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## Built-In Bikeways Make Work Fun

The bicycle fleet at the old Rohm and Haas area has grown since Army cars and trucks and gas for them has gotten harder to get.

As someone discovered long ago, that area — which now houses the Propulsion Directorate's Motor and Power Branch — seems almost to have been laid out with bicycle transportation in mind.

Individuals own six of the nine bicycles in the fleet. The other three belong to the Army.

The Army bicycles are old, how old no one is sure, nor is anyone sure whence they came. About all that is known is that they're there and useful, perhaps even trendy, given the present kick for things practical and things nostalgic.

The only record of them is in the property book which has an entry in that curious noun-to-adjective sequence used in property books which reads about like this:

Three (3) each, Bicycle, Man's, 26-inch wheel. . . .

They just may be about as old as Redstone Arsenal itself. They've been around as long as anyone can remember. John Tate — who is Motor and Power Branch Chief and who several times daily rides a more modern bicycle of his own from his office to outlying shops — says he "suspects" the Army bicycles have "been around since the 40s". They look it.

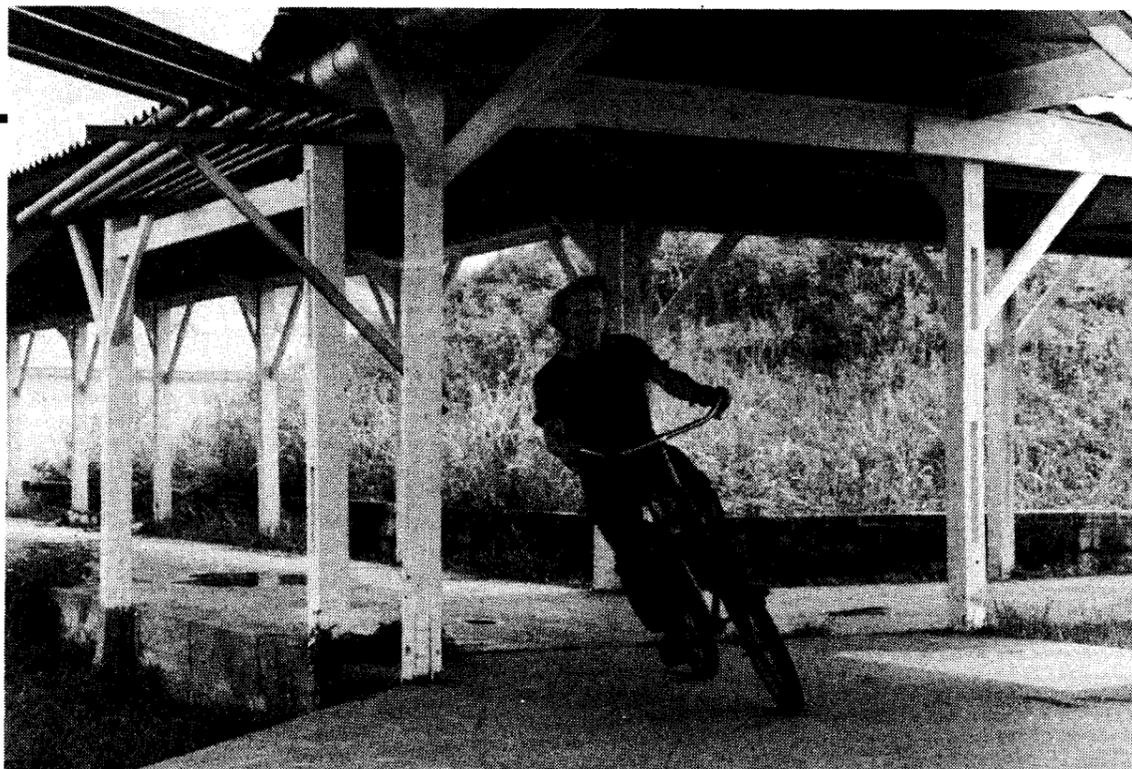
They're painted, appropriately, Army green. Layer on layer of

chipped paint all but obscure the quaintly ornate Schwinn emblems below the handlebars. The old-timy seats are mounted on protruding springs that look kind of like upside-down light bulbs.

While Redstone has no bicycle repair shop, maintenance on the old bicycles is not a problem since they seldom give trouble. If something does go wrong there's an unwritten rule that whoever's riding it at the time has to fix it.

The individually-owned bicycles include one modish job with high rise bars and a banana seat.

The old Rohm and Haas area where the bicycles operate consists of a dozen or so aging one-story  
(Continued on page 9)



**SCHWINNER**—Dan Powell speeds an old Army Schwinn bicycle through an intersection of the covered "bikeways" that interconnect buildings in the old Rohm and Haas area. Powell is an engineer's aide at Propulsion Directorate's Motor and Power Branch where bicycles, including three old Army Schwinn's that are thought to date from the 1940s, are used for getting around.

## Alternatives To The Automobile

Gasoline rationing and vehicle utilization criteria have combined to make Redstone organizations turn in military vehicles and go looking for alternative forms of transportation.

A few organizations have found suitable alternatives in electric vehicles and bicycles.

At least three organizations are using little electric "trucks" for jobs that formerly were done in pickup trucks, while one — which has activities spread among about 10 buildings that are reasonably close together — has found that in many instances bicycles are every bit as good as cars and trucks for getting around on the job.

Some who've gone to electric vehicles say they did so out of necessity. As one person put it, "They cut down on the gas we could have, but we still had the same job to do."

Others said that what with the energy situation, they could no longer in good conscience make those marginally-necessary trips sometimes needed to meet the mileage requirements of vehicle utilization criteria.

## The Car Of The Future?

It has an engine that goes Um-m-m-m and a list of appointments that reads rather like that of an exotic sports import:

Fiberglass body, convertible top with side curtains, wide-track tires, disc brakes, three-speed automatic transmission, tinted windshield. . .

But far from being a sports car, it has pretensions to being a pickup truck in that it has a cargo bed and sideboards.

From the standpoint of looks and performance it more nearly resembles a golf cart, and that is probably what it's more akin to than anything.

The manufacturer calls it an "electric car for industry".

Whatever it is, MICOM's missile prototype people like it. "It's the handiest thing we've had around

here in a while", says Loyd Woodham of Guidance and Control Directorate's Prototype Development Branch, which has two of the diminutive electric vehicles. Woodham's group use them for runs to various shops and warehouses within about a mile radius of their work area in McMorrow Laboratories.

They were bought last fall after, as Woodham puts it, "They cut down on the gas we could have but we still had the same job to do." That job involves trips several trips daily to a nearby warehouse where chemicals are kept under special conditions, and also to a model shop where prototypes are built.

The little electric vehicles were bought to make the trips which had been being made in pickup trucks.

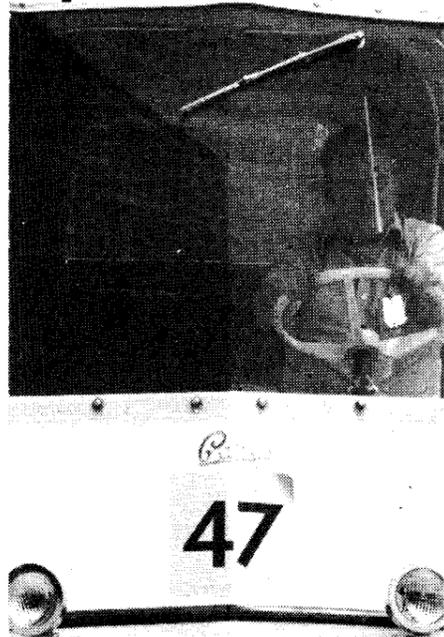
The Um-m-m-ming electric engine is a six battery, 36 volt job that powers the little vehicle along at 12 miles per hour. It has three speeds forward and three reverse and shifts automatically as switches on the accelerator pedal take out resistance.

Batteries are charged every two or three days. The vehicles get driven about 100 miles a month, Woodham said, and have carried 500 pound loads.

"They fill the bill real nice for what we bought them for," Woodham says.

That sentiment is pretty well shared by others at MICOM who've had experience with electric "trucks"

Two flat-bed models have been  
(Continued on page 9)



# Judges Order Voting Change For Military Wives

A three judge federal panel has ordered the Madison County Board of Registrars to act on applications by the wives of military personnel to register and vote without regard to their husband's place of residence.

The order issued July 15 by the U.S. District Court for the Northern District of Alabama resulted from a consent judgement in a suit against the board by the wife of an

Army officer stationed at Redstone Arsenal.

