

Arsenal-Wide

Spot News

Dial 112

# The Redstone Rocket

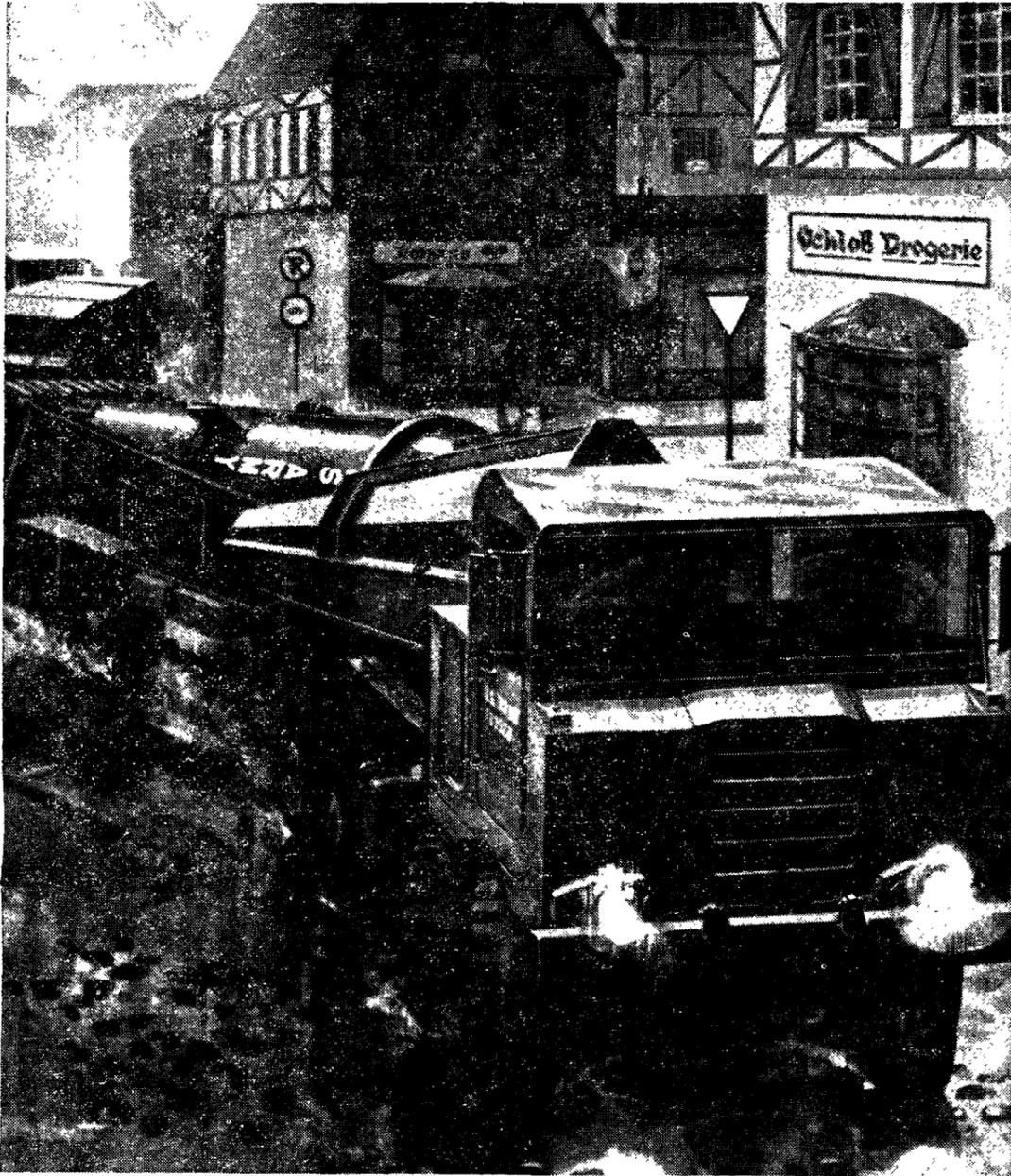
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VOL. XV; NO. 22

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 12, 1966

## PERSHING ROLLS ALONG



**PERSHING ON WHEELS**—This is an artist's view of the Army's Pershing missile on its improved erector-launcher, which is now under development. Incorporating other improvements in ground support equipment, the entire system—known as Pershing 1A—will be adapted to wheeled vehicles.

