline, good order, morale and security. Further, DoD has an obligation and responsibility to provide our young men and women in the ar-

med forces with the most wholesome and healthful environment possible. "Those individuals who have established homosexual tendencies are discharged administratively as unsuitable for military service. Persons discharged under this purview receive either an honorable or general discharge depending on the quality of their previous military service. Those persons who commit homosexual acts or acts of sexual perversion, when established, may be discharged as unfit for military service and may receive an undesirable discharge. In addition, specific homosexual acts may be a violation of the uniform code of military justice and, in many cases, the laws of various states

"The unique character of the military environment, both ashore and at sea, precludes any possibility of their assimilation within a military organization, under any conditions. Consequently, homosexual persons cannot be accepted into our armed forces and must be promptly separated when so identified. Likewise, persons who are found unsuitable for military service because of homosexual or other aberrant tendencies are not accepted into or are discharged from the military service, as appropriate. "This policy is considered to be absolutely essential to the effectiveness of our armed forces and to the morale and welfare of its members."

Re-employment Assured

Ft. Monroe, Va.—The arrival of summer—annual training time for most Guardsmen—merits the reminder that Guardsmen, by law, have re-employment rights. Until this year, the Guardsman's job protection was to be found in the selective service act. But with the demise of selective service, the subject has been detailed in Chapter 43, Part III, Title 38, United States Code. Under the law, a Guard or Reserve member is entitled to return to his job after completing active duty for training or inactive duty for training. Seniority, status, pay and vacation benefits paid by his employer should be those he would have had if he had not been absent for military service.

In addition an employer may not fire an employee because of Guard or Reserve membership in the event a Guard member has a problem with his employer which cannot be resolved, two avenues are open. Those employed by the federal government or the United States Postal Service and Post Rate Commission should appeal to the Civil Service Commission for assistance. All others can receive assistance from the Office of Veterans' Reemployment Rights U.S. Department of Labor. At this time, over 300,000 U.S. employers have signed statements of support for the National Guard and Reserve.

The Rocket

The 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 Menefee, P. O. Box 5351, Huntsville, Ala., 35805, telephone 837-8595, as representative of the publisher. Advertising deadline—both display and wantads—is 10 a.m. Monday before publication.

The Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates off post for the Rocket are \$9.54 a year, or \$6.36 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 930, Hartselle, 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.

TRADOC Loses Ord And Polk

Ft. Monroe, Va.—TRADOC has relinquished jurisdiction of two of its posts—Ft. Ord, Calif., and Ft. Polk, La.—to FORSCOM. The action brings the number of major FORSCOM installations to 24 and reduces TRADOC installations to 17.

The switch is the result of a plan announced by the Army a year ago. Under the plan, the Army is increasing its combat-ready forces by using manpower and money transferred from reduced headquarters and support activities.

The Army strength established by Congress is 785,000. Basic and advanced training, the primary missions of Ord and Polk, will continue until 1976, when the two training centers will close. Combat brigades were activated both posts last year.

IEEE Officer Slate

New officers for the 1975-76 year have been announced by the Huntsville Section of the Institute of Electrical and Electronics Engineers (IEEE).

Officers and their respective positions are; Myron Cole, chairman; Don Fronek, vice-chairman; Don Nalley, treasurer; Don Sutherlin, secretary; and Tom Gismondi and Jack Templeton, members-at-large.

Cole and Dr. Sutherlin are MICOM employees while Dr. Fronek serves as an electronics consultant to the command.

Mott For Ott

Ft. Monroe, Va.—Nearly every battalion sized or larger unit in the Army National Guard can expect a staff visit from the National Guard Bureau during this year's annual training period. But the teams will be small and under orders to accomplish their mission without disrupting training.

Major General Hugh B. Mott, a Tennessee Army National Guardsman, has joined the Bureau's leadership for the duration of annual training. Mott will be looking at training of

National Guard divisions and combat brigades during his summer-long tour.

His acceptance of the assignment was announced by Major General Charles A. Ott Jr., director of the Army National Guard.

Protocol officers, base operations people and BOQ clerks are warned to read arrival schedules extra-carefully to see whether that two-star visitor from the Bureau is named Ott . . . or Mott.



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Club Gets New Planes

Most any time, an excursion to the end of the RSA Airfield occupied by the post flying club turns up a member wandering around the airplanes or the club's trailer. A special occasion, like the arrival recently of a couple of gleaming planes — a Cessna and a Piper — draws a legion of pilots and would-be pilots. With the new pair, the club's fleet has expanded to 10 light planes. Major William Benson, chief of the Missile and Munitions Center and School's Training Programs Branch, trained his camera on the admirers and captures these scenes.

The club roster stands at 80 members, nine of whom are instructors. Captain George Cole is working toward his instructor's license. As the group's custodian, responsible for all bookkeeping and property, his interest in the planes is rather special. A sentimental impulse may have figured in Lt. Col. Lawrence Sisterman's appearance. He preceded Cole as custodian and, in tugging the Cessna about with a tow bar, displays a certain fatherliness.

MICOM intern Betty Fry is learning flying in her spare time. Seasoned pilot Hank Lavertue, a Navy petty officer assigned to the Seabees, is seeking a rating to fly commercial aircraft. He and the others were favorably impressed by the additions to the fleet.



SISTERMAN HAULS CESSNA

Air Safety

A mandatory safety lecture will be part of the RSA Flying Club membership meeting scheduled for 7 p.m. tomorrow at Toftoy Hall auditorium. Pilots absent from the safety portion will not be permitted to fly club aircraft until the lecture is made up.

All persons interested in flying and in joining the club are invited. There will be two door prizes of one hour's free flying time in a Cessna 150.



OIL SLICK: Capt. Cole



ALL SYSTEMS GO: Lavertue & Fry



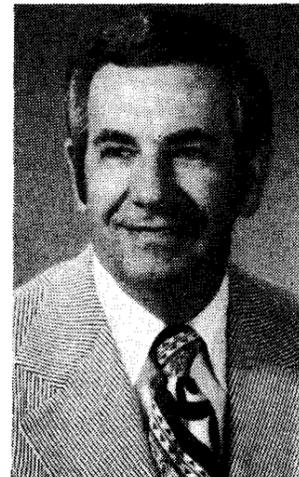
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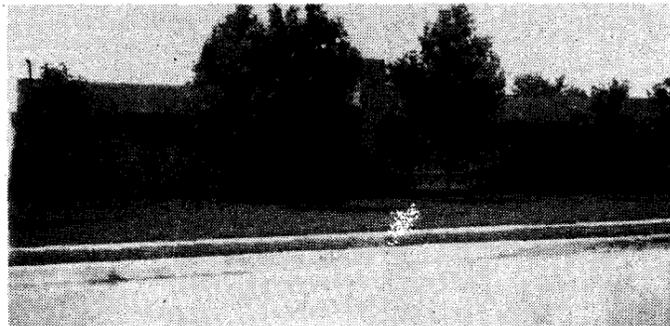
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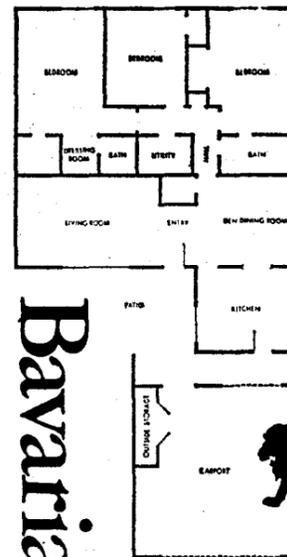
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New Fast Message System

A new system for rapid transmittal of messages by wire called Automated Multi-Media Exchange (AMME) being installed at Redstone will go into operation this month, assuming final tests are successful.

AMME resulted from a DOD program begun in 1969 to reduce the time it takes to get a message from the person who writes it to the one designated to receive it, the reader.

Now messages are typed on a form, signed by a releaser, then carried to the Telecommunications Center in Bldg. 5250, where it is put into the AUTODIN system for transmittal. The center is a terminal of the AUTODIN network which connects just about every military installation in the world for the exchange of narrative and data information.

Time within AUTODIN may be

only a matter of minutes. The problem has been the lag in getting messages from writer to reader because of time consumed in preparation and delivery.

Using AMME, a clerk-typist or secretary will be able to sit down at a Video Display Unit (VDU) and call up from AMME a message form format.

A VDU is something like a television screen with a key board. When a letter is punched, it appears on the screen. The typist completes the message on the VDU and enters a code that sends it to AMME in a matter of seconds, depending on the length of the message.

AMME examines portions of the message, not including the text, for correctness. If it is correct, the AMME will send the message into the AUTODIN system five minutes or less depending on how much

traffic AMME is handling at the time.

On incoming messages, AMME will examine them for office symbols, then send messages to the addressees in buildings where AMME terminals are located, again in less than five minutes depending on traffic load. For those terminals handling card traffic, the same process applies.

The installation of AMME at Redstone is the second of some 27 to be installed by the Army through 1978.

Operation of AMME is no more complicated than other office equipment, and experience at Redstone during training in May and June showed that personnel have little or no difficulty with the equipment.

AMME terminals will be installed in the following activities and locations: Finance and Accounting, Bldg. 8027; Military Pay,

Bldg. 3619; Hawk Project Office, Bldg. 4488; Supply and Transportation Division, RASA, Bldg. 7471; Lance Project Office, Bldg. 4505; MMCS, Bldg. 3300; Metrology and Calibration Center, Bldg. 5435; Directorate for Maintenance, Bldg. 5681; Military Personnel, Bldg. 3222; Directorate for Product Assurance, Bldg. 4500; Army Communications Command Agency-Redstone, Bldg. 7101; Missile Research, Development and Engineering Laboratory, Bldg. 4505; and the Missile Intelligence Agency, Bldg. 5250.

An official of the Communications Command Agency-Redstone, pointed out that a beneficial side effect of AMME is that one terminal or office can send a message to another terminal or office at Redstone. This equates to a DF. DF's today may take as much as five days to get to an office and a reply returned.



ELECTED—William A. Parker, Jr., Deputy Procurement and Production Director, was recently elected to a two-year term as Southeastern Regional Vice-President of the National Contract Management Association. He is a fellow member of the local chapter and has held assignments from the national Contract Management Association. He is a fellow member of the local chapter and has held assignments from the national office level for the past two years.

Career Spanned Forty Years

Karl Erbskorn retired at the end of June with about 40 years of government service, but his career was divided between two governments, that of Germany and the United States. He was employed in the Value Engineering Office at MICOM before his retirement.

He said that he and his family hadn't especially wanted to come to the U. S. initially, but he expected the job he had with the U. S. Army in Germany was being phased out, so he accepted a contract in 1956 to work for the Air Force at Holloman Air Force Base, N.M.

