

# The Redstone Rocket

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Arsenal-Wide

Spot News

Dial 112

## 1967 WAS A BUSY YEAR



**SWEARS IN SON-IN-LAW**—Chief Warrant Officer, W-3, Robert B. Walden, left, Redstone Arsenal, swears in his son-in-law, Warrant Officer, W-1, James M. Allen upon the latter's graduation from the Warrant Officer Rotary Wing Aviator Course, Class 67-21. Graduation exercises were held recently at the U. S. Army Aviation School, Ft. Rucker, Ala. The new helicopter pilot's next assignment is in Vietnam.

### AUSA Sets Date With Wooldridge

The Sergeant Major of the Army, William O. Wooldridge, will address a winter meeting of the Tennessee Valley Chapter, Association of the U. S. Army on Tuesday evening, January 23, Chapter President Burl Galloway has announced.

The meeting will be held in the Redstone Non-commissioned Officers Open Mess beginning at 6:30 p.m. and chapter members are invited to bring guests, Galloway said.

"We are very fortunate to have such an important person in the U. S. Army come to Redstone and speak to us," he continued.

"Sergeant Major Wooldridge is presently in Vietnam on a fact finding mission for the Army Chief of Staff and I am sure he will be able to tell us how our Tennessee Valley Chapter of AUSA can do more to help support the troops there," he said.

Wooldridge was named to the newly designated position of Sergeant Major of the Army in June, 1966. He was serving with the 1st Infantry Division in Vietnam at the time.

In describing his senior enlisted (See AUSA on Page 3)

### Personnel Changes Were Many, Weather Was News, Missions Were Success

Confucius probably never said it, but he certainly knew that nothing is as dead as yesterday. And yet the yesterdays that make up 1967 won't be buried and forgotten, but will help nurture the new year at Redstone Arsenal.

A change of commanding Generals, a visit by the Vice-president of the United States, innumerable technical accomplishments and even such prosaic happenings as the weather marked the growth to maturity of 1967 for some 14,000

civilian and military employees of the Army Missile Command.

Major personnel changes in top management spot the past 12 months. After serving almost four years as Commanding General of the Missile Command and 30 years in the Army, Maj. Gen. John G. Zierdt retired from active service. Taking over the Command was Maj. Gen. Charles W. Eifler, a former Deputy Commanding General who was closing out a tour in Vietnam as Commanding General of the 1st Logistical Command.

Other major personnel changes had Col. Sterling C. Holmes taking over as director of the Production and Procurement Directorate; Col. William J. MacPherson returning to Redstone as the Command's Supply and Maintenance Director; and Col. Alfred Holston being named Director of Missile intelligence.

Dr. William W. Carter, Chief Scientist since 1959, left the Command for a new one in Washington as Assistant Director of Defense Research and Engineering for Nuclear Programs.

Static test firings, launchings, and other developmental activities were big news with Army missiles during 1967. Among the more important of such events was the first successful test of a hybrid rocket employing a new propulsion concept. The rocket was developed by the Missile Command and fired on Redstone Arsenal's range.

This was a big year for MAW (Medium Anti-tank Assault Weapon). It was officially re-named Dragon and underwent its first flight test at Cape Kennedy, Fla. becoming the Army's first missile system to be tested at the Cape (See BUSY YEAR on Page 3)

### Command Spends \$73 Million

More than \$73 million was awarded by the Army Missile Command Friday for work on seven different programs it manages. The work will be performed in various locations throughout the country.

Two contracts for production of the Redeye air defense weapon accounted for more than half the total. Larger of the pacts, \$40,176,118, went to the Pomona, Calif. Division of General Dynamics Corporation for a number of complete weapon systems. The contract definitizes a letter contract given in September for long lead-time items supporting production.

The second Redeye contract, for \$6,654,235, was awarded to Atlan- (See \$73 MILLION on Page 2)

### Biggest Headlines Were:

## Nike-X Project Turns Into Sentinel Command

There's no doubt about what the biggest event of the year was for one Army element on Redstone Arsenal: it was getting the green light to produce and deploy the Army's anti-ballistic missile system.

The Nike-X Project Office, which until September 18 had managed the Army's Anti-ballistic Missile research and development program, became the Sentinel System Command with responsibility for not only continued research and development but also for de-

ployment of the new Sentinel system.

Of the three advanced radars and two interceptor missiles being developed by the Nike-X Project all but one of the former were tabbed for production and deployment as elements of the new Sentinel System.

The name Nike-X did not disappear completely, however. One portion of the project—called the advanced Development Group—continued under the old name for (See NIKE-X PROJECT on Page 2)

Happy New Year!

## School Still Growing, Still Building, Still Expanding Classrooms

A year of celebrities, building, growth, and change for the Army Missile and Munitions Center and School—this was 1967.

A Vice President and a four star general were among noted visitors to MMCS in 1967. Vice President Hubert H. Humphrey observed a realistic night attack of the simulated Vietnam village at MMCS. General James K. Wooldridge, Commanding General of the Continental Army Command, made his first visit to MMCS, where he attended the first session of the revolutionary television applications course.

MMCS changed commandants in the course of the year. Colonel Paul B. Schuppener arrived in

September from his position as chief of staff of the Army Weapons Command to succeed Brig. Gen. Erwin M. Graham, Jr., as Commandant of the \$95,000,000 Center and School. General Graham received his nomination for promotion to Brigadier General in July while Commandant of MMCS. General Graham assumed command of the Army Ordnance Center and School at Aberdeen Proving Ground, Md., on August 21st.

An international flavor has always prevailed at MMCS, and 1967 was no exception. The first Tunisian, Thai, Australian, Guatemalan, and Malaysian students enrolled in and were graduated from the (See SCHOOL on Page 2)



**CUP FOR MOST RE-UPS**—During the past five months the Medical Detachment in the Arsenal Support Operations Directorate has had the highest average of re-enlistments according to the records of SFC Robert McNerny (third from left), Army Recruiting NCOIC. He managed to acquire a cup to be presented on a rotating basis each month to the unit with the most re-ups. Here for the first presentation (left to right) are: First Sgt. Eugene H. Oper, Capt. William Brown, CO; SFC McNerny, and two of the men who helped establish the record, SFC R. J. Penton and SP5 W. G. Hoffstetter.

# The Redstone Rocket

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## Rocket Ruminations

Men who paint sylphs, fall in love with some bonne et brave femme, heavy-heeled and freckled.  
—George Eliot

### NIKE-X PROJECT

(Continued From Page 1)

the time being. It will seek ways of improving missile defense in the future.

Secretary McNamara, in announcing the decision to deploy the Sentinel System, said there would be some 15-20 sites which would give protection for the entire United States against a limited missile attack. He said the system would be aimed at the Communist Chinese threat expected in the 70's. It would also, he said, protect Minuteman sites from a Soviet attack and the nation from any accidental attack by any nation.

The name Sentinel was not applied to the system until Nov. 3, the same day the General who will head the program was named. He is Lt. Gen. Alfred D. Starbird, formerly Director of the Defense Communications Agency.

A few days later, on Nov. 15, the Redstone element was officially named the Sentinel Systems Command.

Brig Gen. I. O. Drewry, Nike-X Project Manager, became Commanding General of the new command.

A month later, on Dec. 12, another piece was fitted into the Sentinel picture when the Corps of Engineers announced a new Engineer Division would be established in Huntsville to handle construction of Sentinel sites. Brig. Gen. Robert P. Young, a veteran Corps officer, was named to head the new division.

Other significant events during the year for the Nike-X/Sentinel project included:

—An allocation of \$422 million for continued system research and development during the year plus \$375 million voted by Congress for initiation of production. The R&D funding kept Nike-X at the top of all defense research projects, a

### SCHOOL

(Continued From Page 1)

school, raising to 31 the number of nationalities represented in the student body.

1967 was the year MMCS raised its total graduates to over 50,000. When the Center and School was established 15 years ago, the total population of Huntsville was only 20,000. Since then, both Huntsville and MMCS have boomed, and this year the school graduated 6,358 students.

Building has proceeded in the continued expansion of the Center and School. November saw the dedication of the \$1,000,000 Toftoy Hall, an academic building named in memory of the late Maj. Gen. Holger N. Toftoy, who was one of the outstanding pioneers of the nation's missile and space program.

The growth of MMCS was more prosaically underlined by the building of a new mess hall to serve the 3rd Enlisted Training Company.

In April, the School Troop Command of MMCS underwent a major reorganization. By November, the School Troop Command ceased to

position it had held for several years.

—Dedication of the Army airfield at the Project operated Kwajalein Test Site in the Pacific to Pfc. Fred Henry Bucholz. Pfc. Bucholz was killed on Kwajalein in 1944 and subsequently received the Silver Star for his heroism there. The dedication was held on Memorial Day.

