

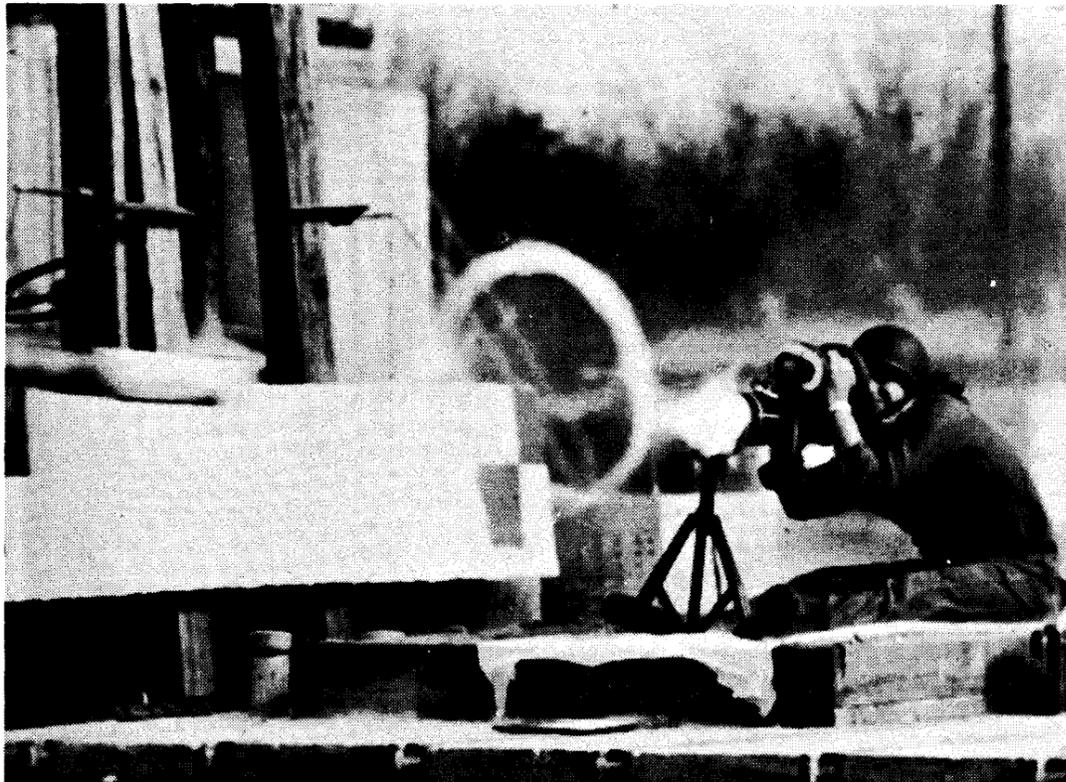
THE REDSTONE ROCKET

Published in the Interest of the Personnel of Redstone Arsenal

VOL. XIX; NO. 36

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA 35809

JANUARY 27, 1971



THAT'S A LIVE WARHEAD—Shown at far left is the first Dragon missile with a live warhead to be fired from a man's shoulder. This was the first of three Dragon missiles with high explosive warheads tested successfully last week at the Army Missile Command.

Dragon Fired From Shoulder

A Dragon missile, armed with a high explosive warhead, was fired from a man's shoulder for the first time last Thursday during a development test at Redstone Arsenal.

Calling it a milestone in the Dragon program, the Army said the anti-tank missile was fired and scored a direct hit on a stationary target.

All missiles with live warheads until then were fired from fixed launchers with no man in the loop, the Army said. There have been manned firings but all were accomplished with inert warheads which carried telemetry equipment.

The Army said the first live firing was conducted by C.K. Strausberger, a gunner for the McDonnell Douglas Astronautics Company, prime contractor for the Dragon system.

The Dragon program is

managed by the Army Missile Command at Redstone Arsenal under Col. Robert D. Funke, Project Manager and his civilian deputy, Allan Platt. The Army Munitions Command at Dover, N.J., is developing the warhead under the management of Mike Esposito.

More advanced testing is to be done at Redstone Arsenal, the Army said, including firings at moving targets.

Weighing less than 30 pounds, Dragon is completely man-portable, yet powerful enough to destroy enemy tanks or other battlefield targets.

The shoulder-fired Dragon uses an automatic command-to-line-of-sight guidance system. A soldier simply aims through a telescopic sight, launches the missile and holds his sight on the target until impact.

Engineers Begin Refresher Study

School bells rang early ushering in a new mission for the Army and a possible new career for a group of engineers at Redstone Arsenal Monday.

Shortly before 8 that morning, 20 engineers from throughout the Army Missile Command gathered in a classroom at the Research and Engineering Laboratories to sharpen their skills and to become "doers"—instead of "doer managers."

Before training ends this summer, they will have completed refresher courses in engineering and mathematics and will have advanced to specialized courses which give them the latest in engineering technology.

Their mission is to develop, at Redstone, scientific expertise to provide engineering services for Army weapon systems no longer in production.

Dr. John McDaniel, Director of (See Engineers on Page 4)

Navigation Meeting Set In February

Maj. Gen. Edwin I. Donley will be one of the featured speakers next month (Feb. 24-25) when the Institute of Navigation holds its national space meeting at Redstone Arsenal.

The Commanding General of the Army Missile Command will discuss "Army Navigational Needs."

New System Built To Scale Will Direct Future Missiles

Future Army missiles will be taught to find their targets by practicing on a 32 square foot, three dimensional model of portions of Redstone Arsenal and adjoining areas of North Alabama.

The highly accurate scale terrain model will be included in a new Electro-Optical Simulation System (EOSS) being incorporated in a major addition to Army Missile Command test facilities at Redstone.

The Missile Command has awarded a \$220,000 contract to the Martin Marietta Corporation for

the design phase of the new system. It will be used to test and evaluate guidance and control devices such as missile seekers and other sensors which assist the missile to steer itself to its target.

Most of the EOSS hardware, including the terrain model, will be installed in a chamber 109 feet long, 45 feet wide and 42 feet high contained in an addition to the McMorro Laboratories operated by the Command's Directorate for Research, Development, Engineering and Missile Systems (See TARGETS on Page 4)

BATS System Scores Success

Eight of the Army's new Ballistic Aerial Target System (BATS) built in Huntsville have been successfully flight tested at Redstone Arsenal.

The eight were among the first month's production output of Teledyne Brown Engineering, which in October received \$1,656,730 from the Army Missile

Command to build 5,660 BATS and launchers. Brown won the contract after participating in a fly before buy competitive prototype evaluation.

The BATS program is managed by the Missile Command Air Defense Control and Targets Product Office headed by LTC Robert P. Loshbough. The flight tests were conducted by personnel from the Directorate for Research, Development and Engineering and Missile Systems Laboratory.

After watching two of the successful flights, Maj. Gen. E.I. Donley, Commanding General of the Missile Command, told product office personnel that it was gratifying to see a simple, low cost item that worked.

The Command regards BATS as a singular achievement in defense hardware procurement where success generally involves both complexity and significant cost.



DESCRIBES BATS—Serge Tonetti, right project officer for the Army's Ballistic Aerial Target System (BATS) points out features of the new target at a Redstone test range, to, left to right, Col. Louis Rachmeler, Army Missile Command Deputy Commander; LTC R. P. Loshbough, chief of the Air Defense Control and Targets Office; Col. R. P. Williamson, Deputy Commander, Air Defense Systems; and Maj. Gen. Edwin I. Donley, Missile Command Commanding General. Eight BATS were successfully flight tested recently at Redstone. The Air Defense Control and Targets Office directs the BATS program.