Now that he is retiring, he has no plans or desire to move back to Germany. "Huntsville," he said, "is really in the center of an ideal area — it isn't too far to drive to reach a seashore, mountains or desert country."

Erbskorn's career has covered a wide variety of engineering fields. "Before World War II, I was working for an organization in Germany similar to NASA," he said. "We built the first military gliders and fighter planes and containers for cargo and personnel to be dropped by parachute from an airplane."

smith, a foundry engineer, and electrical engineer, and the technical manager of a stove and stamp company."

He started working for the U. S. Army in Germany in 1950, and came to Redstone from Holloman in 1958 to join the Army Ballistic Missile Agency.

In 1960 he transferred to the Marshall Space Flight Center as part of an early planning group. He came back to work for the Army at MICOM in 1968.

Among honors he has received is a Presidential Citation for superior achievement awarded in 1964.

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Self-described Fighter Is New Union Head

What does a man do who wanted to be a professional fighter, but didn't want a flattened face and cauliflower ears and was put off by the prospect of hearing birds sing when there are no birds around?

Raymond Swaim joined a union. The thickset, 51-year-old Swaim, a Huntsville native who has belonged to a union "most of my working life", is the new president of Local 1858, American Federation of Government Employees.

A self-described "Fighter for the underdog, and in this I don't think I'm any different from anyone in our organization", the new union president reflects: "I guess you'd have to say I've been a fighter all my life". A fighter in various arenas: first as a youth on the street when sufficiently provoked, then in the ring as a Navy boxer and later as a union member and officer fighting for, as Swaim puts it, "the underdog" who he describes as being "constantly frustrated, put upon and deprived" in promotions and other personnel actions. That description fits "the greater part" of the membership in the Local, Swaim said.

Swaim once had his sights set on a career as a professional boxer, was even advised to seek one by a middleweight champion of the world after the champ saw Swaim in the ring as a Navy boxer in World War II.

But Swaim, whether or not he was compelled by cosmetic con-

siderations as he suggests jokingly, nevertheless decided not to become a boxer and instead went to work in an Ohio tire plant after leaving the Navy. It was at that plant that he first became a union member. He continued as a union man on moving to a job with the postal service and was among the first to join the AFGE Local when it was formed here. Swaim has been since 1957 as a water treatment plant operator and steam plant operator.

He has served the Local in various capacities—"Guess I've held more elective positions here than anyone"—including a year in the presidency in 1971 after ascending to it from the second slot when the Local president resigned because of health.

He also serves as first vice president of the AFGE Alabama Council of Locals.

Swaim says that as Local president he wants to be "a leader who will draw the membership together and bring about more cooperation between the membership and the elected officials".

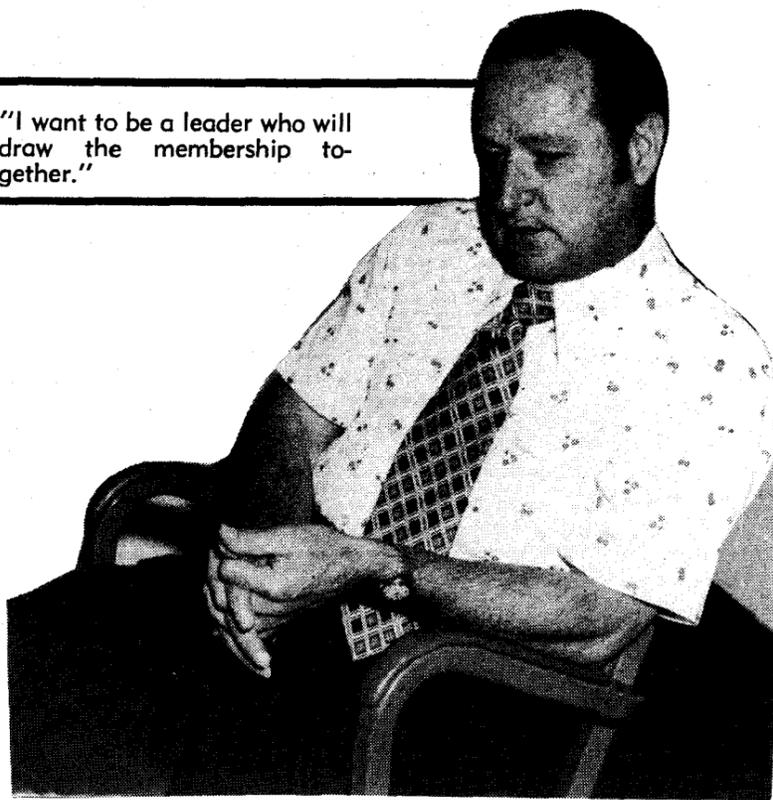
Another high-priority issue with Swaim is better communication of the local with district and national office. This, along with member participation at meetings, are two things the local cannot survive without, Swaim believes.

"An organization like ours can't be alone, can't be autonomous. We get things changed through legislation, and that takes

cooperation", he said. "Laws are made, rules are changed, at the national level, not here", he continued, "and if we cut ourselves off from these people (the district and national offices) there is no way we can survive in my opinion."

"Not enough participation at membership meetings" is a

"I want to be a leader who will draw the membership together."



problem Swaim hopes to do away with. "I plan to make sure meetings are interesting and all business handled with dispatch", he said.

Swaim says too that he's maintaining an open-door policy. "Members can call me, write me, come see me. We need their input, the more we get the more effective we'll be."

"There'll be no secrets", he continued, "I'm not going to withhold anything from the membership, which is not saying things have been withheld before."

"I intend to function as mandated by the membership as best I can. I want every member to have his say, but if they don't come to meetings I won't have their input and participation"

"A union is like a church. It belongs to the members and if the members don't participate, don't come to meetings, it can't exist", Swaim said.

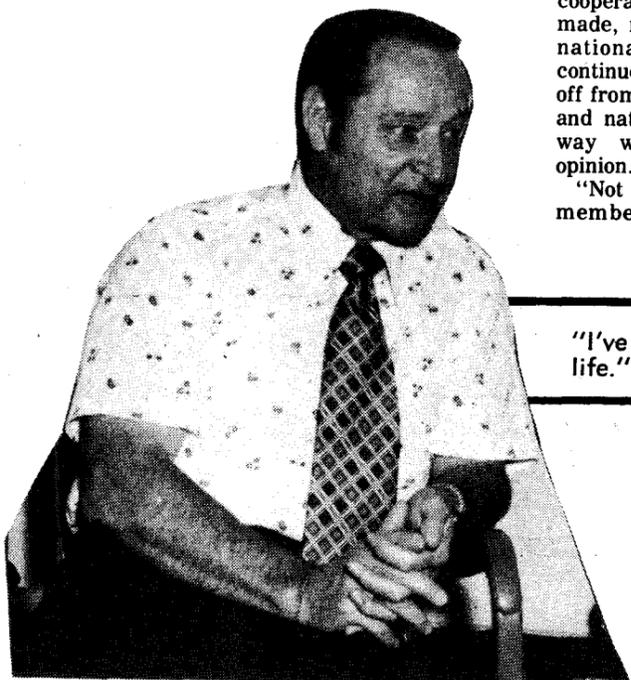
Swaim announced earlier that the principal goals of the Local during his two year presidency will be to fight RIFs, downgrading of

job positions and contracting out of civil service jobs.

The "biggest complaint" he gets is promotions, "people being overlooked or not getting proper consideration", he said.

In comments on the Hatch Act, which is one of three areas getting the thrust of AFGE's lobbying effort, Swaim said: "There's a lot of good in it, but also a lot of bad. Federal employees are the only taxpaying citizens deprived of the opportunity to engage in partisan politics, and I can't understand why this should be. The Act needs to be reworked."

Of federal employee strikes—AFGE's position is that they should have the right to strike—Swaim commented, "I'm not against federal employee strikes, if they were within the law. Strikes are very effective in private industry, but it's a weapon we don't have in government. We can't strike legally, so to get things for our membership we negotiate, confer, persuade and use the rules and regulations."



"I've been a fighter all my life."

Army Encourages Extended Tours

(Washington, D.C.)—Involuntary overseas tour extensions of up to three months will continue during the new fiscal year since funds to

permit tour reductions aren't in the new budget, according to DA.

The extensions will "remain in effect indefinitely", DA said.

This means soldiers on 36 month long tours will have to serve 39 months, while unaccompanied personnel on 24 month tours in a long tour area will be extended involuntarily to 27 months.

Soldiers serving one-year short tours have been extended to 13 months.

The extensions are a continuation of a policy that began April 1 due to lack of money and are necessary, DA said, because "inflation continues to drive travel costs up and there are no funds in the FY 76 budget to permit a reduction in overseas tour lengths."

Meanwhile, DA is urging soldiers overseas voluntarily to extend their tours for six months or more to help save money and cut personnel turbulence.



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Not Yet Ready For Museum

It was a familiar sight in an unfamiliar role.

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But instead of swooping down on a drone or fast moving jet and knocking them down, the plane killer pitched over gradually and plunged back to earth minutes later within a few feet of a surveyed stake—some 20 miles from where the missile left the ground.

The missile was Nike Hercules, the place was McGregor Range at Fort Bliss, Texas, and the occasion was the beginning of a firing program last week to evaluate Nike Hercules in a surface-to-surface role.

Thus far, the Army has fired two missiles at the surveyed stake from ranges of more than 20 miles. And the miss distance both times was less than the length of the Nike Hercules round.

"We're validating improvements made to Nike Hercules," said Colonel Hal C. Bennett, Jr., Manager of the Missile Command's Special Systems Management Office, "and we're devising new firing tables and procedures to increase system accuracy and reaction times."

Bennett said MICOM is conducting an eight missile firing program in cooperation with Picatinny Arsenal and the Fort Bliss Air Defense Board.