—General Drewry was awarded the Army's Legion of Merit on June 19th for his management of the Nike-X program.

—Successful firings in the Sprint missile test program were announced. All firings were conducted at White Sands Missile Range, N.M.

### \$73 MILLION

(Continued From Page 1)

ite Research Corporation, Gainesville, Va., for loading of rocket motors.

Almost 18 million in two contracts went to Martin-Marietta Corp. for work on the Army's Shillelagh anti-tank guided missile. One, for \$4.7 million, is a production option to an "educational" contract under which Martin Marietta established production facilities to qualify for large scale production by manufacturing a quantity of missiles. The second award, for approximately \$13 million, calls for continued production of Shillelagh missiles after the option-contract deliveries have been

completed. Hughes Aircraft Company received a \$5,060,000 contract for continuation of fiscal year '68 industrial engineering services on the TOW weapon system. This award supplements a \$4.9 million letter contract awarded earlier and brings the contract value to \$9,960,000.

A \$1,471,500 contract went to Hayes International Corp. for work connected with the Missile Command's Army Metrology and Calibration Center. The award provides for hardware and documentation of general transfer and reference sets to be used by calibration technicians in the field. Work will be performed at the Missile and Space Support Division of Hayes in Huntsville.

Techfab Division of Alisco, Inc. received a \$1,158,429 contract for production of XM-159C Airborne Rocket Launchers. Work will be performed at the company's plant in St. Louis, Mo. The XM-159 is a rocket-pod launching system which holds and fires 38 of the 2.75 inch rockets, 19 on each side of the helicopter.

Modification kits for the Nike Hercules air defense missile system will be installed by General Electric Company under a \$1,018,440 award. Installation will be at sites in the continental United States and overseas.

And, finally, a \$1,009,230 award was made to Martin-Marietta Corporation for work related to the Missile Command's Pershing Mis-

site System. The contract calls for product improvement of selected items of Pershing equipment with work being performed by the Orlando Division over a nine month period.

ARTILLERY CRATES might not be comfortable, but they do the job. When First Lt. Edwin Sanford discovered that th'eves had taken the benches that seated 75 children in a little schoolhouse, he found a fast substitute. Lieutenant Sanford, civil affairs officer for the 4th Battalion, 12th Infantry, 199th Light Infantry Brigade, sent a truckload of empty crates to the school at Thu Duc for temporary seats. Meanwhile, men from the brigade built permanent benches. By the end of the day, the children had their new seats, and they didn't even miss an hour of school. (ANF)

completed.

And, finally, a \$1,009,230 award was made to Martin-Marietta Corporation for work related to the Missile Command's Pershing Mis-



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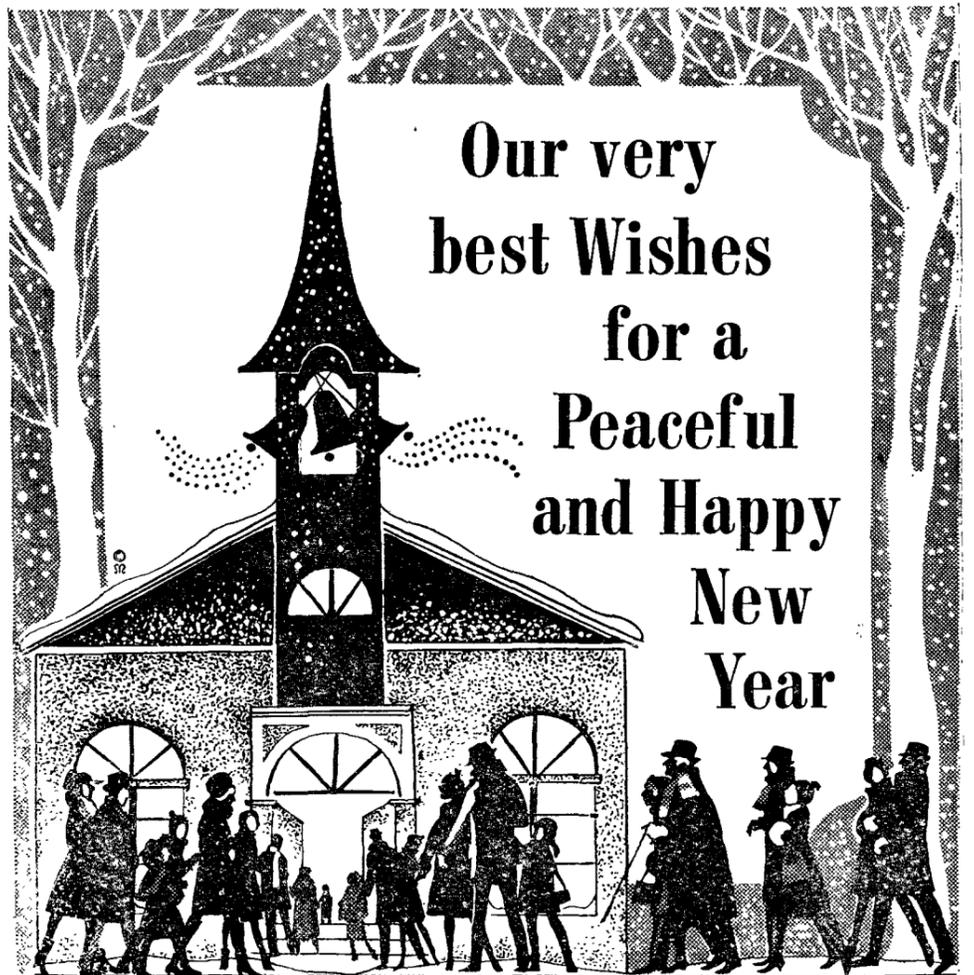
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## The Redstone Rocket

**BUSY YEAR**

(Continued From Page 1)

since the end of Pershing research and development firings in 1963.

Successful firings of the Tow anti-tank missile from Army helicopters took place at Redstone Arsenal early in the year and Lance, the Army's newest Land Combat System completed the tropical environmental and operational phase of the engineer design test at the U. S. Army Tropic Test Center in the Canal Zone.

Army missiles made news during the year at White Sands Missile Range, N. M. Following a rugged series of road tests in April, the U. S. Army's Chaparral air defense guided missile system underwent a successful flight program. The Pershing continued its successful firing program by troops, although more than a little excitement was generated when one of the missiles launched from Blanding, Utah overshoot the range and landed just across the Texas border in Mexico. There were no injuries or damage. Pershing also underwent a spectacularly successful dual launching during the year—a first for a major Land Combat System.

The Army Missile Command's new electronically-scanned HAP-DAR (Hard Point Demonstration Array Radar) went into operation at White Sands.

Another new MICOM development was the Missile Mentor, a faster, more reliable and less expensive electronic system coordinating the firing of the Nike Hercules and Hawk air defense missiles. The Missile Mentor was unveiled in February at operational sites across the country.

Activities of employees at the Missile Command were also an important product of 1967.

During the largest election of its kind within the Department of the Army, civilian employees of the Command selected Lodge 1858, American Federation of Government Employees (AGFE) as their exclusive representative.

The Combined Federal Campaign went over big again at Redstone when personnel, for the second consecutive year, were recognized for support. More than 95 percent of Army employees took part in the campaign and contributed the largest total gift in the shortest period of time for any drive of this type in the Huntsville area.

Another happening took place in June when the non-commissioned officers on Redstone moved into their handsome new Open Mess.

May 22 was VIP day for Redstone and Huntsville . . . Vice-president Hubert H. Humphrey was met by hundreds of people at the Arsenal's Army airfield upon his arrival to pay a whirlwind visit to the city.

Working with an annual budget of more than \$1-billion, Missile Command military and civilian employees earned a payroll totaling \$138.1 million in 1967—an average of \$7,781 for civilian employees.

Since missiles are the business of the Missile Command, new projects and programs made considerable splash on the 1967 calendar.

Raytheon Company was selected as prime contractor for development of the SAM-D, the Army's new surface-to-air missile development.

Martin Marietta Corporation was awarded a production contract for ground support equipment to the Pershing 1-A which will switch the 400 mile range missile from tracks to wheels.

A go-ahead signal was given for development of an Extended Range Lance missile.

A research team in the Research and Development Directorate's Physical Sciences Lab put together and began operating the longest, most powerful continuous wave laser in existence.

New missions also came to the Command in 1967. In July, worldwide responsibilities for the Army were centered on the Metrology and Calibration Center established at Redstone.

The past year could also be known as "The year of the winds" on Redstone Arsenal. In May a strong windstorm struck the Ar-

**AUSA**

(Continued From Page 1)

advisor and consultant on enlisted problems, General Johnson said of the job:

"It marks a new high in recognizing the importance of our non-commissioned officers. The position is not honorary, for the Sergeant Major of the Army will serve as a personal assistant to me for matters relating to enlisted personnel."