Mrs. Elizabeth Ann Wunsch, a Johnson High School teacher and wife of 1st Lt. Paul K. Wunsch, sued the board in April 1974 when she was refused registration because her husband was a resident of Minnesota.

In its order, the court said: "Each application by a female to register to vote with the Madison

County Board of Registrars will stand on its own merits without regard to the place of registration

of the husband or the eligibility of the husband to register; the board will request no information from females that it does not request from males."

The judges also ordered that wives and dependents of military personnel may not be required to provide information different from

that requested of non-military personnel.

Madison County registrars in the past had refused to register wives of military personnel when the husbands did not claim Madison

County as their legal residence. They based their stand on a ruling of the Alabama Supreme Court which held that a wife's residence

follows that of her husband for voting purposes. That provision

has been determined invalid by the ruling in the Wuench suit.

The ruling by the federal judges says specifically; "The Board of Registrars of Madison County will cease utilizing the irrefutable presumption that a wife's residence is that of her husband."

The federal judges also instructed the local board to stop using the so-called "military form" to register soldiers' wives. The document required the signature of the husband.

## Nuclear Weapons Technicians Graduate Can't Argue Numbers; Class Leader Ranks Last

"When we argue, they say they outrank me," says Chief Warrant Officer (4) Malcolm M. Bryant, who served as class leader of the Army's first nuclear weapons technician class at the Missile and Munitions Center and School.

"The class has three WO 1's and a CW 2, and that adds up to a CW 5, so together they outrank me," Bryant said.

The four junior warrant officers rarely saw reason to invoke their collective rank, however. Bryant was a benevolent leader and, as might be expected in a class of five men together for 19 weeks, most disputes were good-natured and were resolved diplomatically.

Bryant, Warrant Officer (1) Carol H. Jones, Chief Warrant Officer (2) Johnnie L. Walters, Warrant Officer (1) Jackie L. Knowles, and Warrant Officer (1) James B. Moeller graduate July 25.

Their military occupational specialty (MOS) will be 260A, a combination of the 261A special ammunition maintenance technician and the 262A nuclear

weapons electronics technician specialties.

The new MOS is the product of moves by Army educators to come up with a training program to turn out warrant officers cross-trained in nuclear electronics and maintenance. The missile school first suggested the idea in 1971. The Department of the Army approved it a year later.

When fully enacted, the program will eliminate the need for one electronics man and one maintenance man in the same nuclear weapons unit. A single man trained to do both jobs will be the rule.

Though the five warrants are the first school-trained 260A's to appear on the scene, the MOS has been around for a couple of years.

Warrant officers trained in 261A and 262A are being administratively converted to the new 260A. Those who lack some portion of training in either of the old MOS's receive it and then are tagged as nuclear weapons technicians.

All five graduates of the missile school's initial 260A course were

previously classed in the 261A MOS as special ammunition maintenance technicians.

After graduation, three of the warrants are bound for overseas assignments. Bryant and Knowles

will be stationed in the U.S.

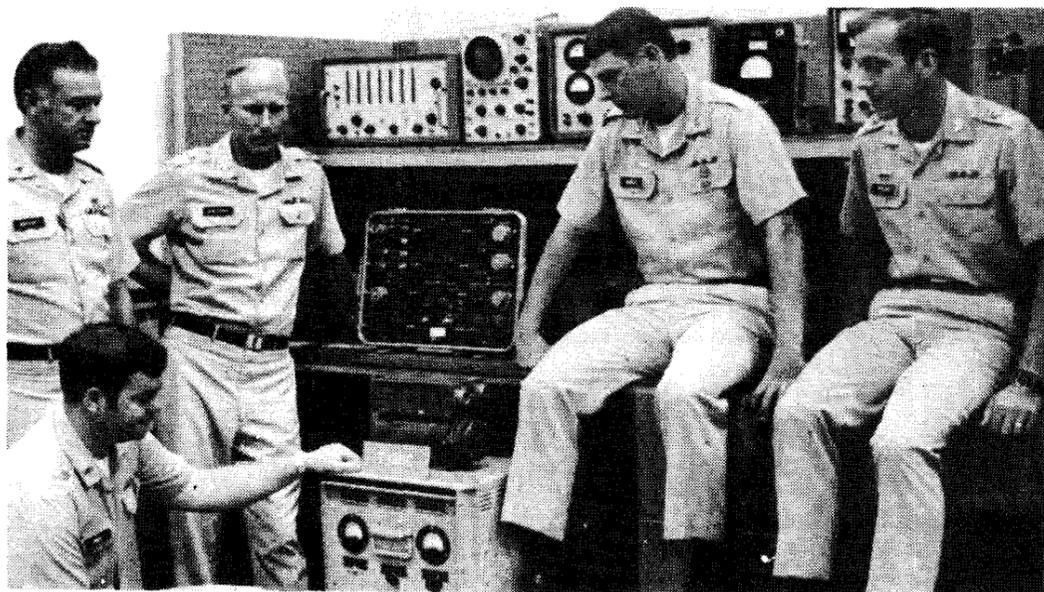
At 45, Bryant was not only the highest ranking man among them

but also the oldest. Next in line was Walters, 34. The youngest was 23.

Talking about Bryant, Walters

remembered, "Whenever somebody would ask him how he was getting along, he's always say, 'These guys sure corrupted me.'"

Judging from Bryant's smile on hearing Walters tell it, corruption was at worst bittersweet.



DOUBLE DUTY—Trained for double duty in nuclear electronics and maintenance, these warrant officers leave the Missile and Munitions Center and School this week as the Army's first nuclear weapons technicians. They are, from left, Warrant Officer (1) Carol H. Jones, Chief Warrant Officer (4) Malcolm M. Bryant, Chief Warrant Officer (2) Johnnie L. Walters, Warrant Officer (1) Jackie L. Knowles, and Warrant Officer (1) James B. Moeller.

## The Rocket

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# New System To Hold Down Commissary Prices

(Washington, D.C.) — A changeover to a new system of centralized management for Army commissaries that should save millions of dollars in operating costs is expected to be completed by Oct. 1, 1976.

That date coincides with the date Dod has set for commissaries to become basically self-supporting.

The expected savings under the new centralized management system will be used to hold down commissary prices, according to DA.

Current planning envisions a central management agency con-

trolling all Army commissaries, with five regional offices to operate and control stores within their geographic areas, DA said.

The plan, if approved, calls for the changeover to the new system to begin Jan. 1, 1976 when a northeast U.S. field office opens, with the changeover completed by October 1.

Commissaries presently operate under major and installation commanders with DA policy guidance, and depend on appropriated funds to help pay some operating costs, salaries and overseas utilities.

"Customer savings expected when the new system is operating should still average about 15 per cent if Congress requires personnel and overseas operating costs to be reimbursed," DA said.

Part of the new system's success depends on whether customers realize they are saving by shopping at commissaries and continue to support the stores, according to DA. "If customers decide that the estimated 15 per cent savings are not significant and instead shop at commercial stores", said DA, "then commis-

sary prices will rise and customer savings will decrease."

The Army's plan grew out of a DoD directive for the Army and Air Force to centralize commissary management.

A DoD panel recently studied commissary operation and considered the following ways to handle the commissary funding problem:

- Stay with the present system
- Adopt a centralized separate system
- Merge the services' commissary systems with their exchange systems
- Joint-service commissary system

—Government owned, contractor operated system

DA said the panel recommended that each service except the Marine Corps operate its own centralized commissary system "since this has the least effect on customer and commissary personnel."

"The Defense panel also recommended seeking legislative changes to allow variable privacy, hiring of part-time employees, investment of surcharges and adjusted funds and exclusion of commissary employees from the Army's year-end strength allowances", DA said.

## S & E Awards

William D. Hyman and Lawaha Parrish were recently presented with the Missile Command Scientific and Engineering Award for 1975. Both men are employed in the Advanced Sensors Directorate.

Major General Vincent H. Ellis, MICOM Commander, made the presentations.

The awards were given for a series of infrared test programs which resulted in the establishment of a broad technology base influencing the Army's research, development and engineering programs.



HYMAN



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## \$3 Million To Local Firms

Annual renewal of contracts for services and seasonal maintenance projects boosted MICOM awards to Huntsville based firms to more than \$3 million during June. Companies in other areas, mostly in the vicinity of Redstone, received approximately \$600,000 worth of orders. Many of these awards go to small businesses.