### Wheels Replace Track To Transport System

A firing battery operating in the field with Pershing, the Army's mightiest missile, soon will be taking on a new look as a result of improvements designed to increase rate of fire and reliability of the weapons system.

Under the improvement program—known as Pershing 1A—there will be no changes to the 34-foot-long missile, but several to ground support equipment used in counting down and launching it.

The biggest outward change will be in shifting from tracked vehicles to wheeled vehicles for transporting the missile system. The main reason for this is to reduce vibration to equipment during cross-country movement. And too, wheeled vehicles are not as expensive as those with tracks and require less maintenance.

Pershing is a highly mobile, quick reaction Field Army support weapon in operation with U. S. Army troops in the United States and Europe, and West German troops. The missile, with a range of from 100 to 400 nautical miles, is armed with a nuclear warhead.

Mounting a firing battery on wheeled vehicles will not cut down on the "shoot and scoot" capability of Pershing. Vehicles with steel tracks can move over more rugged terrain, but the range and effectiveness of Pershing's warhead allows considerable choice in selecting a launch

### The Bloodmobile Visit Will Be October 19

site vehicles which wheels can get to.

There will be four firing batteries in a Pershing 1A battalion. A battery will have several missiles, each on an improved erector-launcher mounted on a flatbed semi-trailer truck. The two solid propulsion stages and the guidance and control section will be carried fully assembled, thus saving time now needed for assembling and reloading. The warhead section will be transported on the same vehicle, ready for fitting to complete the missile.

The improved programmer test station/power station, radio terminal set and new firing battery control center will be hauled on five-ton trucks.

The Pershing Project Office at the Missile Command is responsible for technical management of the weapons system. Lt. Col. Ed Rudd, is Pershing Project Manager.

## Compact BTE To Control Air Defenses

What's bigger than a breadbox but smaller than a large suitcase? It could be the Army's new Battery Terminal Equipment (BTE) developed for missile fire distribution systems.

Testing is now under way on recently delivered prototype micro-electronic data processing units designed to control and coordinate Army surface-to-air missile batteries around the world. Litton Industries' Data Systems Division of Van Nuys, Calif., and Martin Co., Orlando, Fla., built prototype units on a competitive basis for the U. S. Army Missile Command's Air Defense Control and Coordination Systems Office. The units are now being tested by the Army Test and Evaluation Command.

Although the competitive units vary slightly in weight and size, each weighs less than 200 pounds and both fit containers which resemble a suitcase.

Packed with electronic circuits, the Battery Terminal Equipment is designed to replace old equipment that weighs more than 5,000 pounds and requires a van or building to hold it. In addition, the BTE requires only 250 watts single-phase primary power as compared with present equipment requirements of 7,000 watts.

Integrated Circuit electronic packaging is one of the secrets of the new Battery Terminal Equip-

ment. It does not require air conditioning and is expected to operate for more than 2500 hours without malfunction.

Even should a malfunction occur, the equipment can be restored to operation in minutes. The system has a self-check capability that gives an audible and visual

alarm should a malfunction develop. Built-in test circuits locate the trouble area and simplified procedures permit rapid isolation of the faulty part and replacement within minutes.

Through use of common components, the new system permits (See COMPACT on Page 3)

## Next Spring MAW Will Fire On Cape Kennedy

Test firings of the Army's medium anti-tank/assault weapon system (MAW) will begin early next spring on an overland range at Cape Kennedy, Fla.

Development firings will be conducted by McDonnell Aircraft Corporation, MAW prime contractor, under the direction of the Army Missile Command which manages the shoulder-fired weapon system. Lt. Col. John H. Boyes is Project Manager.