Wooldridge, in describing his duties, said:

"I advise on the initiation of and content of plans for the professional education, growth, and advancement of noncommissioned officers, individually and collectively.

"Also, I advise the Chief of Staff on all matters pertaining primarily to enlisted personnel, including but not limited to morale, welfare, training, clothing, insignia, equipment, pay and allowances, customs and courtesies of the service, enlistment and reenlistment, discipline, and promotion policies.

"The Sergeant Major of the Army is in a position to present the enlisted man's point of view for consideration by the various boards and committees of the Department of the Army, and to represent the Chief of Staff at ceremonial functions."

Wooldridge enlisted in the Army in 1940. During World War II he saw duty in Iceland, landed at Normandy on D-Day in 1944 as a squad leader with the 1st Infantry Division, was awarded the Silver Star for gallantry in action at Aachen, Germany in October, 1944, and received a second award of the Silver Star during the Battle of the Bulge in December 1944 while serving as a platoon sergeant.

Since World War II he has served in Japan, Germany twice, and at various U. S. Army Posts in the United States.

He is married to the former Barbara Gentry of Lawrenceburg, Tenn., and the couple has four sons and a daughter.

In announcing the AUSA meeting for Jan. 23, Chapter President Galloway said:

"We have been trying to get Sergeant Major Wooldridge to speak to us for several months. His schedule is extremely heavy and his acceptance to come to Redstone came with short notice. For that reason we are going to have to call on numerous chapter members for help in making arrangements for the January meeting.

"Details on ticket sales will be announced in next week's Redstone Rocket and I hope all 3200 members of the Tennessee Valley Chapter AUSA will help assure that we have a good turnout in salute of this outstanding Soldier."

senal dock area, doing considerable damage to small buildings and hitting some large trees surrounding the Cooper/Lee house on Buxton Road. Overall damage, however, was relatively light.

About 3:20 a.m. on December 18, a tornado jumped the Tennessee River just a little further east of the May storm. This time the winds struck the Test and Reliability Evaluation Laboratory area, moved into the warehouse section in the 7400 section, skipped south of DASO headquarters and ripped into laboratory facilities operated by Rohm & Haas Co. From that point it left the Arsenal to deal a hard blow at Huntsville's southeastern residential area, leaving Redstone suffering more than 1.5 million damages.

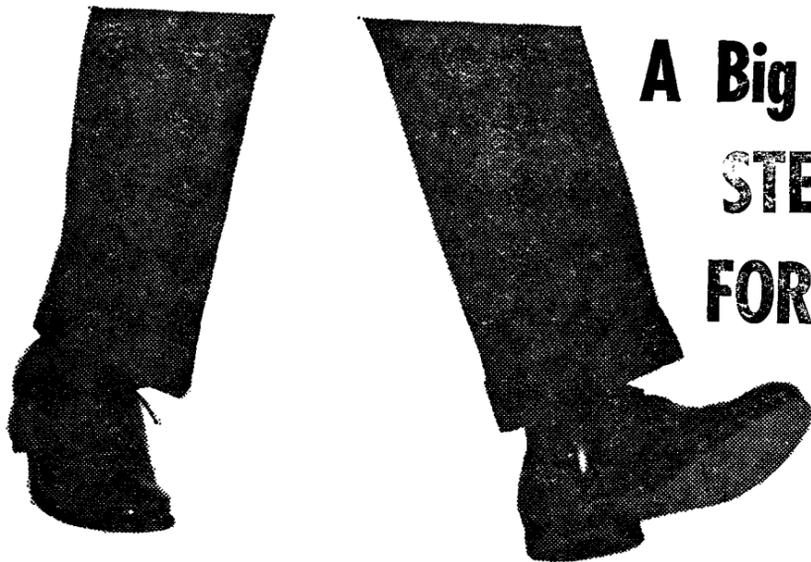
And, you ask what else was new and different?

Proof of the pudding is the long range effect these activities will exert. And who could dispute the obvious—the Army and Redstone Arsenal in 1967 continued work begun many years before, and laid the ground work for efforts many years in the future.

**Drive Safely**



**MEETING LEADERS**—Shown here are the Service and industry representatives who conducted a recent Human Factors meeting sponsored by the Army Missile Command Procurement and Production Directorate. Seated, left to right are, Dr. John Weisz, Army spokesman; Charlie Laney, of the P&P Directorate, conference chairman; Harold Bauer, Electronic Industries Association, and standing, left to right are Dr. Heber Moore, Air Force spokesman; Dr. Joseph Dorton, Navy spokesman; and John F. Harris, Aerospace Industries Association.



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# Sgt. Maj. Weaver Is A Do-It-Yourself Man

"I think I'll make the Army my career," smiled Sergeant Major Rudolph A. Weaver a few moments before he raised his right hand and took the reenlistment oath for the seventh time.

The sergeant major is the highest ranking enlisted man at the Army Missile and Munitions Center and School. His duties require that he be the school commandant's contact with some 6,000 enlisted men assigned to MMCS.

At the end of each day's duty hours, when Sgt. Maj. Weaver is no longer keeping herd over thousands of G.I.'s, he returns to his 30 acre farm and makes plans for the herd of beef cattle he will soon purchase. The other side of the double life of Sgt. Maj. Weaver is that of farmer Weaver.

The Weavers bought their farm in New Market, a little over a year ago.

"It's good to have roots once again," said Mrs. Helen Weaver. "My husband's assignments have taken us to every state in the United States and to more than 25 countries."

The Weaver's ranch-style farm house is decorated with mementos of their travels. Upon entering the spacious five-bedroom home, one notices a preponderance of clocks. The sergeant major became a clock collector and expert repairman of clocks while he was assigned to the 47th Ordnance Group and the 1st Replacement Battalion in Germany.

"I enjoy working on these clocks," said the 43 year old World War II and Korean War combat

veteran, "I get a great amount of satisfaction out of making them tick."

When the time reaches the top of the hour, and all of his twelve clocks are in working order, Sgt. Maj. Weaver's home sounds like Bastille Day revisited.

On the walls of his home are some of his hunting trophies. There are the huge antlers of a roebuck which he shot in Germany, and two sets of caribou antlers which he bagged in Alaska. The sergeant major is very proud of his Alaska Brown Bear which he also shot during his most recent foreign assignment with the Adjutant General's office in Alaska.

Sgt. Maj. and Mrs. Weaver are antique hunters as well. They recently refinished an old oak dining room table, and have many other pieces of antique furniture in their home. Their china closet is stocked with antiques and pottery from Europe.

What furniture the Weavers have not purchased in antique stores, the sergeant major has made himself.

"I have a complete woodworking set-up in my basement, and during the winter months it's too dark when I get home to work around the farm, so I like to go down into the basement and build things," he said.

He built his own high-speed motor boat. The trim craft serves well for one of his hobbies, fishing. With very little prodding, he will show you pictures of the 40 pound salmon he caught in Alaska. The Weavers' two children,



SGT. MAJ. RUDOLPH A. WEAVER DISPLAYS ALASKAN BROWN BEAR.

Andrew, 14 and Dandria, 10 help their parents with the chores on the farm. Andy runs the tractor and helps his father with the plant-

ing, and Candy helps her mother do the canning.

"This past summer we supplied just about everybody at MMCS headquarters with fresh vegetables," boasts farmer Weaver.

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## MISSILE MENTOR CONTRACT SIGNED

The Army Missile Command has awarded \$1.8 million to Hughes Aircraft Company for continued work on the Army's newest fire coordination system, Missile Mentor.

Missile Mentor, designated AN/TSO-51 by the Army, is a faster, more reliable and less expensive electronic system to coordinate the firing of Nike Hercules and Hawk surface-to-air missiles in defense of American cities.

The \$1.8 million will be used to provide industrial engineering services in support of the new system manufactured by Hughes' facilities at Fullerton, California.

Technical direction is being provided by the Missile Command's Air Defense Control and Coordination Systems Office at Redstone Arsenal.

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**AGREEMENT SIGNING CEREMONY**—Army Missile Command and union officials look on as Maj. Gen. Charles W. Eifler and Everett Brouillette signed a recently negotiated agreement between the Command and Lodge 1858, American Federation of Government Employees. Brouillette is president of the local lodge. Standing

from left to right are: Lester G. Mitchell, Executive Vice President of Lodge 1858; Jack N. McConaha, the Command's Civilian Personnel Officer; Dennis Garrison, National Vice President, AFGE 5th District; W. Robert Moore, Assistant President of Lodge 1858; and Col. William F. Kaiser, Missile Command Chief of Staff.

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**Logistic Engineers  
To Hear Gen. Eifler**

Members of the Society of Logistic Engineers will hear a first hand report on the First Logistic Division in Vietnam when they meet at the Officers Open Mess

on Monday evening.

