

# The Redstone Rocket

Published by Jack W. Hoffhaus, Hartselle, Ala., a private individual in no way connected with the Department of the Army. Opinions expressed by the publishers and writers herein are their own and are not to be considered an official expression by the Department of the Army. The appearance of advertisements in this publication does not constitute an endorsement by the Department of the Army of the products or services advertised.

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AUGUST 21, 1968

Arsenal-Wide

Spot News

Dial 112

## Lt. Gen. Starbird To Be Honored By AUSA

### C. E. Richardson Gets Highest Civilian Award

The Department of the Army has presented its Decoration for Exceptional Civilian Service to C. E. Richardson, Chief Engineer of the U. S. Army Sentinel System Command at Redstone Arsenal. The decoration is the Army's highest civilian award.

Richardson received the award



C. E. RICHARDSON

in recognition of his work as Chief Engineer of the Army's Nike-X anti-missile missile project during the period from January 1966 to October 1967.

The Nike-X Project was the predecessor of the Sentinel Ballistic

Missile Defense System approved for deployment last September.

Richardson was honored for significant contributions to the government's decision to make a "thin" deployment of the missile defense in the face of the nuclear-armed intercontinental ballistic missile threat being developed by the Communist Chinese.

He was cited specifically for gathering, collating and presenting all the data introduced into the approved deployment concept for the system.

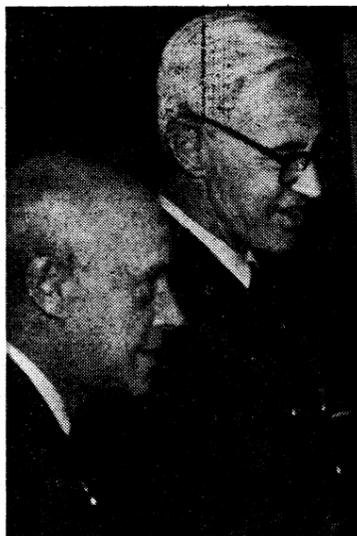
The 43-year old Richardson is a veteran of 16 years in Army missile programs.

He joined the anti-missile missile program in 1958 and was named Deputy Project Manager for National Range Operations of the Nike-X Project in 1964. In 1965, he was appointed Chief Engineer of the Nike-X Project and served in that capacity until the Sentinel System Command was activated in November of 1967.

Richardson attended the Georgia Institute of technology and later graduated from Auburn University with a degree in electrical engineering. He is also a graduate of the Advanced Management Program at Harvard University.

A native of Aliceville, Richardson is the son of Mr. and Mrs. C. E. Richardson, Sr., now residing in Tuscaloosa, Alabama.

He is married to the former Beth Hill of Montgomery, Alabama, and the couple have two children.



General Starbird with System Command Chief of Staff, Col. J. W. Walters (left).

### Sentinel System Manager Visits On Arsenal Today

Lt. Gen. Alfred D. Starbird, Sentinel System Manager, will be the guest of honor at a reception today at the Redstone Arsenal Officers Open Mess by the Tennessee Valley Chapter of the Association of the United States Army.

General Starbird is also Commanding General of the Sentinel System Organization which includes the Sentinel System Command at Redstone Arsenal.

The reception will be General Starbird's first public appearance in Huntsville since he was named to head the missile defense program in November of 1967. His headquarters is at the Sentinel System Office in Alexandria, Va.

The System Command at Red-

stone Arsenal, headed by Brig. Gen. I.O. Drewry, is the largest element in General Starbird's organization.

Brig. Gen. Robert B. Spragins, (USA Ret.) president of the local chapter of AUSA, will be host for the reception. Among the invited guests are military and civic officials from Redstone Arsenal, Huntsville and Madison County.

Also invited to the reception are members of a Defense Science Board panel which is meeting at the System Command Wednesday and Thursday.

General Starbird is a native of Fort Sill, Okla., and the son of an Army Brigadier General. He (See STARBIRD on Page 2)

### Short Courses To Be Offered In Huntsville

Nine short courses designed for clerical, supervisory, middle management and executive personnel will be open to Missile Command employees during the remainder of 1968.

The Training and Development Division of the Civilian Personnel Office reported last week that it had made arrangements with the U. S. Civil Service Commission to conduct these courses in the Huntsville area to reduce the cost for the government and to make the courses more convenient for Arsenal employees.

Additional information on the (See SHORT COURSES on Page 2)

### Local Hospital Included In Transfer To CONARC

Redstone Army Hospital is one of two Army Materiel Command hospitals which will be transferred to operational control of the Continental Army Command effective September 1. Included in the transfer are the hospital at Dugway Proving Grounds, Utah, and nine dispensaries elsewhere.

The change is part of an overall plan transferring most of the Army medical facilities in the United States to Continental Army Command. The Command is able to offer back-up support and regional organization supervisory capabilities to the other Commands.

Col. Ernest M. Bralley, Jr., is Commanding Officer of the Redstone Army Hospital.

### Bloodmobile Will Be Here Friday

The Red Cross Bloodmobile will visit the Arsenal Friday. Blood donations will be accepted from 11 a.m. to 5 p.m. at the Post Service Club, building 3711.

This visit is primarily for the troops at the Missile and Munitions Center and School, but anyone who was unable to donate last week is invited to give blood Friday.

### New Design Verified For Gyro

Army Missile Command engineers have concluded tests and verified the design of a new laser gyroscope said to represent a substantial advancement in the state of the art.

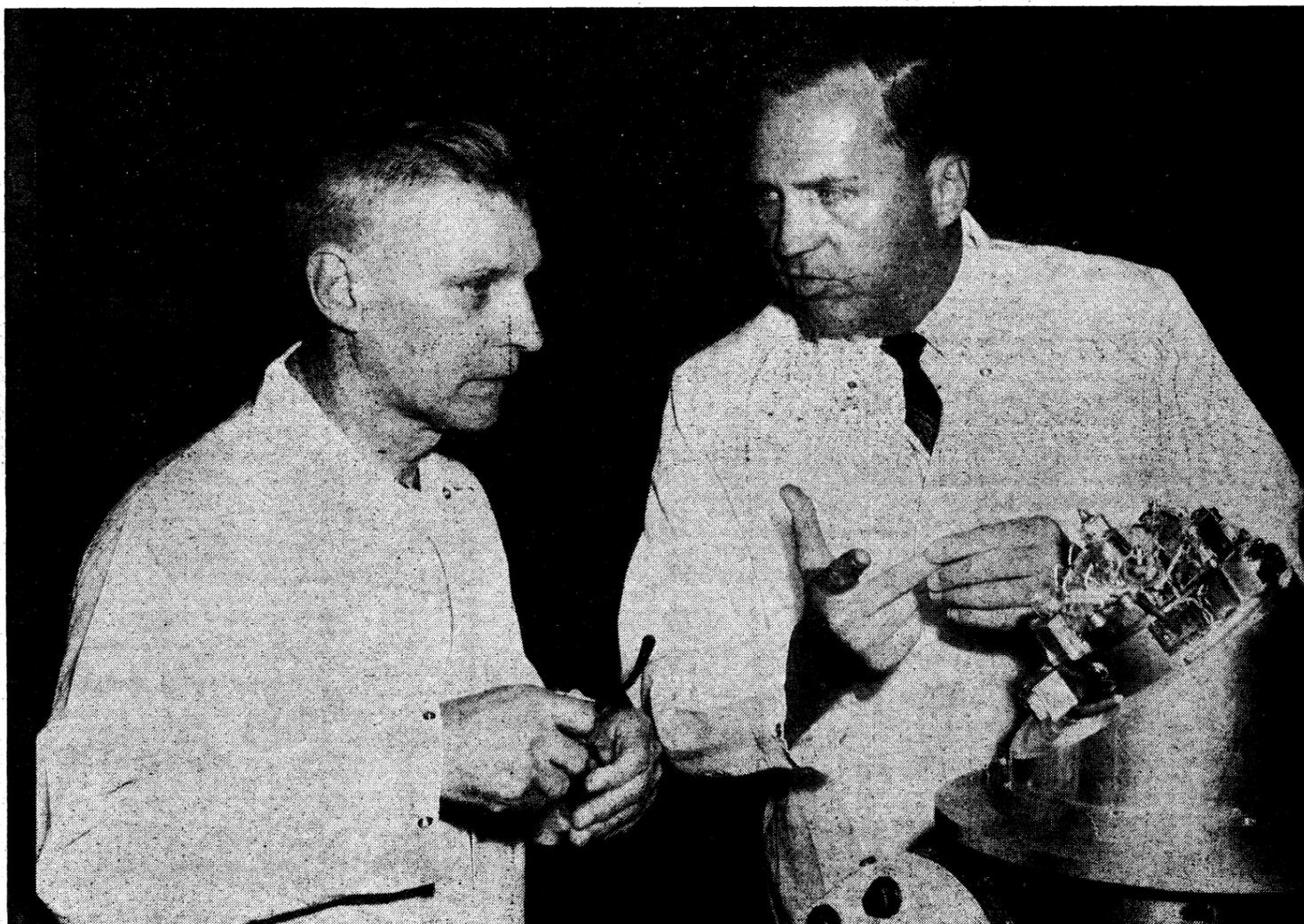
Called a Laser Angular Rate Sensor, the gyro could be employed to stabilize high performance missiles in flight.

Army officials say the three-axis spherical quartz laser gyro can operate under stress of several hundred g's. Heart of the package is three helium-neon gas lasers designed to sense a missile's roll, pitch and yaw characteristics and relay the information to the missile flight control system for correction.

Honeywell's Aeronautical Division developed the gyro under contract to the Missile Command which served as executive agent for the Advanced Research Projects Agency in Washington.

At Redstone Arsenal, the gyro was subjected to vibration tests by the Missile Command's Test and Reliability Evaluation Laboratory, Research and Development Directorate. These tests were the last in a series of qualification tests which verified the design.

The Inertial Guidance and Control (See NEW DESIGN on Page 2)



TESTING LASER GYRO—Maj. Gen. Charles W. Eifler (left), looks at a new laser gyro during recent tests at Redstone Arsenal. Explaining the system is James V. Johnston, aerospace engineer with

the Missile Command's Inertial Guidance and Control Lab and Center. The gyro is said to represent a substantial advancement in the state of the art.