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Answers

(Editor's Note: The Rocket announced last week a new feature aimed at providing direct, factual answers for job-related questions that may arise in the minds of Missile Command military and civilian personnel. A selection of questions and answers received in initial response to announcement of the program are printed below. The program works like this: Missile Command personnel are invited to submit questions in writing, signed, and with office telephone number of the originator, to the Missile Command Information Office, Rm. A-134, Bldg. 5250, through the Arsenal mail system. Information Office personnel will research the questions with appropriate elements of the Command and then answer the originator with a telephone call. Questions and answers of general interest will be selected for publication in subsequent issues of the Rocket, without names.)

QUESTION: Is MICOM going to have another RIF?

ANSWER: The Command does not need a reduction in force to stay within current manpower guidance. Nothing has been received from higher authority which would require a reduction in force.

QUESTION: Since there have been no civilian promotions in about a year, when is it anticipated that promotion actions can again be processed?

ANSWER: Upon completion of the MICOM reorganization and placement of employees in valid positions, approximately June 1971.

QUESTION: Is there a time limit for giving priority on promotions to personnel who were demoted or who lost jobs during the RIF of last year?

ANSWER: Yes. Eligibility for repromotion on AMC employees will extend for a period of two years for career employees and one year for career-conditional employees from date of demotion. Career employees separated remain on the Reemployment Priority List for a period of two years from separation. Career-conditional employees, one year.

QUESTION: What is current civilian strength at MICOM?

ANSWER: As of January 15, 1971, 8,074.

QUESTION: How much does the Military and Civilian Welfare Fund take in each month?

ANSWER: There is not a Military Welfare Fund present at Redstone Arsenal. Military recreational type activities are supported by the non-appropriated Central Post Fund. This fund is supported by allocations based on military population of the installation, from the U. S. Army Materiel Command. Source of the funds is from profits of the Army-Air Force Post Exchange system nationwide. The current allocation is \$1.05 per month for each military person assigned. Of this amount, 50c per person is allocated to local unit funds. The Civilian Welfare Fund at Redstone Arsenal has received approximately \$700 per month for the past 12 months from the local Post Restaurant Fund. The Post Restaurant Fund receives 50 per cent of the net profits from all Post Exchange operated, random vending machines located South of Neal Road which go to the Redstone Civilian Welfare Fund. The other 50 per cent net profit from the random vending machines is utilized by the Post Exchange to offset deficits experienced in the operation of cafeterias.

QUESTION: What is the money used for by each group?

ANSWER: The Central Post Fund provides facilities and equipment for such military personnel activities as the Enlisted Men's Service

Club, post gymnasium, craft shops, bowling alley, golf course and swimming pools. The Civilian Welfare Fund supports the Redstone Civilian Picnic Area and various other civilian recreational programs consisting of men and women's softball, tennis, bowling, basketball and skeet.

QUESTION: The only day civilians can buy wood from the salvage yard is Thursday but the Redstone Saddle Club can get wood any day of the week. Why should the Saddle Club have this privilege?

ANSWER: The Redstone Saddle Club is a non-appropriated fund organization at Redstone Arsenal. By AR 755-2 non-appropriated fund activities are authorized to draw surplus materials. The transfer of material is not regarded as a purchase, as is the case of a "customer" buying the surplus wood.

QUESTION: When will recent applicants for associate membership in the Redstone Non Commissioned Officers Open Mess be notified as to their approval or disapproval for membership?

ANSWER: The membership list for the Redstone NCO Open Mess will be turned over to the Assistant for Personnel and Administration, DASO, this week. The Deputy Post Commander must approve the list. Barring unforeseen complications, applicants will be notified within two weeks as to their acceptance or rejection.

QUESTION: What procedure do I follow to be considered for any openings overseas that I may qualify for?

ANSWER: If you are registered in a DA career program, you are automatically considered to fill overseas vacancies provided you have indicated willingness to accept an assignment in the country where the vacancy exists. Should you wish to check your career registration to verify that you have indicated willingness to accept an overseas assignment, contact Mrs. Stacy Harris at 876-9408. You may also register in the DOD Automated Overseas Employment Referral Program which is concerned with filling critical skill vacancies in all DOD agencies. If you wish to register, contact Mrs. Betty Herchenhahn at 876-8080. There is no referral program outside DOD. Should you desire overseas employment with another department of the government, you must contact them directly.

QUESTION: Where is the Arsenal's Red(sand)stone landmark located?

ANSWER: The red sandstone source is located on Patton Road South, past Building 7855. You can see the strata of sandstone in the open ditch running along the road. A piece of this sandstone was placed on exhibit in the lobby of Building 7101 in the mid 1960's. The Arsenal received its name not so much from the red sandstone, but from the red soil of this area.

Workhizer To Address Graduates

Students graduating Friday, Jan. 29, from the US Army Missile and Munitions Center and School will hear an address by guest speaker Captain Daniel T. Workhizer, Jr., Commanding Officer of the 249th Ordnance Detachment, Unit Training Command.

Workhizer holds a Bachelor of Science degree from The Citadel with a major in political science. He earned his commission through the ROTC program while attending college.

Workhizer and his wife, Kathy, reside at 250-D Niblo Drive, Redstone Arsenal.

The graduation ceremony will be held at 9:30 a.m. in the Post Theater.



CPT. WORKIZER

The Redstone Rocket

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

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Rocket Ruminations

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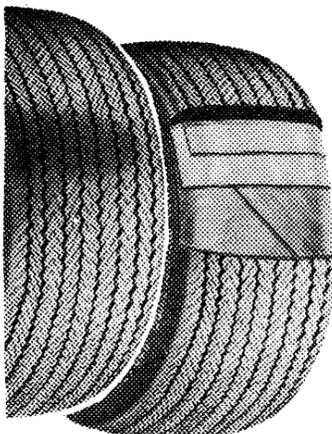
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Targets

(Continued From Page 1)

Laboratory.

Primary user of the new equipment will be the Advanced Sensors Directorate.

Missile seeker hardware under test will be mounted on a flight table which has three axis of rotation to simulate motions and forces common to a missile in flight. The table can be moved along a horizontal beam while simultaneously being raised or lowered. In combination with the terrain model, it will enable laboratory personnel to accurately simulate actual missile flight.

Items under test will be seeking targets on the scale terrain model which moves along a track at preselected rates to provide the relative earth motion to the simulation. The terrain model can also be tilted up to 30 degrees rotated throughout 360 degrees so as to change target aspects.

A second target presentation system being designated for the new facility will provide a screen and two dimensional high resolution film projection.

Other features of the EOSS include a highly sophisticated lighting system able to accurately simulate all degrees of natural lighting from full daylight to starlight conditions.

The EOSS will share a computer complex in the building to obtain automated analog and digital control as well as data processing capability.

When completed the EOSS will enable Army missile scientists and engineers to conduct, under closely controlled conditions, repetitive tests and evaluations of seeker hardware by "flying" it in the simulated world of the laboratory before committing such hardware to actual real world flights providing considerable savings in flight hardware and range support costs.

D. L. Kilbourn, project officer for the system, said EOSS will greatly ease the complex task of developing highly accurate guidance systems for future Army tactical missiles.

RETIRING

Scheduled to retire this month are: LTC Lee V. Frazier, Safeguard Systems Command; LTC Dale Hamilton, Jr., Arsenal Support Operations; LTC Chester L. Langley, Office, Project Manager; CW2 Victor C. Gordon, Office, Project Manager; 1SG William R. Liggett, Medical Department, and SSG Waddell Edwards, 55th Army Band.

Engineers

(Continued From Page 1)

Research and Engineering at the Missile Command, told the group in launching the training program that "... this mission is vitally important to the Army and I am confident we have the resources, and the people, to do the job."

The Army does no manufacturing at Redstone but turns to industry to get its hardware. Although the Army carries on extensive research, its engineers for the most part monitor and manage industrial efforts, instead of actually applying their engineering talents.