The guest speaker for the first meeting of the new year will be Maj. Gen. Charles W. Eifler, Commanding General of the Army Missile Command. Gen. Eifler commanded the 1st Logistic Command for two years prior to assuming

The Redstone Rocket — January 3, 1968 Page 5

his present assignment last July.

A number of Arsenal and community leaders have been invited to the affair scheduled at 6:30 p.m.

Tickets are available through

members of the Society's local chapter. Reservations may be made through tomorrow by calling LTC Kenneth Johnson, 876-2122, Gene Werner, 876-7296, or Jim Peters, 876-9152.



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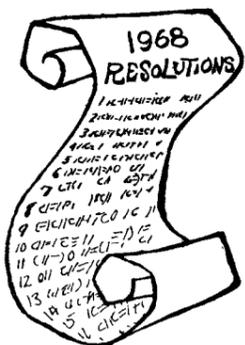
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# Civilian Bowlers Return For Last Half Of Season

Bowling makes its return to the Arsenal activity calendar after a two-weeks lapse tonight with two of the four civilian leagues swinging back into action.

The AMC league will be engaged in a position night at the Playmor while the Field Services league goes through their paces at the Parkway Lanes.

The Supply Management and Redstone Leagues get the post-holiday portion of their schedules underway next Monday at the Starlite and Pin Palace Lanes respectively.

The Voyagers will take a single point lead into their battle tonight with the All-Sports Trophies in the AMC. The two quintets have just about run away from the rest of the league with the Avengers in third, a full eleven points to the rear.

Its a different story in the Field Services loop where three teams

are in a second place deadlock, just two points behind the leading Guided Muscles. The co-second placers are the Expeditors, Esso-bees and Gyros.

The Pin Busters have doggedly maintained a hold on the top rung of the Supply Management loop and are faced with the expectation of a tough second half. Three teams are within range and ready to take over at the first sign of slump by the Busters.

The Facts are out in front of the Redstone League with the Gibson Barbecue five and Dean's Trailer Court in hot pursuit.

Fred Stewart appears to be the leading candidate for Bowler-of-the-Year honors at the half way point with his 189 average in the Field Services League.

Last year's winner, D. B. Smith, and the 1966 winner, Tom Lindsay, are the nearest rivals to Stewart, each having a 185 rating in the Supply Management loop. Stewart has a 186 average in the Management League and Ken Bell is still very much in the running with 181 in the same league.

# MICOM Girls Try To Clinch Crown

The Missile Command girl's basketball team will be out to nail down at least a share of the Huntsville Industrial League crown when they return to action at the Joe Bradley School gym next Monday evening.

The CWF-sponsored sextet will also be trying to regain their winning touch when they take on General Electric in the 7 o'clock encounter.

After racing through eight straight opponents, MICOM was knocked out of the unbeaten ranks by IBM in their final start before the holiday layoff.

The game with GE marks the opening of a crucial three weeks for the MICOM girls as they try to wrap up the league championship in their first year of league competition.

Following GE, the Missile Command will play Boeing and Brown Engineering, and will have to win two out of three to clinch the title.

"And that is a larger order than the record might indicate," according to Coach Sid Douglas. Boeing and Brown have been considerably stronger during the second round while MICOM has ot to be weaker without Pat Jones in the lineup.

Equally adept as a forward or a guard, Pat was credited by her

coach as being the player that made the MICOM attack move. "We have excellent shooters in Yvonne Marks and Gladys Hill," Douglas said, "but we are going to have to find someone who can get the ball into them."

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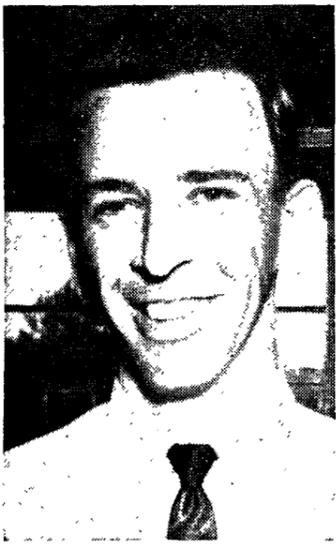
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# Late Starting Military Basketball Slate Opens

The Arsenal's military basketball players are getting in their final practise licks this week in preparation for the delayed opening of the Unit Level league race next week.

The Missile Command Marauders and the 8th ETC Rockets will pry the lid off the league season when they collide in the 6:30 opener on Monday. The 8:30 encounter

on opening night will bring together the B Company Braves and the 2nd ETC Trouble Shooters.

Fourteen units will be vying for the post championship this season. They are scheduled to play a single round robin with a double header each night, Monday through Friday, until March 12.

The Tuesday evening games will have the Silencers, representing the 5th and 7th ETC units, going against the 6th ETC Six Shooters, and the A Company Aces meeting the C Company Cavaliers.

The intramural league race is expected to be a tight duel all the way with every team capable of knocking off a rival quintet on a given night.

At least the likelihood of a run away, like that performed by the School Troop Command last year, is very remote.

The STC Officers raced through an even dozen league games unscathed and then captured the first All-Redstone tourney crown in combat with the leading civilian quintets from the Army and Marshall Center leagues.

The Military Police Pistoleers took runner up honors in the league and placed third in the Arsenal meet. The Police are in the running again this year but with a completely new team.

The Pistoleers will open their bid to improve their standing on Thursday evening with D Company Demons furnishing the opposition.

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# Exams For Summer Employment Set

Application and testing dates for the Office and Science Assistant Examination for summer employment have been announced by the Civilian Personnel Office of the Army Missile Command.

An examination will be administered on January 13 for those who had applied by December 8. Another examination will be given on February 10 for applicants who apply by Friday, January 5. The application deadline for this program is February 1 and the last test will be given on March 9.

Standards for summer employment under this program require that the applicant be either 18 years old or a high school graduate at the time of his employment.

Normally the Missile Command fills only scientific and technical positions under this program, but other Huntsville government agencies have a wide variety of job positions open to qualified applicants. There will be approximately

150 summer job openings with the Missile Command under this program.

All those wishing to apply for summer positions must compete by filling out the required applications and take the examination. Previous examination scores obtained by those who took the tests last year or were employed under this program in the past are required to re-compete for the job openings.

Applicants, upon passing the examination, will be eligible to apply for summer employment at federal government agencies all over the United States. There will be jobs open in a wide variety of fields at GS-levels 1 through 4.

Further information and applications may be obtained in Huntsville by contacting the Civilian Personnel Office, Bldg. T-3159, the Interagency Board of Examiners, 806 Governors Drive, or at post offices and college placement offices all over the United States.

## Result Of Storm: Missile Display Looking For Home

The U. S. Army Missile Display Area near the intersection of Patton Road and Bob Wallace Avenue has been closed because of damage sustained during pre-Christmas storms in the Huntsville area.

Personnel of the Arsenal Support Operations Directorate are making a survey to locate a new home for the displays and exhibits which tell the story of the Army's accomplishments in rocketry and missilery at Redstone Arsenal.

Announcement of plans to relocate are expected soon.

The Army displays were housed in three air-inflated domes made of vinyl coated nylon and erected during the spring of 1965. These

structures were originally developed to provide portable shelters near operational missile sites for maintenance work in the 1950's.

They were used in Italy and Turkey during the operational deployment of the Jupiter missile system and returned to Redstone as excess property when the Jupiter was retired several years ago.

The large center dome was 150 feet in diameter and 85 feet high in the center. It was covered by a map of the northern hemisphere, and, flanked by two smaller domes 100 feet in diameter and 50 feet high, had become a familiar landmark on the northern boundary of the Arsenal.

One of the aging small domes was lost during severe weather last October and its displays were concentrated in the large dome, which was ripped by tornadic winds during the early morning hours of December 18. Before repairs could be completed, it was again ripped and this time beyond repair, on the evening of De-

## Librarian Accepts Post In Europe

James P. Clark, Chief of Readers Services Section, Library Branch of Redstone Scientific Information Center, leaves this week to take on a new job in Europe.

He has been named by Department of Army for a three year assignment as Director for all Army libraries in Europe. He will be under the Special Services Agency, Europe, with headquarters in Munich, Germany.

Clark has been with the Army Missile Command since July 1960.

December 21. Fortunately, the displays were not damaged seriously.

Thousands of visitors from every state of the U. S. and from numerous foreign countries visited the Army Missile Display area in peak tourist months during the summer.