# The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the information Office, Army Missile Command, Redstone Arsenal, Ala., 35809 Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, P. O. Box 346, Huntsville, Ala., 35804, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wantads—is noon of Friday before publication.

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

## Rocket Ruminations

Some phrase that with the public took  
Was all he read of any book.

—Hannah More

## You Are The One

Wouldn't you think people would finally "get the word" about highway safety? With all the command bulletins and lectures, newspaper stories, advertisements, and radio and TV spots that continually emphasize safe driving, you'd think the traffic death rate would decrease.

But, there's always that 10 per cent—the ones who either don't pay any attention to the warnings or figure they can't possibly apply to them.

Well, it would sure be nice if those guys paid some attention so the three-day Labor Day weekend this year wouldn't turn into another motorized slaughter. How many of the 604 people who were killed in traffic accidents last Labor Day weekend didn't heed the warnings



or were confident that tragedy would hit the other guys but not them.

Unfortunately, people don't change much. There's going to be a needless slaughter on the highways again this year because people just don't pay attention to cold, hard facts.

They are going to try and travel too far, too fast, and to do too much in three short days. They're going to try and cram everything they've missed all summer into one last holiday fling—and for many of them it will be their last fling.

If they would only use their heads—if they just wouldn't enjoy themselves to the point of exhaustion so they're really too tired to drive long distances at high speeds. If they just wouldn't take that one small chance to save a couple of minutes—and end up losing everything.

But you've been saying that all along—if only people would learn. If they would just be like you, everything would be OK—they would remember to drive defensively and watch out for the other guy.

Well, remember, to everyone else, YOU are the other guy, the one to watch out for, the one that creates the problems—the one who will be a traffic statistic.

If you aren't careful, they will be right. (AFPS)



**SCOUTS KICK OFF ROUNDUP**—AT a Redstone Arsenal picnic area the Tennessee Valley Council Boy Scouts of America began the 1968 roundup with a supper barbecue hosted by Col. J. N. Jean, Director of the Arsenal Support Operations Directorate and Council Roundup Chairman. The Roundup will culminate with the Awards Ceremony at Redstone Arsenal which is expected to be attended by 2,500 Scouts and leaders. Talking over Roundup agenda ahead of the Kick-off are, from left, Dr. E. J. Chenault, Scout Council President; Col. Jean; and Lt. Col. M. R. Thome, Commanding Officer of the Unit Training Command, Missile & Munitions Center & School, who was master of ceremonies of the Kick-off meeting.

## LT. GEN. STARBIRD

(Continued From Page 1)

is a graduate of the U. S. Military Academy at West Point and was a member of the U. S. Olympic Pentathlon Team in 1936.

Since 1960 he has served successively as Director, Division of Military Applications, Atomic Energy Commission; Division Engineer for the Corps of Engineers Northern Pacific Division; Special Assistant to the Chief of Engineers in Washington; and Commander of Joint Task Force Eight which conducted U. S. atomic tests in the Pacific. Immediately prior to being named Sentinel System Manager he was Director of the Defense Communications Agency in Washington.

## NEW DESIGN

(Continued From Page 1)

trol Laboratory designed the vibration test fixture and furnished technical consultation throughout the development effort.

Managing the program was the Missile Command's Advanced Research Projects Division.

Test engineers say the laser sensor will offer longer life and greater operating simplicity than conventional sensors along with superior capability to perform in more severe environments.

## SHORT COURSES

(Continued From Page 1)

courses will be sent to supervisors. Barbara Combs in the Training and Development Division, 876-5801, will also answer questions on the courses.

The courses include:  
Advanced Secretarial Techniques, Oct. 30-Nov. 1.

Basic Management Techniques I, Sept. 30-Oct. 4, and Dec. 2-6  
Basic Management Techniques II, Sept. 16-20.

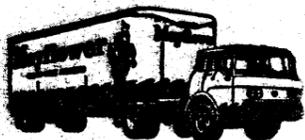
Financial Management for Program Administrators, Dec. 16-20.  
Management and Group Performance, Oct. 21-25.

Management Institute, Dec. 9-13.  
Psychology and Management of Human Resources, Oct. 15-17.

Management Orientation in Planning, Programming and Budgeting Systems, Sep. 24-25.

Management of Engineering and Scientific Organization, Nov. 18-22.

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## Special Label Gets Fast Action

Ft. Belvoir, Va. — A special "Vietnam War Action" Label is being used within the Army's Combat Developments Command (CDC) to insure prompt action on important matters pertaining to the conflict.

The distinctive green label, illustrated with combat insignia, carries the principal message, "Give This Action The Attention The War Deserves." It is used as a

cover sheet attached to documents concerning the war.

The purpose of the label is to provide a quick reminder and a sense of urgency in assisting the war effort. CDC states that the label is not intended to force the delay or deferral of other matters being processed within the Command, but to insure that proper attention and appropriate priority is given to all Vietnam actions.

While the label is seen in the CDC offices where tactical and logistics doctrine is developed and matched with the proper Army organization, it is also in evidence in the CDC Materiel Directorate.

It is especially associated with the Army's Ensure program. This "decodes" as Expedites Non-standard Urgent Requirement for Equipment needed for Vietnam.

The CDC War-action label further assures that the ideas and items get to Vietnam without delay.

## Flyers Mailed For Next Fair

The Army Missile Command will hold a day-long Procurement Fair Septemeber 4, at Redstone Arsenal, in Bldg. 4488, the site of previous Fairs. The event begins at 8:30 a.m.

The Fairs are planned so that qualified industrialists may visit the Missile Command and examine current procurement requirements at one time and in one place. Procurement personnel will be on hand to answer questions and explain procedures.

Flyers are being mailed to contractors announcing the Fair.

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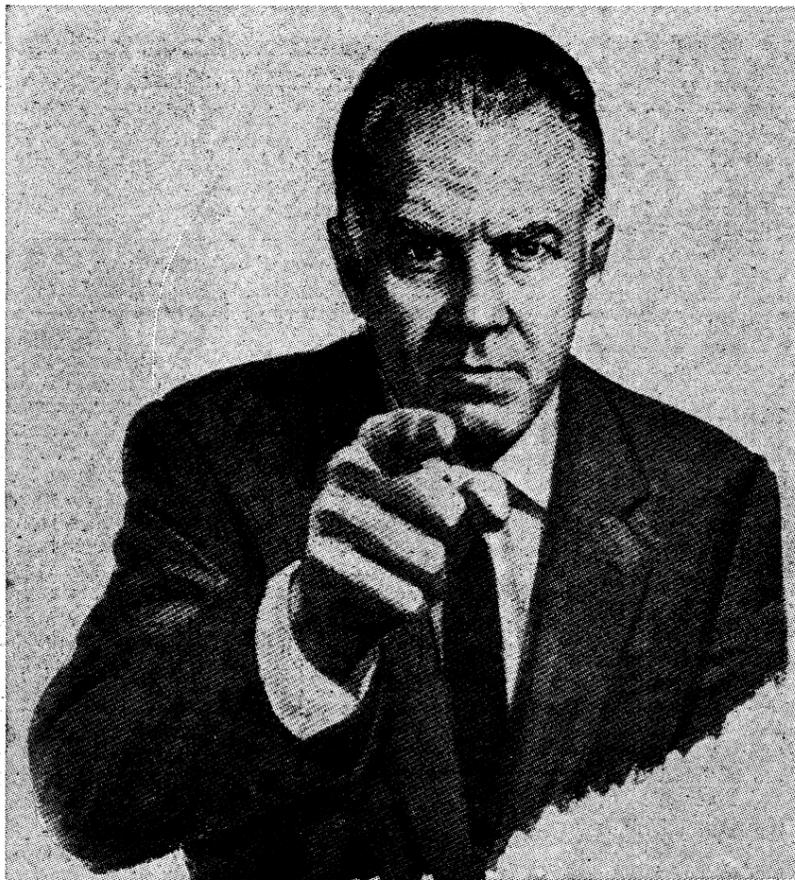
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**NAMES IN THE NEWS**

by *SPA Mike McKenzie*

Six and eight are key figures for Spec. 5 Robert E. Fields and Spec. 5 Ronald L. Treusdell. Each has re-enlisted for six years and received variable bonuses in excess of \$8,000. Other re-ups reported are SFC A. R. Logsdan and Spec. 4 Don J. Welch.

Spec. 5 Treusdell, from Company D, took the oath from Lt. Col. R. E. Teal, director of Land Combat Department, and Treusdell's wife Sandy was standing by to latch onto the check for \$8,350! Treus-



**FIELDS TREUSDELL**

dell is an instructor in land combat support systems and he now plans to apply for Artillery Officer Candidate School.

Spec. 5 Fields was sworn in anew by his commander at Company A, Capt. Walter Cannon, and received a bonus of \$8,361 ("and I don't remember the cents"). Spec. 5 Fields will continue in maintenance of the Hawk missile with specialization in the inertial guidance and launcher systems. He has served 19 months in Korea and will soon leave for Vietnam. Both Spec. 5 Treusdell and Spec. 5 Fields took their missile training here at MMCS.

For Sgt. Logsdan, it marked the seventh raising of the right hand in a span of 22 years. He started in the Navy during World War II and joined the Army in 1947.



**LOGSDEN**

David, 23, a graduate of the University of Alabama—just last week joined an Artillery unit in Vietnam.

Spec. 4 Welch of the 6th Enlisted Training Company (ETC), formerly a student in Nike acquisition radar and computer, received nearly \$1,000 for taking on an additional three-year commitment from his commander, 1st Lt. David Willenborg.

Several MMCS personnel were in

line for awards recently in the office of the commandant, Col. Paul B. Schuppener. Maj. George Ingram, instructor in Officer Training Department (OTD), received the Bronze Star medal. Maj. Raymond Weinberg, Directorate of Logistics, was decorated with the Joint Service Commendation medal.

Army Commendation medals went to Capt. John K. Schroder, munitions division of OTD; CWO Paul G. Kremer, retired missile technician from Non-resident Instruction Department; and SFC Horace Jackson, retired assault weapons instructor in Doctrine and New Materiel.