MICOM is evaluating Nike Hercules in a surface-to-surface role and the Armaments Command is

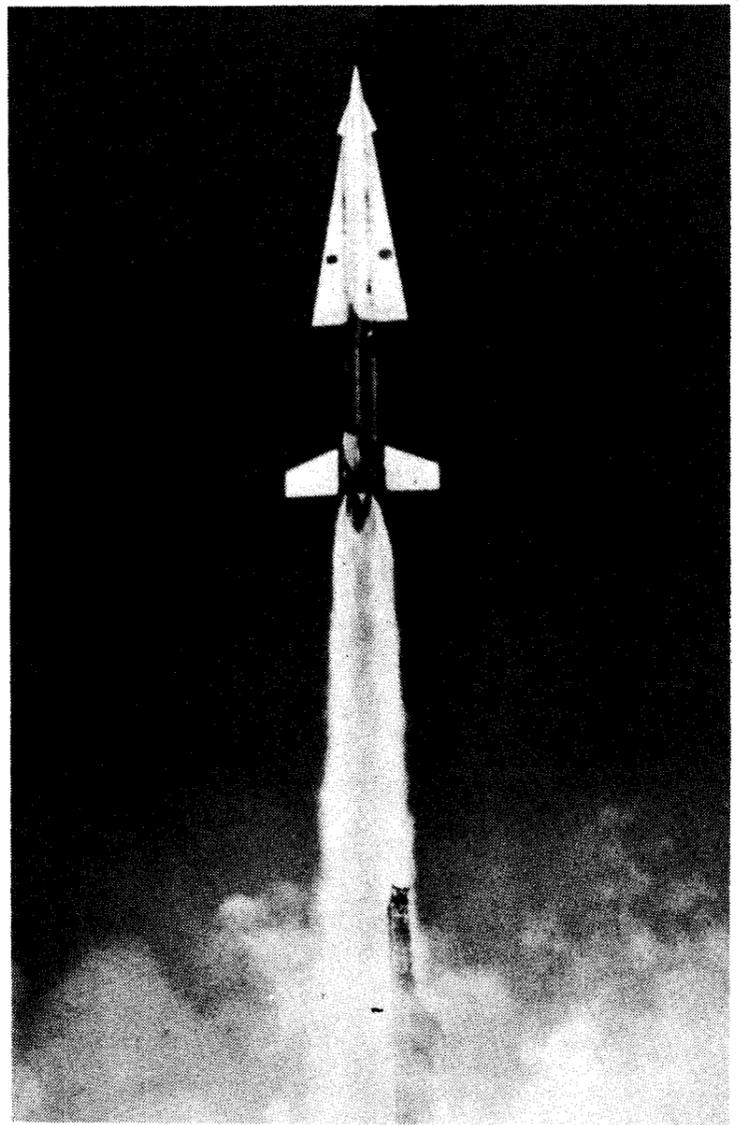
analyzing its warhead stockpile surveillance program.

Soldiers from the 4/62 Artillery (Air Defense) at Fort Bliss are conducting the firings.

During the remaining six tests, soldiers will fire at ranges of 20, 40 and 100 miles. All tests will go at McGregor except the 100 mile missiles which will impact on White Sands Missile Range.

MICOM representatives at the firings were Kenneth Pickett, Special Systems Management Office and James Easterling of the Systems Engineering Directorate. Lieutenant Colonel Safron Canja is the systems Program Manager.

Deployed in 1958, Nike Hercules remains the primary high altitude air defense weapon for the free world.



Herc



Councilman

Charles Atkins, a contract negotiator in the Procurement and Production Directorate, has been elected to Priceville, Ala.'s first city council. He won the seat in a recent run-off election. This marks the first time he has held a public office.

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MAME Survey In Final Phase

The third and final phase of the Missile and Munitions Evaluation (MAME) project begins this month as representatives of six major Army commands and agencies conduct a survey of Army units in Europe.

Participating agencies in the MAME survey are the Missile and Munitions Center and School, Missile Command; the Logistics Center at Ft. Lee; the Armanent Command at Rock Island Arsenal; the Field Artillery Center at Ft. Sill; and the Air Defense School at Ft. Bliss. Team members will conduct surveys and interviews with hundreds of persons from privates to generals to gather first-hand information about Army missile and ammunition support in Europe.

The European survey will be completed around mid-September and a final report on all three MAME phases will be issued toward the end of the year.

MAME previously surveyed units in the U. S. and the Pacific. Results of those surveys will be combined with the European survey.

"The whole idea of MAME is to put U. S. commands in touch with field units," according to Jack L. Matthews of MMCS, the MAME deputy project director. "This way, we can insure everything we do supports realistic, near-term field requirements," he said.

Matthews and other team members will be responsible for gathering information by various means from air defense and land combat missile units, and conventional and special ammunition units throughout Europe. Each of the four types of unit is addressed by a MAME team whose members are trained and experienced in specialties related to the units' missions.

Matthews, project director Lieutenant Carl M. Powe, and others on the project point out that the MAME team is not on an inspection tour.

"That's not our objective," said Matthews. "We're examining technical training, combat service support doctrine, organizational structures, equipment design technical publications and logistics effectiveness to see if all these areas are relevant and adequate."

If any of these areas have shortcomings — in short, if the training and logistics "system" isn't working the way it should — the team will effect change.

The changes could take a variety of forms. For instance, equipment may have to be modified to make its maintenance or repair more effective or efficient.

In the civilian world, it's like making sure a mechanic doesn't have to remove an automobile engine just to change the oil, or assuring he doesn't have to spend hours replacing a headlight.

In the missile and ammunition areas to be examined by the MAME team, no such obvious equipment design shortcomings are expected. But preliminary findings from similar team efforts in CONUS and the Pacific have indicated some equipment modifications may be necessary.

Equipment design is one of many major areas to be examined. Other areas and their implications are:

Doctrine — to find if the prescribed way of "doing things" is as effective as it can be.

Organization — to see if units assigned particular missions are authorized the right amount and kind of people and equipment to do their jobs.

Logistics management and reporting — to determine if supply and maintenance are being man-

aged and accounted for as effectively as possible.

Personnel — to see if missile and ammunition units in Europe have the right numbers of people with the right skills to perform their missions, and to see if technically trained persons are working in their specialties.

Training — to be sure training is adequate and determine whether it should be modified or expanded.

Publications — to determine whether training, field and technical manuals are accurate and easy to understand.

Materiel — to assure that supplies are available and properly handled, that maintenance is being properly performed, and that maintenance for systems is adequate.

It's an ambitious project, but one carefully designed to develop usable data for analyzing real-world situations and finding how well the surveying commands are supporting field elements.

And if corrective measures must be taken in training or research and development, the MAME team will be able to coordinate and follow through on that action.

What's Your Problem?

The Army and Air Force Exchange Service wants to know what is bugging the customer. So the local Post Exchange has a way for their patrons to go directly to the top.

Donald Emmons, local Exchange manager, said that customers can pick up a self-addressed, postage-paid card from a display, put their comments on it, and send it on to the AAFES. The card will be given individual attention, facts on it researched, and plausible answers given.



LOOK MA—These troops may not have zero number of cavities but they're well on the way to becoming better fighters against the problem. Captain Joel P. Jones of the MEDDAC Dental Detachment coaches soldiers of the 8th Student Company on proper brushing technique during a recent outdoor oral hygiene class.

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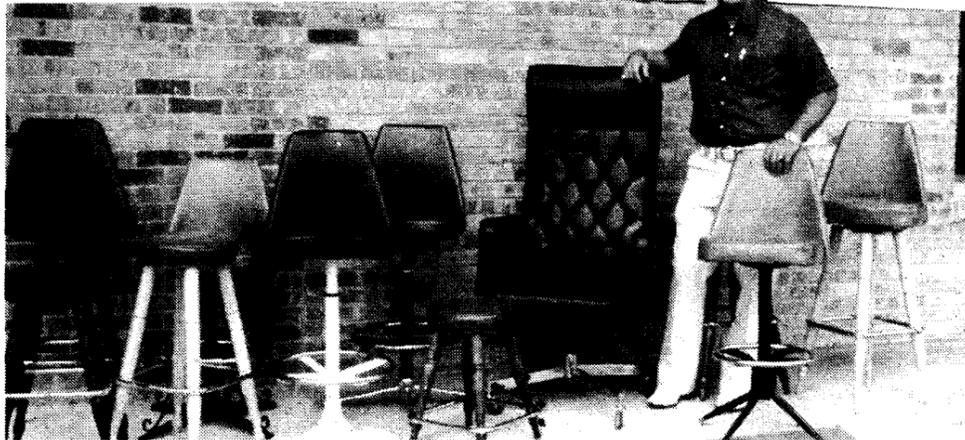
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Gardeners Aren't Made Overnight

To keep pace with rising food prices, many people have decided to become "instant agrarians", gardeners overnight. Although gardening can be fun and profitable, there are dangers to be considered.

For anyone unaccustomed to hard physical labor, spading can be back-breaking work. Heavy snowfalls are followed by hospitals reporting heart attacks from too much shoveling. Heavy soil is harder to move than wet snow.

A garden is more than just good earth. Landscaping fill often contains a large amount of trash items that have been hidden for years. Broken glass, scraps of rusty metal and wire make it imperative that tetanus immunizations be kept up to date.

Barefoot gardening is only for trouble. Tough shoes insure protection against infected cuts and

punctures.

Wearing gloves will not only protect the novice gardener from blisters when shoveling, but they will guard against pesticides when spraying.

Gardeners should not buy more chemical spray than can be used immediately. If storage of the unused portion is necessary, use the original container and place out of reach of children.

When spraying, cover as much of your body as possible and use a face mask. Use the least toxic product that is capable of doing the job. If it's windy, postpone the spraying. When finished, wash the exposed parts of your body thoroughly. Some toxic chemicals can enter the body through the skin pores.

Tools should always be put away in an orderly storage area when not being used.



EQUESTRIAN TRIO—Not only are they saving gasoline, but also sharing a parking slot. The girls, from left, are Cindi Harwell with Cheval; Diane Simpson on Gypsy; and Janet Simpson on Shadrach. They stopped under the trees on the front lawn of Building 5250 to rest their mounts and get a cool drink of water before continuing on their 15 mile ride from Madison to south Huntsville.



EAGLES, NO DOUBT—Col. Robert W. Gruen and Mrs. Gruen, share the fun of his receiving oversize eagles as he is promoted. The new colonel is chief of the Chapparal, FAAR Management Office at MICOM.

New Deadline For Pay Inversion Policy

Congressional debate on a modified retired pay inversion policy has prompted MILPERCEN to post a new deadline—Aug. 15—for retirement applications.

The measure under debate would allow retirees to remain on active duty for a longer time without loss of retired pay.

Since the decision on the measure will influence the actions of some persons planning to submit retirement applications, a 60-day submission lead time specified by

regulation is waived through Aug. 15, according to MILPERCEN.

Requests for waivers must be received by the retirement approval authority no later than Aug. 15. Requests will be processed on a first-come first-served basis.

MILPERCEN warns that those requesting waivers should be aware that orders may not be issued until Aug. 31 and those stationed overseas may be inconvenienced.

Delayed processing will not effect the Sept. 1 retirement date and members will still be able to avoid the additional decrease in retired pay that will result from the next scheduled pay raise.

Retirees applying for a medical disability should have a retirement medical exam if they have not done so. This will prevent loss of retired pay if Congress does not enact the legislation under debate, according to MILPERCEN.

AUSA Passes Magic Mark

The Tennessee Valley Chapter of the Association of the U. S. Army membership campaign passed the magic thousand mark last week for a total of 1,059 new or renewed memberships as the roundup came to a close.