Even though industry no longer produces a particular weapon system, or piece of equipment for the Army, that hardware might remain in service for several additional years. Objective of this training program is to prepare Army engineers at Redstone to perform engineering services to support that equipment.

Not only does this represent a substantial cost savings for the Army but it enables the Army to retain, "in-house", a broad scientific and technical knowledge base.

Training is being conducted by the University of Alabama in Huntsville under Raymond C. Watson, Director, Division of Continuous Education. Training is under the direction of R&E's System Engineering and Integration Office, headed by Charles W. Hussey.

For the first 6-8 weeks, engineers—most of them GS 12 through 14—will take refresher courses in basic engineering and mathematics. Those courses include algebra, trigonometry and analytical geometry, calculus, electronic and electrical fundamentals, thermodynamics and fluid mechanics, courses many of them haven't "brushed up on" since college days.

After that, the going gets

METEOROLOGY MEETING

The North Alabama Chapter of the American Meteorological Society will meet Thursday, February 4, at 7:30 p.m. in the large conference room of the Lockheed Missile and Space Company, 4800 Bradford Boulevard in Research Park.

Dr. Arnold Court, Chairman, Department of Geography, San Fernando State University in California, will be the principal speaker and will discuss climatic prediction. For further information, contact Mrs. Billions at 876-3875.



IT'S BACK TO THE BOOKS—Reveiwng acquaintances with algebra are four of the 20 Army Missile Command engineers who began Monday "brushing up" on basic engineering courses. Seated from left are Albert Graham, George Gullatt, Burt Carpenter and Bill Zecher. Standing, from left, Dr. John McDaniel, Director of Research and Engineering at the Missile Command and James Horner, Chairman of the Math Department at the University of Alabama in Huntsville.

rougher. During morning sessions at Bldg. 5400, they'll study advanced mathematics, including statistics, computer programming, complex variables and partial differential equations; and such advanced engineering courses as flight dynamics, applied

optics, missile aerodynamics, gas dynamics, rocket propulsion, radar technology and infrared technology.

During the afternoons, it is planned to travel to the Army Missile and Munitions Center and School where they'll have actual

Army equipment available to work with.

As Army weapons phase out of production, the Missile Command will have the specialized engineers, and know how, to perform whatever engineering services might be required.

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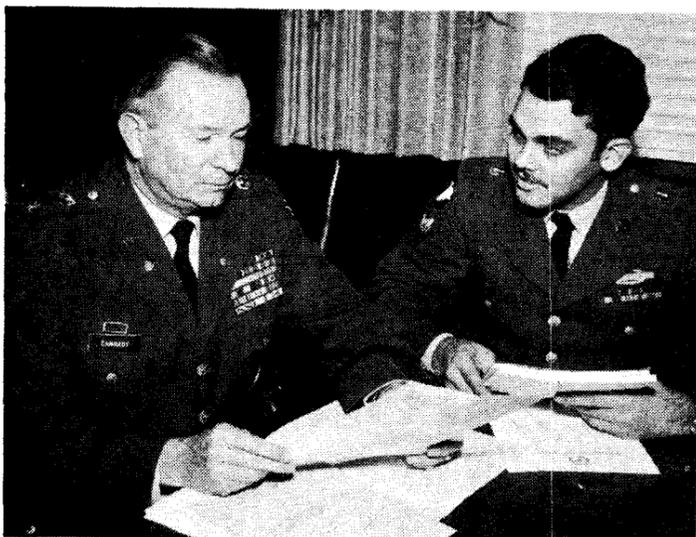
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ARMY PROVIDES TRAINING—Col. Preston B. Cannady, Deputy Post Commander, and Sp4 Thomas Rocourt, Vietnam Orientation Committee, discuss the television and radio repair course which Sp4 Rocourt has just completed. While receiving his certificate from Col. Cannady recently, Sp4 Rocourt said that the course was "a good idea, and I learned much. I expect it to be a great help to me." He added that he expects to use the skill to financially assist him in his return to college. His local course was made possible through arrangements made by the Army with Astro TV Service where he received 12 weeks on-the-job training. Such training in skills is available to qualifying Army personnel through the Project Transition Office, Bldg. 3656.

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Dentist Suggests Use Of Fluoride

This is the second in a series of four articles on dental health published by the Redstone Rocket, in cooperation with the Dental Activity at Redstone Arsenal, in observance of National Children's Dental Health Week, February 7-13.

MAJ Blevins, the Examining Officer at the Dental Activity, often has questions concerning the best type of toothpaste. He feels that the type of dentifrice which is most beneficial to oral health is the fluoride toothpaste. Children and adults who are especially prone to dental decay can derive the greatest benefits from this toothpaste, since it actively strengthens tooth enamel by making it better able to withstand decay-causing acid attacks. Currently, two dentifrices containing flouride compounds are recognized as effective by the American Dental Association.

But the use of a flouride toothpaste alone will not guarantee decay-free dental health. You must

learn to brush your teeth properly. A dental officer or dental hygienist can give you instructions in the appropriate method. In addition, the nygienist should clean your teeth at regular intervals. Professional cleaning removes plaque which you cannot completely remove with your toothbrush.

Do not forget that your eating habits also play a part in oral health. Eat plenty of healthy foods and try to cut down on sweets. As discussed in an earlier article, sugar is a major factor in decay. The more you can avoid eating sweets, the better are your chances for good oral health.

A work of caution about one type of dentifrice—the so-called TOOTH WHITENER. Some of these toothpastes may contain excessively abrasive material. If you have plastic tooth restorations or teeth that are exposed below the gum line, they can be damaged by abrasive toothpastes.

Six Earn Graduation Honors

"It is not the responsibility of your supervisor or commander to maintain your technical proficiency at a high level. Each of you has a piece of the action," challenged guest speaker Maj. John C. Christopher, an instructor in the Logistics Division, Officer Training Department, at the Missile and Munitions Center and School. Maj. Christopher addressed a graduating class of 68 MMCS students Friday in the Redstone Arsenal Post Theater.

Six of the MMCS graduates received special recognition for outstanding academic performance in their respective courses. The honor graduates were: 2LT Peter J. Franz of Garden City, N.Y., with a 96.1 average in the Ammunition Officer course; SFC Klaus Geisler of the West German Air Force with a 96.5 average in Nike High Power Acquisition Radar and Radar Simulator Repair course; SGT Werner Hilde, also of the German Air Force, with a 94.3 average in Per-

GE Receives Pictorial Contract

The U.S. Army Missile Command has awarded to General Electric Company's Management

shing Guidance and Control Repair course; PFC Stephen N. Miller of Runnells, Iowa, with an 87.8 average in Nike Missile Repair course; PFC Richard L. Neusse of Memphis, Tenn., with a 90.4 average in HAWK Fire Control Repair course; and SP4 Timothy O. Saewert of Glendare, Wis., with a 99.1 average in Ammunition Storage course.

Three of the six honor graduates finished with overall scores high enough to qualify as Association of the Army (AUSA) Honor Graduates. Glewin Flowers, representing the Tennessee Valley Chapter of AUSA, presented the three honor graduates with a plaque commemorating their academic achievement. A graduate must achieve an average score of 96 out of a possible 100 to qualify for an AUSA award.

and Technical Services Department a \$408,979 contract for operation and maintenance of the Missile Command Pictorial Facility, located in Bldg. 4489, on Redstone Arsenal.

Under the contract General Electric will provide arsenal-wide pictorial support and will produce training, education and information films for the Army.

General Electric was low bidder on the formally advertised procurement.

Extending through Dec. 31, 1971, the contract is "under technical direction of the Assistant for Communications-Electronics, Arsenal Support Operations Directorate, and will be administered by the Missile Command's Procurement and Production Directorate.