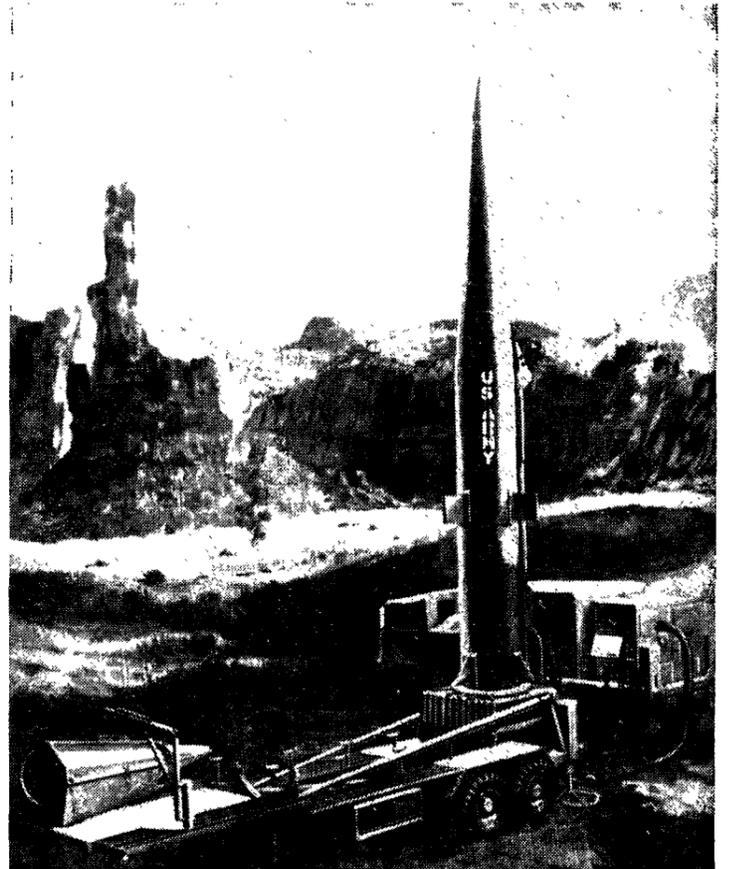
Firings at the Cape will be coordinated through Col. C. L. Ferrell, Chief of the Army Field Office at the Eastern Test Range and the Army's Test Director for Cape Kennedy.

MAW will be the first Army weapon system tested at Cape

Kennedy since firings of the Pershing missile terminated there in 1963.

McDonnell has announced the formation of a new division at Titusville, Fla. With the addition of range facilities, McDonnell's Florida Division has capabilities for complete MAW program development—including engineering design, testing and manufacture of production hardware.

Having test facilities reasonably close to the contractor plant will result in substantial savings to the Army since missiles won't have to be shipped to Redstone Arsenal for every shot. More advanced testing, however, including missiles with live warheads, will (See MAW on Page 3)



**PERSHING'S NEW LOOK**—The Army's longest range ballistic missile, Pershing, is being improved under a program designed to increase its rate of fire and reliability. The improvement program—known as Pershing 1A—will result in several changes to ground support equipment, but none to the 34-foot-long missile. In this artist's concept, a Pershing 1A is shown on the erector-launcher (EL) ready for firing. On the opposite end of the EL is a shroud which houses the missile's warhead section during overland movement. Parked nearby is the programmer test station/power station. Tracked vehicles are being replaced by wheeled vehicles to transport a Pershing 1A firing battery.

# 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., Bldg. 5250, Room A-136, Extension 876-1400 or 876-1500.

All advertising copy and payments therefor are received by Mrs. Vergie Robinson, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—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 \$6.36 a year, or \$3.50 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Huntsville, Ala.

## Rocket Ruminations

The finger that turns the dial rules the air . . .  
—Will Durant

## If A Fire Starts!

If a fire starts in your home, school, or place of business, call the fire department immediately.

All fires are little ones when they begin, and the first five minutes is the crucial period if fire occurs, the experts tell us. Firemen are trained to extinguish fires before they get out of hand.

Not so long ago, a man in the northeast found an upholstered davenport smoldering in the living room of his home—someone had dropped a cigarette on one of the cushions. He went to the kitchen, filled a pan with water and came back and doused the flames. He assumed the fire was out, hauled the davenport out of the house, and placed it on the front porch. Then he retired. There was still a small spark in the upholstery. A brisk wind arose, and fanned the ember into a flame. Before the fire was rediscovered, the house burned to the ground.