A number of civilians also received recognition at the gathering. Sam Arnold, Television Department, was awarded a certificate of achievement. Sustained superior performance awards were given to Harry Duke, Jr., and Seymour Garner both of Land Combat Department and Mary Rice of OTD. Earning outstanding performance ratings were Vaughn Davison, the school's senior educational advisor; Fred Lucero of Air Defense Department; and Mabron Smith, education specialist in Training Branch.

Two new commanding officers have appeared at the company level this month. At the 227th Ordnance Detachment, 1st Lt. William M. Blackburn took the guidon from 1st Lt. Charles J. King, who has ended his time in service. Lt. Blackburn, who formerly commanded the 8th ETC just completed the ammunition officer course here.

The other changeover was at 4th ETC where 2nd Lt. Meredith T. Tomlinson, Jr., moved into the place of 1st Lt. D. L. Flattum, who has also been discharged. Lt. Tomlinson has completed the missile maintenance officer course.

Some promotions called to our attention include 1st Lt. Timothy F. Law, a supply officer at Unit Training Command; CWO (W-4) Philip H. Stessel, a technical writer in DIT; and CWO (W-2) Joseph J. Pinto, a nuclear weapons maintenance technician in Operations.

Col. Schuppener also had a unique privilege recently when a WAC attending the television applications course here earned promotion while on temporary duty from Fort McClellan, Ala. Maj. Dorothy M. Gorlicki received the gold leaf of her new rank from



**MAMA PINS DAUGHTER**—A rarity occurred recently at the Missile and Munitions Center and School when a WAC received promotion while on temporary duty assignment from Ft. McClellan. Maj. Dorothy Gorlicki is pinned with the gold leaf insignia by her mother, Mrs. Sally Gorlicki, who flew in from Chicago for the event.

Col. Schuppener and her mother, Mrs. Sally Gorlicki of Chicago, Ill., who was on hand for the special occasion.

Other names in the news: Spec. 4 William Pettipiece received a letter of commendation from Lt. Col. James O. Haddock in the maintenance department of Logistics . . . 10 persons were recognized by Lt. Col. Martin K. Marsh in Non-resident Instruction for conserving sick leave — Charlie Hallman James Corlew, Curtis Vandegrift, Yvonne Gibbons, David Graham, James Smith, William Sloan, Thomas Rivers, Donald Linger and Goldie Patrick . . . 1st Lt. David Coombe and his wife, Elizabeth, recently welcomed their

second son, Michael David, into the world.

Lt. Coombe is a project officer in Training Branch . . . Dr. Joseph Stoffel, the deputy chief of Maintenance Branch was called upon to speak at Berry College's National Law Enforcement Academy in Miami, Fla. . . his topic: "Home-made Bombs and Fire Devices . . . Edmond Falconbury, chief of Advanced Subjects Division, spoke to the Youth Opportunities Committee in a meeting at Missile Command. He reviewed training opportunities for youth in technical and vocational fields, specifically mentioning on-the-job, technical high school, trade school and adult extension courses.

**Contract Awarded To Thiokol Corp. For Sprint Work**

The Thiokol Chemical Corp. has been awarded a contract by the Army's Sentinel System Command at Redstone Arsenal to conduct a one-year development program on a propellant for the Sprint missile. The Sprint is a bullet-fast interceptor missile being developed for the Sentinel ballistic missile defense system to engage attacking ICBM warheads in flight.

Under the \$1,268,429 contract, Thiokol will engage in the development of a solid propellant for use in both the first and second stages of the missile.

The development work, including the static (non-flight) test firing of ten motors, will be conducted by Thiokol's Huntsville Division.

The Sprint is a 27-foot-long cone-shaped missile designed for high acceleration flight and short range intercepts of incoming missiles.

Hercules Inc., Wilmington, Del., developed the Sprint propulsion system and continues as the sole supplier of Sprint flight motors.

The contract was signed by the Sentinel System Command's Contracts Office and the Thiokol development program and will be monitored by the Missiles Branch of the Research, Development, Test and Evaluation Directorate's Development Engineering Division.

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**COL. ROBINSON HONORED**—Lt. Col. Robert A. Robinson, Jr., smiles approvingly while receiving the Legion of Merit in a ceremony at the Army Missile Command. Presenting the medal is Maj. Gen. Charles W. Eifler, Commanding General of the Missile Command, while Mrs. Robinson looks on. Col. Robinson was cited for "meritorious service" while serving as Executive Officer, Procurement and Production Directorate and later as Chief, Engineering and Quality Assurance Division.

**Judges Begin Considering Zero Defect Poster Ideas**

Preliminary judging in the Missile Command's Zero Defect Poster Contest began Monday.

More than 500 entries are being evaluated by the panel of 11 judges. Approximately 12 winners will be chosen and awarded a \$25 savings bond.

Winners of the contest will be announced in a special issue of "The Redstone Rocket" commemorating the third anniversary of the MICOM ZD program to be published Sept. 18.

A. A. Brackeen of the Quality and Reliability Management Office is chairman of the judging committee.

Other judges include: Robert L. Neumeyer, LaVon Hardin, Jane

Bryant, Delbert Harrison, Doris H. F. Nelson, Frances Sanford and Privett, Mary Hearn, W. W. King, Julia M. Smith.

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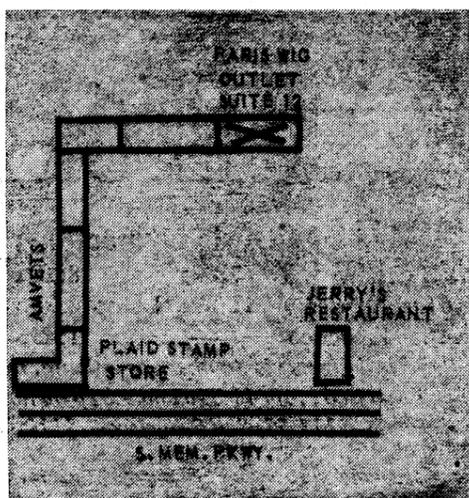
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# Military Netters Take Lead In All-Army Duel

## Shineflug Whips Bowden In Opener

The Army's two representatives in the Huntsville Industrial Tennis League squared off against one another in a nine-set match for the unofficial Redstone championship.

Only one of the sets have been played so far with Bob Shineflug getting the military netters off to a fast start by polishing off Chuck Bowden, the top singles threat of the civilian team. Lt. Shineflug took Bowden into camp with a 6-4, 6-3 win on Sunday.

The remaining five singles sets plus three tandem events will be played during this week and next.

The No. 2 player on the military team, Joe Rizo, is scheduled to have it out with Art Jones of the CWF team, and Lt. Wes Simmons will test Irv Kellogg in the No. 3 singles.

Col. Ken Van Auken, Jon Eickenberry and Glenn Ihrig complete the singles lineup for the soldiers and they will be pitted against Chuck McBrearty, Don Holder and George Elrod, respectively.

Bowden will have a chance to get back at Shineflug when he teams with McBrearty to take on Shineflug and Van Auken.

Rizo and Eickenberry are paired against Elrod and Jones while Simmons and Ihrig go against Kellogg and Joe Hiatt to complete the doubles pairings.

The military team captured the championship of the C Division of the Huntsville league in their first entry in outside competition. The CWF netters took runner up honors in B Division for the second straight year.

## Kyzer-Folks Duo Back In Golf Lead

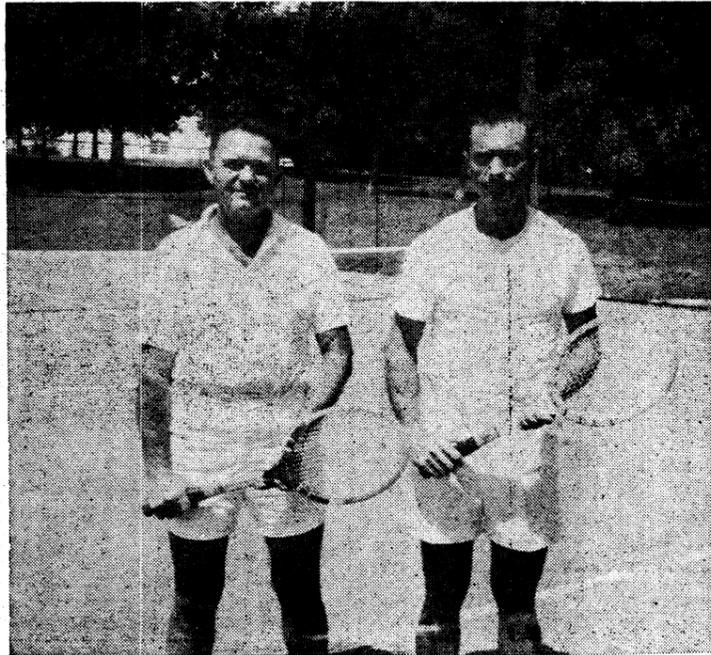
Smarting from the loss of the league lead the week before, Jim Kyzer and Fletcher Folks came roaring back to regain the top rung of the P&P Golf League ladder with a big assist from Les Fisk and Frank Green.

The latter combo doled out a blank to Harold Madry and Lloyd Chapman while the Kyzer-Folks tandem was winning five out of six from Bob and Ronnie Brand. The combination enabled Kyzer and Folks to take a single point advantage into the final two weeks of the season.

The third place team of Al Monger and Jim Anderson also came a cropper in dropping five points to Mark Wheat and Ray Kelley, who combined for a two under 106 to grab the weekly team award.

Howard Anders took low individual honors for the week with a 56 and Green had a 49 for low net honors. Tom Smith took the closest to the pin award for the week.

Bill Evans and Lee Keim trailed Andrews, each with a 60.



**CIVILIAN HOPEFULS**—Charles McBrearty and Chuck Bowden have been consistent point makers for the Civilian Welfare Fund Council tennis team that competed in the B Division of the Huntsville Industrial League this summer. Bowden held down the No. 1 singles position while McBrearty was the No. 4 player, in addition to teaming with Bowden in doubles. The CWF team took second place in their division for the second straight year with their only team loss being inflicted by the strong Marshall team.