Business machine rental and equipment maintenance are among items covered by annual contracts.

Other awards during the past month were for a variety of office and laboratory supplies in support of missile programs.

Contracts for missile systems and related equipment totaled \$63.9 million.

MICOM's Procurement and Production Directorate executes the contracts and awards.

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# SAM-D Passes Test

The Army's new SAM-D missile tackled its toughest target thus far in the proof-of-principle flight test program by hitting a Firebee drone attempting an evasive maneuver during a test Friday at White Sands Missile Range, N.M.

SAM-D, being developed by the Army for defense against sophisticated aircraft of the 1980s and beyond, struck the jet powered drone which was performing a high acceleration terminal maneuver—just as an aircraft might do trying to outmaneuver the missile.

The severe evasive tactic didn't work, however, as SAM-D's unique track-via-missile guidance defeated the countermeasures and demonstrated another facet of its multiple capabilities.

The drone was flying at medium range and altitude.

Major General Charles F. Means, SAM-D Project Manager at Redstone Arsenal said the Army's proof-of-principle flight test program has gone according to the script.

"We've demonstrated that the SAM-D TVM guidance works and we've now successfully completed all but one major objective in this proof-of-principle flight test series," the general said. "I'm extremely pleased with what we've done and I'm confident that the Army-industry team will continue its accomplishments and dedication."

The intercept was the Army's fourth straight success in the proof of principle program now underway at White Sands and the 13th consecutive success overall counting Guided Test Vehicle Firings.

The one major objective remaining is the intercept of a high

speed target flying at low altitude.

The highly mobile, all weather SAM-D will provide a substantial increase in air defense performance against multiple and maneuvering targets in an electronic countermeasures environment.

SAM-D will replace both Nike Hercules and Hawk air defense systems.

Prime contractor for SAM-D is Raytheon Company's Missile Systems Division at Bedford, Massachusetts. Martin Marietta Aerospace, Orlando, Fla., is principal subcontractor for the missile airframe, control system and launcher. Thiokol Chemical Corporation is subcontractor for the propulsion system.

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Milestone

# First Shoulder-Fired Stinger Slams Jet

The Army's Stinger weapon system was fired from a man's shoulder for the first time Thursday and knocked down a jet plane employing tactical countermeasures during a development test at White Sands Missile Range, N.M.

Hailing the test as a complete success, Colonel David E. Green, Stinger Project Manager at the Army Missile Command who directs development of the new plane killer for both the Army and Marine Corps, said "... this completes a major milestone in the Stinger test program."

"It was the first test in our Design Flight Program ... the

first time a man test fired the weapon. . . and we hit the target," the colonel said, explaining that earlier test firings were conducted from a modified Chaparral launcher with no man in the loop.

Don Lasby, test manager for General Dynamics, Stinger prime contractor, put his name in the record book as the first man to fire Stinger.

Shortly after Lasby pulled the trigger, the missile defeated the countermeasures and slammed into the fuselage of the T-33 jet. Although the missile did not carry a warhead, the plane was knocked out of control and was destroyed by range command.

Looking to the future, Green

said the Army will continue manned firings, including some with live warheads, and will test both missiles and equipment that have been pre-conditioned in hot and cold environments prior to flight.

Stinger is the Army's newest man-portable weapon now under development that will give soldiers and Marines immediate air defense wherever they have to fight. Weighing less than 35 pounds, Stinger will defend against everything from helicopters to high-speed low level jet aircraft.

It features the latest in technology and will have a device to identify friendly aircraft.



## 0-5s, 6s

# Retirement Letters May Be Sent This Month

(Washington, D.C.)—Letters urging the voluntary retirement of selected colonels and lieutenant colonels may be sent out this month, Army officials said Tuesday of last week.

At the same time they denied news reports that had appeared earlier which said letters had already been sent to the selected officers notifying them that "their performance and potential indicate they can no longer make a meaningful contribution" in their

grade and should consider retirement.

"No letters which specifically request an officer to consider voluntary retirement have been mailed as yet, but may be sent out later this month," the officials said.

DA had said in late April that the letters were to be mailed by July 1.

The letters—not to be confused, the officials noted, with recently sent letters outlining activities of a screening board—"would be sent

to officers identified by a recent Army board as those who should be encouraged to retire early to alleviate problems associated with reduction in strength."

The earlier news reports also said that certain general officers were being asked to consider early retirement. "These news reports are incorrect," the officials said.

The Army estimates that 30 per cent of its lieutenant colonels are eligible for retirement, while nearly all colonels are.

"It is anticipated that only a small percentage of retirement-eligible officers would be asked to consider voluntary retirement", officials said.

DA said earlier that officers to be asked to retire would be selected by a board from those with 20 or more years of service by June 30, 1976 and who fall into a zone made up of the following categories:

—Colonels passed over once or more for RA colonel

—Lieutenant colonels passed over twice or more for 0-6 AUS

—Reserve 0-5s and 0-6s on active duty over 20 years.

No quota of officers to be encouraged to retire was set, according to DA.

Several thousand officer slots have already been recommended for either elimination or reduction in grade in a series of moves to save money and to increase ready combat power within the limits of authorized manpower.

The goal is to reduce officer corps strength by 4,400 by July 1, 1976. Along with encouraged voluntary retirement of selected

officers, other actions to attain the goal include reduced officer acquisition, a RIF of company grade officers, fewer approvals of voluntary indefinite status for reserve officers and limiting the number of warrant officers extended beyond 20 years.

MilPerCen announced June 30 that 2,138 company grade regular and reserve officers were to be RIFed from the Army by the end of September. Those to be RIFed have been notified and were selected from 2,682 considered by an Army Active Duty Board.

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# Col. Small Joins Kuwait Office

Colonel Martin J. Small, an experienced air defense artillery officer and a graduate of the U.S. Military Academy, has been named Project Manager of the Kuwait Missile Systems Project Office at the Army Missile Command.

He succeeds Lt. Col. Howard C. Whittaker as the man responsible for providing air defense missile

systems and associated training construction and support to the government of Kuwait. Whittaker is leaving for a new assignment.

Small has served as commander of several air defense artillery battalions since graduating from West Point in 1950, has served in several positions with the Ballistic Missile Defense Program and as a military assistant responsible for

Army missile ranges at White Sands and Kwajalein.

He holds a Master's degree in electrical engineering from the University of Arizona and is a graduate of the Command and General Staff College, and the National War College. He is a native of Laramie, Wyoming.

## Physical Exams

Physical examinations required by area schools, football or other activities for children ages 6-16 will be done on a first call, first serve basis every Wednesday during August.

Examinations will be scheduled through the central appointment desk at the U.S. Army Hospital, Redstone Arsenal. Examinees are required to call 876-3247 for appointment times.

It will be necessary for parents of children to bring, at appointed times, forms or a letter from the activity, indicating the requirements for and the extent of the examination.

## P. R. Voting

Soldiers from Puerto Rico must register by Aug. 19 to be eligible to vote in their country's elections this fall.

Registration can be accomplished by mail using a Federal Post Card Application for Absentee Ballot. The form is available from unit voting officers or the MMCS Information Office, Bldg. 3300.

Election officials in Puerto Rico will send the applicant a registration form which must then be filled out and returned to the Electoral Tribunal, Commonwealth of Puerto Rico, P.O. Box 2208, San Juan, Puerto Rico, by Aug. 19.

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**JULY AND AUGUST** and then back to school. This lovely 4 bedroom home is in select school area. Features sunken den w/fireplace, breakfast nook and fully equipped kitchen, formal dining, large living room. Very clean and attractive. Decorator wallpaper. S.E. W11318.

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**Willowbrook Gallery, 881-4900 — 7900 Bailey Cove Rd.**

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Esther Holloway	883-8207	Joan Atkins	881-6992
Al McCracken 859-1347			

**Central Gallery, 539-0643 — 505 Drake Avenue**

Mary Frances McCaleb	881-6510	Grayce Townley	881-2250
Betsy Hanes	859-4263	Rheba McAvin	536-6465
Boyd Edmiston	883-9217	Rosemary Nicastro	881-3079
Doyle Myers	852-8941	Jonnie Pewitt	536-9230

**North Gallery, 859-4660 — Pulaski at Mastin Lake**

Margo Perry	852-2601	Bill Franklin	852-9556
Sue Winn	883-2710	Pat Homsley	859-3850
Gene Arvin	539-3339	Joe Ellis	539-4379
		Sara Reese	852-9093

Eula Brooks  
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# MMCS Supports Local EEO

The Commandant of the Missile and Munitions Center and School pledge his organization's support to local equal opportunity programs recently in welcoming about 30 participants at a quarterly Equal Employment Opportunity (EEO) command meeting.