The typical joiner in this AUSA drive was a MICOM civilian who already belonged to the lobby group and renewed his membership. There were 309 renewals and 247 new memberships for a 556 Missile Command total.

Department of the Army civilians formed the bulk of those who signed up. In all, 654 either paid their first dues or paid again.

Military men accounted for one out of four AUSA joiners in the campaign. A total of 254 submitted their membership papers.

The Missile and Munitions Center and School trailed MICOM with 184 new and 45 renewed memberships. The Redstone Arsenal Support Activity recorded 11 newcomers and posted 18 renewals.

At BMDSCOM, 47 persons renewed and 23 submitted initial applications. Another 59 memberships were mailed directly to AUSA and no breakdown is available.

In all, 539 persons were newcomers and 461 were renewals, according to the drive chairman's summary sheet. The campaign began in May.



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The Quality Is Assured

The Missile Command has tested and barring unforeseen problems in final data analysis, should accept the first lot of Dragon rounds from Raytheon Company, a second source producer for the man-portable, shoulder-fired, tank killer.

MICOM test engineers fired two Dragon rounds at the range on the Arsenal Wednesday to successfully conclude the first production acceptance tests of Raytheon hardware.

Firings are continuing and each lot submitted by Raytheon will be tested at Redstone.

McDonnell Douglas Corporation is developer of the Dragon system and current round producer while Raytheon Company was selected in 1972 as an alternate producer.

Colonel Arthur Goodall, Dragon Project Manager, said production acceptance tests enable the Army to evaluate the reliability and accuracy of Dragon rounds before buying them.

"That way, we know we're getting a quality product for our money."

Under the program, the government will take a random sampling of Dragon rounds off Raytheon's production line for testing before Army evaluators at Redstone. If tests are successful, the Army buys that particular lot of rounds.

If they fail, the Army isn't obligated to buy until the company produces workable rounds.

Although Raytheon manufactures components at Bristol, Tenn., final assembly of rounds to include warheads and packaging for delivery to the Army is performed in government-owned facilities at Redstone.

Conducting acceptance tests at Redstone are Joe Hiatt of the Product Assurance Directorate, test coordinator, Manuel Garcia of the Test and Evaluation Directorate, test conductor; and Roy Flanary, Raytheon test range representative.

Weighing about 31 pounds Dragon is completely manportable but powerful enough to destroy any known enemy armor or field fortifications. It will replace the 90mm recoilless rifle.



FLY BEFORE BUY—The Missile Command has just concluded production acceptance tests with the first lot of Dragon production rounds from Raytheon Company. Tests are continuing at Redstone. Conducting tests are from left, Manuel Garcia, test conductor; Roy Flanary, Raytheon representative; Laurie Atkinson, Dragon Deputy Project Manager; Joe Hiatt, test coordinator.



MAKES AWARD—Major General Bates C. Burnell, Commanding General, BMDSCOM, presents Dr. Charles H. King, Jr., Director of the Urban Crisis Center, Atlanta, Georgia, a pen used to sign documents indicating acceptance of the Safeguard Army Ballistic Missile Defense System from the prime contractor. General Burnell attended a Race relations Seminar conducted by Dr. King and received a certificate of appreciation for his participation in the two-day course sponsored by the Command EEO Office.

Typewriters On Way Out

WASHINGTON (ANF)—For some first sergeants, their wildest dreams may be coming true if a TRADOC test proves successful. A concept that recommends removing typewriters from the orderly room is to be tested by MASSTER at Ford Hood, Tex., late this year.

In the test, unit clerks will be reassigned to battalion headquarters and work for the battalion personnel officer. All

formal personnel and supply administration will be done at battalion level.

Unit personnel reporting will be handled via SIDPERS, telephone, radio, penned messages and other informal means. Supply transactions will be handled similarly.

If the test is successful, administration above unit level may be implemented Army-wide beginning in FY 77.

Under such a system, special word processing techniques at brigade or battalion level might have to be used to cope with peacetime paperwork loads.

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Characteristic McClellan: Month's

Big signs on the wharves were the first things soldiers saw as the steamboats that took them South nosed into the landing at White House, Virginia.

Signs with this message: "Undertakers & Embalmers of the Dead - Particular Attention Paid to Deceased Soldiers."

Business had been good and in May 1862, as these late arrivals sweated in their heavy blue uniforms on the short hike inland to join the Army of the Potomac preparing to attack Richmond, business was about to get much better.

The campaign had begun in a spring filled with promise, the Union army shifting South smoothly from its camps near Washington, coming down by transport and steamboat to Ft. Monroe at the tip of the peninsula formed by the York and James Rivers as they flow into Chesapeake Bay.

From there the army would march in overwhelming strength, so the plan went, up the peninsula, its flanks and supply line

Army of the Potomac. Shortly thereafter aged General Winfield Scott went off to retirement and McClellan, for a time, succeeded him as Chief of Staff as well.

Lincoln wanted a fighter and what he had in McClellan was a manager, a very good one. Self-reliant, assured, McClellan turned the mob of volunteer soldiers in and around Washington into an army, cleaned up the army's camps, got the kinks out of the supply system, put the soldiers to work in training and drills.

Then he held immense division parades to let his soldiers look at one another and realize, as they soon did, that they were part of something big on their way to becoming something grand.

Life in those days for McClellan was a series of grand parades and fawning newspaper articles, the kind that called him "Brilliant" and "The Young Napoleon." It was heady stuff, but then things began to turn sour between the general and his civilian superiors. Perhaps it was because McClellan listened too hard to the men who told him he was the last hope of the nation; perhaps it was because he began to offer gratuitous advice to the President; probably it was because he suffered from a fatal affliction finally summed up by President Lincoln in a few scornful words: "McClellan," the president said, "has the slows."

DRILLED SOME MORE

The young general never really got the message although Lincoln tried very hard to tell him the times - and the Republican dominated Congress - were demanding action. He would not be rushed. McClellan's idea of war was that it was to be managed carefully. Battles were to be fought only with every advantage, and it takes time to get things just right. So his Army grew and drilled and drilled some more and 1861 became 1862 and Lincoln finally lost both temper and confidence in his general, relieved him as Chief of Staff and ordered him to take the Army of the Potomac out and fight.

What McClellan proposed to do at last was take the army South by ship, thus outmaneuver the Confederate Army of Northern Virginia, compel it to fall back on Richmond, march to the Confederate capital in overwhelming strength and finish things off. Lincoln gave reluctant approval but insisted that a strong body of troops be left behind to keep wandering Confederates out of Washington. McClellan wanted every soldier with him and the absent troops were a source of much further misunderstanding between the general and his government.

Even so, when McClellan started up the peninsula he had more than 50,000 soldiers with more coming in on every boat. In the 70 miles between Ft. Monroe and Rich-



Blowup

Union soldiers inflate an observation balloon used during the Peninsula Campaign, May, 1862. (National Archives)

Undertakers & Embalmers . . .
Particular Attention to Dead
Soldiers

protected by the Navy, fight a battle, take the Confederate capital and win the war. Had it moved quickly, things probably would have turned out that way.

It did not move quickly. It never got to Richmond and the war that had seemed all but over would go on for three more years.

This Army of the Potomac was a star crossed outfit, fated to be used like a beast of burden by a series of inept commanders, an army that occasionally came close but never could manage to win the war, haunted constantly by the knowledge that one misstep could lose everything. In April, 1862, as it started for Richmond full of confidence and hope, it was a massive, yet untested fighting machine built by a man who never quite figured out how to use it.

MORE SWIFTLY AND WIN

His name was George B. McClellan and in the beginning it appeared he had all the tickets. A West Pointer who became a railroad president in his mid-30's, he had come back to the Army at the outbreak of war, got Commission as Brigadier General of Volunteers, moved a small-army energetically into West Virginia and won a victory. Doing that, he came to the attention of Abraham Lincoln who then and later wanted above everything else, generals who could move swiftly and win.

After the disaster at Bull Run, McClellan found himself suddenly propelled to Washington and placed in command of the

mond the Confederacy just then had not more than 15,000 men.

They were led by General John Magruder and they held a thin line of field works and trenches across the peninsula from Yorktown on the York River south to the James. Magruder had been active in amateur theater before the war. When the Army of the Potomac came up to his lines he put on a show, marching men about, firing guns and so impressed McClellan that he sent back for his heavy artillery and settled down for a siege.

It took a month that the Army of the Potomac could not afford to float, manhandle and haul the 100 massive siege guns up to the Confederate line and get ready for an assault. When the methodical preparations were finally complete, the Confederates pulled back. By then most of the armed rebels in Virginia had come together to oppose McClellan and the remainder, a small army led by Stonewall Jackson in the Shenandoah Valley, had

been busily knocking the props out from under the Union strategy.

FRUITLESS SEARCH

In a classic campaign beginning in late March and continuing into June, Jackson and his men fought six battles, won all but the first, and routed Union forces in the Valley. They also threw a bad scare into the Lincoln administration which presently began to shift troops up Jackson's way in an attempt to trap and destroy his army. One result was that several thousand soldiers who otherwise

The Army of the Potomac found itself divided

would have been in McClellan's army before Richmond, went marching instead

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Delay Adds Three Years To War

all over Northern Virginia vainly trying to catch Jackson.

The Army of the Potomac came crunching close to Richmond as May ended, while the badly outnumbered Confederates, fenced, sparred and retreated. He still hoped for reinforcements to come marching down and join him and McClellan had the right wing of his army strung off to the north, three full corps on one side of an inconsequential creek called the Chickahominy, two others South of the river.

It rained hard on May 30, the Chickahominy flooded and the Army of the Potomac found itself divided, contact between the two halves hanging by the slimmest of threads, a couple of shaking pontoon bridges across the suddenly raging river.

The Confederates came in hard on May 31, striking at the two Union corps South of the river. They botched the attack, however, units got in one another's way,

some never got into action at all, the pontoon bridges held and the apparent result was a bloody repulse for the defenders of Richmond.

Late in the afternoon, however, during this battle at Fair Oaks, a Union soldier fired the shot that turned out to be the most costly in the 200 year history of the U. S. Army.

It severely wounded the Confederate commander, General Joseph E. Johnston, Robert E. Lee replaced him.

Sources:

- "American Military History 1607-1958," Department of the Army.
- "This Hallowed Ground" by Bruce Catton, Doubleday & Company, New York.
- "Terrible Swift Sword" by Bruce Catton, Doubleday & Company, New York.



Endorsement

(from page 1)

"There is nothing in recent warfare that I have seen that indicates you do not need protection for a field army against aircraft.

"What we have now will be totally inadequate in the 80's. It will be inadequate from the term of multiple targets . . . counter electronic countermeasures and the capability to sort all that out. We are just not going to have adequate air defense. I've heard no one who thinks we should not have adequate air defense. I have heard no one with something better than a SAM-D.