William Gibbons, who has a staff of 23, is program manager for the pictorial facility.

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CWF Cage Rivals All Even

Civilian Welfare Fund basketball continued as a two-team race last week with MISD scoring a pair of wins to gain a share of the lead with the Corps of Engineers, winners of their only contest.

MISD had to fight all the way before subduing Missile Intelligence on Wednesday, 78-69, and came back two nights later to extend the winless streak of the Metrology Lab with a 81-54 victory. The Engineers upped their record to ten out of eleven with an impressive 87-53 win over the Directorate of Individual Training.

DIT had been victorious in an earlier game with Metrology, 66-46, and Research and Engineering took Safeguard, 69-54, to complete the Wednesday evening bill. The third Friday contest saw Safeguard ease by Missile Intelligence, 51-48.

MISD gets a chance to move out front this week with a pair of contests against Engineering QA. The Engineers open tonight's card with Metrology as their opposition, and Safeguard takes on DIT following the first MISD-QA affair.

On Friday MIA goes against DIT in the opener followed by a game between Safeguard and Metrology. The return MISD-QA matchup completes the Friday triple bill at the Joe Bradley School gym.

MISD led from the start in their first win but never by more than a few points as MIA fought desperately to spring an upset. Jim Bunnell set the winning pace with 24 points while Phil Shepherd tossed in 27 for the losers.

Elliott Agee and Fred Smith took care of most of the scoring in the

win over Metrology with the former hitting for 33 and the latter tossing in 25 more. Ken Magnant was high for Metrology with 16.

The Engineers got scoring from nine different players in racing to their win over DIT. Jerry Dooley was high with 24 while George Edwards hit with 16 for the Missile School five.

In the earlier win for against Metrology, the School team got well balanced scoring with Dan

Foster counting for 11 points and Edwards and Paul Fulda getting one less apiece. Jay Findley was high for the Labmen with 12.

Steve Smith fired R&E to their win over Safeguard with a 20-point outburst while Jerry Reeves was collecting 17 in the losing cause.

Reeves came back with 16 and John Rayford duplicated as Safeguard captured win number five from MIA. Gary Moore tossed in 18 points for the losers and Shepherd collected 14 more.

Jordan Claims Bowling Honor

Alonzo Jordan and Bob Faust topped individual scoring and the King Pins maintained their slim hold on first place in S&M Bowling League action last week.

Jordan earned Bowler of the Week acclaim with his handicapped total of 632 in a losing effort for the U-Tote-Um Grocers while Faust turned in the best scratch total in downing 557 maples to lead the way for a Pinspotter sweep of the Reba Bowling Apparel five.

On the team front of the Auto Center by a single point when each took three out of four. Mike Henriksen shot a 544 and got plenty of help from John Howard, Mel Webb and Mel White in the defeat of Lotta-Pins.

The Auto Center took their three from U-Tote-Um as Ray Whalen rapped the Playmor maples for a 533 total and Jim Evett led the supporting cast. Ollie Graves and Jordan were the

leading Grocers.

The final match saw the first round winning Bushwackers take three of four from MID behind the lead of Jimmy Likos and Buck Wade.

Post Season Playoff Opens

The Civilian Welfare Fund's two entries in the Huntsville Women's basketball league set out in quest of the last half of the league's championships this week in the annual post-season playoff tournament.

The runner up Missile Command six was matched with RCA in the middle game of the Monday night triple bill following a clash between Safeguard and the regular season winning State Farm team.

Safeguard split even in ten regular season games to grab fourth place in the standings. MICOM won eight times while losing twice for their second place finish, a game behind State Farm.

The regular schedule ended last week with MICOM claiming a 65-32 win over Automatic Electric while Safeguard was edging RCA, 51-49.

Gladys Hill handled most of the MICOM scoring, hitting 31 points before Coach Bissinger took her out of the lineup at the start of the final period.

Joyce Ingram collected 17 points with a like number being distributed among four guards who were given a chance to break into the scoring column during the fourth period.

Linda Melton, accounted for six, Marina McClure and Carole Bissinger had four apiece and Helen Smith hit a goal and a foul for three points.

DIABETES MEETING

The Lay Diabetes Society will meet tomorrow at 7:30 p.m. in the Madison County Court House, Room 325.

H. Gene McDowell from the Rehabilitation Center will be the principal speaker.

Junior Shows Dad Who's The Bowler In Family

"Anything dad can do, I can do better," might sound like so much idle boasting, but there are times when Junior goes out and does just that.

One such time was last Wednesday and involved the Galbreaths, Jim the Elder and Jimmy, both of whom bowl for teams in the AMC Bowling League.

Jim started the ball rolling with a big 244 that led the league leading DeVaults to a rousing 1113 (1005 scratch). Junior's chance came about an hour later and he went pop a pin better in stringing out a 245 for the Raiders.

The DeVaults made their big game stand up for two points when the Rejectors came back take the other two games. In the final game Chuck Mount put together a 238 as the Rejectors totaled 1041.

Mount ended the evening with a 591 total while Galbreath (Sr.) totaled 279 and Al Stiles hit for 548 more DeVault maples.

Jimmy Galbreath ended the evening with a stack of 594, of the Parkway ten pins as the Raiders won all four points from the Sprinters. Mike Brown chipped in

with 537 as the Raiders had games of 1053 and 1054 and a 3058 series total. Art Frederick hit for 579 and Al Rossi chimed in with 549 for the Sprinters.

The Sheratons dropped another point off the DeVault pace in losing three to the Jim McBride-led Jokers and Monroe Bates stirred the T-Bird attack to a 3-1 win over the Metro Cals that moved them to withing two points of the In-keepers. Larry Ryan rapped a 545 for the Metro Cals.

The All Sports scored a sweep at the expense of the Bandits and the Cobras came within a half point of doing the same against the Wonders, as Chuck Turner levelled 545 maples.

In other matches the Bombers won three from the Alley Cats and the Tigers took the measure of the Tow Boys for another 3-1 win.

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Aikido Class Starts Soon

A beginning class in AIKIDO, a Japanese self-defense technique, is being formed in the local area and is open to military and civilian personnel of Redstone organizations.

The strenuous and exacting training will start in early February with classes on Monday and Wednesday evenings between the hours of 5 and 7.

Men between the ages of 21 and 39 who are in good health are invited to participate.

Additional information may be obtained by contacting Hugh Comfort, at 837-0580 (ext. 235), or Andy Kromis at 453-4192.



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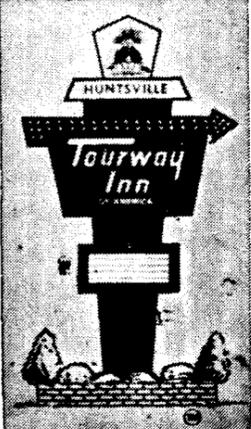
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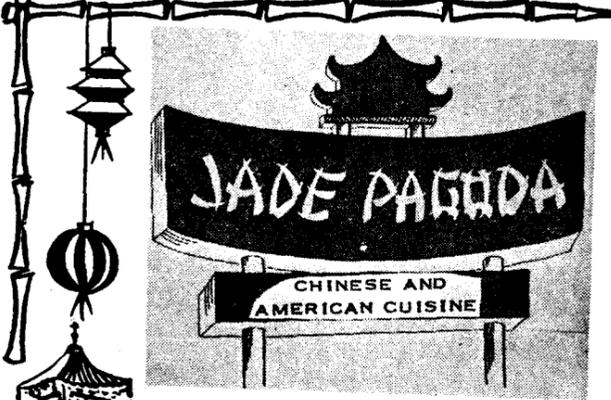
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By SP5 Bill Hayes

Though late January may find some leagues divided between a few winners and a lot of losers far out of contention for the league title, exciting action still remains among the Arsenal bowling leagues—well, at least some of them.