If you have a fire, get everyone out of the house, then call the fire department.

Property can be replaced, but a life can not!

## Print Shop Help Needed

The Reproduction Division, Arsenal Support Operations Directorate, presently has 13 vacancies including Film Assembly-Strippers, Offset Photographers, Offset Press Operators, Reproduction Equipment Operators and Bindery Work-

### Traffic Enforcement

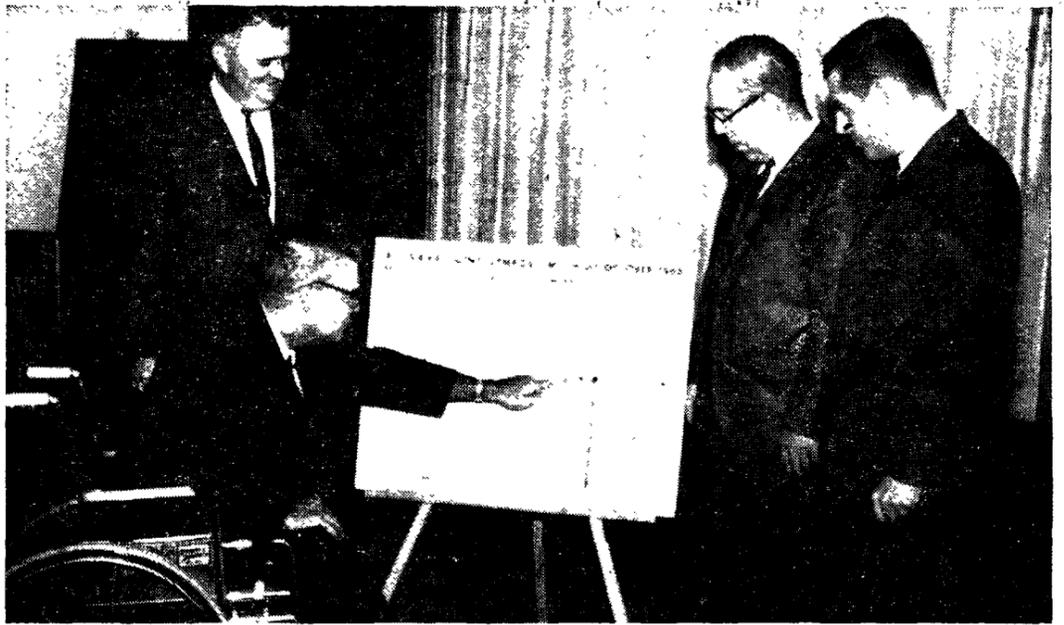
Violations .....	49
Accidents .....	5
Property Damage .....	\$258.

ers. The salary for these positions range from \$2.48 per hour to \$3.16 per hour depending upon the position and the experience of the applicant.

Persons selected for these positions will be employed on a Temporary-When-Actually-Employed basis. Under this type of appointment, the number of hours worked per week is limited to 32, and there is no scheduled tour of duty. For these positions, the hours of duty will usually be on the second shift, on weekends, and on holidays.

Interested applicants should contact Berney Waite, Civilian Personnel Office, Telephone 877-4127

Drive Defensively



**PUSHING PLANS FOR MEETING**—Plans for a Joint Symposium by the American Association for Contamination Control and the Society of American Value Engineers are well under way. Arthur Harvey of the Army Missile Command points to the schedule of events as he discusses the meeting with SAVE co-chairman Calvin Sanderson of Thiokol Chemical Corp., John Heath of the Army Missile Command and John L. Coan of Astro Space Laboratories, Inc., co-chairman for AACC. The Symposium will be held Oct. 19-21 at Sheraton Motor Inn, Huntsville, and will provide technical meetings and exhibits for the Southeast Region of the sponsoring organizations.



**WHO'LL BE FIRST?**—Before the Combined Federal Campaign got started Maj. Gen. John G. Zierdt cornered the drive chairmen of the three large directorates and asked them who would turn in the first 100 per cent participation report. The answer came early this week when Len Twinem (left) received the pledge card that boosted Supply and Maintenance over the top. Willard Collins (next to Twinem) of Procurement and Production, and Will Lewis, Research and Development, are neither very far behind and still have hopes of equalling the fine S&M showing.