"There are plenty of people who say it is too expensive, but I have heard no alternatives to it. I think it's in good shape. It got through the Congress this year in good shape."

Thanks From The President

WASHINGTON (ANF)—President Ford will congratulate military or civilian personnel who submit suggestions or recommendations resulting in first-year savings of \$5,000 or more.

Presidential recognition is part of a special cost reduction campaign that will run through the rest of 1975. The campaign focuses on use of the incentive awards program to cut costs

Joint Use

(from page 1)

will come and go during the 18-month study and that 10-12 officials might be here at any given time but that Hutter and his party would stay the entire time.

The entire study team, totaling about 25, will locate in the J.C.N. building in research park. In addition to MICOM, SAM-D, and German missile experts, other representatives will include the Air Staff, Army Air Defense School and Office, Assistant Chief of Staff for Intelligence.

Major General Charles F. Means is SAM-D project manager. The project office reports directly to the Army Materiel Command in Washington but is supported by the Missile Command.

"The Germans are interested in buying SAM-D," Jernigan said. "The memo of understanding just like a contract, outlines what each country will do during the study, responsibilities and procedures to follow and how much it will cost—even down to who pays for telephone calls."

Germany and the U.S. are splitting the cost of the study.

SAM-D, which will replace both Nike Hercules and Hawk air defense systems, is being developed for defense against aircraft of the 1980s and beyond. The highly mobile, all weather system is the only air defense weapon of its kind and capabilities under development in the free world.

Self Improvement Chances Excellent

Geraldine Fromhold is a staunch believer in the Army's program for self-development, particularly when holding her new diploma.

The recent graduate completed the defense international logistics management correspondence course offered by the Army Logistics Management Center (ALMAC), Ft. Lee, Va.

The idea of taking a correspondence course was especially appealing to Mrs. Fromhold because it meant she could stay at home near her new grandson. She speaks highly of the opportunities available for self-improvement.



GRADUATE—Geraldine Fromhold is congratulated by her supervisor Jim Kelly after receiving a diploma from the Army Logistics Management Center.

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'It's hard playing catch-up to mother nature'

Fourth of July festivities robbed days and pesky rains canceled another day's action so that only six games were completed in the RSA Slo-pitch Softball League last week.

With a deadline to meet for regular season play, a post playoff and an All-star contest, Sports Director Ralph Santaliz has had his work cut out for him. His men

have literally worked around the clock trying to keep the softball field in playable condition.

To meet the rising problems, Santaliz has revised the make-up schedule and has added another softball diamond—Field No. 8 on Goss Road—in an attempt to absorb the rain-canceled games, which now number 17.

"It's almost hopeless," said

Santaliz on Monday after nearly four and a half inches of rain fell Sunday.

"We're doing everything possible, but when you don't have a Houston Astrodome, it's hard playing catch-up to mother nature," said Santaliz.

Santaliz's woes were not brightened any earlier this week when weathermen gave only a 40 per cent chance for sunshine Monday and Tuesday.

During the rainy week, Company C and the 4th Student Company continued to dominate the league's Eastern division with the 8th SC and Company A tight on their heels. The C's lead the pack with two losses, while the three other contenders had three defeats each.

MONDAY

The 4th SC came up with two runs in the sixth and then added an insurance run in the seventh inning to edge Meddac, 9-7.

Elwin Shumway cracked a triple, while Otis May, Bob Davis and Bill Beckwith doubled for the students. For the medics, Roger Crossen tripled and Tom Cobb and Bob Lane had a double each.

Steve Spittler went four for four, including two triples as Company C continued their fine defensive play to post an 11-9 win over the 6th.

The students jumped off to an early 8-3 lead after three innings, but the permanent party players exploded for six runs on nine hits in the fourth to take a 9-8 advantage and then added two more runs in the sixth for the win. In the fourth-inning rally, Bobby Combs and Walt Luck tripled, Jerry Butler doubled, while Dave Cowan belted an inside-the-park homerun.

Greg Keith and Kevin Brackett led the students with two doubles each. Larry Schlernitzauer chalked up the win for the C's, while Gary Robbins suffered the loss for the 6th.

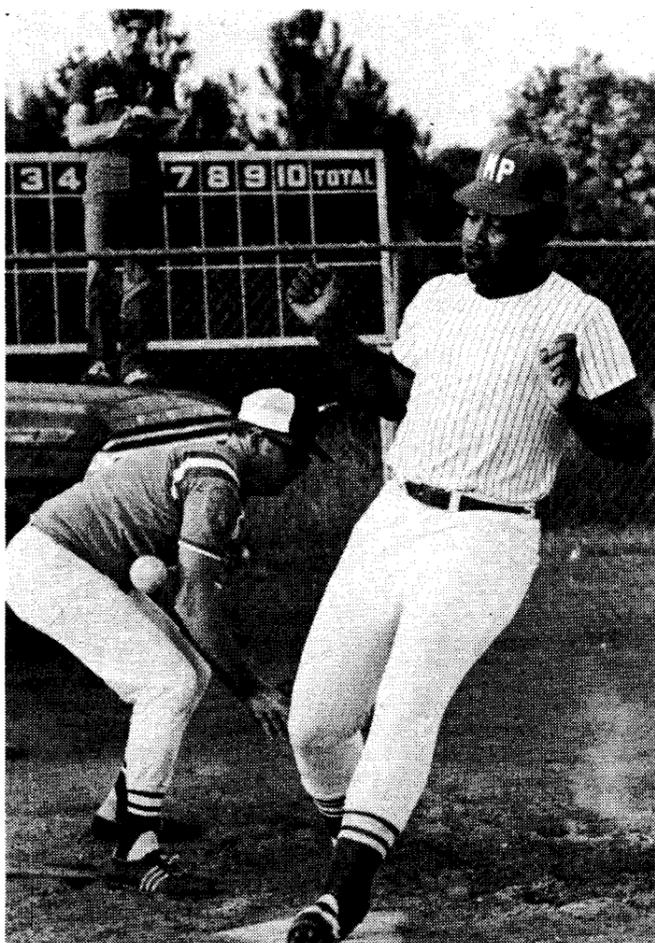
Pitcher Jerry Phillips holds a record in the RSA Slo-pitch League. The right-hander leads in strikeouts, with five. In a game last Monday night, Phillips didn't fan anyone, but did pitch a respectable game as the 95th Calibrators upended the Marines, 11-7.

Larry Sunday and Dave Mednick led the 95th with a homerun each, followed by Richard Lehmborg's triple and doubles by Greg Kritner and Phillips. For the Leathernecks, Eugene Giambelluca had a three-bagger, while Len Hartshorn doubled.

TUESDAY

A pitcher's duel highlighted the first of three games Tuesday night as Dave Lewis fired the 8th SC to an 3-2 victory over Meddac.

Lewis allowed only one extra-base hit during the game—a



OOPS! — MP Willie Rice nails down a run in a recent game against Company B after B's catcher mishandles a throw from the outfield.

homerun by medic Bob Lane in the third inning as the students led 2-0.

The medics tied the game in the fourth on a lead-off single by Tom Ryan, followed by Roger Crossen's run-scoring double. The 8th's winning run came in the fifth off losing pitcher Leonard Eisenfeld on basehits by Gil Johnson and Bob Anderson and a walk to Dave Weaver.

Led by Dennis Smith's homer, the 4th SC pounced on MP pitcher Frank Chrisman in the first inning for seven runs to rout the cops, 12-5.

Otis May and Norman Endicott doubled for the 4th, while Gary

Gerald had the only extra-base hit—a homer—off 4th winning hurler Frank Spurlock.

Pitcher Jim Douglas chalked up another win as Company C walloped the Marines, 17-6, in the finale Tuesday night. Dave Hayden led the C's with back-to-back homeruns in the first two innings, lifting the permanent party players to a 7-4 advantage.

Larry Schlernitzauer relieved Douglas in the fourth after the starting hurler yielded three walks and a hit and picked up the save off losing pitcher Joe Paulick of the Marines. Tom Severit paced the Leathernecks with a double.

World Of Sports

By Dave Cowan

It has been said that some of the most arresting writing in newspapers today appears on the sports pages.

And popular opinion has it that the average American male's chief interest, apart from his family and his job, is sport.

Not surprisingly, a 1974 survey by the Department of the Army rated the sports pages the most-read section of Army newspapers.

Generalizations may be the truth, but statistics don't lie. It's an even-money shot that sports is a hot item.

A stout believer in the athletic soldier was General Douglas MacArthur, who said, "On the fields of friendly strife are sown the seeds that on other fields will bear the fruits of citory."

Let's face it, some of us don't see the relation of sports to the Army effort.

Have you ever considered that bowling, golf, basketball, handball, softball—just to name a few—are viewed by the Army as combat sports. The Army believes sports contribute greatly to combat readiness through the improved mental and physical fitness and esprit de corps it brings about.

Army sports are intended to produce warriors, not athletes. But if soldiers gain pleasure—and even fame—from athletics, the Army gains.

The Army has given professional sports some of its greatest stars, like Roger Reynolds of the N.Y. Giants and Joe Wenbrowski of the New Orleans Saints. Some former athletes currently stationed at Redstone remember facing such stalwarts as Wilmer Mizell of the St. Louis Cardinals, Willie Mays of the San Francisco Giants, Terry Dischinger of the Detroit Pistons and tennis champs Stan Smith and Arthur Ashe—themselves former soldiers.

Most got their start in professional sports through stardom in Army intramural sports.

Many persons have stated that athletes are in a world of their own. Don't let the outmoded idea that athletes are crude, muscular mugs bend your thinking. Their activities are worthy of the attention of men of breeding and culture. Sportsmen generally have interesting backgrounds ripe for conversations having nothing to do with athletic abilities.

To use a few lines from Hazlitt's sentimental tribute to the athlete John Cavanaugh, "It may be said that there are things of more importance than striking a ball against a wall—there are things indeed that make more noise and do as little good, such as making war and peace, making speeches and answering them, making verses and blotting them, making money and throwing it away . . ."

The non-enthusiast is the athlete's worst enemy. An example is the attitude toward TRADOC's annual sports events, where young and old athletic-minded soldiers have an opportunity to demonstrate their combat ability in a non-combat atmosphere.

Too many times a soldier is denied the opportunity to participate because he is considered to vital to the Army's mission at the time.

However, what is more important? A delayed report or the moral and physical well-being of an athletic soldier?

Many military persons who occupy desk jobs and with several years of service feel athletic activities are no longer a part of their goal or the Army's goal.

Indeed, a false conception.

Very few soldiers like physical training, and even fewer like mandatory PT. When the annual PT test arrives many take along their crying towels.