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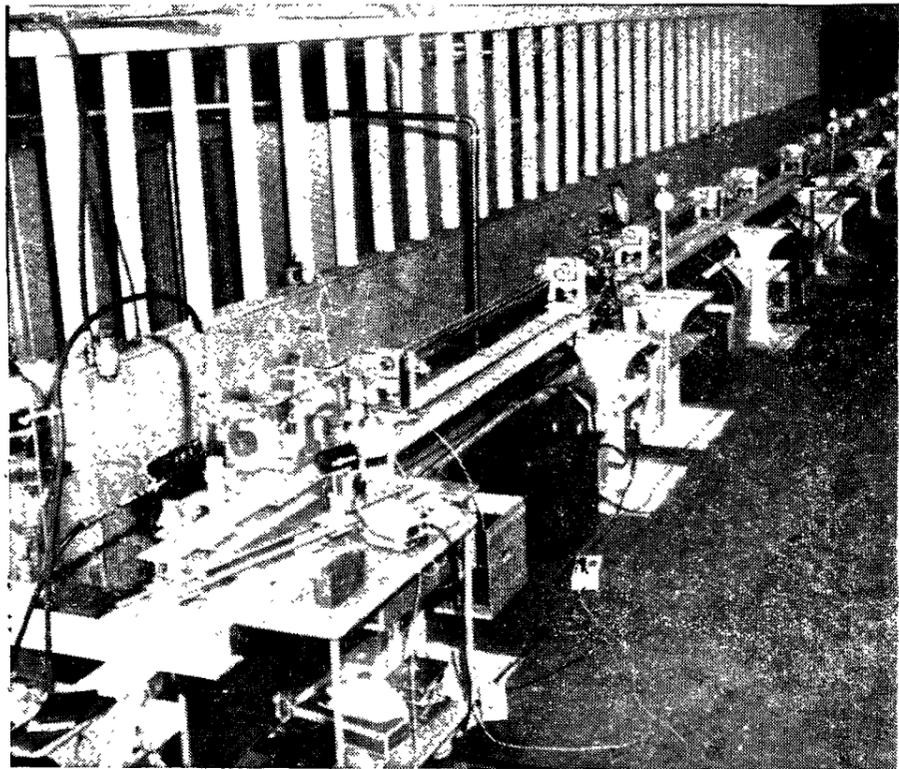
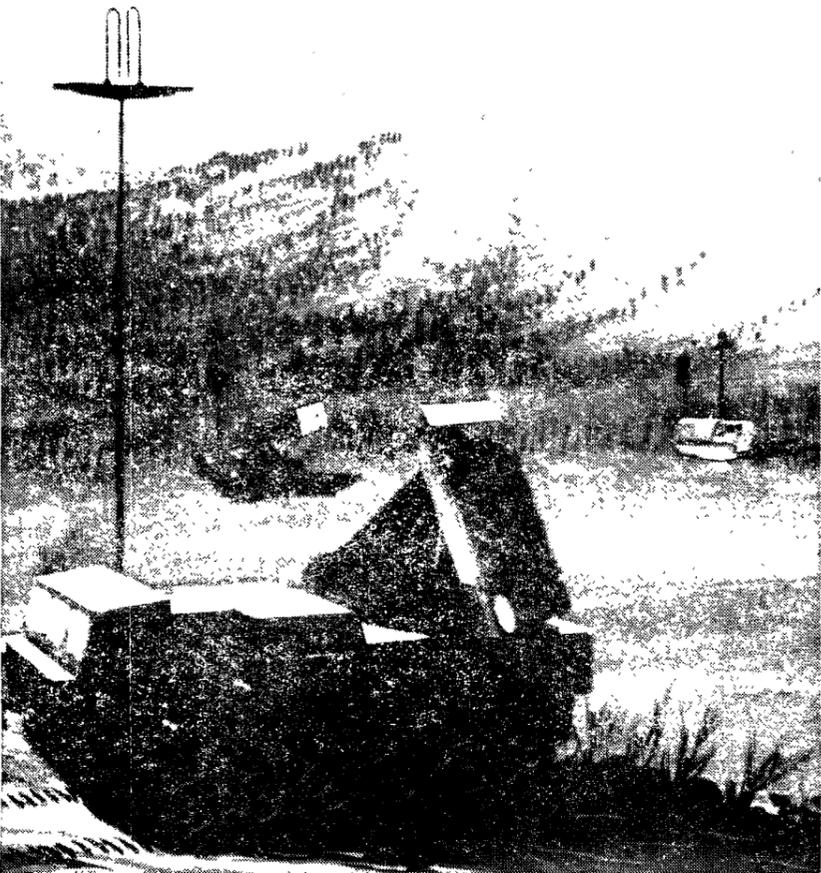
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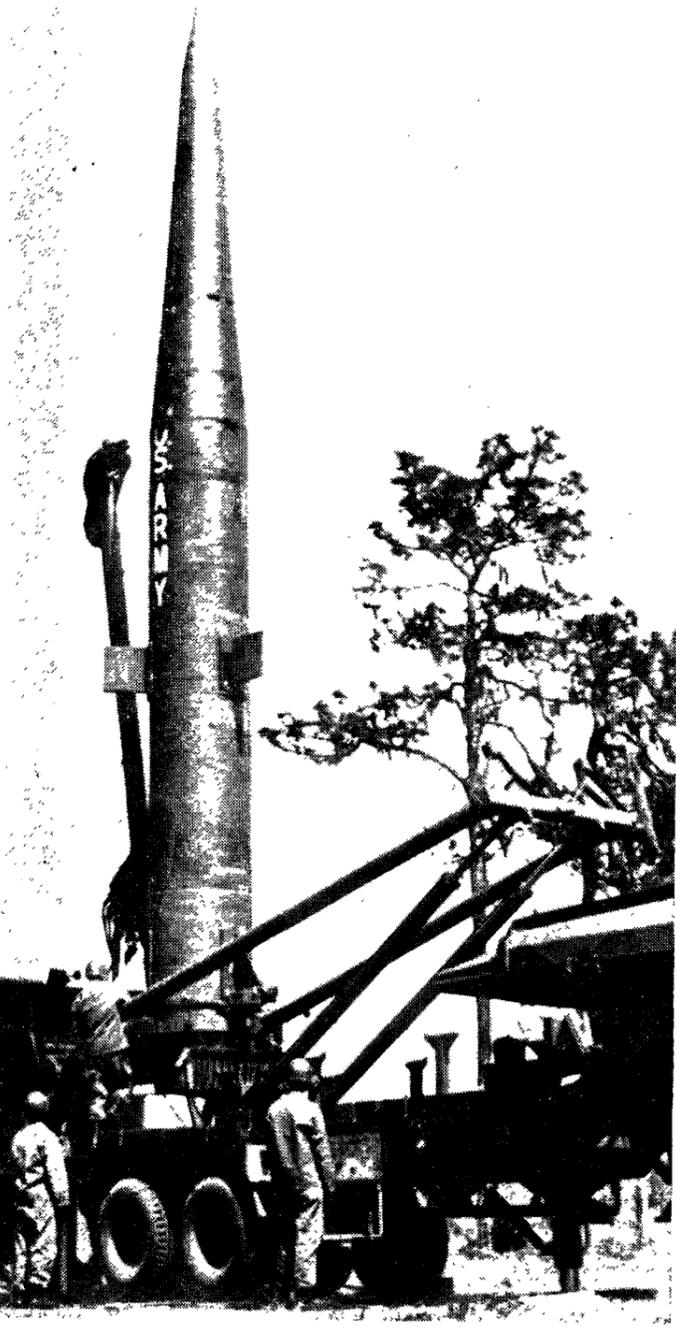
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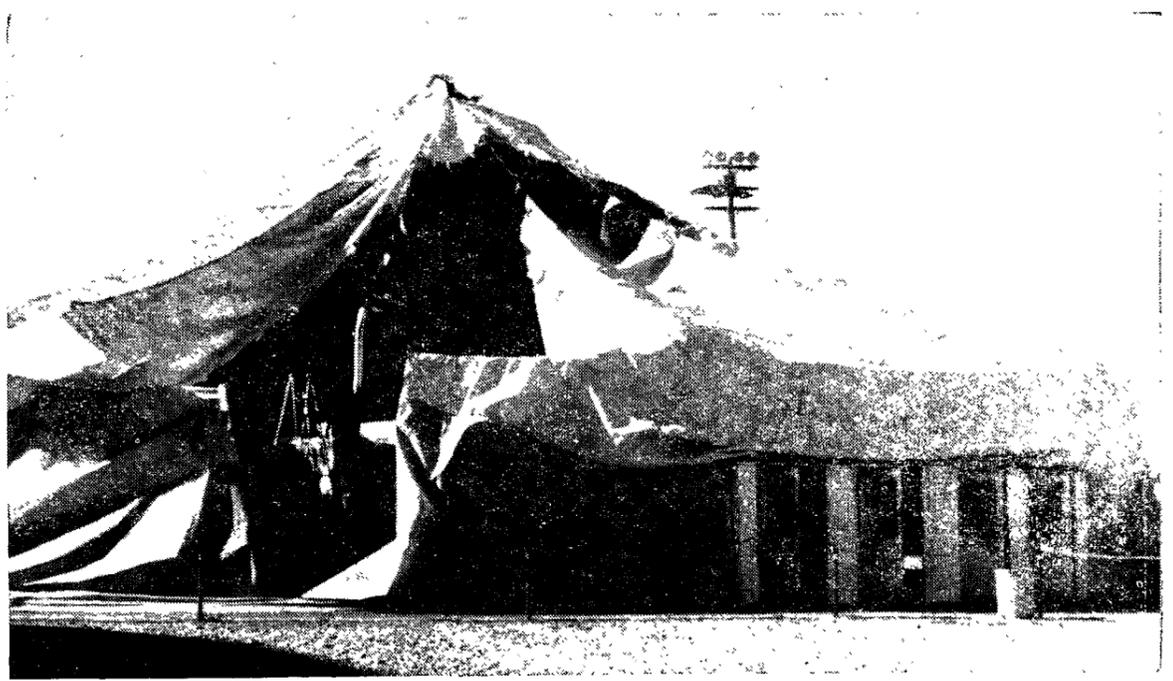