Distributing copies of the activity's EEO Council charter, Colonel Errol E. Hayes Jr. told the group that the employment outlook for MMCS remained stable, and said actions to assure equal employment opportunity would continue and improve.

"We're going to make it work," Hayes said.

Those attending the meeting were Mrs. Katie W. Byrd, MMCS EEO Officer; Johnny L. Nelson, EEO Council chairman; EEO counselors; MMCS managers; and job consultants from the Huntsville area.

Describing the EEO Council and counselors as "my good right arm," Hayes explained that the direct link between the council and himself serves as a "means of communication to find out what problems there are" among MMCS employees "and to do something about them."

After a briefing outlining MMCS programs and activities

for community representatives, Nelson outlined the history and responsibilities of the MMCS EEO council.

Formed in November 1972, the council gained a formal charter last October. A key section of the charter, Nelson said, identified the council as a principal source of advice and recommendations to foster effective communication in the command, the community and the work force on matters relating to equal opportunity. The objective is to assure success of equal opportunity programs conforming to Army and federal policy, he said.

"What we're about is improving communications," Nelson said.

"We want to open channels of communications with organizations and institutions," Mrs. Byrd said.

During a general discussion period, MMCS managers stressed the importance of complete job applications from persons seeking federal employment. A thorough job application outlining all experience, education and training is one step in helping government agencies reach the goal of equal employment opportunity, said Col. Frank S. Hertzog, MMCS assistant commandant.

"If you have people having problems in the community, have them contact us," said Chad Langley of the Huntsville and Madison County Community Action Committee.

"Most minority members have found the CAC is not under political or other restraints, and can run down answers to questions," Langley said. "We're independent and can get things moving."

"We work with students before during and after enrollment," said Rufus Taylor, director of student personnel services at Drake Technical College. Students may often be strong in technical qualifications, but a balance is needed between technical and academic work to meet employment and testing criteria, he said.

Taylor said that building student's confidence in dealing with employment tests and applications might enhance their prospects of getting jobs.

MMCS officials asked community representatives to help prospective employees understand civil service procedures, and to encourage job-hunters to apply for positions.

There will likely be a limited number of job openings at MMCS due to attrition, it was indicated, and the cooperative employment program at the school has been resumed.

It is hoped the command can recruit civilian employees, get them on the job, and begin employee training programs to qualify them for advancement when further openings become available, said another top MMCS official.

Other community consultants participating in the discussion were Emuel Cleaver of the Association of Huntsville Area Companies; James Garner, Assistant Placement Director of Alabama A&M University; and Harold Lee, Director of Development of Oakwood College.

Other federal representatives included persons from the Army Missile Command Equal Employment Opportunity and Civilian Personnel offices.

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# Thank-You Ends In Stardom

She merely thanked a company for making a product that lightened the endless washing chore accompanying a family with six children.

Now Brenda Eagle is viewed by millions daily throughout the United States in a commercial for that company. It appears on all local channels.

"It was the most enjoyable thing I ever did," she said of the filming which occurred in the Los Angeles area.

"The company paid for my husband and I to travel and our stay in the hotel, so it was like a vacation. But the filming was the most interesting. Betty White of

the Mary Tyler Moore show makes the company's commercials, so I appeared with her talking about the product."

The commercial, identified as the "sandwich maker commercial", is based upon an incident Mrs. Eagle told the company when she wrote her letter of thanks. It opens with a small girl, Lisa, portraying the real-life Lyn Eagle, now age six, attempting to make a sandwich. She smears about as much mustard over the front of her dress as she does over the slice of bread.

Next scene shows her hiding the obviously goofed-up dress under her bed where, in real life, it

stayed, stains and all, for two days before mother ferreted it out. Mrs. Eagle and Betty White conclude the commercial with much the same statement as Mrs. Eagle made in her letter—how just a spray-on application, then wash, whisked away the stain.

"On one of the takes," said Mrs. Eagle, "I set the spray can down on the coffee table—we were discussing the product over a cup of coffee. It hit the handle of my spoon and the spoon went flipping across the room. We had to re-do that one."

"During our lunch break, catered on the patio, a crew member washed out the dress which Lisa had been wearing in the filming. She didn't get the stain out. I told her she was supposed to wait two days before washing it. I used the product as I would at home, they ran it through the washer, whisk—no stain."

"Filming was done in a residence leased for that purpose. Shooting began at 8 in the morning and we worked on it until about 7:30 that evening."

Mrs. Eagle lives on post, works in the Program and Budget Division of the MICOM Comptroller. She is married to Sergeant First Class John Eagle, NCOIC of Pershing Maintenance at the Missile & Munitions Center & School.

## IWY Speaker

Brig. Gen. (Ret.) Elizabeth P. Hoisington, the first Women's Army Corps officer to be promoted to general officer rank, will be the guest speaker next Wednesday at a public luncheon sponsored by Army organizations in the Redstone area and Marshall Space Flight Center in recognition of International Women's Year.

The luncheon is set for 11 a.m. at the NCO Open Mess, and reservations must be made no later than close of business Friday by contacting the ticket chairman for each Army organization or Equal Employment Opportunity offices. Tickets are \$2.50.



ALL SMILES NOW—Mrs. Brenda Eagle and her daughter, Lyn, remember the not so good times when the nice appearing dress was a mess—in fact smeared with mustard stains. See story.

## Noted Distillery On Tour Agenda

The Recreation Center has scheduled a tour to Jack Daniels Distillery in Lynchburg, Tenn., for Wednesday, July 23. A complete tour of the distillery is planned followed by a free barbecue and fish fry.

The tour bus departs the Rec Center at one Wednesday afternoon and will return at approximately nine.

Personnel planning on making the trip must register at the Rec Center. Adults only.

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# The War To Restore The Union

The principal army of the United States got sick during the summer of 1862, sick not in its body but in its head which got badly mixed up.

An American army never caught that disease again, but while it lasted strange dark currents ran beneath the surface in the Army of the Potomac which thought for a time that the real enemy might be its own government.

What the army believed at last about its government was somehow all wrapped up in its opinion of its commander, MG George B. McClellan. He had built this army and its

**McClellan had vague ideas that the South could be persuaded to rejoin the Union.**

soldiers believed in him as they believed in no other man, then or afterward.

McClellan was a Democrat with vague ideas that the South could be persuaded to rejoin the Union if no one pushed too hard on things like slavery. He happened to be working for some very tough Republicans who were prepared to do whatever had to be done to win.

Men said later that this army spent its formative months too close to Washington and got hopelessly infected with politics. The \$13-a-month privates emerged from this experience in much better health than their commander.

Men with impressive credentials saw a lot of McClellan. Some of them told him he would be the next president, others hinted that perhaps he should just use his army and take over immediately.

All of this McClellan listened to and he had taken his army down to Richmond and been whipped soundly.

McClellan came to think that it happened because his government wanted his army beaten.

Because he believed that, many of his soldiers and senior officers believed it too and if McClellan did not come right out and say so—he hinted at it in letters to his wife and friends — there were men close to him saying that the time had come for the army to march on Washington and clean house.

So treason and rebellion were be-

ing discussed around the camp fires of the Army of the Potomac and McClellan did not stop it.

Then Robert E. Lee took his Army of Northern Virginia on a lightning move north and the crisis of the Civil War was suddenly at hand.

There was another Federal Army West of Washington commanded by General John Pope, no friend of McClellan. When it became obvious that Lee was on his way up to fight Pope, McClellan got frantic orders to move the Army of the Potomac back to Washington from its camps near Richmond.

It took 19 days before the first contingents of McClellan's army made the move. There may have been good reasons for the delay or it may have been that some of the leaders of the Army of the Potomac had begun to think it might teach the men in Washington a hard lesson if Pope got beat.

Anyway, it took 19 days, and that was too long because only part of McClellan's soldiers got to Pope before Robert E. Lee did and Lee had all his tough veterans with him. The armies collided around the old battlefield at Bull Run, fought for two days at the end of August and Pope lost. Whether he lost, as he said later, because the units from McClellan's army were slow to come to his aid really didn't matter much just then.

What mattered was that Robert E. Lee and his splendid soldiers, hardly pausing for breath, started for the Potomac River fords above Washington on a full fledged invasion of the North.