**MILITARY ACE**—Bob Shineflug, a former University of Illinois player, is the No. 1 singles player on the Redstone Arsenal tennis team that captured the C Division championship of the Huntsville Industrial league this summer. Bob participated in the Alabama State Closed Championships in Huntsville last week where he and Joe Rizo captured the doubles crown. During the league season Shineflug won five of his six matches taking on the top player of the opposing team in each match.

## Police Seek Softball Sweep In Play-off Meet

A victory and two forfeits last week wrapped up the unit level softball regular season championship for the 291st MP's as the rest of the league fought for positions in the post-season tournament.

The Policemen outlasted fourth-place Company A, 11-8, then added two games to the victory column on forfeitures to run their record

to 27-2 with just two games remaining this week.

Second-place 6th Enlisted Training Company (ETC) lost what slim chance it had by dropping a 13-5 decision to Student Officer Company (SOC). The 6th bounced back against the Marines, 10-5, but stood three games off the pace with a 24-5 mark.

The regular schedule was completed yesterday and the only battle left was for the final spot in the tournament composed of the top eight teams. The Marines (16-13) and the 9th ETC (15-13) were knotted in the loss column for eighth place.

Rounding out the top seven be-

hind MP's and 6th ETC are Missile Command (MICOM) 27-7, Co. A 20-9, Unit Training Command (UTC) 19-10, Co. B 17-11, and 8th ETC 16-12. ETC are SOC 12-15, Co. D 12-16, Co. C 12-17, and 522nd Ordnance 9-20. The 5th-7th ETC (1-15), 3rd ETC (8-23), 1st-4th ETC (4-27) and 2nd ETC (2-29) were all dropped from the league.

### POOL TOURNAMENT

The Service Club will sponsor a Post Wide Pool Tournament Saturday, August 24 at 1400 hrs.

All enlisted men at Redstone Arsenal are invited to participate in the contest. Men will register for the event at 1:30 p.m. on Saturday.

A trophy will be awarded the winner of the tournament.

### SERVICE CLUB EVENTS

Two special events will be on the program at the Service Club Sunday, August 25.

At 5:30 p.m. a bus will transport enlisted men to the Ice Palace for a birthday party which will include free ice skating.

Tani's Variety Show will return for the regular monthly performance at 8:15 o'clock. New people added to the troupe for this performance are: The Singing Cowboy, Martha Delone, Jazz dancer, Go-Go Girtie and the two regulars, Tani and Terry Tyler.

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**DIRECTORATE CHAMPIONS**—LTC. Gene Budd handles the honors in presenting the championship and runner up trophies for the Second Missile Intelligence Open. The 72-hole medal play event attracted 24 golfers from the Directorate for play at the Redstone golf course. CPT Lawrence Donlin (next to Col. Budd) was the tournament winner edging Phil Blackwell. The latter was unable to attend the awards ceremony. Charles Bradburn (far right) took low gross honors with Conrad Eadon on a close second.

**Morris Pettit, Jr. Wins Two-Year Scholarship** Chattanooga. Pettit, who graduated from Butler High School in Huntsville, will be a junior this fall at the Tennessee school. He is majoring in education. Col. Pettit is Nike-Hercules Project Manager.

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### Contract Awarded To Litton Systems

A \$5 million contract has been awarded by the Missile Command to Litton Systems, Inc., for the third year buy of Battery Terminal Equipment. This is a new electronic data converter system for control and coordination of Army surface-to-air missile batteries throughout the world.

The Battery Terminal Equipment, designated the Data Converter, Coordinated Air Defense System, AN/GSA-77, was developed under the supervision of the Missile Command's Air Defense Control and Coordination Systems Office.

### Indebtedness Topic Today At MMCS Officers' Call

All commanders, executive officers and staff officers of School Brigade at the Missile and Munitions Center and School are required to attend an officers' call today.

The event will take place at 3 p.m. in the Brigade conference room of Building 3742. Captain Louis Haas of the Missile Command's Staff Judge Advocate office will speak on the Army's policy concerning indebtedness.

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## SERGEANT MISSILE . . .

## Tense Countdown For Mediterranean Firing

(EDITOR'S NOTE: The following story concerning the first Sergeant missile launched from the new NATO firing range on the island of Crete, is reprinted from the Stars and Stripes. The Sergeant program is managed by the Sergeant Project Office at the Army Missile Command. Lt. Col. A. G. Lange, Jr., is project manager.)

CRETE—The intercom crackles, and for a moment you watch as wind whips up whitecaps on the Mediterranean just off the Greek island of Crete.

"Twenty minutes and counting. . ."

Hurried activity on the launch pad has subsided somewhat, and a quiet tension has settled over the area.

Men of SETAF's 5th Bn, 30th Arty, are waiting for what some call "the tense twenty"—the 20-minute countdown prior to the launch command.

Lt. Col. Peter A. Abbruzzese and men of Btry B are here for a very special assignment — to fire the first Sergeant missile into the Mediterranean during annual service practice from this NATO missile firing installation.

For the battery and supporting personnel, the firing from Crete will culminate months of intensive training.

"Fifteen minutes and counting. . ."

The battery came to Crete by air, demonstrating the Sergeant system's air mobility. The flight from the staging area in Italy went smoothly — the organizational maintenance test station, 8½-ton launcher, trucks, equipment, vans, men, and the missile itself, all having been airlifted in a few short hours by Air Force cargo transports. Part of the loading and unloading operations were performed at night as further training.

"Twelve minutes and counting. . ."

For the past three days all of the unit's work procedures have been closely watched, marked and graded by officers and NCOs wearing red and yellow armbands marked FAMSEG, for Field Artillery Missile Systems Evaluation Group. It is their job to evaluate the battery's efficiency.

The team travels worldwide, checking units like this one. The top rated team in world competition receives the Sperry Trophy. Capt. Donald Sloan told his men that their chances of winning the trophy are good.

"Eight minutes and counting. . ."

Ordnance men in the battery's missile support section have done their job well, working all night troubleshooting the hydraulic system. When the sun came up this morning, the launcher was ready for business.

"Seven minutes and holding. . ."

At this point in the countdown an automatic hold is imposed, so a destruct package can be inserted into the missile. Should the Sergeant fly off course, it would be blown-up in flight. Stringent safety precautions are being observed by both firing battery and NATO range personnel. High on a mountain overlooking the launch area you see the range control center building surrounded by the tiny silhouettes of nearly 100 military observers waiting to see the Sergeant perform.

"Six minutes and counting. . ."

Less than an hour ago the Sergeant crew swooped down a long hill in convoy, setting the whole operation into motion. First came the launcher section. Like a huge steel grasshopper on wheels, it swung into an exact position and came to life. Prior to the launcher's arrival important groundwork had been completed by the Azimuth Orientation Unit, which, along with the firing section chief, marked out lines and established an Azimuth on which the launcher would be placed to orient the missile with its target. Watching the launcher crew unfold its equipment was like witnessing a well-rehearsed ballet troupe. Each step was directed by hand signals from the assistant firing section chief. The FAMSEG team was watching closely. The gas turbine generator set was started, and crew members inserted their earplugs to blot out

the high-pitched whine of the power generating turbine which would otherwise distract them.

"Four minutes and counting. . ."

Next, a transport tractor-trailer rig carrying the missile guidance section and the rocket motor swung into position alongside the launcher. Positioning of the rig is critical; the driver made a perfect approach.

Simultaneously a boom operator, who operates a hoist assembly, scrambled to the top of the launcher and quickly unfolded the framework which lifts the sections of the missile onto the launcher where they are locked together. At the same time other crew members opened large square containers to the rear of the launcher and removed guidance fins which were quickly positioned on the aft section of the missile. Piece by piece the men assembled the metal and

wire jigsaw puzzle with practiced precision as the bird took shape.

"Three minutes and counting. . ."

Inside a small cabin on the rear of the launcher, the firing set operator concentrated on racks of components and computers. Like on a million dollar pinball machine, the lights flashed and the memory banks hummed as the operator set about his solitary task. Into the hungry maze he fed the numerical formula which was electronically translated into a missile flight path.

This intelligence then flashed through wires and relays into the missile's guidance platform where it was recorded on a sophisticated tape deck. Once the missile is in flight this tape is the sole source of guidance information.