A CAMERA LENS V  
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W





**WINS AWARD**—Lt. Col. Charles E. Chapman (left), Mst. Sgt. David C. Justus, Col. Paul B. Schup-pener, and Col. James L. Keown discuss Sgt. Justus' Third Army reenlistment award. Sgt. Justus, reenlistment officer at the Army Missile and Munitions Center and School, won the award for the first quarter of fiscal year 1968 and for October.

man can reenlist for any field he desires and for which he is qualified.

"We just try to be honest with the guys," said Sgt. Justus, when asked the secret of his success. What he provides is a very important career counseling service. If the Army cannot help a man, Sergeant Justus will tell him so.

Sgt. Justus has been helped greatly by the efforts of SG1-C Robert J. McNerney, who is reenlistment officer for the Army Missile Command personnel assigned to MMCS.

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# Recruiters Scores Are Up At Redstone In '67

"Uncle Sam Needs YOU" say the posters, and men at the Army Missile and Munitions Center and School, Redstone Arsenal, Ala., are heeding the call. MMCS led the Third Army in reenlistment for the first quarter of fiscal year 1968 and also for the month of October.

Mst. Sgt. David C. Justus is the man responsible. When he came to MMCS 15 months ago, the reenlistment rate was sixth in the Third Army. Since then it has risen steadily, as Sgt. Justus brought order out of the chaos.

Of the total permanent party eligible for reenlistment, Sgt. Justus reenlisted 42% in the first quarter of fiscal year 1968. In October, the figures went even higher, as over half of the permanent party eligible reenlisted.

His first step was to establish a uniform procedure. Before Sgt. Justus arrived, reenlistment talks were conducted in a haphazard fashion. Now there is a systematic method whereby every man on post is given a reenlistment talk at regular intervals.

"Choice, not chance," is emphasized by Sgt. Justus, who will guarantee every promise in writing. A

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# Anechoic Chamber Eerie Place For Visitor



IN THE INNER ROOM—Positioning a sphere to be used in calibrating radar equipment is William Barnes, Army Missile Command micro-wave technician. Measurements by radar antennas are made in the Command's anechoic chamber, or inner room.

Opening the door, you step inside somewhat hesitantly. The floor seems to yield beneath your weight. Black pyramids jut from the walls, and a white pedestal stands in the center of the room. It is very quiet.

An ancient place of worship? The meeting place of some secret society, perhaps? Not at all. This is the anechoic chamber, or inner room, used at the Army Missile Command to provide electrical and magnetic isolation for Radar cross section measurements, and testing a wide variety of radar antennas.

The floor and the black pyramids on the walls are composed of a material which absorbs incident signals, including sound. This accounts for the quietness of the room and the resiliency of the floor.

The white pedestal in the center? This is used to hold a scaled-down radar "target" for measurement of characteristics, and to measure the capabilities of sensitive radar antennas.

The chamber itself is rectangular in shape, measuring 49 feet long by 18 feet wide by 18 feet high.

Because interfering noise is controlled, the actual characteristics of a wide variety of targets and can be tested with minimum distortion. These measurements would be almost impossible to make in a normal environment.

Not only does the chamber permit a controlled environment for tests, but tests conducted in a laboratory environment are far cheaper than actual tests in the "real world," using real targets.

In the language of engineering, targets identify themselves by their "signatures," which vary with size, shape, and other factors. Just as in the world of humans, "signatures" may be forged or disguised, "detectives" are needed to decipher signatures in both worlds.

Three such detectives are Lloyd Root, Maurice Belrose, and Sam Dunlap, engineers in the Research and Development Directorate's Advanced Sensors Laboratory, and members of the Radar Branch's Phenomenology Group. This group studies the environment in which radar is used.

"Radars are built", says Belrose, "to give us information about a target. The target may be a missile, airplane, warhead or other physical object."

"The signatures that we get de-

pend a great deal on the radar that 'interrogates' the target. This is why a radar's characteristics must be studied, and radars are best studied in a controlled environment such as the anechoic chamber."

The Phenomenology Group is now preparing to conduct experiments as part of a current project to get target signatures on various targets of interest.

Custodian of the chamber for the laboratory is William Barnes. A micro-wave technician, he designs and sets up equipment for

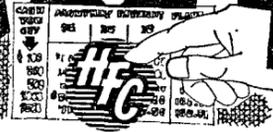
conducting experiments. According to Barnes, radar components are tested by transmitting controlled signals to the radar "target". When the signal is bounced back, it is picked up by a receiver, recorded, and analyzed to determine the radar's performance characteristics under various conditions. Since the cross-section of the target—its appearance—to the radar—varies dramatically with small changes in viewpoint, targets must be studied from different angles. This is done by rotating, tilting, or otherwise reorienting the target.



*We invite you to share a very Happy New Year*

To all our friends and customers, our happy greetings go. We just can't say enough to express the full warmth of our good wishes for all the happiness we hope you'll share in the New Year, and the deep sincerity of our appreciation for your trust and support. Many thanks to you!

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## SERVICE CLUB SCHEDULES SHOW

Sunday Tani Ryder will bring to the Service Club a new group of entertainers which will include an enlisted man from Redstone Arsenal.

Roberta Rivera from 3rd ETC will entertain with the Limbo. Among other new performers in the show will be Miss Vallery Norman, a comedy folk singer, Miss Jo, The Harem Queen dancer and Jim McCaslin a talented night club singer and dancer.

In addition to the new performers, Miss Linda Groce and Sandy Turner Go Go girls and the popular polynesian dancers will be here.

Showtime is 8:15 Sunday evening.

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# Dr. Shuey Receives Award

Dr. Henry M. Shuey, director of technical liaison for the Redstone Research Laboratories of Rohm and Haas Company, is the recipient of a special award from the Department of the Navy.

Dr. Shuey was nominated for the award by the Navy Department's Special Projects Office in recognition of his participation in their Polaris missile program. The Navy calls this a "41 for Freedom" award in honor of the 41 Polaris-carrying submarines in service.

of three admirals and the Secretary of the Navy, and a letter of appreciation from the director of the Navy's Special Projects Office was presented to Dr. Shuey by Lt. Cmdr. Gerald C. Reid of the SP office in ceremonies at these Laboratories on December 21. Representatives of the Missile Command's Research & Development and Procurement & Production Directorates attended the presentation.

This is not the first time that Dr. Shuey has been honored by the

Navy, nor is it the first time that he has been recognized for participation in a specific missile-system program. He received a Certificate of Appreciation from the War Department and the Navy Department for an "outstanding contribution to the work of the Office of Scientific Research and Development during World War II," and in 1966 he received a Department of the Army Certificate of Appreciation for his participation in the Redeye missile development program.

Dr. Shuey this year celebrated his twentieth anniversary of service with the Rohm and Haas Company.