Lee risked a great deal with this move. His army had walked a long way very fast. The men were exhausted from continuous marching and fighting, the army shrunken from casualties and straggling. All told, Lee only had about 40,000 soldiers with him when he crossed the Potomac.

The President of the United States could play for table stakes too. McClellan's army had been deftly slipped away from him by feeding it piecemeal down to Pope. The army had been beaten and it was obvious now to Lincoln if not to his cabinet and the Republican leadership in Congress that if these dis-

pirited soldiers could be pulled together in time to stop Lee, there was only one man who could do it. No matter that some members of his administration thought the man a traitor, Lincoln gave the army to McClellan and told him to go after Lee.

The two armies sparred in western Maryland during the first days of September and McClellan got lucky. One of his patrols found a copy of Lee's orders outlining all his plans and movements. That should have been the end of the game, but McClellan at the head of an army of almost 90,000 soldiers believed in his heart that Lee had him outnumbered. So he tapped, when he could have struck with everything he had and Lee saw what was coming and ordered his scattered divisions to concentrate.

The advance guard of the Army of the Potomac found Lee and perhaps half his small army on September 15, drawn up near Antietam Creek with their backs to the Potomac River. That too should have been the end of the game, but McClellan wanted time to think things over.

Incredibly he delayed all through September 16 while dog tired Confederate soldiers came hurrying to join Lee in man-killing forced marches.

Some of them still had not arrived when the Army of the Potomac attacked at last at daylight on September 17. This was a fight between veterans who knew the business and they fought all day in what was, for sheer concentrated violence, the worst single day of the war.

And that too should have been the game, but McClellan from beginning to end never managed to get the full weight of his army in-

**Robert E. Lee and his splendid soldiers started on a full fledged invasion of the North**

to the attack. He sent it forward by divisions, a push here, a shove there and all through the day more weary Confederates came hiking fast to the sound of the guns and managed to turn the Yankees back.

More than 20,000 men got shot

Army Bicent



**Lincoln A**

Lincoln stood head and shoulders above this picture taken Oct. 3, 1862 when the Potomac in his trademark stovepipe hat stands with the rest of the army. McClellan is the fourth man to the left.

at Antietam, about one in four of the Confederates engaged, and some 12,000 Union soldiers of whom some 3,000 died. When it was finally over, Lee's men had held, just barely.

All the next day, Lee with not more than 30,000 men left calmly dared the Yankees to come on and McClellan with more than twice that number never dared to try.

That night Lee pulled back across the Potomac, his invasion over. It appeared to have been a drawn battle but in time men came to see it for what it was, a decisive Union victory.

It gave Abraham Lincoln what he needed and he took out the paper he had been carrying in his pocket for several weeks and he published it. It was the Emancipation Proclamation and it changed the character of the war. Until then one to restore

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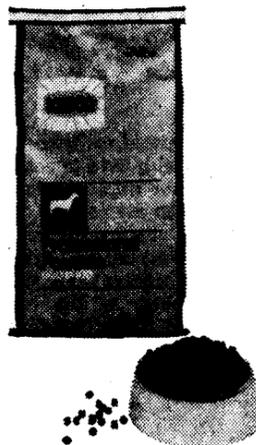
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# Becomes The War To End Slavery

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## Antietam

McClellan, literally and figuratively. In 1862, President Lincoln visited Antietam battlefield, Lincoln told McClellan and 15 staff members outside of Lincoln, facing him.

the Union, now it would be a war to end slavery.

Some time before, McClellan had warned the president not to do this. The general never understood that

**Lincoln was told by McClellan his soldiers would not fight to end slavery.**

his job involved running the army, not the country and he had told Mr. Lincoln his soldiers would not fight to end slavery. In this, it turned out, he was wrong. After the Emancipation Proclamation had been published, McClellan, sure that his loyal soldiers would enforce any decision he wanted to make about war policy, asked some of his key officers if he should oppose the government on this issue.

Many of the men in his army blamed McClellan, as Lincoln did,

for letting Lee's army escape, and these officers told McClellan bluntly now to forget it if he thought his army would support open defiance of civil authority.

There was further grumbling around the camp fires in the Army

of the Potomac, but the moment for outright rebellion, if ever there at all, had passed. Six weeks later the President found he could dispense with General McClellan's services and sent him home for good.

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.

## Bikeways

(Continued from page 1)

buildings scattered over several acres on the southeast end of the arsenal.

Concrete ramps which are ideal bike-ways interconnect the buildings. Many ramps have canopies to ward off the elements, and some are steep enough to provide small down-hill thrills.

The bike-ways don't end with outside ramps however. Large passage-ways inside many of the buildings permit riding a bicycle right up to — often right in to — shops and offices.

The odd configuration, placement and ramp interconnection of the old buildings somehow seem like modern design criteria in view of gasoline shortages and bicycle booms. Actually they are safety considerations. The buildings served first as an ammunition plant in World War II, and later were converted to a rocket propellant plant after the Army's missile program began.

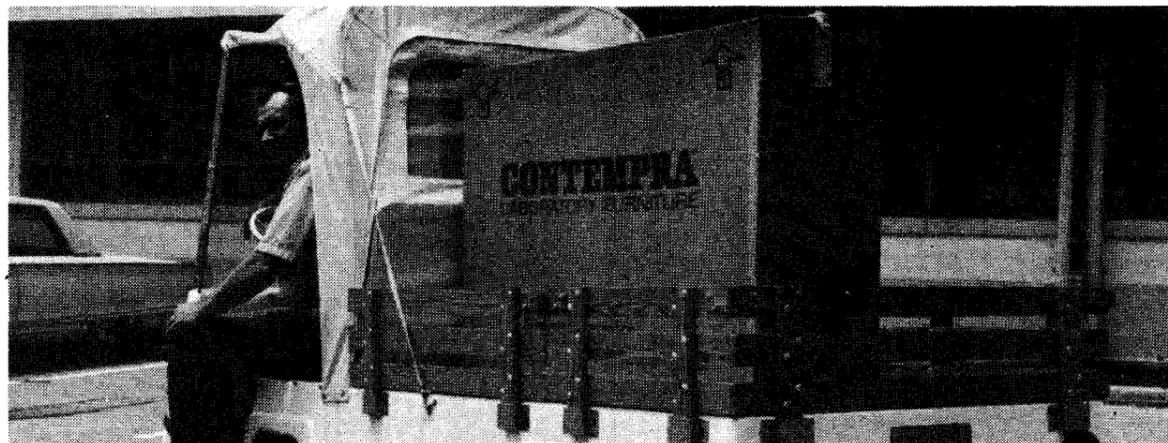
## Car

(Continued from page 1)

in use about three or four months at a couple of Propulsion Directorate branches. One is used to haul valves, fittings and other chemical laser hardware between four or five buildings in the 5450 area. "It's handy, does very well", said one person, adding that its snail's pace doesn't permit it to be used for anything but short trips in very light traffic.

The other is used to supplement the bicycle fleet at the Directorate's motor and power branch in the old Rohm and Haas area. There it is used to carry items used in making solid propellant for rockets, which process requires that different operations be some distance from each other for safety reasons.

Since it is used in runs to an igloo area which is about a mile from home base, it has been equipped with turn signals, a flashing beacon and a triangular slow-vehicle emblem to make it street-legal.



MOVIN' ON—Loyd Woodham takes an electric "truck" once around the parking lot. Woodham is with Guidance and Control Directorate's Prototype Development Branch, which has two of the little electric vehicles for warehouse and shop runs.

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AT THE JETPORT



### Flower Shop Opens

At right Colonel John D. White, RASA Commander, officially opens the Post Exchange Flower Shop located in building 3479. The shop will be open Mon.-Fri., 9:30 a.m.-5:30 p.m., and on Saturdays from 9 a.m. until noon.

The customers at left were waiting Monday morning when the PX Flower Shop officially opened its doors for business. Besides fresh cut flowers and arrangements, the shop features a variety of planters and gifts.



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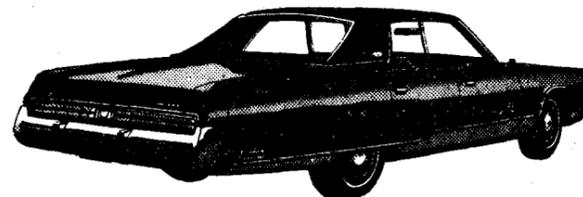
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# Students Break MICOM Softball Stranglehold

By Dave Cowan

Domination has been the byword of the MICOM "Gashouse Gang" for years, but like any domineering team—whether professional or intramural—their stranglehold must eventually come to an end. This has been the year of the end for the missilemen.