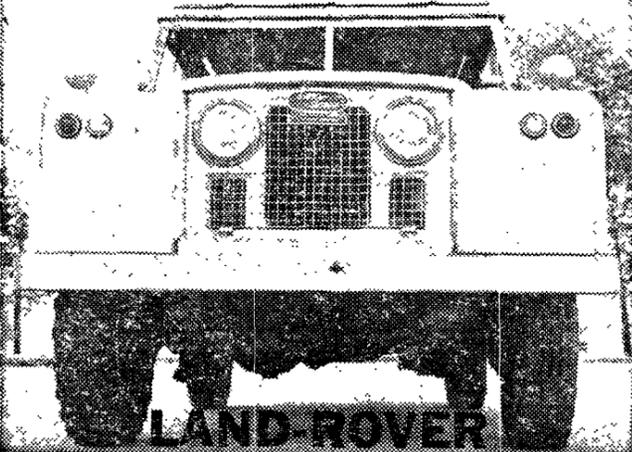
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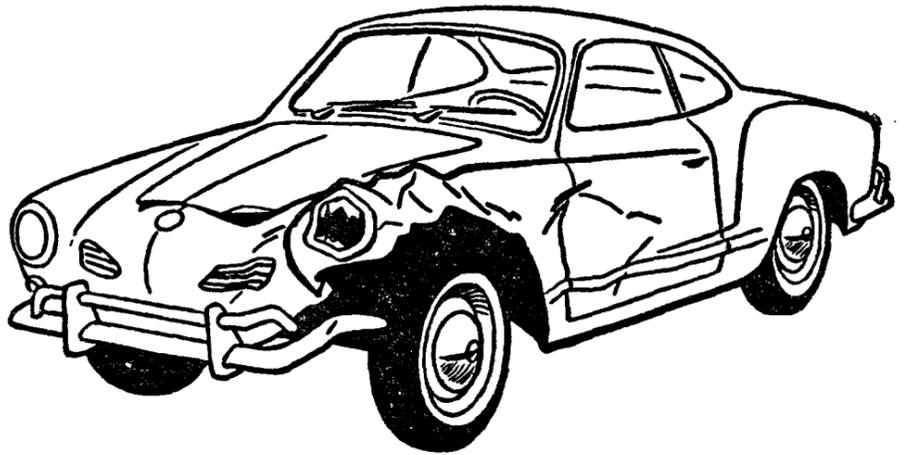
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# Public Sees First Self-Propelled Hawk System

The first public showing of the new Self-Propelled Hawk missile system, which was developed for use in forward area combat zones, was made Monday by the U. S. Army Missile Command and Raytheon Company at the annual meeting of the Association of the U. S. Army in Washington, D. C.

The self-propelled concept combines the proven effectiveness and reliability of the present Hawk missile system with the degree of mobility necessary to keep pace with today's combat division. It can traverse rough terrain, be quickly emplaced and has the firepower and effectiveness to counter successfully the low altitude air threat present at the Army division level.

Key to this mobile self-propelled unit is the Self-Propelled Launcher (SPL), basically a tracked vehicle, the XM-727, with a Hawk launcher mounted on its bed. Three SPL's, each carrying three ready missiles, utilizing on-board generated electrical power, and towing the associated detection, tracking, and control equipment make up the Self-Propelled Hawk firing section. The detection and tracking equipment consists of a continuous wave acquisition radar for target acquisition and a high-powered illuminator radar for acquiring, tracking, and illuminating the target. A platoon command post acts as both the control and communications center for the firing section.

The new Self-Propelled Hawk unit has undergone extensive testing over the past two years. In 1964, a Self-Propelled Launcher, with 3 missiles mounted, was put through a series of feasibility trials over rough terrain of White Sands Missile Range, N. M. More recently a Self-Propelled Hawk unit underwent combat suitability

tests at Camp Roberts, Calif.