The tight shuffle among the School Brigade teams continued last week with Co. D and HHC tied for first place, closely trailed by Co. B, Co. A, and Retired teams, all within two points of the leaders.

Bob Harris of the Ammo Humpers rolled a 630 to set a new season high series for the league, but the Humpers still dropped three points to the Five Aces.

Sperry edged out the 5 Splits to take second place by a mere half point in the RSA Officers league, while Hardhats rolled a 945 scratch — 1072 handicap game against the first place Lucky Strikes. The Wheezers are hanging on in fourth place, two points behind the 5 Splits.

The Woodchoopers lead the EM Mixed league, with the Banditos driving on in second place. The Chargers and Bee Gees are each trying to elbow the other out of their mutual third place.

HIGHS AND LOWS

Joe Coston 564-221, Ralph Vance 583, John Goltz 581-223, Gary Sprinkle 562, Larry Makaanani 553, Delbert Blakesbe 555, Maxine Bean 562-204, Shirley Cromarte 540-235, Erna Schiro 553, Terry Makaanani 505-221, Fran Heishman 501, Lil Rodeen

RSA Youths In Come Back Try

The improving Redstone Arsenal 13-years-and-under basketball team won its third game in their last four outings in Huntsville Boys Club League action last week.

They defeated the Huntsville Boys Club Lakers, 26-22, in a low-scoring defensive battle. The victory raised the Redstone record to 3 wins and 7 losses, and left them 5½ games behind the league-leading Royals. Eight games remain in league competition.

David Samanigo, top Redstone scorer with a 13.0 average, led the win over the Lakers with 10 points, and David Hollingsworth swished 9 more. Steve Rishel, Redstone's big center, controlled the backboards with 16 rebounds, and added 4 points.

The Redstone entry, sponsored by the Youth Sports Program, started slowly, losing their first six games.

The team is coached by Captain W. T. Roberts of the Safeguard Logistics Command. Captain Roberts says continued improvement will make the Redstone five a tough opponent for contending teams in the final weeks of league competition.

500, Dave Atchison 585-227, Ed Grozynski 554, Tom Gilbreath 575-244, Willie Wiggins 547-211, Gordon Chalenburg 572-243, Larry Makaanani 571, Bob Taylor 552-206, R. Martin 576-214.

HUNTSVILLE CITY TOURNAMENT

Jim Arblaster and Bud Henderson, well-matched partners in the



BRAINSTORM—Today is "Suggestion Day" at the Arsenal Support Operations Directorate. Fred E. Judge, suggestion representative, pours out a flood of ideas with only a small amount of concentration, just to show how easy it is. Support Operations organizations are holding brainstorm sessions of get ideas moving. The object is to culminate the sessions with formal suggestions regarding better ways of doing the job. Suggestions will be submitted through the incentive awards program.

Huntsville City Tournament, held final weekend of the tournament identical total pin falls of 1790 in fourth place of doubles competition for all events. They enter the petition with 1240.

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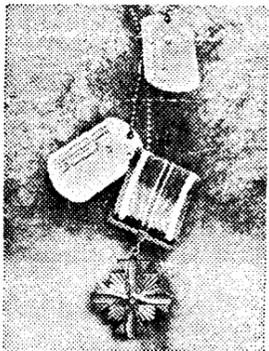
—Bruce Williamson, PLAYBOY

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—Joseph Morgenstern, NEWSWEEK



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4:40—7:03—9:26

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School Introduces Answering Service For Its Soldiers

A special 24-hour answering service designed to provide prompt answers to a soldier's personnel questions attempts to put a larger "personal" element in the Personnel Division at the Missile and Munitions Center and School.

The answering service, initiated yesterday, is designed to insure that an interim response be given within 24 hours to any personnel question asked by the individual MMCS soldier. The change is in keeping with the Modern All Volunteer Army concept outlined in a recent directive by Army Chief of Staff, General William C. Westmoreland. However, the idea to provide a means for the soldier to present his problem during non-duty hours is that of MMCS's Personnel Division.

During duty hours, 7 a.m. until 3:30 p.m., an individual who has a question can dial 876-7732. If the question is of a general nature, the caller is not required to give his name. If an answer cannot be given immediately, the questioner is instructed to leave a telephone number where he can be reached or to call back for an answer. Questions are answered as quickly as possible, often within 24 hours. If a final answer cannot be given within 24 hours, an interim answer is provided, explaining what research and procedures are necessary.

If reference to an individual's file is necessary, he will be invited to make a personal appearance at the personnel office for an interview. If the caller cannot come in person, he will receive an answer by other means. A personal interview is not mandatory.

During non-duty hours, 3:30 p.m. until 7 a.m., a questioner can dial 876-7732. His question and where he can be telephoned



RECORDS QUESTIONS—Mrs. Roberta R. Anzalone, Missile and Munitions Center and School personnel clerk, transcribes personnel questions telephoned in during non-duty hours and recorded by a recently installed telephone-answering device. Soldiers with personnel problems and questions may now dial 876-7732 twenty-four hours a day and receive prompt replies.

are recorded. Every two hours the Staff Duty Officer checks the recording device and the most recent questions. If he feels a questioner needs an immediate reply, he relays the question to either the personnel officer, the assistant personnel officer, the unit personnel technician, the personnel sergeant major, or the chief of the Personnel Management Branch. Less urgent questions will be answered the following duty day.

If a caller poses a question

which isn't a personnel matter, the office directs him to the person or department that can best help him.

The 24-hour answering service fills a previous communications void between the junior enlisted man and the MMCS Personnel Division. Now, no matter what the hour, a soldier with a problem that's worrying him can do something about it. That in itself may just mean he'll rest a lot easier.

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PROMAP-70 Results Affect Future Buys

Army Missile Command accomplishments in PROMAP-70, the Army's intensive effort to improve the way it buys hardware, have been reported for the past year, but the results are expected to influence weapon acquisition for years to come.

The program streamlines every facet of the weapons acquisition business—improved management, formation of new concepts in research and development, and procurement and product on practices.

The Army Materiel Command selected 50 different PROMAP-70 tasks, and the Missile Command participated to varying degrees in 47 of them.

The Missile Command, furnished the bulk of the team that performed the first Army "Should Cost" study, a careful and thorough review of what it should cost a contractor to produce a missile system. This provides contracting officers and negotiators with better data to

evaluate contractor proposals.

A request to furnish names of Missile Command people qualified in the cost estimating field resulted in more than 40 being named for a roster from which they could be selected to staff cost evaluating teams such as "Should Cost."

PROMAP 70

A reduction in non-essential reporting cut out 15 reports for the Missile Command plus three local reports that were cancelled. This represents an annual savings of \$18,930 for the Missile Command.

Forty-three training courses were identified in support of PROMAP-70. In FY 70 the numbers

trained, 397, more than doubled those in the previous year's program. By the end of FY 71, 1085 persons will have been trained in these 43 courses since PROMAP-70. With money shortages facing the Army, training personnel to do a better job becomes increasingly essential.

Improvements in the way In-Process Reviews of weapon systems are conducted resulted in

Wives Plan Lunch

The Redstone Officers Wives Club will have their monthly luncheon at the Officers Open Mess Tuesday, Feb. 9 at noon.

Lunch will be followed by a panel discussion on drug usage with four Huntsvillians as members of the panel.

Headquarters Missile Command, Liaison and Combat Development Command officers' wives are in charge. Mrs. E.J. McGinnis is the overall chairman.

Reservations deadline is noon Friday, Feb. 5, and are being taken by (A-F) Mrs. Richard Hart, 837-4264; (G-M) Mrs. William Shunk, 837-5846; (N-S) Mrs. Wayne Stoller, 837-6645; (T-Z) Mrs. Kenneth Moore, 837-2213. Mrs. David Gabardi, 837-5315, will accept cancellations until noon Monday, Feb. 8.

a substantial decrease in the number of days required to get approval of actions taken at the meetings. One review conducted on a missile system, using PROMAP-70 innovations, had all the necessary approvals within 22 days instead of the usual 60 days or more.