Surprisingly, the new powerhouse this season is the 4th SC—a bunch of transient students, here today and gone tomorrow.

Having shown supremacy in basketball and European team handball, the 4th captured another title last week in the RSA Intramural Slo-pitch Softball League—the Eastern division crown.

The first-place finish almost assures them the coveted Commanding General's Sports Trophy—awarded to the unit achieving the greatest number of points during the year in four major sports.

The students easily won their division, though the league has been billed as one of Redstone's finest. With only this week remaining in regular season play, eight teams in both conferences have a shot at four positions in each division in the upcoming post playoffs.

Lurking in the background is a possible playoff to determine final standings of three of four teams in each conference.

For those who have missed the action this season, there is still time to go out and watch one of the more suspenseful finishes in intramural softball here.

## Monday

The 7th SC toted their lively bats in the first of three games last Monday night and the results were more than sufficient as the Students lambasted Meddac 18-6.

Mark O'Driscoll of the 7th hammered out two doubles, with teammates Tom Pnewski, Jim Dixon, Roger Henley and Forrest Bethea collected a two-bagger each. Bob Buttoughs, Randy Hoerth and Tom Cobb had a double each for Meddac.

The 4th SC, which mathematically clinched the Eastern division title, exploded for six runs in the sixth inning against Company C and beat the permanent-party team 13-8.

The C's tied the game in the top half of the sixth on doubles by Larry Schlernitzauer and Dave Cowan and a three-bagger by Steve Spittler. However, the students came up with six runs in their bottom half, led by Jim Whitfield's and Dennis Smith's doubles and Elwin Shumway's second home run of the game, to wrap up the win.

Smith ended up with two doubles, while Whitfield gathered another hit—a triple—for the students. Roger Wright and Walt Luck added a double each in a losing cause for the C's.

In the finale, Company A, led by Joe Wikoff and Al Standiford's two doubles each, uprooted the Marines 15-6. Ron Williams chalked up the win for the A's; Leatherneck Carey Austell suffered the loss.

Ken Bell hit a triple and Ed Brice and Roye Locklear had a double each to pace the A's. Howard Scott belted two doubles for the Marines.

## Tuesday

The 291st MP's pounded out nine runs in the third and fourth innings, led by Charlie Dickerson's homer, to rout Company B 15-7 in the first of three games Tuesday night.

The cops took a 2-0 lead in the first inning and then the B's closed the margin to 2-1 in the second on Jay Johnson's home run to left field, before the MP's came up with nine runs in the next two innings to wrap up the game for pitcher Frank Chris-

man. Willie Rice smashed a triple and double. Tom Garber and Chrisman had a double each for the MP's.

In the second contest, 95th Calibration came up with four runs and were leading the 8th SC after two innings when the game was postponed because the lights failed.

## Wednesday

In Wednesday's action, the 7th SC and the 291st MP's clashed in the first of three games scheduled, and the students came out on top, edging the cops 4-3 on an unearned run in the final inning.

Deadlocked at three-all after six innings, MP right fielder Tom Dohn committed a three-base error on Dave McDermott's fly. With one out, student Mark Driscoll flied to center, scoring the tagging McDermott with the winning run over the cops.

Student pitcher McDermott gave up only five hits to the MP's, and scored the only extra-base hit—a double—off losing hurler Frank Chrisman.

After straight losses in their last three games, MICOM chalked up another win in an 11-9 squeaker over the Marines in the second contest.

George Buchanan led the missilemen with a home run, followed by Mike Spry's triple and double and a double each by Ray Smith and Tom Atchison. For the Leathernecks, Burnett went four for four at the plate, including a triple in the seventh inning off winning pitcher Walt Fuller of MICOM.

Pitcher Larry Robbins and Company B regained their winning ways once more with a 12-10 win over the 95th Calibration in the finale.

## Playoffs

After a two-week break in the weather, the RSA Intramural Softball League's make-up schedule is up-to-date and post playoffs have tentatively been scheduled one week earlier than previously announced, according to sports director Ralph Santaliz.

Originally slated from Aug. 4 through 8, the post playoffs now will be conducted next Monday through Friday at various designated fields across the Arsenal. Following the tournament, the 1975 all-star game will be played Aug. 7 on field No. 1 or No. 2 at 7 p.m.

The missilemen pounded out four runs in the sixth inning that propelled them from a 9-8 deficit to a 12-9 win over the 8th students.

Trailing the students 9-8, MICOM's Mike Spry unloaded a two-run homer to rightfield. Ray Smith then reached base on an error, Joe Jones singled, Walt Fuller drove in one run with a base hit and Jones scored the final run on Howard Lewis's double.

Ray Weinberg and Russ Stevens led the 6th with three hits each. George Buchanan, Smith and Jones belted three-baggers each for MICOM.

Tom Riggins and Jay Johnson led the B's with a home run each. Jerry Phillips and Richard Lehmborg led the 95th with a triple and double respectively.

## Thursday

The medics came up with two runs in the final inning on Bob Burroughs' homer and Randy Hoerth's triple to post a 6-5 upset over Company A in the first of three games on Thursday.

Meddac went into the final inning trailing the A's 5-4. Burroughs' tied the contest with a leadoff homer. With one out, Hoerth tripled to left center and then scored the winning run off

A's pitcher Ron Williams on Gary Richardson's sacrifice fly.

Hoerth had two triples and Roger Crossen had one for the medics. Joe Wikoff hit a three-bagger for the A's.

An eight-run outburst in the fourth inning lifted the streaking 4th SC to a 15-8 win over the 6th students in the second game. Jim Whitfield and Edward led the 4th's barrage with homers, while Tyrone Holt and Roger had a three-bagger each. Bill Farrell led the 6th with two doubles.

Dave Cowan drove in four runs with back-to-back homers, but it wasn't enough as Company C bowed 5-4 to the 8th students in the finale.

Student Bob Pinson gave up six hits in a winning effort for the 6th, while Jim Douglas scattered only eight hits, including a double to Parks, in a disappointing loss for the permanent party. Charlie O'Rafferty went three—all singles—for the C's.

## Make-ups

### Tuesday

One-run decisions highlighted three make-up games last Tuesday night at Field No. 8.

In the first contest, 95th Calibration—trailing 3-0 after three innings—came up with four runs in the fourth to edge the 6th SC, 4-3.

It was a tough loss for student hurler Petello. He allowed only four hits, but was tagged with the loss in the fourth stanza when the Calibrators came up with four runs on two errors and a triple and single by medics Gerald Minton and Suziki. Calibrator Jerry Phillips scattered five base hits in a fine pitching performance against the students.

The Orangemen from the 8th SC pounded out five runs in the final inning to eke out an 11-10 win over Company B. The B's, leading 10-6 going into the final stanza, stumbled into a loss by committing four costly errors.

Al St. Saviour and Parks led the Students with a double each. John Federico homered and

tripled and Leon Jones doubled twice for the B's.

Rodger Wineinger's double with the bases loaded in the 10th inning drove in the winning run as the 7th SC nipped Company C 8-7 in the last game of the night.

The loss marked the third straight time the C's lost by one run during the week. Jerry Butled led the permanent party with two singles and a triple, followed by Dave Swain, Dave Cowan, Dave Hayden, Bobby Combs and Larry Schlernitzauer with two base hits each. For the 7th, Jim Dixon and Wineinger had a double apiece.

	W	L	Pct.	GB
<b>Eastern</b>				
* 4th SC	12	3	.800	
8th SC	8	5	.615	3
Company C	9	6	.600	3
Company A	7	6	.538	4
Meddac	3	11	.214	8 1/2
6th SC	2	12	.143	9 1/2
<b>Western</b>				
MICOM	9	4	.692	
7th SC	10	5	.667	
291st MP's	7	6	.538	2
95th Cal.	6	7	.462	3
Company B	5	9	.357	4 1/2
Marines	5	9	.357	4 1/2
* Divisional Champs				

### Wednesday

In three make-up games Wednesday, the Marines pulled a 7-1 romp over Meddac with Leatherneck Joe Paulick grabbing the win over medic Glenn Makin. Paulick yielded five hits, backed by Howard Scott's three-bagger, while Barry McQueen and Fletcher went three for four at the plate. Randy Hoerth and Makin registered a double each for Meddac.