Hawk is a 16-foot-long solid propellant missile capable of searching out and destroying high performance aircraft or air-breathing guided missiles from tree-top level to medium altitude. It is operational with United States Army and Marine Corps troops around the world.

The missile system is managed from the Army Missile Command Col. George H. McBride is Hawk Project Manager. Raytheon Company is system prime contractor.

## ARMY AWARDS TOW CONTRACT

The U. S. Army has awarded a \$3,917,972 contract to Hughes Aircraft Company for continued research and development of the TOW weapon system and for support of engineering service tests.

Work under the multiple incentive contract will be done at the Hughes plant at Culver City, Calif.

TOW is one of the Army's newest guided missile systems being developed for the infantryman for use against tanks and field fortifications. Effective against moving or stationary targets, the tank killer can be carried by troops and fired from a ground emplacement or it can be mounted on a variety of vehicles.

The TOW program is managed by the Missile Command, under Col. James N. Lothrop, Project Manager. Hughes Aircraft Company is prime contractor.

Negotiating the contract for the Army was Systems Contracts, Division A, of the Missile Command's Procurement and Production Directorate, headed by Col. E. J. McGinnis.

# Zeus Passes First Full Duration Test

The first full duration test firing of the second stage motor for the U. S. Army's improved Zeus anti-missile missile was conducted recently at Redstone Arsenal, Ala.

Thrust and burning time of the motor are classified. The Army's Nike-X Project Office said the captive firing was a complete success.

The motor is a major component of the new long range interceptor missile being developed for the Nike-X missile defense system. The improved Zeus is a longer and heavier version of the missile which has successfully intercepted both target nose cones boosted by intercontinental ballistic missiles and a satellite in orbit about the earth.

Both missiles use three solid fuel propulsion stages, including a "jet head" third stage for maneuvering outside the earth's atmosphere.

The second stage motor recently tested was loaded by the Huntsville (Ala.) Division of Thiokol Chemical Corporation, propulsion subcontractor on the improved Zeus which is being developed by the Douglas Aircraft Company of Santa Monica, Calif.

The Nike-X Project Office of the U. S. Army Materiel Command manages the entire program from headquarters at Redstone Arsenal, Ala. Western Electric Company is the prime contractor. Bell Telephone Laboratories are responsible for the Nike-X design and development.

# Hawk System Undergoes Evaluation

More than 100 representatives of various Defense Department agencies and several industrial firms met at the U. S. Army Missile Command here last week to evaluate work being done on the Improved HAWK air defense missile.

The Pre-Design Characteristics Review was one of the several similar such reviews held during the research and development phase of the improvement program, which will result in a more reliable and capable weapons system.

Col. George H. McBride, HAWK Project Manager, was chairman of the three-day meeting.

The 16-foot long HAWK is being equipped with a new guidance package, larger warhead and better motor propellant under the improvement program, although configuration of the missile will not change. Ground electronics equipment used to checkout, countdown



**SHOULDER-FIRED ANTI-TANK MISSILE**—This missile, along with a lightweight launcher, is being developed for the infantryman as a shoulder-fired medium anti-tank assault weapon system. The holes mounted in rows around the missile skin are small rocket motors which fire in flight to boost the missile toward its target and apply corrective control forces to maintain the gunner's line-of-sight path. Now in engineering development, the weapon system is managed by the Missile Command. McDonnell Aircraft Corporation, St. Louis, is prime contractor. Lt. Col. John H. Boyes is Project Manager.

## COMPACT

(Continued From Page 1)

a reduction of at least 10 to 1 in spare parts compared to the present system, eliminated the need to stock a wide variety of repair parts. Because of this commonality feature and the high reliability built into the components, it is possible to throw away those circuits in which a malfunction develops. This, in turn, eliminates the cost of complex test equipment, spare parts and personnel training.

Designed and developed for use with the Army Air Defense Command Post and Nike-Hercules and Hawk air defense missile systems, the Battery Terminal Equipment can automatically transfer data to other batteries within the air de-

and launch the missile also is being improved.

## MAW

(Continued From Page 1)

be conducted by the Missile Command's Test and Reliability Evaluation Laboratory at Redstone.