Through training and actual practice, Missile Command personnel realized the value of intelligent use of risk analysis.

The Missile Command was able

to share with other commands and agencies some of the innovations and good business practices pioneered at Redstone as they were exposed through the Army-wide effort. And in turn, the Missile Command learned what other Army elements were doing. That's what some officials call a cross-fertilization of ideas.

The term "PROMAP-70" may drop from Army nomenclature, but the intents and results have become part of everyday business.

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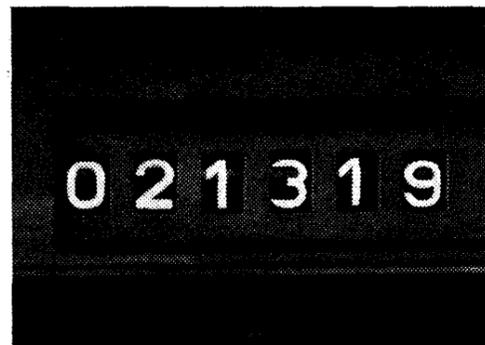
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NAMES IN THE NEWS

SP4 Jerry Berg

NEW COMMANDERS FOR TWO COMPANIES

Changes of command seem to be the "in" thing at MMCS lately. Last week two more companies said goodbye to their commanding officers and welcomed new ones aboard. Delta Co., commanded by CPT Dennis F. Roerty for the past 13 months, is now under the leadership of CPT Richard J. Raymont. The new CO is a recent arrival here from Aberdeen Proving Ground, Md. With five years of Army service behind him, Raymont is originally from Natrona Heights, Pa., and is a 1966 graduate of Pennsylvania State University.

Roerty will be staying in School Brigade, but switching to the job of S-2/3 officer.



CPT RUTHVEN

At the 3rd ETC, CPT Roderick M. Ruthven passed the reins of

leadership to his successor, CPT William L. Trimble, Jr. The new commander has been serving as assistant S-3 officer in School Brigade for the past eight months. Trimble entered the Army in 1964, has served overseas assignments in Korea and Vietnam, and has been awarded the Army Commendation Medal and Bronze Star Medal with two Oak Leaf Clusters.

FAREWELLS FOR TWO

CPT Ruthven will soon be departing for a tour in Vietnam, but doesn't know yet where he'll be assigned there. As a crowning touch to his 18 months of commanding the 3rd ETC, Ruthven was presented the Army Commendation Medal and cited for having no courts-martial and only one AWOL from the company during his tenure.

While we're on the subject of comings and goings around School Brigade, MAJ Thomas J. Kunhart will soon be on his way to Germany after two years at MMCS. During those years, Kunhart served in three capacities within the Brigade—S-1 officer, commander of 1st Battalion, and S-2/3 officer, his present job. His next assignment will be with headquarters, Theater Army Support Command, in Worms, Germany.



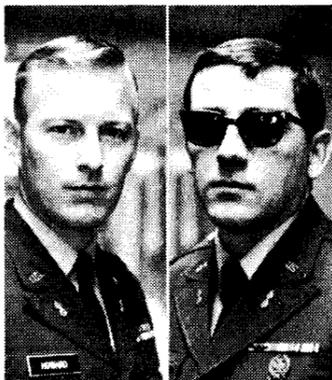
MAJ. LULL

LULL RECEIVES ARCOM

An ARCOM was also presented to MAJ Don F. Lull last

week for doing an outstanding job in three successive positions while stationed at Fort George G. Meade, Md. Lull served as executive officer of the 47th General Support Group, later stepped up to Group Commander, and finally was a project officer with Army Garrison at Fort Meade. Since reporting to MMCS, Lull has been commanding the School's EOD Training Detachment Number 1 at Indian Head.

Another new face on the MMCS scene is CPT Ronald J. Finkbeiner, who took over as Admin-Operations Division chief for DIT last Monday. Finkbeiner graduated from the Air Defense Officer's Advanced course at Fort Bliss, Tex., just before arriving here. His military background also includes duty in Germany and Vietnam. Among awards and decorations Finkbeiner has received are the ARCOM, the Air Medal with two Oak Leaf Clusters and the Bronze Star with one OLC. The captain hails from Bethlehem, Pa.



THE CAMPUS TOUR

A three-day staff orientation was held last week to acquaint recently assigned officers with



CW2 ANDREOLI

the ins and outs of MMCS's offices and directorates. Among officers taking the tour were CPT Michael P. Howard, CPT Jonathan C. Shepherd, and CW2 John W. Andreoli.

Howard has taken over duties as chief of Artillery Weapons Branch in Doctrine and New Materiel, having come here from Army Headquarters in Vietnam. Shepherd, whose last assignment was in Korea, is filling the S-4 position at USAUTC. Andreoli's job is operations officer for Nike Division, and he came here from a tour in Germany.

A WINNER FROM 1ST BATTALION

First Battalion came through once again in the Soldier of the Month department. PFC Warren L. Sponseller of Co. A came out on top among the four men who last week competed for the honor of being named outstanding trooper of MMCS during January.

Sponseller, a television specialist from TV Dept., will now face MICOM's best in the final round of competition—for Redstone Arsenal Soldier of the Month.

HAPPINESS

What is happiness? Among the many "Happiness is . . ." definitions, being promoted would certainly fall somewhere near the top. This week several MMCSers will enthusiastically bear witness to that definition. Four soldiers from USAUTC are wearing one stripe above what they did last week. Promoted to SP5 were David P. Cox, 90th Ord, David M. Kahlich, HHC, and Gerald D. Phelps, 200th Ord. Thomas M. Tucker of HHC, USAUTC, moved up to SP4.

Another set of SP5 stripes went to Emery E. Mitchamore of Co. D, who recently was cited as Redstone Arsenal Soldier of the Month for December, 1970. For making it to the top in the SOM race, Mitchamore received a \$25 cash award, a three-day pass, exemption from company duties for one month, and an all-expense-paid weekend at a leading Huntsville motel. If all that isn't worth trying for, what is?

Still another enlisted promotion was earned by Teddy M. Grigsby of Alpha Co., who is proudly wearing new SP4 stripes.

A set of shiny new captain's bars were pinned on Thomas M. Petry, an instructor in OTD, last Thursday. But, alas, Petry won't be around MMCS much longer—so congratulations and Bon Voyage to him as he sets off for an assignment with Military Advisory Group, Korea.

(A PERSONAL MESSAGE)



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In view of the increased popularity of the smaller economy car, we felt that we should add this type of car to the range of automobiles which we offer to our customers.

After careful consideration we decided that the MAZDA automobile, manufactured by Toyo Kogyo of Japan, would be the most suitable car in its field to complement the superlative Cadillac.

We invite you, therefore, to visit our showroom to see the wide range of MAZDA automobiles. These compact cars are fully equipped with features normally considered as extra cost items, including tinted glass, undercoating, white wall tires, etc. The only options are the radio, air conditioning and automatic transmission.

In particular we would like to commend to you the unique MAZDA R100 Coupe with the revolutionary new Wankel rotary engine. Eliminated are the pistons, connecting rods, the camshaft and valves. It has an incredibly smooth, powerful ride that has to be experienced to be believed. You MUST have a demonstration!

We have, of course, factory-trained technicians and an ample supply of parts to properly service these cars.

The MAZDA is an automobile of QUALITY and we are genuinely thrilled to offer it to you. We'll be looking for you.