The 4th SC won their 12th game against three losses with an 8-6 victory over the 8th Students in the second match.

In a nip and tuck thriller, the 8th knotted the contest at six-all in the top of the seventh, led by Parks' triple. But in the bottom half, the 4th pulled the game out on Tyrone Holt's two-run homer.

Bob Davis and Roger belted a triple each for the victorious 4th, while Parks connected for a three-bagger. Jim Cook tallied two doubles for the 8th.

Company A came up with two runs in the sixth and then held the 6th SC scoreless in the final inning to register a 6-4 win over the Student.

Power hitter Ken Bell homered and Leonard Langford tripled for the A's. Kevin Brackett, Busch and Wakelee had two base hits apiece for the 6th.

## Friday

Three upsets climaxed a busy week's make-up schedule last Friday night at Field No. 2.

The 291st MP's got things a rolling when they surprised the A's with a 7-6 defeat. The cops led throughout the contest, taking a 4-0 lead in the first over the permanent party.

The A's picked up two runs in the second and third and narrowed the MP's margin to 4-2. In the sixth inning, the cops bounced back with three runs for a 7-2 advantage and then held the A's to four runs in the final stanza when Leonard Langford popped up with the bases loaded for the third out.

Bill Hileman went three for four and Jim Fomby cracked a double for the MP's. Ken Ellis led the A's with a double.

Three-baggers by Steve Spittler and Dave Cowan in the fourth ignited a six-run inning as Company C slugged their way to a 10-5 win over MICOM.

Spittler collected three hits and four RBI's, and Dave Hayden, Ed Yohe and Tony DiFiorie had two hits apiece for the C's to help hurler Jim Douglas get the win over missilemen Walt Fuller. Ray Smith belted a towering homer to left center and Mike Spry nabbed a three-bagger off the centerfield fence for MICOM.

The 7th SC came up with two runs over the final two innings to break up a closely-contested ball game for a 10-7 win over the 8th.

Tom Pnewski led the 7th's slugging with a homer and triple, while Jay Johnson and Dave McDermott added doubles. Jim Cook singled and tripled and Dave Lewis doubled for the 8th.

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## World Of Sports

By Dave Cowan

### How Good Are School Physical Fitness Programs?

Reflecting on my bygone high school days, I come across some painful memories of an aspect of American schooling which many of us have managed to forget and which educational reformers have chosen, for the most part, to ignore.

While technology has advanced rapidly in 20 years with space-age equipment taking over muscle-taxing jobs—creating shorter working weeks and more time to relax—schools throughout the United States are still laggard in presenting sports programs that offer physical and mental stimulation.

In an age when sport has become a major American spectacle, physical education remains in the shadows. Only the resemblance of a militaristic program—calisthenics—is offered in the form of pushups, sit-ups, jumping jacks, toe touches, knee bends, and so on.

#### Programs Offer Little Discipline

After this, discipline goes rather rapidly downhill as students move on to the game of the day—softball, volleyball, flag football, field hockey, basketball. Play is generally preceded by a confirmation ritual known as "choosing sides."

When all this is accomplished, there is little time for the game itself.

Another time-consuming ritual awaits students following the game of the day: the shower. Sometimes too much attention is devoted to this activity. In fact, in some schools (as was my case) students are inspected as they leave the shower room to make sure they are wet all over. Needless to say, boys' classes are separate from girls'.

This mode of instruction falls short of its proclaimed goal of increasing physical fitness. It usually offers too little sustained activity to increase heart-lung capacity.

Many medical authorities believe stepped-up capacity is best achieved when an accelerated heart rate is maintained over an extended period, as in distance running, swimming, or cycling. Doctors call this the "training effect." However, most team sports in gym or field classes are played in spurts.

#### High Heart and Circulatory Deaths

Highly competitive sports are appropriate only for a select group, but other physical activities are suitable for everyone. Maybe the person who is naturally heavy shouldn't be a runner. But that individual can swim—and swim more easily because of his higher percentage of body fat.

The important thing is to get people started in some physical activity. According to latest medical statistics, more than 54 percent of all deaths in the U.S. last year were caused by disease of the heart or circulatory system.

Changes in physical education are needed. The roots of change should start in the early elementary grades.

Some educators and researchers believe that there is a direct connection between the ability to move and ability to learn.

One of the boldest theorists to link movement with learning disabilities is Dr. A. Jean Ayres of the University of Southern California.

Ayres has observed that certain infant muscular reflexes tend to show up in children who have trouble learning. The doctor said, for example, that when an infant's neck is turned to the right, its right arm tends to extend and its left arm to curl up around its head.

#### More passive Spectators?

When the reflex is seen in an older child, the child will often rotate his whole body to avoid rotation at the neck. Such an unwanted reflex makes graceful, controlled movements difficult and in addition, it can interfere with thinking, says Ayres.

"Schools are doing a better job now than five years ago," says sports director Jerry Willis of Youth Sports Activities at Redstone. "There're doing an outstanding job in the Huntsville school system, but like most education facilities, they can do only so much financially."

"One major change I have noticed in the physical training programs offered in the Huntsville system is that they have organized more girls' team sports," he said.

Willis believes schools offer more PT than 20 years ago. "Today, we have more PT instructors in accordance with the school's populace," he said. In my high school days, we had one PT teacher for 900 students.

One of Willis' major complaints, however, was that there aren't enough professional instructors to go around in most educational systems.

A strong believer in volunteer coaches, Willis said, "We cannot do without volunteers—both at Redstone and in the Huntsville school system. They are the people that have made our program at Redstone the largest among military installations throughout the nation."

(The military figures rankings by relating a youth sports program's size to the number of troops on the Army post.)

"However, there should be an age group cutoff among professional and volunteer instructors," he said.

When children are denied the joys of the body in motion, they are not merely losing their chance to compete someday with the superstars. They are being deprived of what is fundamental to all learning—coordination, perception and health.

Top-flight competitive teams and television sports spectacles are fine. They show us humanity's athletic titans. But it would be ironic if the current popularity of sports ended up making us even more passive spectators.

# Chessman Wins—Seriously

by Paul Hornak

Late-afternoon sun streams through the windows of the 4th Student Company dayroom at the Missile and Munitions Center and School. Contemplating each other and 32 chessmen across the space of two tables are four soldiers—semifinalists in the company's annual battle of the boards.

The dayroom—a soldiers' lounge—is like a jumping clown amid these wordless, hunched chess players. Red carpet and curtains; red vinyl straight-back chairs and couches. Even a red coffeepot, from which the stern-faced competitors draw steaming refreshment.

A handful of onlookers—one of them 4th Company commander Captain Max Kociuk—follow the moves from chairs on the sidelines. They, like the contenders, maintain strict silence.

The four now intent on strategy and on one another have survived preliminary games involving 16 soldier-chess players.

Elwin Shumway, a specialist five, is taking on Private William D. Rogers, and Corporal David C. Gale is facing Owen W. Latimore, a private first class. All but Shumway, a Pershing repair student, are learning Shillelagh missile repair.

The tall, lean Shumway leans far back in his chair, as if to look down on the chess board and his opponent Rogers from a mountaintop. He is attired in brown suit, vest and tie, in a apparent effort to unnerve Rogers.

But the blue-jeaned Rogers seems oblivious of his adversary, instead training his gaze on the chessmen while puffing a cigarette.

Gale and Latimore both are informally dressed—jeans, lightweight shirts—but their demeanor is solemn. The massively-built Gale leans on the edge of the table like Buddha with a crew cut. Latimore rests his chin on his fists and warily eyes the board through gold-rimmed spectacles.

They have been like this about an hour. Spectators—mostly their fellow soldiers—have passed in and out of the dayroom. From a distant pool room, the sound of clattering balls stirs the silence.

At last Shumway stands, extends his palm, and Rogers and he shake hands. Rogers is the victor. It is Friday night—7 p.m.

The following Monday, Rogers faced Latimore in the finale. They played for the exhilaration of competition, but also for trophies—a 20-inch version for first place and a 16-inch model for the runner-up. Rogers eventually called checkmate to claim the top spot.