Weighing in at 27 pounds, MAW is the Army's answer to the front line soldier's need for a guided missile system light enough to be carried by one man, to be shoulder fired and yet having a warhead big enough to destroy most armor and other infantry targets encountered on the battlefield. MAW will be superior in range, accuracy and lethality to the 90mm recoilless rifle, which it will replace.

ense complex should there be a breakdown in communications with the Air Defense Command Post.

Col. M. W. Pettit heads the missile command's Air Defense Control and Coordination Systems Office that developed the BTE.

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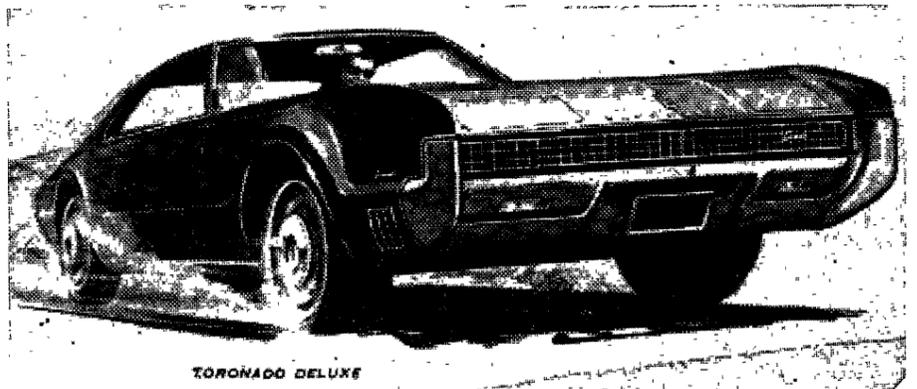
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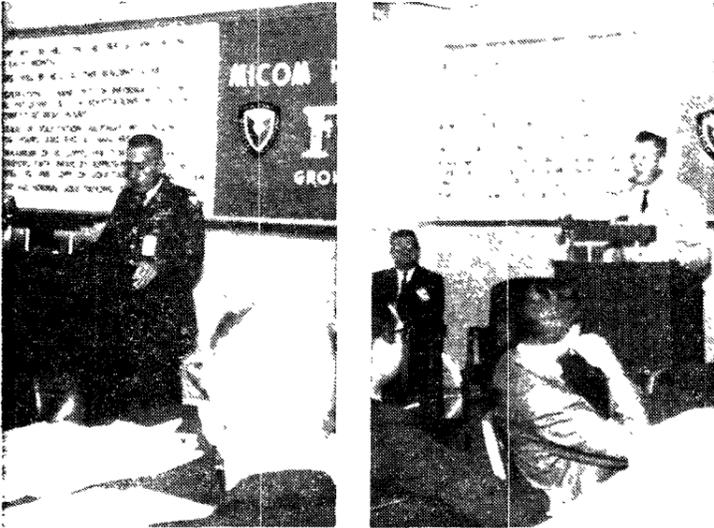
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**THEY CAME TO THE FAIR**—Scenes from the Army Missile Command's first Procurement Fair reflect some of the activity when more than 225 representatives from 177 firms in 18 states flocked in to Redstone last week to participate in the opportunity to learn of requirements for Army missile parts. In the upper left, attractive hostesses from the Procurement and Production Directorate assist visitors at the registration desk. Col. E. J. McGinnis, center, left, opened the Fair and Maj. Gen. J. G. Zierdt, Missile Command Commanding General, welcomed the contractors. After the visitors had pored over the material at hand, workers busily assembled the procurement packages which interested them, and the bundles were distributed to them on the spot to take back to their companies and prepare bids or proposals for some \$1.5 million worth of business.