From the President's physical fitness council all the way down to the unit commander, sports is emphasized. But look around you and count the soldiers who still are out of shape. Maybe the ones who prevent their subordinates from participating in sports are the ones who are out of shape themselves.

Putting it politely, soldiers who feel sports or physical training is not essential to the Army's mission could find themselves out of a job.

Far more dangerous, they could be on their way to becoming cancerous, heart-stricken globs of jelly.

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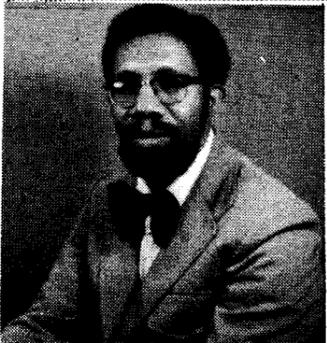
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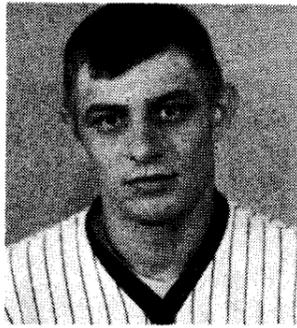
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HUTCHESON

by Dave Cowan

It's not always easy to make a sound ball club in baseball today. Coaches have to contend with good hitters whose fielding is poor, or so-so hitters who excel on defense, and with the personalities and attitudes of them all. Blending a team into a unit can turn a coach gray-haired overnight.

For a harried coach, just picturing a tobacco-chewing country boy playing baseball with a team comprised of college and former professional baseball stars might produce a few strands of gray.

Yet, Bob Hutcheson of the Missile and Munitions Center and School has blended in easily with the Huntsville Independents since signing on two weeks ago and has become a whispered favorite among the stauncher I fans.

"He's liked by everyone on the team and he has an excellent attitude," said coach Jim Talley of the Independents.

Talley's words seemed to draw a sigh of relief from Hutcheson.

"Really, it means a lot to me. It means that I've proved I'm good enough to play in this league," said the 21-year-old native of Niceville, Fla.

Hutcheson, who was swinging a big bat for the Redstone Rockets and carrying a .696 average—16 hits out of 23 trips to the plate—tried out for the Independents and immediately won the confidence of coach Talley.

What has surprised Hutcheson most is that Talley has used him in so many games.

"I've played in almost every game with the I's since I've joined them," said Hutcheson. "But presently, I seem to be in a slump and I'm not running as well as I did for Redstone."

Undoubtedly, the former protege of coach Eddie Stanky at South Alabama University, was comparing his batting average at Redstone with his current average of .357—five hits for 14 at the plate for the I's.

He led Redstone in doubles (3), triples (4), home runs (1), runs scored (12), and runs batted in (15). In the extra-base department for the I's, he so far has a double and a home run.

His home run came against his former teammates Saturday night. The hit sailed over the 340-foot mark in right field. Hutcheson also got four RBIs during the contest.

Hutcheson says his best performance so far has been against Florence. He went three for five at the plate, stole two bases, and scored four runs.

"I don't think Hutcheson will have any problems playing this type of ball," said Talley. "He's a good hitter, a hustler and a good baserunner."

"However, if he wants to play pro ball, he has got to work on his arm," Talley added.

Hutcheson will leave the Army in August and expects to continue with the Huntsville Independents.

"I expect to use him a lot," said Talley.

When you consider the caliber of ball players Talley has already—catcher Ricki Morris, a former AA ball player with the Minnesota Twins farm club and later with the Birmingham A's; first baseman Don Mincher, who has played in two World Series with the Twins and the Oakland A's; Eddie Echols of the White Sox organization; Steve Spitz, an LSU All-American; Robin Carey, an All-American from Alabama; Kenny McKinney, Mark Mincher, Don Rhoten and Ron McNeeley from Memphis State; and Ricki McCoy and Sonny Mosely of Jacksonville State—the prediction has got to be a boost for Hutcheson's fledgling baseball career.

Talley's bulging lineup of stars will have their first test soon in the state baseball tournament in Huntsville July 11.

He will have five pitchers available—Danny Parks, fourth in the nation last year with Memphis State; Jimmy Archibold of Alabama; Perry Chapels of Atlanta's AA farm club; Al Wafford of Auburn; and Dale Hardman.

According to Talley, if the Independents win the state tourney, they will go to Lenoir, N.C., for the regionals, with the winner and runnerup traveling to Wichita, Kan., for the nationals.

Rivals Maintain Pace

The Golf Detail and Developers split their matches last week to keep first and second place in the MMCS Golf League, stretching their margin over the other contenders.

The Slickers' grip on third has become more precarious — they lead the Parakeets by a point. The Parakeets, meanwhile, edged out the Fogies to gain possession of fourth by only two points.

The Jets and Marines, taking 11 and 12 points respectively, surged upward in the standings to threaten the berth the Fogies hold.

This week's position round is bound to shuffle the rankings.

Tom Perry of the Loggers carded the only birdie last week. He hoisted a five-iron shot to the green on the high side of hole 5 and sank the remaining four-foot putt with a break to the left. Perry went on to win his match despite a later double bogey.

Jim Liner of the Caotics and John Davis of the Golf Detail carded net 30's for low score honors last week. Henry Lowder, also of Golf Detail, pulled down a 31, and George Murray of the Slickers scored a 32.



MRS. JOHN BARKLEY, ELAINE TINGLE

Skemp Captures Medaris Trophy

Sonja Skemp was the first place winner in the Gina Medaris Tournament held recently by the Officers Wives Golf Group. Awards were presented by Mrs. John A. Barclay at a luncheon in the Officers Open Mess.

Marian Deppensmith came in second for 18 holes of play with Nancy McDonald in third and Grace Stubbs placing fourth.

Fifth place winner was Judi Dwyer with Florence Tier in sixth. Millie Moore and Billie Shuput tied for the seventh spot.

Elaine Tingle captured the top slot in the championship flight for

the nine-holers. Second place went to Katie Messenger with Ann Fleischman taking the consolation award.

Kathy Busck led the first flight, trailed closely by Norma Worley in second place. Consolation winner was Cam Dunn.

Diane Todd capped the second flight with Martha Fuller in the number two space and Sandra McNamara, consolation winner.

In last week's playday, Phyl Ellis, Imogene Lang and Bev Payne made up the first place team in the nine-hole scramble.

Dickerson In Team Handball Tourney

The Army handball team, led by Willie Bourda—who starred with the U.S. handball team in the 1972 Olympic games in Munich—lost its bid for the National Team Handball Championships at Ohio State University's gym in Columbus, Ohio, recently.

The Army defeated four of the top regional teams in the nation and gained one tie, but lost twice to the Chicago YMCS club and finished second in the tourney.

Army victories were scored over Ohio State University, 16-14; UCLA, 14-12; Sports Club of New Jersey, 15-14; and East Ridge, Tenn., 11-7. Their only tie was at the hands of Willamette University, Salem, Ore., at 10-10.

A member of the Army's team handball squad was Charles Dickerson, a native of Talladega and a member of the 291st MP Company at Redstone Arsenal.

The 23-year-old military policeman was one of about 30 soldiers throughout the Army who went through three weeks of vigorous training in team handball at the All-Army handball camp at Indiantown Gap Military Reservation, Annville, Pa., in preparation for the championship games.

Dickerson, who played for the MP handball team in the pot intramural handball league earlier this year, was selected one of the top defensive players in the tournament.

He had a chance to participate in the Pan American Games Trials this month, but declined because of commitments at Redstone.

Army Takes Parachuting Championships

Staff Sergeant Chuck Collingwood and Sergeant Jack Brake combined to lift the Army's Golden Knights over crack military teams from nine countries to capture the Inter-military Parachuting championships at Shaffen, Belgium, recently.

Collingwood, who won the overall individual title, made six consecutive perfect dead-center landings on a dinner plate-sized

target from an altitude of 10,000 feet.

Defending U.S. champion Brake finished second in the competition as 50,000 spectators turned out on the final day to watch the military parachutists perform.

All four members of the Army team were among the top ten individual finishers, which enabled the Knights to win both the overall and team accuracy titles.

Softball Make-up Schedule

| DATE | TIME | FIELD | HOME/VISITOR |
|---------|-----------|-------|---------------------------|
| July 10 | 6:00 p.m. | No. 8 | Marines vs 291st MPs |
| July 10 | 7:30 p.m. | No. 8 | Company C vs 7th SC |
| July 11 | 6:00 p.m. | No. 1 | 8th SC vs Company A |
| July 11 | 6:00 p.m. | No. 8 | 4th SC vs MICOM |
| July 11 | 7:30 p.m. | No. 1 | 6th SC vs 291st MPs |
| July 11 | 7:30 p.m. | No. 8 | 7th SC vs Company B |
| July 11 | 9:00 p.m. | No. 1 | Meddacc vs Marines |
| July 16 | 6:00 p.m. | No. 8 | 8th SC vs 4th SC |
| July 16 | 7:30 p.m. | No. 8 | Company A vs 6th SC |
| July 18 | 6:00 p.m. | No. 1 | 291st MPs vs Company A |
| July 18 | 7:30 p.m. | No. 1 | Company C vs MICOM |
| July 18 | 9:00 p.m. | No. 1 | 8th SC vs 7th SC |
| July 21 | 6:00 p.m. | No. 8 | Company B vs Company A |
| July 21 | 7:30 p.m. | No. 8 | MICOM vs 95th Calibration |

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| | Standings Eastern | | |
|-----------|-------------------|---|-------|
| | W | L | GB |
| Company D | 6 | 2 | |
| 4th SC | 6 | 3 | 1/2 |
| 8th SC | 5 | 3 | 1 |
| Company A | 3 | 3 | 2 |
| 6th SC | 2 | 7 | 4 1/2 |
| Meddacc | 2 | 8 | 5 |
| Western | | | |
| MICOM | 7 | 0 | |
| 7th SC | 4 | 3 | 3 |
| 291st MPs | 4 | 4 | 3 1/2 |
| 95th Cal. | 4 | 5 | 4 |
| Company B | 3 | 5 | 4 1/2 |
| Marines | 3 | 6 | 5 |

CWF Slo-Pitch Season Nearing End

Both MISD and Materiel Management were three time winners in recent CWF slo-pitch games as the league season began to wind down to another championship for the former and another frustrating runner-up finish for the latter.

Each of the contenders have four more outings in the regular season with MISD holding onto an apparently safe two game lead. R&D and the Satellites are in a third place deadlock, four more lengths to the rear.

The front runners had to go eight innings before subduing a Finance and Accounting threat, 16-14, but had an easier time in getting by the Satellites, 14-6, with a forfeit win from the Chargers sandwiched between.