Sincerely yours,

PRESIDENT

**WHEEL
ALIGNMENT**

\$5.88

(With This Ad)
(Reg. \$7.50 Value)

Fast Service - Expert Wheel
Mechanic

All Work Fully Guaranteed

**Tom Sharp Tire
Service**

2714 Clinton Ave. W.
DIAL 539-3482

Open 8:00 a.m. to 5:30 p.m.
6 DAYS A WEEK

**Joe Sartain
Auto Exchange**

2913 GOVERNORS DR. W.
PHONE 536-7421

"N. ALABAMA'S
INDEPENDENT VOLUME
DEALER"

**100 Cars
to Select From**

At All Times
Located Just East of Stone Jr. High

- WANTED -

USED CARS

We Pay Top Prices for All
Makes and Models . . .

Phone 837-4101 - 837-4595

WANT ADS

WANT AD RATES—\$2.50 minimum per weekly insertion, covering first 25 words. 5 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Vergie Robinson, P. O. Box 346, Room 908 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

1. For Rent

TWO BEDROOM—Two bath, furnished apartments, air condition, fully carpeted, convenient to Arsenal. Phone 837-6568-4411 Dayshell. **tf**

2. Cars

WE BUY CARS—Check with us before selling. Frank Clark Motors, corner Governor Drive & Jordan Lane, phone 837-3490. **tf**

3. Miscellaneous

MOTHER OF 2 desires full or part-time baby sitting in my home on Redstone Arsenal. Good location, call Mrs. Letterman, wife of SSG R. L. Letterman, 837-6442. **2-3-71**

BIRDIE'S ALTERATIONS Now open for business at 313 Jordan Lane NW. hrs. 8:00 A.M. —6:00 P.M. Phone 837-6251. **tf**

FOR SALE—Attractive gas and oil lease located short distance from proposed Wild Cat Well. For more information call 852-6991. **2-10-c**

Post Theatre

WED., Jan. 27

"The Undefeated" (G)

THURS.-FRI., Jan. 28-29

"Kelly's Heroes" (GP)

Showings at 5:45 and 8:30 p.m.

INCREASED ADMISSION: adults

.50, children .25

SAT., Jan. 30

Walt Disney's "The Computer

Wore Tennis Shoes" (G)

SUN.-MON., Jan. 31-Feb. 1

"Patton" (GP)

5. Houses, Lots-Sale

WANT YOUR HOUSE SOLD?—We want listings! We will provide personal attention, wide-spread advertising and discriminate showing at your convenience. Enlist retired military personnel to work for you. Call the Ingalls Agency 883-0110. Multiple-Listing Realtor. **tf**

The Redstone Rocket — January 27, 1971 Page 11

Showings at 5:45 and 8:30 p.m.

INCREASED ADMISSION: adults

.75, children .25

TUES., Feb. 2

"Tick . . . Tick . . . Tick" (G)

Two shows nightly at 6:00 and 8:30

p.m. except as noted above.

Sunday matinee at 2:00 p.m.

TYPEWRITERS

TYPEWRITERS

Typewriters, Typewriters, Typewriters Student Specials

Approx 1700 Manual Machines \$29.00 up

Approx. 360 Electric Machines \$89.00 up

All Machines must be sold. No reasonable offer refused!

PHONE 881-5510

HOUSE OF TYPEWRITERS

12879—So. Memorial Parkway

(Across From Farley Junior High)

TYPEWRITERS

TYPEWRITERS



ICE PALACE

402 GOVERNORS DRIVE

ICE PALACE PUBLIC SESSIONS

	A. M.	P. M.
TUESDAY		8:00 - 10:00
Wednesday	10:00 - 12:00	3:00 - 5:00
SPECIAL Thursday		8:00 - 10:00
RATES FOR Friday	10:00 - 12:00	8:00 - 10:00
SERVICE Saturday		3:00 - 5:00
MEN Sunday		8:00 - 10:00

Learn A Saleable Skill At Drake State Technical Trade School.

COURSE	MONTHS
Air Conditioning and Refrigeration	24
Auto Body Repair	24
Auto Mechanics	24
Barbering	12
Brick Masonry and Trowel Trades	12
Bookkeeping	18
Clerk Typing	12
Executive Secretarial Training	24
Commercial Foods	24
Cosmetology	12
Computer Programming	18
Key Punching	12
Electronics Technology	24
Household Appliance Repair	24
Offset Printing	24
Practical Electricity	24
Practical Nursing	12
Television, Radio Service, and Repair	24
Technical Drafting	24
Technical Welding	15

Requirements for Admission: High School graduate. Completion of the ninth grade for some courses.

Tuition: \$15 per month; plus incidental fees, books and tools.

Approved by: The Veterans Administration
State Department of Education—
Vocational Education Division
The Department of Health,
Education and Welfare

J. F. Drake State Technical Trade School

3421 Meridian St., Huntsville, Ala. 539-8161

BETTER BUYS BETTER SAVINGS!

You Always Do Better At . . .

HALE BROTHERS

DOWNTOWN HUNTSVILLE

In Furniture City

AT AUCTION

Saturday, Feb. 6, 1971 at 10:33 17/19 A.M.

THE MOST SOUGHT AFTER 123.6 ACRES LAND EVER SOLD FOR THE HIGH DOLLAR IN THE ROCKET CITY OF HUNTSVILLE, ALABAMA; BELONGING TO SCHRIMSHER ESTATE; WILL BE OFFERED IN TRACTS AND COMBINATIONS.

The property runs from the corner of Johnson Road down Leemans Ferry Road approximately 5,085' and joins the McAlister-Quinn Construction Company. It is located west of the old Huntsville-Madison County Airport, across the street from the new National Guard Armory, only three blocks from the beautiful Municipal Golf Course, two blocks west of Memorial Parkway, and one block south of Drake Avenue. This is excellent acreage in one of the busiest sections of Huntsville.

This property has been in the Schrimsher family for years and has been the most sought after property in this area. The Schrimsher Estate decided to sell the property after receiving several offers for portions of it. This is some of the best property this auction company has sold in the Rocket City of Huntsville in many days.

PROPERTY ZONED HEAVY INDUSTRY! ALL CITY UTILITIES AVAILABLE!

All the property is within the city limits of Huntsville and is well located for any kind of industry. It will be sold subject to all existing assessments. The land is practically all level, and all lots with the exception of three have excellent building sites. There are five tracts fronting Johnson Road and 23 tracts fronting Leemans Ferry Road. They range from 2.61 acres to 11.18 acres.

TRACT NO. 1: Consists of 6.82 acres, more or less, fronting 187.97' on Johnson Road.

TRACTS 2-5: Consists of 1.72 to 2.25 acres, fronting approximately 200' on Johnson Road.

TRACT NO. 6: Is a corner lot consisting of 1.89 acres, more or less, fronting 200' on Johnson Road and 459.75' on Leemans Ferry Road.

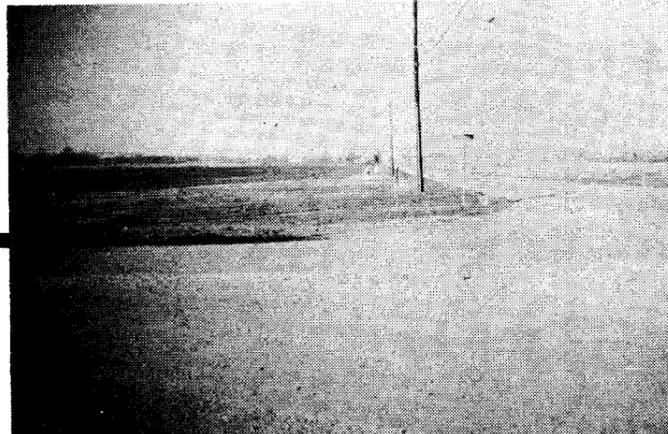
TRACT NO. 7: Consists of 3.13 acres, more or less, fronting 261.92' on Leemans Ferry Road.