The fire control set operator

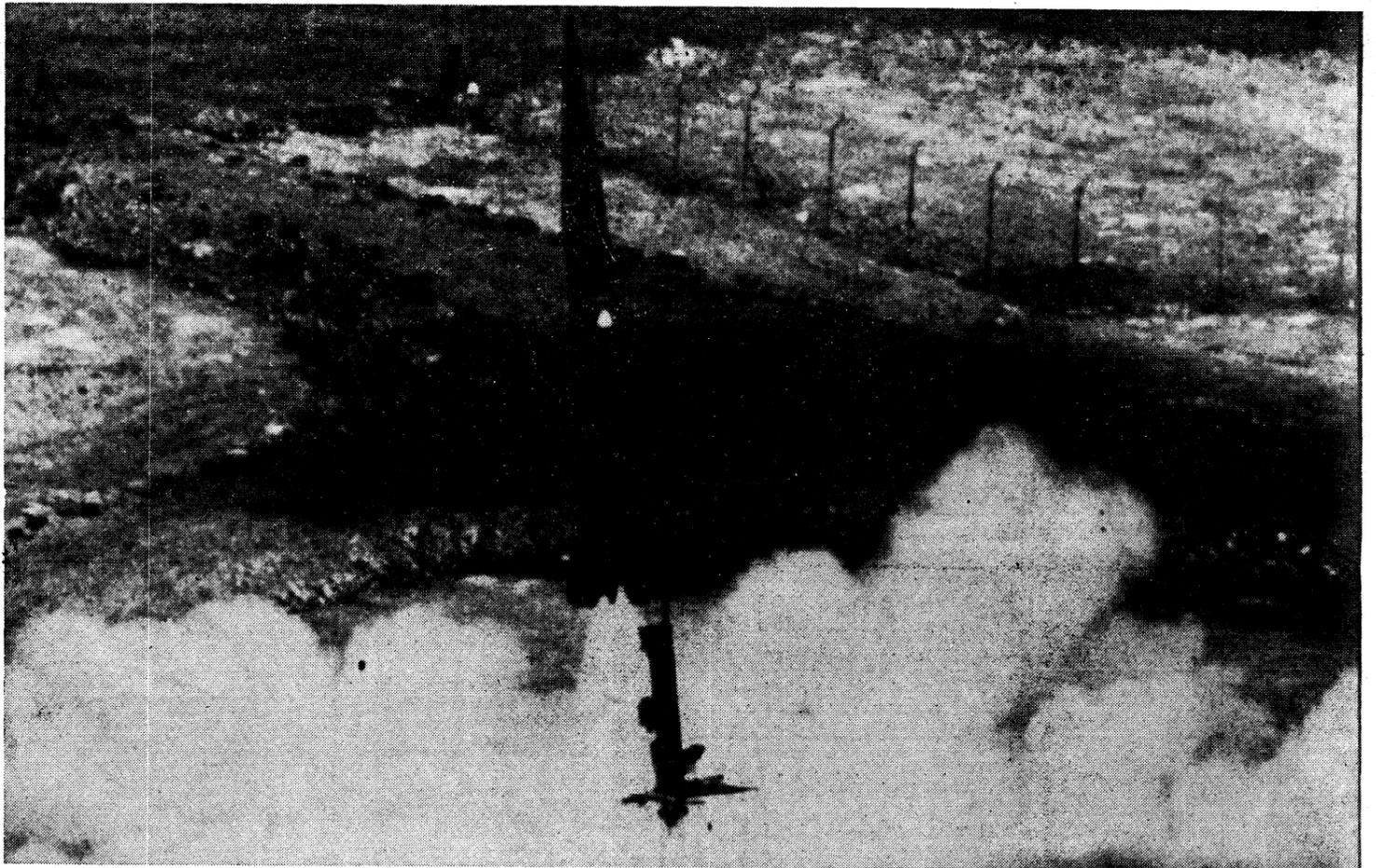
jumped out of his cabin and unwound a black cable. Attached to the end of the cable was a round instrument, the fire control panel. With the flick of a small toggle switch marked 'fire-hold' he can stop the countdown almost to the moment of blast off. Today that won't be necessary. The bird is ready to fly.

"Eighty seconds. . ."

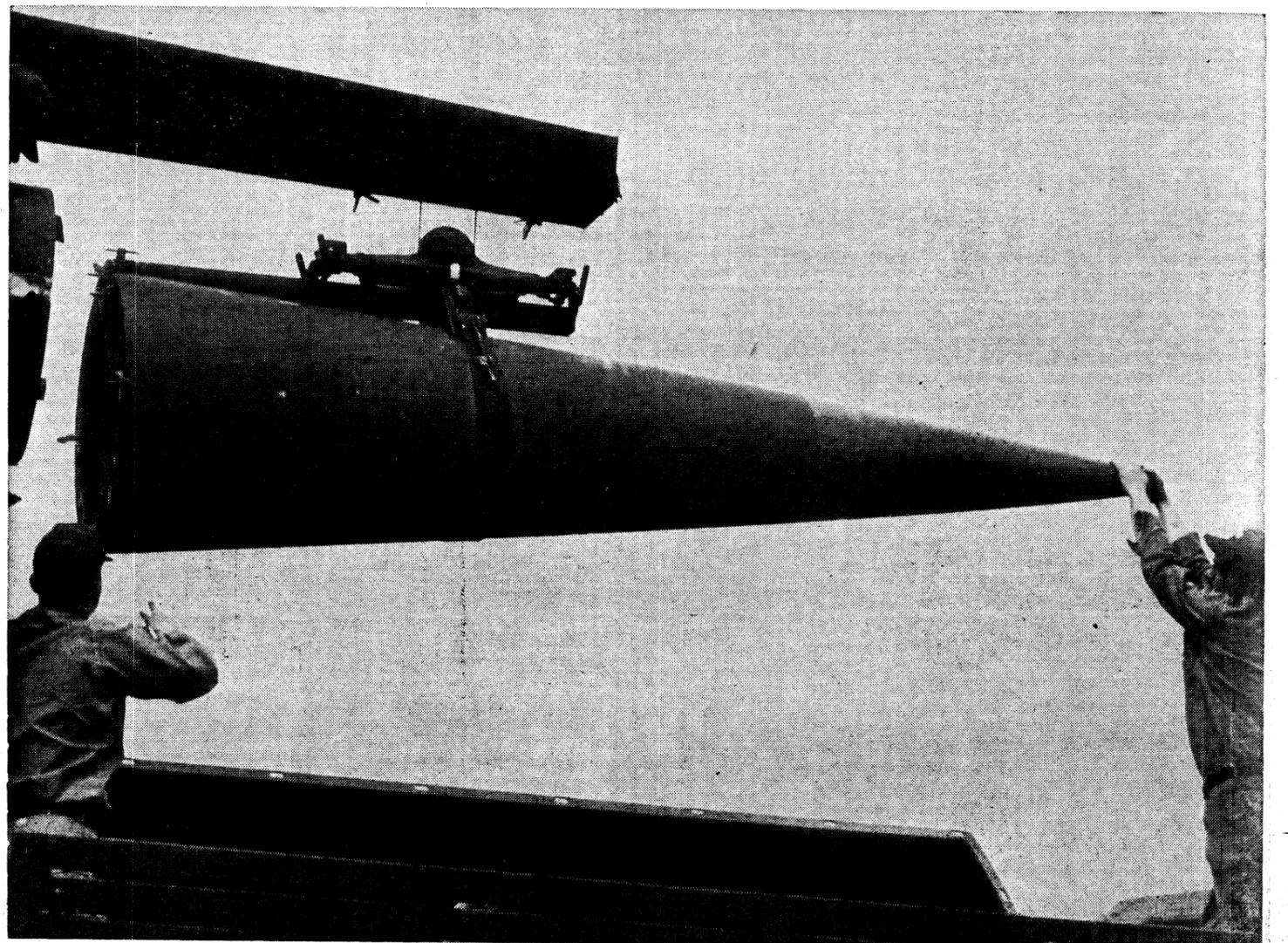
Everything is automatic now. Even the wind seems to stop momentarily as the missile suddenly comes to life, swinging to a 75-degree stance.

"Look, it's slewing!" someone shouts. A sideward glance at the range control building high on the mountain reveals the silhouetted observers frozen into position. "Don't blink your eyes," says a soldier. "You might miss it."

"Five - four - three - two - (See COUNTDOWN on Page 9)

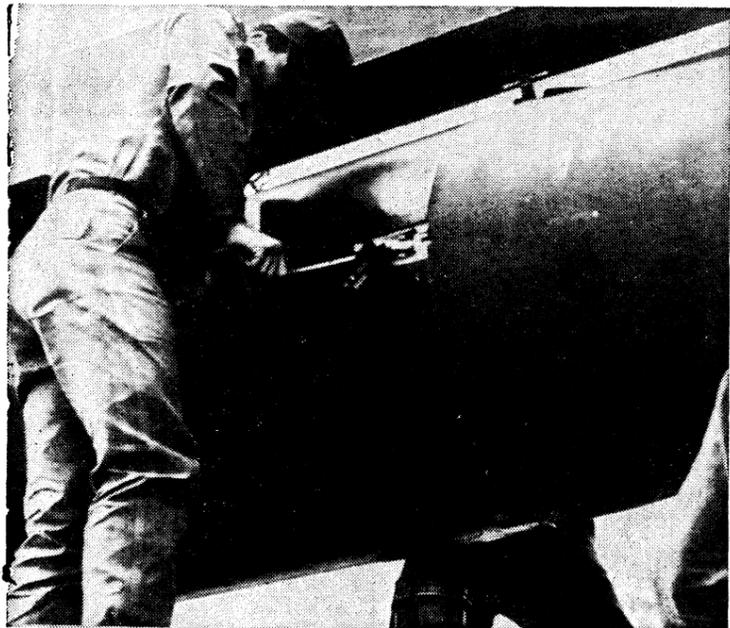


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WARHEAD IS BOLTED ONTO MISSILE

**COUNTDOWN**  
(Continued From Page 8)

one - FIRE!"

The smoke is first, then the orange thrust fire. Then the sound — a deafening, deep, roar reaches into plugged eardrums. For an instant the missile hangs in space, supported on an inverted mushroom of smoke and flame, and then — before one's mind can register the thought — the bird is gone.

On the plane back to Italy, Btry B's men silently recalled

the swift chain of events following the launch. There had been cheering and congratulations, and a member of the FAMSEG team had told all of them in a briefing the following day: "Men, your missile was right on the money."

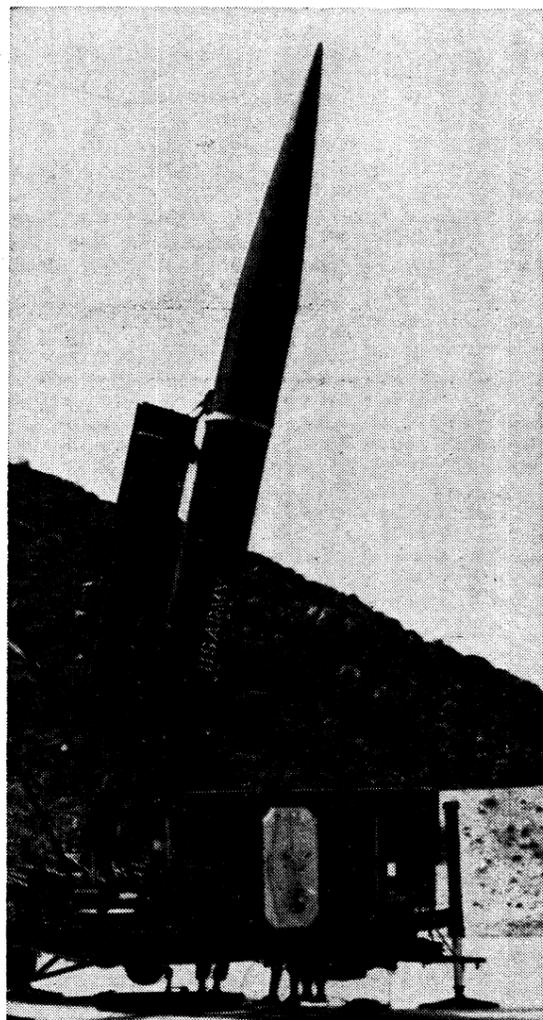
As the plane lands at the staging area in Italy, one of the group shouts, "B Battery is best!" relieving the tension of touchdown. For them the annual service practice has ended.