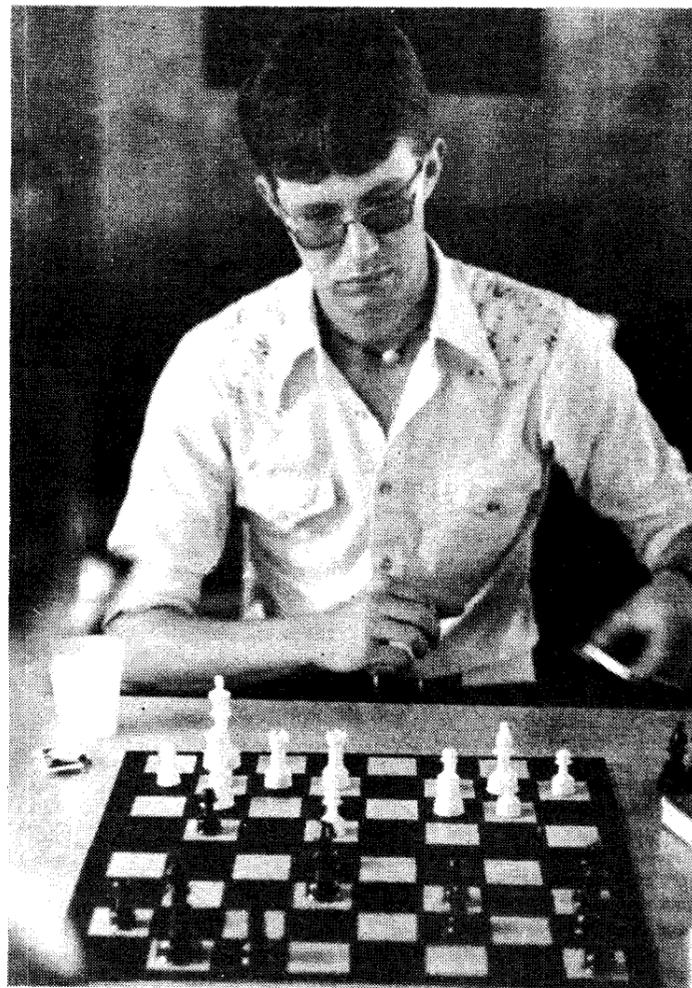
The 18-year-old native of Stanton, Ky., who arrived at the missile school in May, has played chess four years. Recently, he enrolled in Eastern Kentucky University's non-resident program. He is the son of Mr. and Mrs. Willard Rogers of Stanton.

Sergeant David Michaels, the 4th's company clerk, who gathered chess boards and attracted players for the tourney, feels the event is a good way of drawing soldiers together in friendly competition.

"With all the sports, we seem to get only a certain segment of the company to participate—with basketball, we took the (Redstone Arsenal) championship but we had an all-black team—but with chess, we seem to get a cross-section," he said.

Michaels began planning the match about a month ago by posting a notice on the company bulletin board. From then on, interest was high.

Throughout competition Michaels stood by quietly, following the players' lengthy deliberations, offering onlookers



CONTEMPLATION—William Rogers sizes up the competition during semifinals of the 4th Student Company's annual chess tourney at the Missile and Munitions Center and School. A private studying Shillelagh missile repair, Rogers eventually out-maneuvered this foe and another one to claim the first place trophy.

coffee and, in general, seeing that the tournament was not disrupted. He the seriousness that is a chess did his job well.

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### MP School Moves

Ft. Monroe, VA — a change of command ceremony on July 11 officially marked completion of the Military Police School's move from Ft. Gordon, Ga., to Ft. McClellan.

The school's job remains unchanged. However, the facilities at Ft. McClellan are expected to enhance the school's ability to provide qualified officers and enlisted persons for the military police.

The new school has a pistol range; crime scene, polygraph, photo training, and mock confinement facilities; MP training station; new barracks; physical security building and interview/interrogation building; judo pits; driver training area; and the MP Museum.



INSTALLATION—Newly elected officers of the Redstone Toastmistress Club were installed at the last meeting. Left to right are Nell Canada, president; Cathy Thatch, first vice-president; Pauline Cavender, second vice-president; Lee Dell Shankles, secretary; Pearl Hall, treasurer; and Joanne Bloom, club representative.

### Toastmistress Officers

"The Changing World" was the theme of the Redstone Toastmistress Club's second meeting of the month held at the Officers' Open Mess.

President Joanne Bloom presided. Invocation was given by Pauline Shappley with the pledge of allegiance to the flag led by Nell Canada. Lexicology was given by Leola Agee.

Nancy Betterton conducted the education session with a discussion of careful and selective eating habits plus hints for surface beauty.

New officers were installed by Ann Cooley. They will serve a six-month term beginning in August.

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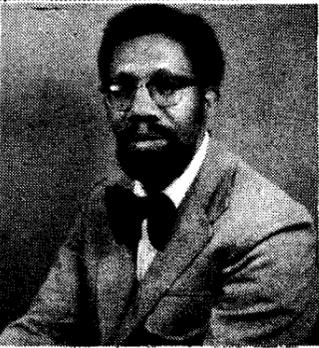
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### CIVILIAN BRIEFS

The following is a list of new hires, retirements, and promotions for July 11-17.

- New Hires**
- Cone, Virgil L., GS-1670-12, Maintenance
- Monger, Peggy R., GS-322-3, DMIS
- Johnson, Willard G., Jr., GS-525-5, Comptroller
- Gattis, Paul, GS-1102-9, P&P
- Henley, William L., GS-1521-5, Product Assurance
- Putnam, James P., GS-525-5, Comptroller
- Barnett, Mary M., GS-322-3, Product Assurance
- Cates, Junious D., WG-5716-11, RASA
- Retirements**
- Craven, Frank L., GS-334-11, DMIS
- Promotions**
- Orr, Hannah B., GS-525-7, Comptroller
- Christian, Vivian E., GS-203-8, PT&FD
- Jolly, Brenda F., GS-322-2, PT&FD
- Langford, Betty J., GS-322-3, Metrology & Calibration
- Breazeale, John R., GS-80-12, RASA
- Burns, Willis G., GS-305-4, RASA
- Foster, James D., GS-235-12, PT&FD
- Ling, Phyllis K., GS-221-7, PT&FD
- Johnson, Lucille K., GS-2131-5, RASA

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### Scuba Partners

Fred Willingham and his son, Todd, check out their gear while planning a scuba diving trip. Willingham, an engineer with the Ballistic Missile Defense Systems Command, took up scuba diving when his son needed a partner.



## Water Attracts Willingham Crew

The things fathers do for their sons . . . and daughters. Fred Willingham had no idea of becoming a scuba diver, but when his 14 year old son needed a partner to take scuba training dad decided to help him out.

Willingham, an engineer with the Ballistic Missile Defense Systems Command, likes outdoor activities and has taken his family boating and camping whenever the opportunity presented itself. In fact he has been taking his son, Todd, with him kayaking and white-water canoeing since the lad was nine years old.

Todd has been interested in marine biology and maritime activities for several years. He got

books from the library and read everything he could find on marine life and scuba diving.

When Major Rick Waldrop of BMDSCOM started a class in scuba diving, Todd wanted to take the course, but because he was the odd-numbered member of the class he needed a buddy to train with. Faced with the problem of waiting for another class, Todd talked to his dad and the two decided to take the training together.

Todd took to scuba diving like a fish to water. In fact he made such high grades that Major Waldrop made him his assistant and he helped instruct in later classes. The day he was 15 Todd was certified as a scuba diver and this is

the earliest anyone can be certified.

Now father and son are avid scuba divers and have already made three trips to Florida to dive in the many springs that dot that state. Willingham likes diving so much that he and a friend made a trip to Florida while Todd was in school. They planned their trip so that they visited 11 different springs and got in four days of diving.

His 10 year old daughter, Amy, wants to try scuba diving when she gets a little older. Her mother, Fran, goes along with the family activities, but she's decided that Fred or Todd will have to be the ones that dive with Amy.

A couple years back Fran tried white-water canoeing with her

husband. When Fred dumped her out of the boat and she went through the rapids without a boat, she decided to become a spectator. Her experience water skiing ended up with her having to use a pillow to sit on for awhile so Fran has decided to leave the thrills of competition to the other members of the family.

The Willingham family has a boat and a camping trailer and like the outdoor life. The like to do things together, but now Fred is getting worried. Todd is becoming interested in skydiving and his dad figures that sooner or later he is going to have to draw the line on father and son participation . . . and this could be where the line is drawn.

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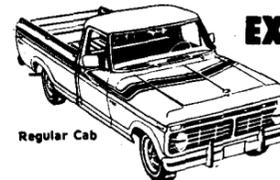
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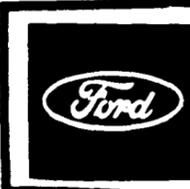
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