A plaque, bearing the signatures

## MACK'S TV SHOP

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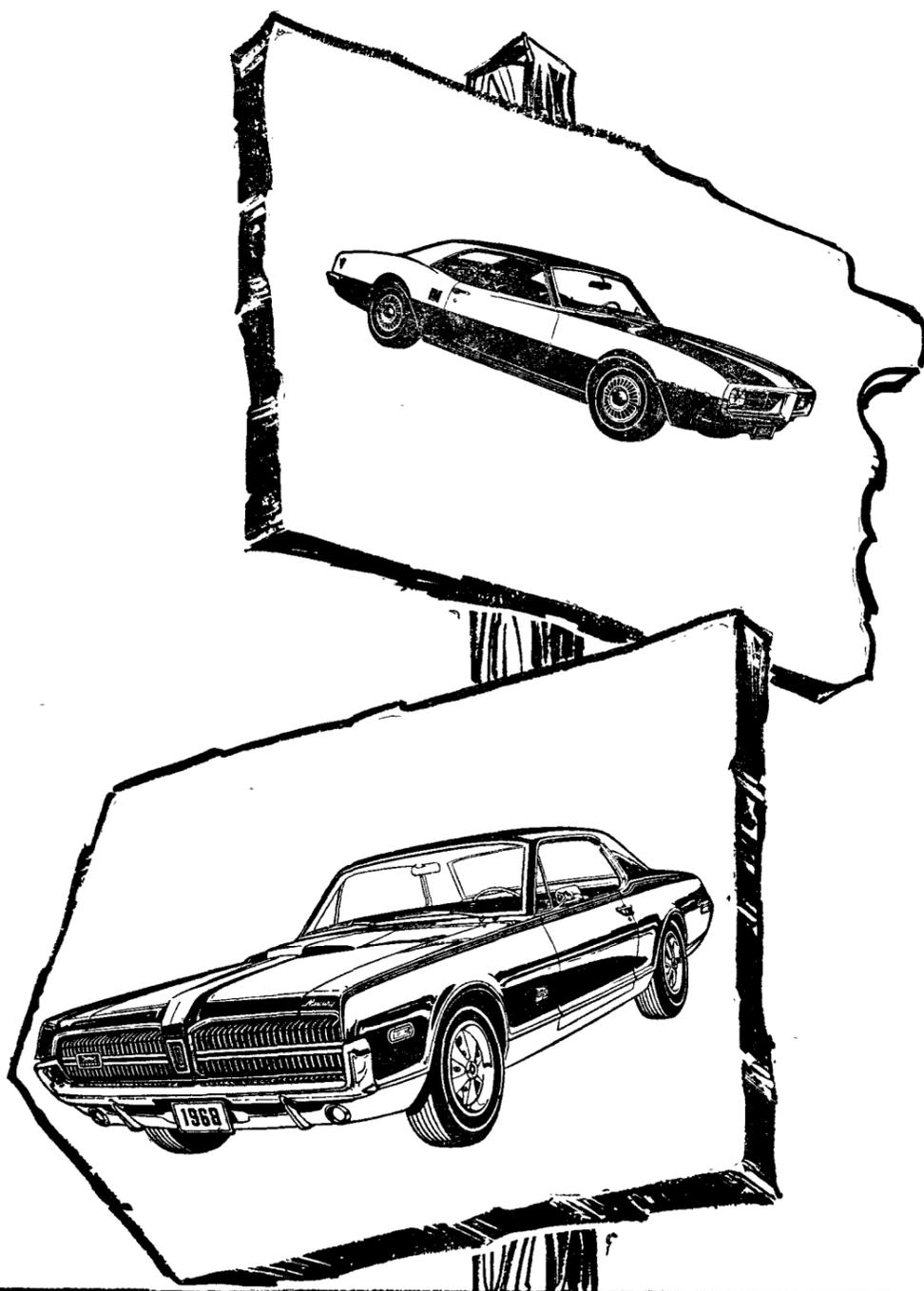
15% Discount to Military on Presentation of ID Card when leaving your set.

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UHF Converters \$2.50 Mo.  
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Birmingham News	Minneapolis Star
Birmingham Post-Herald	Minneapolis Tribune
Boston Globe	Mobile Press Register
Charlotte Observer	Mobile Register
Chattanooga Times	Montgomery Advertiser
Chicago's American	Manchester Guardian
Chicago Tribune	Nashville Banner
Christian Democrat	Nashville Tennessean
Cincinnati Enquirer	New York Review of Books
Clarion-Ledger	New York Times
Columbus Inquirer	News Gazette
Commercial Appeal	Oregonian
Courier Express	Oklahoma City Times
Courier Journal	Philadelphia Inquirer
Cronicle	Pittsburgh Press
Cocoa Tribune	Plain Dealer
Daily Oklahoman	Post Standard
Dallas Morning News	Pittsburgh Post Gazette
Denver Post	St. Louis Post-Dispatch
Des Moines Register	San Diego Union
Detroit Free Press	San Francisco Chronicle
Detroit News	San Francisco Examiner
El Paso Times	Seattle Daily Times
Florida Times-Union	Sentinel Star
Fort Lauderdale News	The State Columbia Record
Fort Worth Star-Telegram	Sun
Houston Post	Tampa Tribune
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Across From Butler High  
DIAL 539-3482  
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BY OWNER Country Home 7 years old, 3 bedroom frame, 1 acre, built-ins, ceramic tile bath. 22 miles from Huntsville near Elora, Tenn. Phone Mrs. Clark Athens 232-7785. ttc

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Beautiful lake front B. V. home 4 bedrooms, large den, 3 full baths, carpeted, fireplace, built in kitchen, central heat & air, paved driveway, double garage, sandy beach on large level lot in Guntersville, will sacrifice for quick sale, 2895 sq. ft. including garage, Cornelius Real Estate 582-3027 or 582-5313. 1-24-c

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## Glen Park APARTMENTS

Furnished or Unfurnished  
Lovely 2 bedroom, living room, kitchen and ceramic tile bath, including air conditioning and TV outlet. Convenient to schools, churches and shopping.  
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## REPOSESSED MOBILE HOMES FREE EQUITY

Just Take over payments on 1965 and 1966 Mobile Homes, all sizes, like new condition.  
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# DIVIDEND DECLARED

The Board of Directors Declared A Dividend On 1967 Shares At A Rate Of 5% Per Annum. Paid To Members Accounts On January 1, 1968.

## Redstone Federal Credit Union

A Cooperative Savings and Loan Corporation

P. O. BOX 5347, ARDMORE STATION  
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HUNTSVILLE, ALABAMA 35805

cy which allows 30 days leave to those voluntarily extending in hostile fire area. Withdrawals cannot be made until soldier gets home, but advance application may be made through local unit commander. (AFNB) (AFNB)

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Large Selection!

2nd CARS!  
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\$1.00 a Day — \$5.00 Week — \$13.50 Month  
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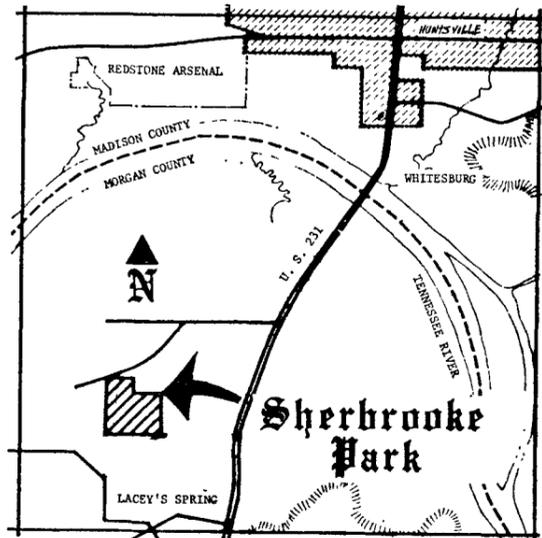


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Your Map to Better Mobile Home Living.



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WE MOVE YOU FREE WITHIN A 50-MILE RADIUS OF SHERBROOKE.

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Investigate Sherbrooke . . . Small Down Payment with Payments As Low As Rent.

DIRECTIONS: Go South on Parkway just past Tennessee River bridge turn right . . . Follow signs to Sherbrooke Park.

For Information Call . . . Bob Pritchett 539-7454  
Nights and Weekend 883-1283



**SCHEDULED TUESDAY**—Whether sightseeing on a weekend or going on a cross-country tour, Carol Lane, Women's Travel Director for Shell Oil Company offers tips for making every trip more enjoyable, no matter what the family budget. Miss Lane's first-hand knowledge of famous and little-known delights along our highways has earned her the title of "First Lady of Touring". Speaking Jan. 9, at 9:30 a.m. to the Redstone Officers Wives Club, Miss Lane will share information she has gained from planning and budgeting vacations, traveling with children, camping and a wealth of tips to help families have a wonderful vacation.

## Blood Donors Generous To Red Cross Bloodmobile

From 640 to 932 volunteers answered the monthly appeal for blood donations at Redstone during 1967 as Arsenal personnel exceeded all existing records with their response to the Red Cross Bloodmobile.

A total of 9284 voluntary donors were processed during the twelve monthly visits and they contributed 8544 pints of whole blood. The largest previous contribution was made in 1966 when 8291 volunteers contributed 7713 pints of blood.

This is the third consecutive year in which the monthly quota of 500 pints was exceeded in each of the monthly visits. The last time that the goal was not attained was November 1964.

On two difficult visits, in April and again in July, Blood Bank personnel put in a busy day processing 932 volunteer donors. The July total included a response to an emergency call by over 300 personnel of the Army Missile and

Munitions Center and School.