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# Foreign Students Take Top Honors

Twelve students from four allied nations found that excellence was contagious in a year-long project which ended today a Redstone Arsenal's Missile and Munitions Center and School.

Their common objective was to learn the function of the entire Nike missile system. Composed of airmen from Belgium, China, Germany and Japan, the Nike maintenance supervisor class which graduated this morning mastered a language barrier and a missile operation with over 90 per cent efficiency.

In fact, six of the dozen men—two Belgian officers and four sergeants major from the German Air Force — earned the coveted

Association of the U. S. Army award for maintaining an average of over 96.0 in class.

William P. Burnett, representing the Tennessee Valley Chapter of AUSA, presented the honor plaques to 2nd Lieutenants John A. Javaux and Josephus Van Troy of the Belgian Air Force, and Sergeants Major Gerhard Hielscher, Werner Jordan, Adolf Plank and Hans Ulrich of the German Air Force.

Four American students in ammunition training also earned AUSA recognition for scholastic achievement. They were Army privates Gerold Aubrey, David Scher and Dennis Wade from the records class and John Grzeza of the storage class.

Honor students with the highest average for their respective courses included German A. F. Sergeant Egon Kuester in Pershing missile guidance and control; Hielscher, Grzeza and Aubry, who accumulated an outstanding 99.5 average.

Guest speaker for the class of 79 grads was Lieutenant Colonel William C. Nichols, chief of technical research in the MMCS New Materiel Division.

Col. Nichols told the group of two essential things they would need to learn which MMCS could not teach them: desire, and a thorough knowledge of the opera-

tions in a particular unit.

He said a strong sense of urgency cannot be taught in any school, but it is mandatory to accomplish the mission of a combat support unit. The graduates were advised

to remember that book learning is a guide, and that the school situation must be adapted to the individual unit's situation—which can vary broadly from one organization to another.

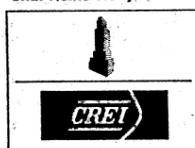


**HONOR CLASS**—Members of the Nike maintenance supervisor course which graduated last Friday from MMCS with unusual academic distinction line up in the wings to receive diplomas from Lt. Col. William Nichols, their guest speaker at graduation. The class, composed of students from four allied nations, compiled a composite scholastic average of over 94.0 and six of the dozen members received special recognition for their achievements.

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## Maj. Gen. Eifler To Address Group

Maj. Gen. Charles W. Eifler and Horace R. Lowers, chief engineer of the Missile Command, will speak at a two-day seminar on systems engineering sponsored by the Huntsville Chapter of the American Institute for Industrial Engineers Sept. 19 and 20.

The conference will be held in the MARS Auditorium at the Marshall Space Flight Center.

General Eifler's topic will be, "Management Needs Systems Engineering."

Lowers will speak on, "A Management System for Integrating Engineering Disciplines."

Dr. Wernher von Braun, director of the Marshall Space Flight Center, will present the welcoming address.

The conference is designed to present the modern ideas of system analysis and management in a way that defines their applicability in a wide variety of government and industrial environments.

## 109 To Graduate At MMCS Friday

Another 109 men are slated to graduate from eight areas of training this week from the Missile and Munitions Center and School. Included in the group is a Japanese enlisted man and a class of 12 U.S. Marines.

Guest speaker for the event Friday is Major James C. Schaaf, Jr., an air defense missile officer in the Office of Operations at MMCS. Maj. Schaaf entered the service after graduation from Virginia Military Institute in 1960. He came to MMCS following duty with advisor team Number 9 in Military Advisory Command, Vietnam.

Maj. Schaaf's background, which includes both conventional ordnance maintenance and missile maintenance, has involved stations in Panama and the Army Air Defense Command as well as three military schools. He has earned the Bronze Star and Air Medal. He lives on the Arsenal with his wife, Becky, and two children.

Graduation begins with music by the 55th Army Band at 9:15 a.m. Honor graduates and special achievers are recognized during the ceremony. The public is invited to attend the proceedings Friday in the Post Theater on Patton Road.



**POSTHUMOUS AWARD**—Mr. and Mrs. Vernon L. Downs, of Huntsville, receive the Silver Star awarded posthumously to their son, Marine Corporal Vernon L. Downs, Jr. Making the presentation is Maj. Mervin A. Fiel, Marine Corps Liaison officer to the Supply and Maintenance Directorate, Army Missile Command. Members of the family from left are George and Tony Downs (front left), Mrs. Downs, Maj. Fiel and Mr. Downs (USAF Ret.). Back row are

Donna Williams and Denis Downs. Corporal Downs was cited "... for conspicuous gallantry and intrepidity in action while serving with Headquarters and Service Company, Third Battalion, Ninth Marines, Third Marine Division (Reinforced), against the enemy in Vietnam." Other medals also awarded include the Purple Heart, National Defense Service Medal and Republic of Vietnam Campaign Medal.

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# Engineers Design Simple Trailer, Save Work

Knee-high to a two-year-old, a specially constructed trailer designed and built by two Post Engineer structural ironworkers is moving ten ton road rollers or lawn equipment from site to site and saving money for the Army.

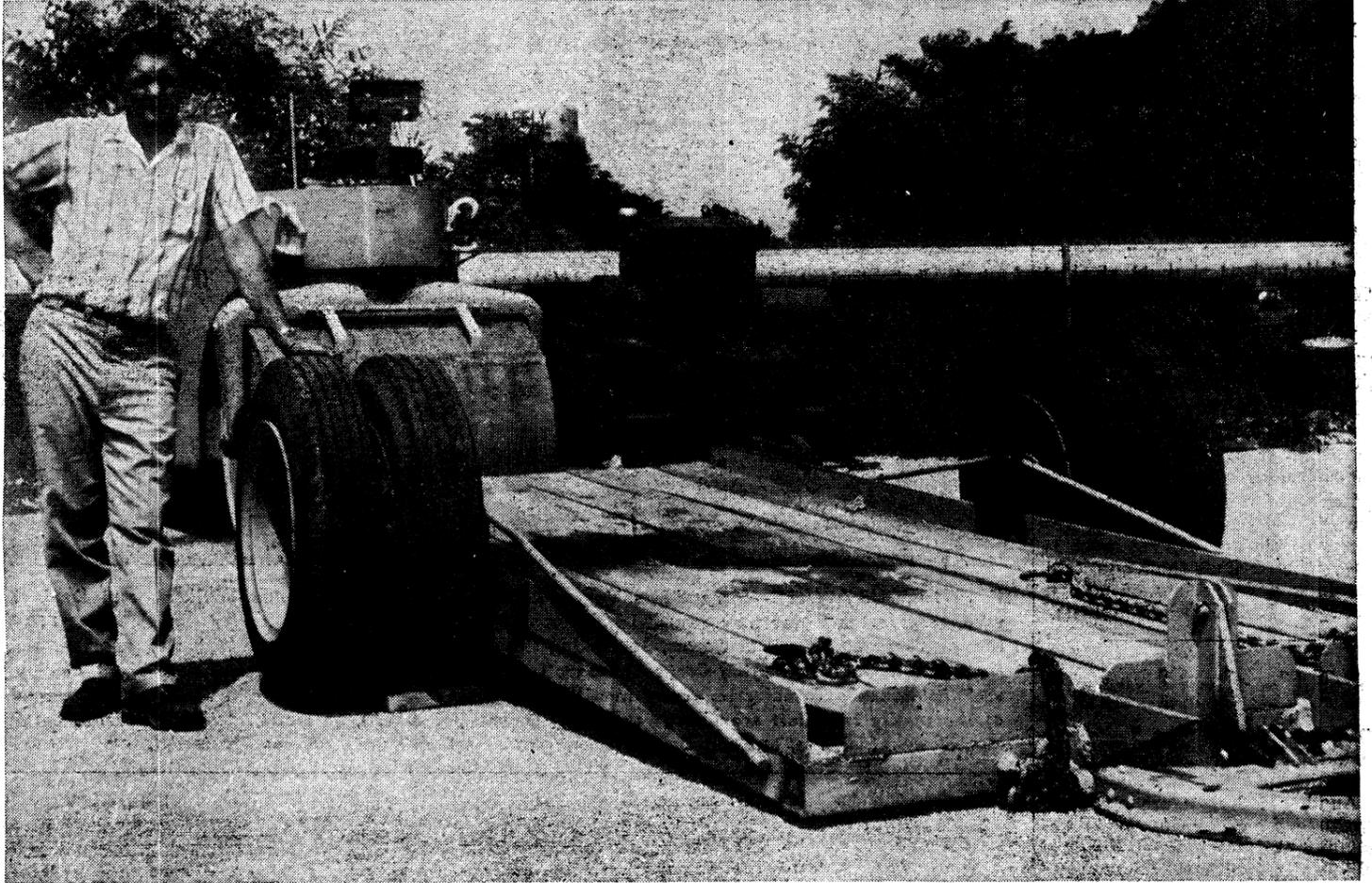
Howard Stacey of Tanner, Ala., shared the \$200 awarded for the suggestion he submitted, with Charles Bolton who helped design and build the unit. What it saves is manpower and time and use of a crane. Instead, the trailer tips to the ground and the road roller steams aboard under its own power instead of being lifted by crane onto a flatbed—an operation that required four men to be on hand to assist.

The mighty midget is so heavy when loaded that it is pulled with a dump truck. The estimators believe it saves \$2500 a year in labor alone. It is so simple and so handy that the engineers use it to move all kinds of things. Its busiest burden this summer is moving lawn mowing equipment from site to site.

Empty, the trailer is so maneuverable two men can wheel it about though its frame is heavy and uphill is a battle all the way.