TRACTS 8-10, 12, 13, 15, 17, 19, 20, 22, 24, 26 each consist of 2.61 acres, more or less, fronting 200' on Leemans Ferry Road.

TRACTS 11, 14, 16, 18, 21, 23, 25 range in size from 7.50 acres to 11.18 acres, more or less, and frontage of 200' to 350' on Leemans Ferry Road. There is a house, barn and other outbuildings located on Tract No. 16.

TRACTS 27 and 28 front 200' on Leemans Ferry Road and consist of 4.0 acres and 3.80 acres, more or less.

Make plans to be at this auction if you are alert to opportunity. What is choice and available today has a way of becoming rare and unavailable tomorrow. Nothing is available to compare with this site. It is going at auction, and it takes no specialized knowledge to see that this is the spot to make money.



Across the street from this property, the City of Huntsville has recently leased a portion of the old Huntsville-Madison County Airport property to the Public Safety Aviation Institute sponsored by the State of Alabama for the training of helicopter pilots and other helicopter personnel. The Institute will be in operation soon and this area will continue to grow. Any real estate man will tell you that the best investment is land on a good highway near a growing town. Growth is following our highways and as Huntsville continues to spill over old established boundary lines, this property will increase in value. Just think what this property may be worth 10 years from now.

TERMS: 25% down sale day, balance on or before 30 days.

POSSESSION: With delivery of deed.

SALE WILL BE HELD ON THE PREMISES, RAIN OR SHINE, SLEET OR SNOW!!!

FREE FREE \$100 Cash To Some Lucky Persons At Sale FREE FREE

FOR FURTHER INFORMATION, CONTACT

BOB KELLER

Realty & Auction Co.

110 South First Street — Pulaski, Tennessee

Telephone 363-2527, 363-4609, 363-5159

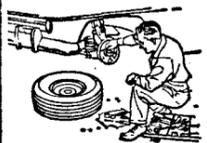
Tenn. License Nos. 41 and 259

ADAIR REALTY

Huntsville, Our Alabama Broker — Phone 539-8673

**DRIVE IN TO
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FOR DEPENDABLE
CAR SERVICE**

**GUARANTEED
BRAKE RELINE**



Here's what we do:
• Replace linings and shoes on all 4 wheels with new Firestone linings.
• Adjust brakes for full drum contact.
• Inspect drums, hydraulic system, return springs and grease seals.

\$24⁸⁸

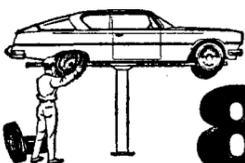
GUARANTEED 20,000 MILES OR 2 YEARS

We guarantee our brake lining for the useful life of your car or 20,000 miles, whichever comes first. This guarantee is void if you do not have your car inspected at intervals of 10,000 miles or 12 months, whichever comes first. Excludes all other types of linings.

Most Fords, Plymouths, Chevys, American compacts and light trucks. Others slightly higher. Disc brakes excluded.

COUPON OFFER

Tire Rotation



We'll rotate all 5 tires and check them for proper air pressure.

88¢

Most Cars
This Coupon Expires Jan. 30, 1971

COUPON OFFER

Front Wheel Bearing Repack



We'll repack outer bearings. Disc brakes excluded. Grease seals extra if needed.

88¢

This coupon expires Jan. 30, 1971

(WITH THIS COUPON)

Precision Wheel Balance



Prolongs the life of your tires. Easier handling.

\$1.88 per wheel

Coupon expires Jan. 30, 1971

COUPON OFFER

Brake Adjustment



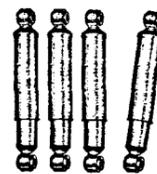
Let our skilled mechanics adjust your brakes.

88¢

Disc brakes excluded
This Coupon Expires Jan. 30, 1971
Most American Cars

COUPON OFFER

4th Shock Absorber



Buy 3 famous brand shock absorbers at our everyday price... get the 4th for only

88¢

This Coupon Expires Jan. 30, 1971

**DOUBLE-BELTED
GLASS^{or} RAYON
ORIGINAL EQUIPMENT TIRES**

YOUR CHOICE
Pneumatic Rubber Impregnated
GLASS
OR
DYNACOR RAYON

4 for \$99

E78-14 (7.35-14) Blackwalls

Plus \$2.35 per tire Fed. Excise tax and 4 tires off your car.

Firestone

DELUXE CHAMPION SUP-R-BELT

This great tire gives you years of extra mileage...better performance...and the wide look of the '70s!

- **TWO STABILIZER BELT PLYS** reduce tread scrubbing — major cause of tire wear — to give you thousands of extra miles.
- **LOW, WIDE 78 PROFILE** gives you quicker steering response and the new modern look of today's sleek low cars.
- **LARGER TREAD FOOTPRINT** gives extra traction where you need it most — on wet, slippery pavement.
- **GREATER PUNCTURE AND IMPACT RESISTANCE** double belted construction gives almost twice the impact resistance of ordinary tires.

All comparisons relate to previous Firestone Deluxe Champion tire.

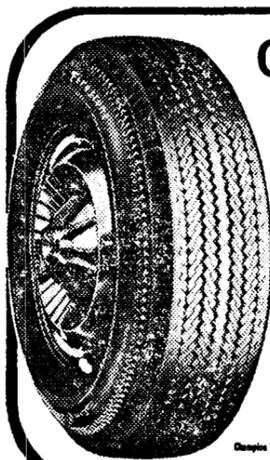
SIZE	FITS MANY	BLACKWALLS	2-Stripe WHITEWALLS	Fed. Excise Tax (Per Tire)
E78-14 (7.35-14)	AMX's, Barracudas, Belvederes, Camaros, Chevy II's, Chevelles, Cougars, Darts, F-85's, Fairlanes, Montegos, Mustangs, Firebirds, Rebels, Tempests, etc.	4 for \$99	4 for \$125	\$2.35
F78-15 (7.75-15)	Chevys, Dodges, Fords, Plymouths.	4 for \$117	4 for \$133	\$2.61
G78-15 (8.25-15)	Chevys, Dodges, Fords, Mercurys, Plymouths, Pontiacs, T-Birds.	4 for \$128	4 for \$146	\$2.77
H78-15 (8.55-15)	Buicks, Chryslers, Mercurys, Olds, T-Birds, Plymouths, Pontiacs.	4 for \$140	4 for \$160	\$2.98

Proportionately low prices on singles and pairs.

All prices PLUS taxes and 4 tires off your car.

If we should sell out of your size, a "raincheck" will be issued, assuring later delivery at the advertised price.

Drive in today...3 ways to charge...



Outstanding quality at low everyday prices!

Firestone CHAMPION

Full 4-ply nylon cord body

A great economy tire value that will deliver excellent mileage... you can depend on Firestone quality, even at these low prices!

7.75-15 Blackwall \$16⁷⁵ <small>Fed. Tax 2.19</small>	5.60-15 Blackwall \$15⁷⁰ <small>\$1.75 Fed. Ex. tax</small>	7.35-14 Blackwall \$15⁷⁰ <small>\$2.04 Fed. Ex. tax</small>
7.75-14 Blackwall \$16⁷⁵ <small>\$2.17 or \$2.19 Fed. Ex. tax</small>	8.25-14 or 8.15-15 Blackwall \$18⁸⁵ <small>\$2.33 or \$2.35 Fed. Ex. tax</small>	8.55-14 or 8.45-15 Blackwall \$20⁹⁵ <small>\$2.53 Fed. Ex. tax</small>
<small>All prices PLUS taxes and tire off your car.</small>		
WHITWALLS ADD \$3.00		

Priced as shown at Firestone Stores. Competitively priced at Firestone Dealers and at all service stations displaying the Firestone sign.

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