Materiel Management had all they could handle before edging past R&D, 5-4, manhandled T&E, 21-0, and outscored the Comptrollers, 7-2.

R&D picked up a trio of wins to go along with their narrow setback at the hands of MM including a 10-8 decision over the Satellites. The other two victories, both by a 15-4 count, were scored at the expense of the Accountants and the Chargers.



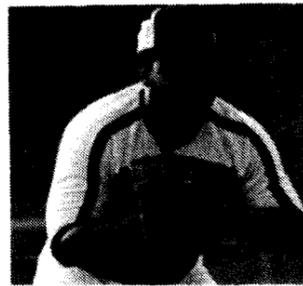
RUSS WARD

T&E got into the win column, 7-6 over the Accountants who rapped the Comptrollers, 18-4, who completed a cycle in a 15-4 conquest of T&E. The Satellites picked up a couple of easy wins when the Chargers and T&E failed to field teams for their scheduled games.

The Accountants came within two outs of springing a major upset over MISD holding onto a 10-7 lead one out into the final stanza. But Danny Smith gave his mates a life with three-run homer that sent the game into overtime.

Bill Cannon homered to spark a four-run eighth inning surge by F&A but once more the vaunted long ball threat of the leaders came into play with Buddy Lewis and Bruce Coker each hammering a four-baser amid a six-run winning rally.

Theotis Horn and Coker each produced four hits for the winners with Cannon, Hal Jacobs



T. HORN

and Herb Wagenheim doing the same for F&A.

Elliott Agee and John Roberts provided the home run power that enabled Coker to hurl his mates past the Satellites and Mel Waters. Charles Lovejoy homered in the losing cause.

A four-run burst in the fifth enabled Materiel Management to get past R&D as Lindon Calvert outpitched Ray Whiddon.

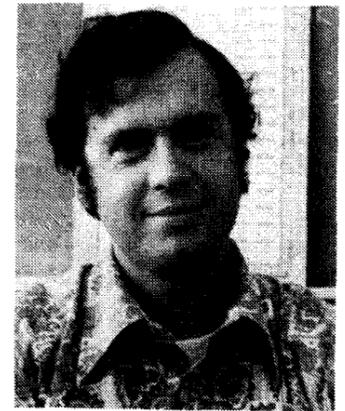
Dave Bryant went four for four and drove in the winning run for the winners while Wayne Dahlke tripled and singled for R&D.

Buddy Fees and Paige Stagner collected three hits apiece and Jerry Williams drove in five runs

as Calvert blanked T&E while Bryants and Jay Allen divided hitting homers with a pair of safeties in the win over the Comptrollers.

R&D scored four times in the opening stanza and then had to stave off a late Satellite rally to earn a share of third place. Wayne Ingram and Mike Fahey each went four for four as Ray Whiddon got the win over Bill Hart.

Five first inning runs and seven more in the third propel-



DEAN REESE

led R&D past the Accountants with Dean Reese delivering the only homer and Whiddon picking up the win.

Reese came back with four straight hits as R&E built up a 10-0 third inning margin and coasted home against the Chargers.

An eight-run third inning enabled the Comptrollers to whip T&E. Bob Peagler and Marv Martin hit safely twice apiece for the winners with Martin getting the win over Tom Howell.

Howell was the recipient of a sixrun outburst by his T&E mates that provided a 7-6 win over the Accountants. Ron Leedle and Bob Eastwood had two hits apiece for the winners and Ray Lentz drove home the winning run.



JERRY WILLIAMS

Rockets Fall To Huntsville Independents

The left-handed magician pulled one rabbit out of the hat, but when he went for two, the Huntsville Independent's sound defense pulled the props from beneath him.

That was the embarrassing fate of Tim Kraft and the Redstone Rockets at the I's routed the Arsenal ball club 15-0, behind the brilliant two-hit pitching of fellow lefty Al Wafford in a semi-pro baseball game last Saturday night at Huntsville Park.

Kraft deserved better staging. The young hurler with his gifted left arm attempted to lift his team over the I's, who were sporting a 4-0 record and are probably the best semi-pro club in Northern Alabama.

"He made a valiant try," said Redstone coach Bill Gore, "but the most talented pitcher in the world can't win without some semblance of a defense."

Going into the contest with a 8-4 slate, the Rockets committed nine errors, two pass balls, while Kraft and relief pitcher Mike Spry yielded 13 walks—leading to 12 unearned runs for the Independents.

Wafford, a red-shirted player from Auburn, more closely

resembled a magician in a near perfect performance for the I's. His hat contained an assortment of tricks that worked nearly every time in a two-hit shtout in which he fanned 12 batters.

The I's jumped off to a 3-0 lead in the second inning over Redstone on four errors, two pass balls, a wild pitch and two base hits by Mark Mincher and Don Houghestyn. The Independents added another run in the fourth and then six unearned runs in the sixth.

Kraft, who was coasting along on a three-hitter, was a victim of errors again in the sixth. With two outs and Houghestyn on first, Tom Pnewski dropped a routine fly off Steve Sears in left. Instead of three outs, the fireworks began. Danny

Parks ripped a double, Kenny McKenny, Ricki Morris and Sonny Mosley walked, while Mincher collected his second hit of the game.

The I's added two more runs in the seventh and three in the eighth inning; capped by Bob Hutcheson's two-run homer over the 340-foot mark in right field. Hutcheson led the I's with four RBIs, followed by Mincher's three.

"Wafford was super," said I's coach Jim Talley. "Of course, he had a good cast, but he used them well."

The win was a big morale booster for the Independents, who will make a bid for the state title in the Alabama Baseball Tournament here July 11.

Army Athletes Capture Track Meet

Army athletes took every field event except one and half the track events in capturing their ninth straight interservice track and field crown in championships recently at Oakland, Calif.

In taking the tournament, the Army defeated the Marine Corps Air Force and the Navy. The Army doubled its score over the second-

place Marines—gaining a measure of revenge for their narrow three-point win over an upset-minded Leatherneck crew last year.

Sprinter Louis Wilson, triple jump artist Rayfield Dupree and distance runner Jerry Garcia set interservice records in aiding the Army cause. In all, six interservice

records fell to a field well-stocked with world-class athletes.

First Lieutenant Chris Wanzer would have been a good candidate for the field, according to Ralph Santaliz of Special Services here. Recently assigned to Korea, the former Redstone Arsenal athlete holds the Alabama state record in the 880-meter sprint.

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| Nell Wallace | 25 mpg. Pinto MPG |
| Bruce Spencer | 28 mpg. Pinto MPG |
| John Curley | 23 mpg. Mustang II MPG |
| Don Ball | 30 mpg. Pinto MPG |
| Michael Beasley | 41 mpg. Mustang II MPG |
| Ronald Matthews | 35 mpg. Pinto MPG |
| Jeff Turner | 35 mpg. Pinto MPG |
| Dave Woods | 35 mpg. Pinto MPG |
| Noble Johnson | 36 mpg. Pinto MPG |



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DAVID drove the Mustang II MPG
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Official test results certified by the U.S. Government Environmental Protection Agency, which rates all cars using a common dynamometer testing procedure. Competitive fuel economy results based on EPA Buyer's Guide. Mileage may vary depending on your driving habits. City mileage 23 mpg.

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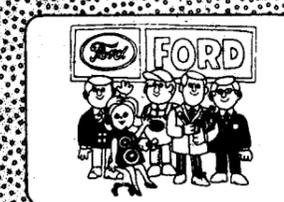
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Fifteen Get Awards

Twelve Missile Command employees have received 30-year service awards.

They are John I. Parker, Paul Bradford and William H. Mefford of RASA; Eugene J. Jacobus of Dragon; Edward W. Summers of Comptroller; Sara W. Jones of P&P; Calvin B. Behr, Charles E. Biggs and Jack Miller of MRDEL; and Clay W. Hayes, David D. Scott and Fred A. Stolz of Maintenance.

Three employees have received certificates for saving 2000 hours of sick leave. They are Edwin G. Goss of P&P; and James T. Hereford and Wannie T. McPeters of RASA.



Barker



Bradford



Mefford



Jacobus



Summers



Jones



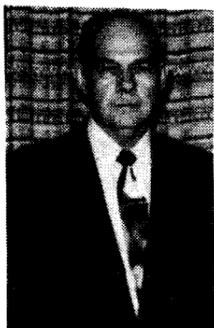
Behr



Biggs



Miller



Hayes



Scott



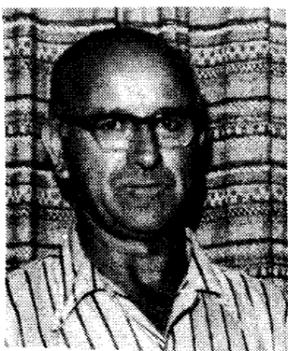
Stolz



Goss



Hereford



McPeters

Small Business Symposium

A small business symposium will be conducted at the Rocket Auditorium, tomorrow. It is open to representatives of businesses which expect to contract with the Army.

The symposium subject will be primarily governmental contracting procedures, especially those procedures that will assist firms which intend to contract with the Missile Command. Pri-

marily, the conference is directed to manufacturers.

A pre-registration will be held at the Carriage Inn this afternoon from 5 to 11. Additional information can be obtained by calling the Small Business Office, 876-5441.

Beginning at 8:45, the symposium will feature speakers throughout the morning. The afternoon session, scheduled to end at 4 will be a panel presentation

Carroll Named To ALC Post

Ft. Lee, Va. — Colonel James H. Carroll Jr. became Chief of Staff for the Army Logistics Center on July 1, after completing a five-year tour as a program manager at Ft. Monroe.

Although he is an infantryman by branch and trade, Carroll has had staff positions at major commands overseas and at the Pentagon.

DIAL 112 FOR REDSTONE NEWS

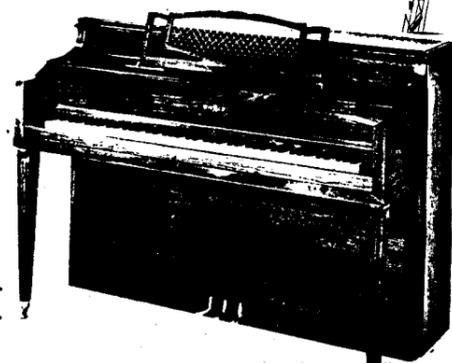


HEART OF HUNTSVILLE MALL

PIANO & ORGAN STOCK REDUCTION SALE

OUR NEW fall merchandise will be arriving shortly and these pianos and organs must be moved out. All are famous name-brands and they are some of the finest built keyboard instruments in the world. They are not cheap pianos & organs with poor quality construction which are repeatedly advertised to the public. This sale will be for a LIMITED TIME ONLY. Come in and select the style you want. If you have been thinking about a new piano or organ this fall, buy it NOW and SAVE! SAVE! SAVE!