Stacey is as proud of his trailer, almost, as he is of his family with whom he spends his weekends on his houseboat chugging between dams on the Tennessee, and of the Little League baseball team he has guided to six first place trophies and three second place ones in the nine years he has been the coach.

His bosses are proud of him. Last week they rated him outstanding.



SPECIALY CONSTRUCTED TRAILER—Designed by two DASO employees.

**New**  
**12 WIDE**  
**3 Bedroom**  
**\$3495**

Bob Flanagan and  
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1962 CHEVROLET 4 door  
Impala hardtop, light  
blue, all power \$895.

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hardtop Impala, dark  
blue with light top,  
all power, air. \$795.

1965 VW Sedan, red, radio,  
white-wall tires,  
leatherette upholstery,  
..... \$1195.

1961 VW Sedan, red, radio,  
..... \$695.

1964 VW Bus, red, runs  
good. .... \$895.

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Which brings up an interesting paradox about Volvos. Our customers like to buy them because they last. We like to sell them because they don't.

**TEST DRIVE A VOLVO AT**

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600 Clinton Ave. W.

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## Disabled Veterans To Meet Tonight

A meeting to organize a Huntsville chapter of the Disabled American Veterans will be held tonight at the V.F.W. Gentry Isom Post 2702 7 p.m.

The DAV was formed in 1920 to help the wounded and disabled servicemen of World War I. Today disabled veterans of all wars are eligible to join.

The organization helps acquaint veterans of their rights and sponsors legislation to provide additional benefits. Members of the DAV aid other veterans in filing claims and presenting them to the Veterans' Administration for action.

George A. Rauh, former chief of staff of the Alabama DAV, is helping to organize the Huntsville chapter. Any interested veterans who are unable to attend the meeting tonight are invited to call Rauh at home at 881-4229 after 5 p.m.

## No Campaigning Allowed On Arsenal For Election

Several questions have been raised recently concerning the Army's policy toward campaigning on the Arsenal for the local non-partisan municipal election.

Candidates employed on the Arsenal or who are authorized to enter this installation as official visitors or as guests are not allowed to conduct campaign activities on this installation.

Persons entering the Arsenal are permitted to display one political sticker on the front bumper and one on the rear bumper of their privately owned vehicles. Signs on the back or top of a vehicle are not permitted.

Military police have been instructed not to permit vehicles with unauthorized political advertising to enter the Arsenal.



**RECEIVE HUSBAND'S/DAD'S MEDALS**—Sergeant Major Lloyd A. Himes was posthumously awarded the Bronze Star, Air Medal with Three Oak Leaf Clusters, and the Purple Heart for meritorious service and achievement while serving in Vietnam. Col. J. N. Jean, Director of Arsenal Support Operations Directorate, presented the case of medals to SGM Himes' widow, Mrs. Nell B. Himes, who resides in Huntsville. Children of the Himes family, from left, John Cameron, Cathy Nell, Cleve, and Cynthia attended the

presentation ceremony. SGM Himes was killed when his helicopter received small arms fire and crashed near Danang, Vietnam. Other awards he had received include Army Commendation Medal, Good Conduct Medal with Four Bronze Loops, Army Occupation Medal, National Defense Service Medal, (First Oak Leaf Cluster), Vietnam Service Medal, Vietnam Campaign Ribbon, Aircraft Crewman Badge, and the Sharpshooter Badge with rifle bar.

## Civil Service Commission Reassesses Law Degree

In a reassessment of the value of a law degree for the performance of Government legal work, the Civil Service Commission has approved new entrance levels for Federal attorneys.

Beginning September 1, 1968, law school graduates holding LL.B. degrees, and thus considered qualified to perform at the new level, may enter the Federal service at grade GS-9 (\$8,462 per year) rather than GS-7. Those who have

completed law school in the top third of their class or who have earned the second professional law degree (LL.M.), or who have shown superior academic achieve-

ment in other ways, may enter at GS-11 (\$10,203 per year). In exceptional cases, new attorneys may enter at GS-12 (\$12,174 per year) when their educational attainment

substantially exceeds the requirements for GS-11 and there is clear evidence that they have the ability to perform legal work at the GS-12 level.

# ATTENTION

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The Corps of Engineers has just released to us 86 more units on Redstone Park. Two bedrooms, three bedrooms, and two bedroom duplexes ready and waiting to be delivered to your lot. The homes are in good shape and can be easily situated on your location in a matter of days.

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Two-Bedroom HOMES	Three-Bedroom HOMES	Two-Bedroom DUPLEXES
<b>\$2950</b>	<b>\$3850</b>	<b>\$4950</b>
Delivered on your lot and finished.	Delivered on your lot and finished.	Delivered on your lot and finished.

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**DEAD END** **CHILDREN PLAYING** **NARROW BRIDGE** **NO PASSING** **BUMP** **CAUTION** **MERGING TRAFFIC**

**CAUTION** **CAUTION**

**NO PARKING** **NO LEFT TURN**

**HILL** **SOFT SHOULDERS**

**NO U TURN** **KEEP RIGHT**

**ROAD CROSSING** **UNDER PASS**

**KEEP RIGHT** **SLOW**

**UNDER PASS** **MERGING TRAFFIC**

**SLOW** **ONE HOUR PARKING**

**MERGING TRAFFIC** **CHILDREN PLAYING**

**ONE HOUR PARKING** **NARROW BRIDGE**

**NO U TURN** **SCHOOL CROSSING** **KEEP RIGHT** **UNDER PASS** **SLOW** **SOFT SHOULDERS** **ONE HOUR PARKING**

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**August 24**  
**10:07 A.M.**  
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3 room unfurnished apartment, air conditioned, large screened porch, newly decorated. 215-Marshutz S.E. Phone 534-9821 or 852-3216 after 5 p.m. 1tc

For Rent 3 bedroom brick, nice neighborhood. Move in today, \$125.00 mo. Phone 852-2063 or 534-4701. 1tc

## 2. Cars for Sale

FOR SALE—1960 Mercury Station Wagon, hardtop style, auto. transmission, good tires and battery, new shocks, power rear window. Phone 852-4319. 1tp

## 3. Miscellaneous

JOIN a private learners bridge club, learn by playing, supervisor studied under Mr. Goren, took his instructors examination, has 8 years teaching experience, also bridge book on the market. Day, night, sessions. Memberships limited, call now 881-0672. 9-4-c

REPOSESSED electric typewriters. Payoff balance or take up payments. Underwood \$83.00 or \$5.45 mo. Royal \$119.00 or \$7.81 mo. Smith-Corona \$109.00 or \$7.15 mo. Remington \$114.00 or \$7.49 mo. We have others, call 881-5510 9 a.m. to 5:30 p.m. 1tc

FOR SALE—Columbia Military Academy uniforms for sale. Includes blazer and slacks, \$125.00, phone 536-8909 after 5:30 p.m. 1tp

BALDWIN ORGAN, French Provincial cabinet. 2 octaves of peddles, cost \$3170.00 will sacrifice \$1800.00 phone 536-1629 days, 534-5385 evenings. 1tc

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BUY INCOME PROPERTY with built-in tax advantages. Florida orange groves. Call 536-9146 after 5 o'clock. 8-31-p

## Theatre Schedule

WED., AUG. 21—"A Stranger in Town"(M)  
 THURS.-FRI., AUG. 22-23—"The Hell with Heroes" (M)  
 INCREASED ADMISSION: Adults 50c, children 25c.  
 SAT., AUG. 24—"Fathom"(M-YP)  
 SUN.-MON., AUG. 25-26—"Doctor Zhivago"(M-YP)  
 Showings on Sunday at 2:00 and 7:00 p.m. Monday at 7:00 p.m. only.  
 TUES., AUG. 27—"The Tender Scoundrel"(M)  
 Two shows nightly at 6:00 and 8:30 p.m. except as noted above.

FOR SALE—3 bedroom 1 1/2 baths, improved grounds, fenced, 3 blocks from Arsenal and school, payments \$96.00 mo., phone 876-7212 or 539-8562. 1tc

LAKEWOOD MANOR—5 3/4% loan, large trees and lot, 3 BR, carport, storage room, \$2400 equity for \$600, \$86.57 month including taxes and insurance, 21 years loan balance, 2213 Norwood Dr. NW, 852-3687. 1tp

## Clowers

TEAL DRIVE-FLEMING HILLS. 4 bedroom, 3 baths, fireplace, family room, big lot. \$31,950. FHA, VA, or Conventional.

PENNY STREET-SOUTHWEST. Extra convenient to arsenal and school. 3 bedrooms, 2 baths, central heat, fenced yard, patio. Equity. \$92.00 total payment.

HILLWOOD DRIVE-HILLWOOD ESTATES. 2 story, 4 bedrooms, 2 1/2 baths, fully carpeted, new paint, rear entry garage. Equity. \$155 total payment.

FLEMING HILLS DRIVE-FLEMING HILLS. 3 bedrooms, 2 baths, carpets, dining room, basement, 2 car garage. \$24,950. FHA, VA or Conventional.

CAYWOOD DRIVE-NORTHWEST. 3 bedrooms, 1 1/2 baths, kitchen-family room, paneled garage. \$750 equity. \$101.00 total payment.

HOFFMAN DRIVE-PARKWOOD ESTATES. Plush, 3 bedrooms, 2 baths, carpets, equipped kitchen, central air, screened patio. Equity. \$152 total payment.

BUTTREY DRIVE-ROLLING MEADOW. New 2 story, 4 bedrooms, 2 1/2 baths, double garage, equipped kitchen. Select your carpets. Nearing completion. Total price \$23,400.

BUTTREY DRIVE-ROLLING MEADOWS. New English Chalet ranch. 4 bedrooms, 2 baths, double garage, equipped kitchen, corner lot. Under construction. Total price \$24,500.

ACREAGE IN NEW HOPE. Approximately 16 acres. Fruit trees, partially cultivated. 13 1/2 miles from Huntsville. \$500 per acre.

32 SEAT RESTAURANT in South Huntsville. An opportunity to be your own boss. Shrimp Box Restaurant in South Plaza Center. Ideal for carry out. \$13,900.

PERRY STREET-Parkway Estates. 3 bedroom, 2 bath ranch. Kitchen-family room. \$18,950. FHA, VA or Conventional.