The Missile Command was represented in the overall Arsenal total by 4,042 voluntary donors. The Marshall Space Flight Center was credited with 2,349 volunteers while 2,167 answered the call from the Missile School.

The Sentinel Systems Command provided 108 contributors, 250 more volunteered from the Thiokol Corp. and Rohm and Haas Company was represented by 176 contributors.



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FREEDOM SHARES**

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## ALABAMA THEATRE

On the Mall  
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## MARTIN THEATRE

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20th CENTURY-FOX

**THE SAND PEBBLES**

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**NOW SHOWING**

WALT DISNEY'S  
**the Jungle Book**  
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The Jungle is JUMPIN'!

THE NEW . . .

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Huntsville's Newest and Finest

**NOW SHOWING**

Lee Marvin  
**"POINT BLANK"**  
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Mark Robson presents  
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LEE MARVIN  
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ANGIE DICKINSON  
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Suggested For Mature Audiences

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**1964 Buick Riviera**  
2 dr. hardtop, air cond.  
Full power. Nice.  
**\$1795.**

**1964 Chevelle**  
Chevrolet, 2 dr., 6 cyl.,  
radio, auto.  
**Special \$895.**

**1964 Falcon**  
2 dr., radio, heater,  
straight stick.  
**\$795.**

**1966 VW**

**Sedan Convertible**  
Solid red, black top, radio, white tires.  
**Special—\$1595.**

**1963 Buick**  
Convertible, V-8, Automatic, radio and heater.  
**Special \$695.**

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OTHER FRESH TRADE-INS TO CHOOSE FROM

## Universal Volkswagen

2305 No. Parkway  
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## Citation Goes To Supply For Support of Vietnam Based 79th Ordnance Det.

For the second consecutive year personnel of the National Inventory Control Point in the Supply and Maintenance Directorate have been cited for their outstanding support to the 79th Ordnance Detachment on duty in Vietnam.

The citation, including a handsome wall plaque, was forwarded by the officers and men of the 79th in appreciation of the day-to-day supply support rendered to the Hawk missile systems deployed in Vietnam.

It recognized the continuing success that has been attained through a special supply support plan implemented by the Missile Command in 1965.

The plan provides for the direct submission of requisitions to the Missile Command, by-passing immediate processing points. MICOM also serves as the single point of

contact for supply status and other logistic problems encountered by the field unit.

In essence the plan, called Stovepipe, enables the field unit to determine their requirements, prepare a hand-written requisition without recourse of funds availability, and transmit it by fastest means to the Missile Command. The clerical time saved in the field is then available for the performance of more urgent tasks.

Since the program provides for the receipt of unfunded requisitions and those for other manager items, special computer programs and procedures have been established for maximum "on-line" processing. Included are, citation of funds, obligation of the funds against programmed authority, priority supply of available assets,

## Lt. Col. Hart Talks Dental Health

Feb. 4-10 is the 20th annual National Children's Dental Health Week. As part of the observance, the Redstone Rocket, in cooperation with the Redstone Arsenal Dental Clinic and the Huntsville Dental Society, today begins a series of four articles on facts you should know about dental health.

As Deputy Dental Surgeon, LTC Richard Hart receives many questions concerning the dental health of his younger patients. Recently a parent asked him: "My child is only three years old and yet you say he has many badly decayed teeth. What caused this? I thought very young children didn't get decay."

As soon as teeth erupt into the mouth, they are exposed to decay-causing attacks by acids in the mouth, so even very young children can have decayed teeth. It is at this time that the teeth are most susceptible to decay. The important thing to remember is to protect your child by keeping his sweet intake down, because sweets are the leading cause of decay—in any age group.

In 1967, an American Dental Association editorial pointed out that "there is indeed a casual relationship between sugar and dental decay." The editorial also emphasized that "candy, especially sticky types such as carmel, is harmful to the teeth."

Care of your child's teeth, then, should begin early in his life. Train him early to limit sweets. Often, wise parents establish a once-a-week candy treat routine for their children, giving them sweets—in small amounts—on Sunday perhaps. I would add, too, that these parents teach their children to brush their teeth right after eating meals, even snacks. And, these

parents also prepare their children for professional care at about 2½ or 3, when all the primary teeth have erupted.

All of these factors—limiting sweets, brushing regularly after eating and routine professional care—play an important part in preventing dental decay and other dental diseases. If you follow these practices, your children will be assured good dental health all of their lives.

### Aliens Must Report

The Immigration and Nationality Act requires all aliens in the United States and its possessions on Jan. 1 of each year to report their addresses to the Attorney General during the month of January. There are serious penalties for willful failure to submit the report.

Cards with which this report can be made are available at any U. S. Post Office or office of the Immigration and Naturalization Service.

## \$12 Million Contract Let By Sentinel

Award of a \$12,053,399 contract to the Western Electric Company for increased production planning activities for the Sentinel anti-ballistic missile defense system was announced today by the Sentinel System Command at Redstone Arsenal, Alabama.

The award will result in an increased level of pre-production engineering and manufacturing preparation effort necessary because of the decision to produce and deploy the system.

Western Electric Company, which is the system prime contractor, has held production planning contracts for the anti-ballistic missile system for the past few years.

A major part of the effort will be performed at the company's facilities at Greensboro and Burlington, North Carolina, and Allentown, Pennsylvania.

However, a number of Sentinel subcontractors will also share in the award. These include: Martin Marietta, Orlando (Florida) Division, developer of the Sprint missile; McDonnell-Douglas Company, Santa Monica, California, developer of the Spartan missile; Raytheon Corporation, Bedford and Wayland, Massachusetts, developer of the Missile Site Radar; Sperry UNIVAC, St. Paul, Minnesota, which is developing Sentinel data processing equipment; General Electric, Syracuse, New York, developer of the Perimeter Acquisition Radar; AMPEX Corporation, which is also involved in data processing development; and Rohr Corporation, Chula Vista, California, involved in radar development.

The cost plus fixed fee contract was negotiated and will be administered by the Sentinel System Command Contracts Office at Redstone Arsenal.

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## Bang Up Deals You Won't Beat Anywhere . . .



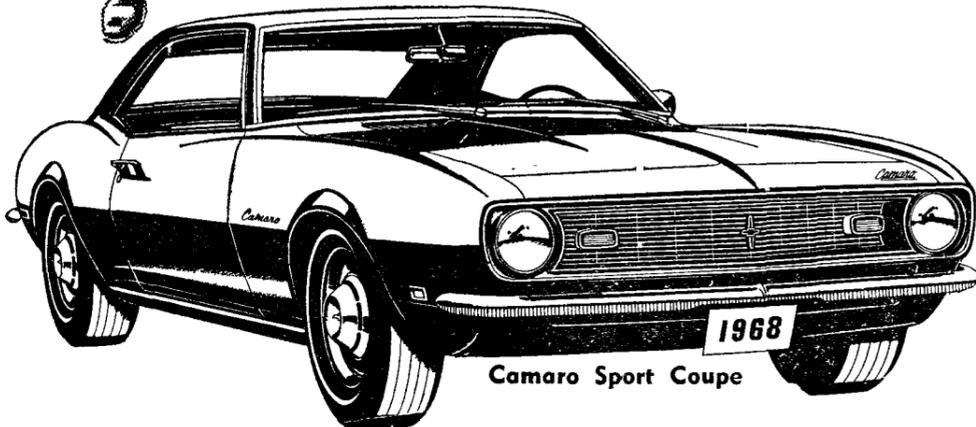
**This**

### Camaro Sport Coupe

Look all you want, but you have to drive Camaro to understand why it's called "The Hugger". Flat in the corners and arrow straight no matter where you launch it. Camaro gets its grip from 108" wheelbase combined with wide, wide stance (over 59" front tread), improved suspension system and other top chassis components like new bias-mounted rear shock absorbers. This Camaro comes with padded dash, white sidewall tires, wheel covers, heater and all standard safety equipment.

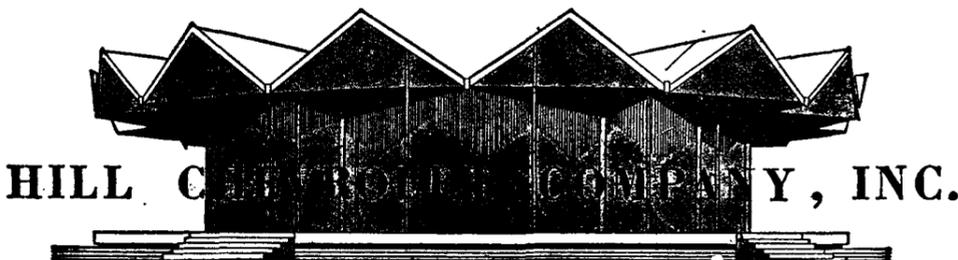
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**Only \$188.00 Down**



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