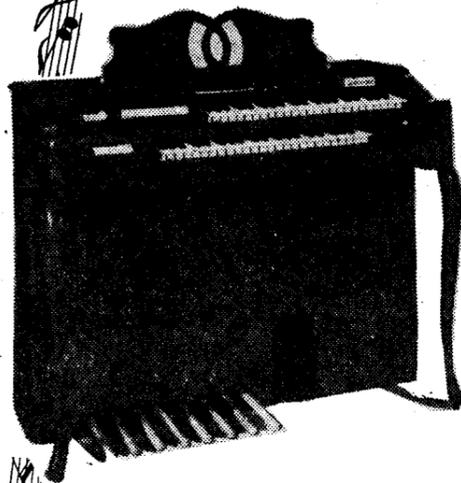
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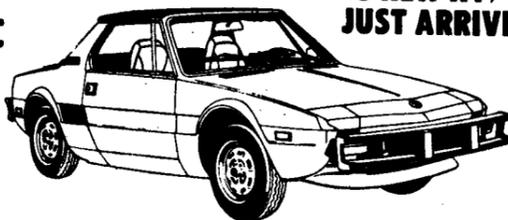
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Pre-fourth Fireworks

Around quitting time last Wednesday Redstone workers got a fireworks extravaganza two days before the Fourth.

People lingered nervously at building entrances watching jagged flashes part the rainscape. An occasional bolt touched down with a huge frying sound, causing no damage apparently, but giving the utilities people and two companies of Redstone firefighters a workout.

Lightning struck not twice but at least four times in areas just north and south of Mills Road. The first alarm was at 4:20. A bolt hit McMorrow Laboratories, triggering automatically an alarm at the main fire station. There was no damage. Then a few minutes later another

bolt hit nearby, shorting out a transformer which smoked for a time but didn't catch fire.

There was an alarm from bldg. 5673 — which houses communication activities — where a bolt had run in on an air conditioner and caused a strong burning odor, but nothing more.

The utilities people reported a couple of power lines cut by lightning on the south end of the arsenal, but said that severed lines and blown insulators were normal occurrences in electrical storms.

Another alarm came in at 4:46. Lightning hit bldg. 5681 causing sparks to fly from light fixtures, according to one report. Power was off there briefly, as it was in numerous other areas during the storm.



MEDAL—Colonel Harold R. Golden was awarded the Legion of Merit, second oak leaf cluster, on retiring from the Army at the end of last month. Golden was Micom Comptroller.

Exhaustion Can Be Avoided

Summer activities may raise the frequency of a dangerous condition—heat exhaustion. As heat injuries can be prevented, supervisors and employees should be aware of the actions to avoid.

Severe cases of heat injuries are disabling and may be fatal. Most susceptible, are personnel subjected to extensive physical exertion but who have not adapted to the hot climate.

Basic trainees, personnel within a week of transfer from cool areas or those who are overweight or out of good physical condition, are prime candidates for exhaustion.

Recent illness, injury and re-

actions to immunizations are conditions known to contribute to heat injury.

Adequate water and salt intake is a preventative measure during periods of excessive heat stress. Resistance to heat injury is increased by replenishing water and salt losses from the body as they occur.

Personnel should be encouraged to drink more water and more frequently than is necessary to quench thirst, especially during periods of acclimatization.

An increased salt requirement is best met by using more salt on foods at mealtime. Under most circumstances, salt tablets are not required.

LEE BLEVINS
Manager




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| <p style="text-align: center; font-weight: bold; margin: 0;">DIAMONDS</p> <p style="margin: 0;">Ladies' Solitaires Gents' Diamonds Dinner Rings Wedding Rings Bridal Sets Diamond Earrings Pendants</p> | <p style="text-align: center; font-weight: bold; margin: 0;">WATCHES</p> <p style="margin: 0;">Quality Name Brands All Styles & Prices Solid Gold Watches Diamond Watches Chronographs Alarm Watches Diver Watches Automatics Nurses Watches Work Watches And Many More</p> | <p style="text-align: center; font-weight: bold; margin: 0;">JEWELRY</p> <p style="margin: 0;">Pendants Locketts ID Bracelets Charms Pierced Earrings Watch Bands Cultured Pearls</p> |
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New 3 bedroom brick home on one acre of land. Fully carpeted. Self-cleaning oven. Located near Grant, Ala., \$22,000. 728-4865. 7-9-C

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WILL SELL whole or in tracts, 179 acres in Southwest Lincoln County, Tenn. 4 bedroom, two bath, 10 room, 2-story home, 2 barns, 3 outbuildings. Watered by springs and creek. (615) 732-4356 evenings and weekends. 7-16p

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THE WORD is Charming from the minute you drive up you will be impressed by the charm of this white brick Cape Cod, features 4 bedrooms, 2 full baths, living & dining combo, den, kitchen with all built-ins, double garage, payments \$167.25. Mary Davis, nights 859-2611 Wiggins Realty, 81-6284. ITC

JONES VALLEY, by owner — ¾ acre, 4 bedroom, 2 bath rancher, 2190 sq. feet, plus 2-car carport. Walk to Randolph, Jones Valley schools and swimming pools. Equity or refinance, 881-9522.

Cold Water Boating Has Added Hazard

Early season devotees of fishing and boating are cautioned by the American Red Cross that lakes, rivers and streams are still cold and dangerous in many parts of the country, though the weather is warming.

"Many early season drownings can be attributed to the numbing effect cold water has on the body and limbs. Even expert swimmers can drown if the chilling waters immobilize arms and legs and prevent swimming or otherwise getting out of the water."

"If you should suddenly find yourself in cold water from a fall or capsizing, do not try to remove your clothing," Mr. Mongeon cautioned. "Although rapid wetting decreases the insulating properties of clothing, it will help retard some loss of body heat by reducing the flow of water over your body. Clothing also can trap and hold air which will add to your natural buoyancy."

The Red Cross recommends

that boatmen and fishermen wear two or three suits of thermal underwear and other suitable clothing in cooler weather. Wet suits worn by scuba divers are also protective against cold water. Personal flotation devices are a "must" even for good swimmers.

When recovering from a fall into cold water, all swimming movements of arms and legs should be made slowly and under water.

The Red Cross normally advises staying with a capsized boat until help comes or the boat can be pushed to shore. But in excessively cold or dangerous water, an immediate attempt should be made to swim to safety.

In rapids or strong current, swim with, or at right angles to the water flow to the nearest landing. Attempt to stay on your back, feet first, using the feet to fend off rocks and obstructions. With the current providing propulsion, use arms and legs for directional control.

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ITEM: According to dynamometer tests published in the E.P.A. Buyers Guide, three of the top American-built cars in fuel economy are Buicks.

Yes, Buicks.

Admit it now. You never really thought of Buick as an economy car. But the pleasant fact is that three V-6 powered 1975 Buicks scored very impressively in dynamometer tests recently published by the Environmental Protection Agency. Here are the results:

Table with 3 columns: Car Model, City mpg, Highway mpg. Rows include Buick Skyhawk, Buick Skylark/Apollo, and Buick Century.

Of course, the mileage you get depends on how and where you drive. Nevertheless, you'll find these results significant.

Our V-6 Skyhawk and Skylark both turned in commendable performances.

The mid-size Century gave better highway mileage than any other US-built mid-size car tested. Plus, it ranked among the leaders in city driving.

And V-6 powered Buicks claimed top fuel economy honors at the 1975 Union 76 Fuel Economy Tests. Buick Skyhawk, Buick Skylark and Buick Century each turned in the best overall fuel economy in their respective classes.

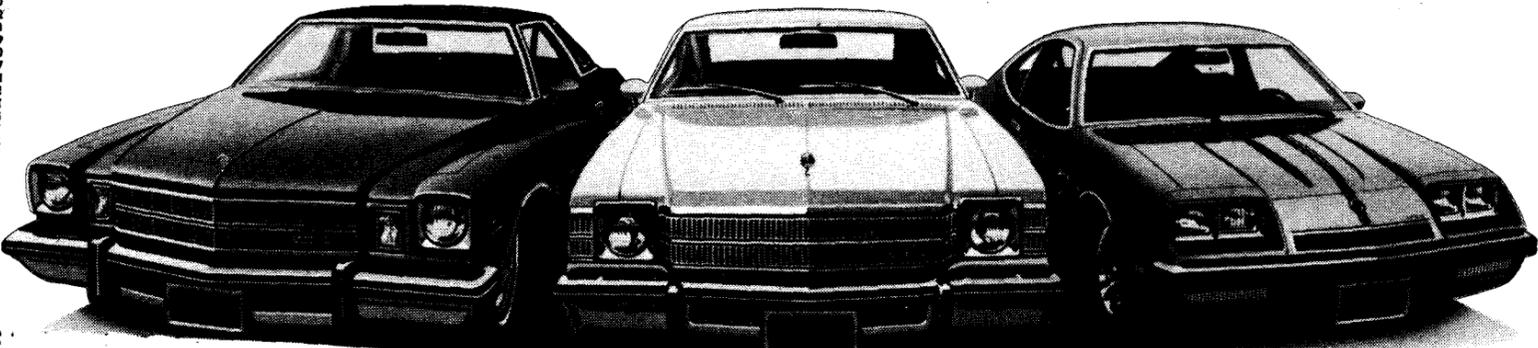
Each of these automobiles was equipped with Buick's new V-6 engine. Not a straight six. A Vee-six. The cylinders are arranged in a "vee" instead of a straight

line. Which means it has many of the design efficiencies of a V-8. It results in a shorter, more compact power plant. A power plant that is lighter and more powerful than Buick's conventional six.

And to further add to the V-6's inherent efficiency of design is Buick's Maximum Mileage System, which represents the most advanced engineering and technology Buick can offer for 1975. It consists of three basic parts. A catalytic converter. High-Energy Ignition. And GM specification steel-belted, radial-ply tires.

The catalytic converter cleans the exhaust after it leaves the engine, so the V-6 can be tuned for lower idling speeds, quicker warm-up and smoother overall operation. High-Energy Ignition fires spark plugs electronically for more efficient fuel usage, and it helps increase spark plug life—up to 22,500 miles. No points or ignition condenser to change helps cut maintenance costs. And GM specification steel-belted, radial-ply tires make for lower rolling resistance.

Best of all, these cars are Buicks. Which means traditionally high marks for comfort, convenience and performance. All that, plus fuel economy, makes for a mighty attractive package. And each is priced for your pocket-book. See your local Buick dealer for all the facts.



Vertical column of small text on the left margin, likely a stock market or financial index.

Vertical column of small text on the right margin, likely a stock market or financial index.