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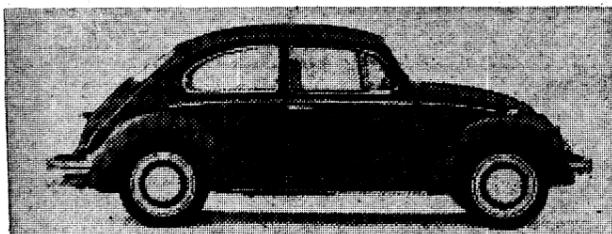
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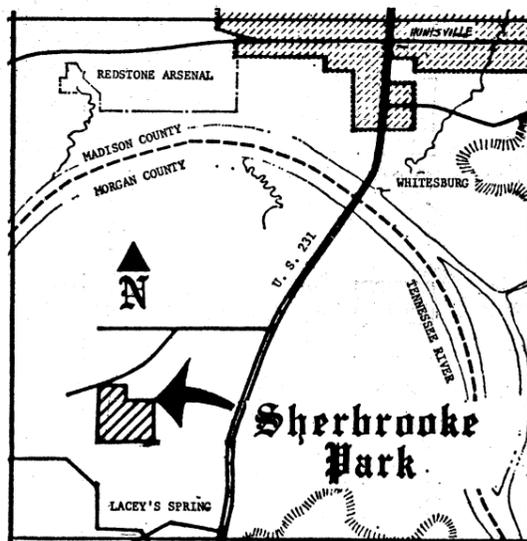
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### DIRECTIONS

SHERBROOKE PARK is located just across the river from Redstone Arsenal. Go over the bridge and take the 1st right, then take the next left and that will take you to Sherbrooke Park. Use map at left.





**LEGION OF MERIT**—Lt. Col. Edward J. Ottman, Jr., receives the Legion of Merit in a recent ceremony at the Army Missile Command. Doing the honors is Maj. Gen. Charles W. Eifler, while Mrs. Ottman looks on. Col. Ottman was cited "... for exceptionally meritorious service while serving with the Pershing Project Office from November 1965 to July 1968."

## Barnes Writes New Book About War, Race, Space

Joe Barnes, a program management analysis officer in the Sergeant Project Office, is the author of a new book, "Man on a Mountain."

The book deals with the reflections of a Southerner who slips away one evening to spend a few

## CDC To Review Artillery Needs

Ft. Belvoir, Va. The U.S. Army Combat Developments Command (CDC) will host a conference to review artillery requirements for the period 1969-1980 at the command's Artillery Agency, Fort Sill, Oklahoma. The three-day review begins on September 4.

The conference, called "Artillery to 1980" review, will cover needs and developments of ammunition, cannon artillery, surface-to-surface missiles, aerial artillery and target acquisition. The overall objective of the conference is to examine the entire future artillery picture to the year 1980.

Recommendations will be developed as to where emphasis should be made for needed conceptual artillery items to insure the equipment will be available to meet the Army's future requirements.

hours sitting and thinking on the top of Monte Sano overlooking Huntsville and parts of the Tennessee Valley.

As he looks out over the city he is reminded of his boyhood and the rapid changes that have come to this area with the Missile Age. In rapid flashbacks he reviews his own life and muses on a wide variety of subjects including politics, space, war and racial problems.

The book was written as a result of a promise Barnes made to his younger brother shortly before he was killed in World War II. In his last letter to the author his brother asked him to do everything he could to preserve the heritage of the area and to promote Americanism.

Barnes says, "This is the biggest step I've taken toward keeping that promise."

"Man on a Mountain" will be published in approximately six weeks by Southern University Press and is being underwritten by the Alabama Mountain Lakes Association. The book will include an epilogue containing a list of the points of interest to visitors to the Tennessee Valley.

Barnes plans to donate most of the proceeds from the book to several organizations which promote the north Alabama area.

The author, a native of Gadsden,

## Shillelagh Award Extends Delivery

A \$4,360,625 U.S. Army contract has been awarded to Aeronutronic Division of Philco-Ford Corporation to extend deliveries of guidance and control equipment for the Shillelagh missile system.

Work under the contract, a modification to an earlier contract, will be performed at Lawndale, Calif. Shillelagh is a gun-launched guided missile system being developed for Army armored vehicles. Its 152mm gun-launcher can fire either missiles or conventional ammunition.

The guidance and control equipment, which consists of several electronics-packed boxes, is the vehicle mounted part of the system. This equipment permits a tank gunner, using familiar tank gun controls, to guide the missile to the target. All the gunner has to do is keep the gunsight on the target.

The Shillelagh program is managed by the Army Missile Command at Redstone Arsenal. Col. Robert J. Proudfoot is Project Manager. Aeronutronic is prime contractor.

has previously written "A Short History of Hokes Bluff, Alabama, and Eastern Etowah County."

Barnes is active in the Ta-Co-Bet Festival which annually brings Indians, historians and members of the general public together for a three-day program on Indian history.

A graduate of Jacksonville State University, Barnes is active in the Lions Club, the American Legion, the Association of the U.S. Army and the Boy Scouts.



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## Scientist Tanton Selected To Attend NATO Institute

An Army Missile Command scientist, George A. Tanton, has been selected by the University of Rhode Island to participate in the NATO Advanced Study Institute on Far Infrared Properties of Solids now being held at Delft Technical University, the Netherlands. The institute is now in session and will continue to August 23.

Tanton, a physicist in the Research and Development Directorate's Physical Sciences Laboratory, Solid State Physics Branch, is now investigating solid state phenomena associated with the absorption and transfer of energy by localized electrons in laser host materials.

The subject of far infrared properties of solids has recently become of strong interest to the Research and Development Directorate, due to the development of high power continuous wave lasers emitting radiation of high spectral purity in the far infrared range of the electromagnetic spectrum.

Many transparent materials used

### GRE SCHEDULE

Persons who are preparing for admission to graduate school and who must take the Graduate Record Exam may obtain the GRE "Bulletin of Information for Candidates" at the University of Alabama in Huntsville. The bulletins, which include full details and forms needed to apply for the GRE, are kept at the Information Desk, Lobby, Morton Hall.

GRE's are scheduled for October 26 and December 14 in 1968, and on January 18, February 22, April 26, and July 12 in 1969, and will be given at UAH.

in constructing lenses, prisms and windows in the visible spectral range, become opaque at far infrared and absorb radiation by transferring the infrared energy to lattice vibrations.

The need for materials transparent at far infrared in constructing components for infrared ranging devices, has led the Physical Sciences Laboratory to study the fundamental infrared interactions with matter.

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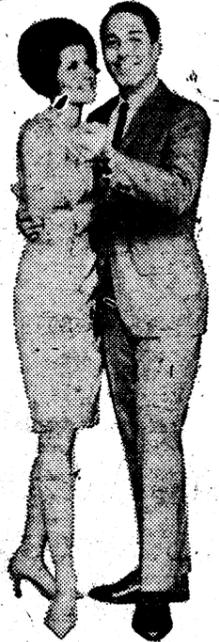
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Win A \$40  
**DANCE COURSE**  
IF YOU CAN FIND  
The Misspelled Words

Read this copy carefully! It contains 3 misspelled words—simply find these three and present the correctly spelled words in person; or if you prefer mail it with coupon below. The winners will receive a \$40.00 Dance course at the exciting Arthur Murray Studio. Arthur Murray is making this amazing offer to show some lucky winners the fun and good times to be had with them.

**Rules:** Only one winning answer accepted per individual. Contestants must be over 21 years of age to be eligible. Arthur Murray students not eligible.

This program is sponsored for the purpose of acquiring a list of people who may be interested in receiving information about dancing and related arts as available in our studios.



Present completed coupon in person or mail direct.

This coupon and my correct answers entitle me to a \$40 ARTHUR MURRAY DANCE COURSE

3 Misspelled Words Are

Name \_\_\_\_\_

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City \_\_\_\_\_

State \_\_\_\_\_

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Please present in person—or mail to

**Arthur Murray**  
FRANCHISED STUDIO

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A used VW. Like one of these.



100% that we'll repair or re-

They're all good enough to pass the VW 16-point safety and performance test.

Which makes them good enough for us to guarantee

\*engine, transmission, rear axle, front axle assemblies, brake system, electrical system.

place all major mechanical parts\* for 30 days or 1000 miles, whichever comes first.

If you want anything better, you'll just have to get a new VW.

- 1968 CHEVROLET 2 door hardtop Impala, light blue and white, all power and air, 8800 miles. \$3395.
- 1965 CHEVROLET Impala Super Sport—all power and air, beige and white. \$1895.
- 1967 FORD Convertible Galaxie 500—yellow with black top, air, 12,000 miles. \$2295.
- 1966 FORD Fairlane 2 door, red, air conditioned, straight shift. \$1295.
- 1964 FORD Galaxie 500 four door, all power, white and blue interior, a real nice car. \$1195.
- 1966 TRIUMPH Spitfire convertible, black with red upholstery, 20,000 miles. \$1395.
- 1966 VW Fast Back, red with light gray upholstery and radio. \$1695.
- 1966 VW Fast back, white with tan upholstery, 24,000 miles. \$1695.
- 1967 VW Sedan, white radio, leatherette upholstery. \$1595.

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# To All REDSTONE EMPLOYEES

## See Certificate Below

Clip this Certificate below for once in a lifetime offer. Bring certificate or present badge number for fantastic savings on any Philco merchandise at Firestone, 1301 N. Memorial Parkway, across from the King's Inn Motel.

We will be open for you only Sunday, Aug. 25, from 1 p.m. until 5 p.m. for use of your certificate.

No cash needed, no money-down and up to 36 months to pay. No payment on colored TVs until November, 1968. 90 days same as cash.

### Redstone Arsenal Employee Ownership Certificate

This certificate when properly signed and accompanied by Store Manager approval entitles employee to purchase any TV or Major Appliance at Firestone's Philco products "E" Cost Sheet Price plus 10%. Merchandise includes all TV, Refrigerators, Washers, Dryers, Freezers in Philco line. By signing below purchaser agrees not to resell this merchandise within one year of purchase.

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