(Story on Next Page)



### COMBINED FEDERAL CAMPAIGN

Organization — Chairman	Tot. 1966 Contribution	1967 Gift Four Weeks	Per cent Completed
General Support & Personal Staff — Robt. Lowery	\$ 5,989	\$ 5,350	88
Qual & Rel Mgmt—Aaron Brackeen	1,321	1,591	100
ADCCSO—B. A. Ingram	1,629	1,644	100
AMMCS—Lt. Col. R. J. Percy	14,882	17,725	79
C & DP—Abner McNaron	2,336	2,618	100
Proc & Prod—Willard Collins	32,226	31,631	89
Res & Dvmt—Will Lewis	39,641	37,054	95
DASO—George Parker	59,997	54,304	86
Air Defense Sys—A. E. Tarwater	13,038	10,274	88
Nike X—O. E. Ova	9,246	10,061	99
Sup & Maint—Len Twinem	37,963	41,238	100
Land Combat Sys—Bob Malone	15,848	13,324	94
Msl Intell—J. A. Lynch	1,430	1,938	100
Rohm & Haas—P. T. Campbell	7,178	7,908	85
Thiokol Corp—B. D. Herbert	20,912	21,889	87
<b>Total</b>	<b>\$263,636</b>	<b>\$258,849</b>	<b>89%</b>

### Army Agencies Almost Topping Own Gift Record

"Army agencies will have made their largest contribution ever to a fund raising drive at the Arsenal by the end of this week," is the firm conviction of Leonard Brockman, chairman of the 1967 Combined Federal Campaign. Brockman based his view on the fourth weekly report made last Friday which listed cash donations and payroll deduction authorizations totaling \$258,849. This is within \$5,000 of the record contribution of a year ago. "I will be reporting a new record donation by the end of the week," the chairman confidently stated on Monday. However, he added, the tremendous job that has been done by

the Army agencies may be limited in the overall drive. The total amount collected to date is running over \$10,000 behind last year and appears to have been just about completed. Nine of the 15 reporting agencies in the Army drive have already turned in larger contributions than a year ago with the Supply and Maintenance Directorate and the Missile and Munitions Center and School showing very substantial increases. S & M has reported 100 percent participation with a total contribution of \$3,275 higher than last year. In MMCS the increase totals \$2,843 with 79 per cent participation. Other organizations reporting

increased gifts are, the two contractor plants, Rohm & Haas and Thiokol, in addition to the Quality and Reliability Management Office, the ADCCSO Office, Comptroller and Director of Programs, Nike X, and Missile Intelligence. Brockman indicated that the drive will probably be completed this week, a week ahead of the planned completion date. This will also go down as an accomplishment since it will mark the shortest solicitation period for a drive of this kind. "Overall," Brockman commented, "this has been a very successful drive and one that is almost sure to continue Redstone in a leading place among Federal installations across the country." Help stop the gold flow. If serving overseas invest in the new Uniformed Savings Deposit plan at 10 per cent interest.

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# Industry Representatives Come To The Fair

The Army Missile Command's first Procurement Fair held last week at Redstone Arsenal was termed completely successful by both the Army and the more than 225 visiting industry representatives.

Visitors were enthusiastic about having the Army requirements for missile parts available at one time and in one place, and went home with \$1.5 million worth of packages on which to prepare bids or proposals.

Some 175 companies from 18 states attended the day long event, the first of a continuing series of

(Pictures on Page 4)

Fairs planned by the Missile Command Procurement and Production Directorate for the first and third Wednesday each month.

At the opening of the Fair, Col. E. J. McGinnis said, "As the Command's Director of Procurement and Production, my primary task is to procure and get delivery of the required missile systems and repair parts for reasonable prices, from qualified sources as rapidly as possible.

"We are certain that working diligently together, we can substantially improve our delivery of good items to support the deployed missile systems. The mass solicitation of a large segment of the industrial base for missile parts is feasible, utilizing the Procurement Fair technique. It will insure that we are in fact affording industry the opportunity to participate in our procurement program."

Maj. Gen. John G. Zierdt, the Missile Command Commanding General welcomed the visitors, and told them "We spend millions of dollars each year for repair and components needed to supply and maintain our missile systems throughout the world. These requirements represent thousands of individual procurement actions of relatively small dollar value, collectively however, they amount to several millions of dollars."

The General pointed out that the objective of the Fair was to acquaint contractors with the Army's requirements for these components and to facilitate operations for both the government and industry.

The next Fair will be Oct. 19 starting at 8:30 a.m. in Building 4488 at Redstone. Those who attended the Fair this week, and other interested firms are invited to participate. For further information, phone 876 5441 or 876-3567.



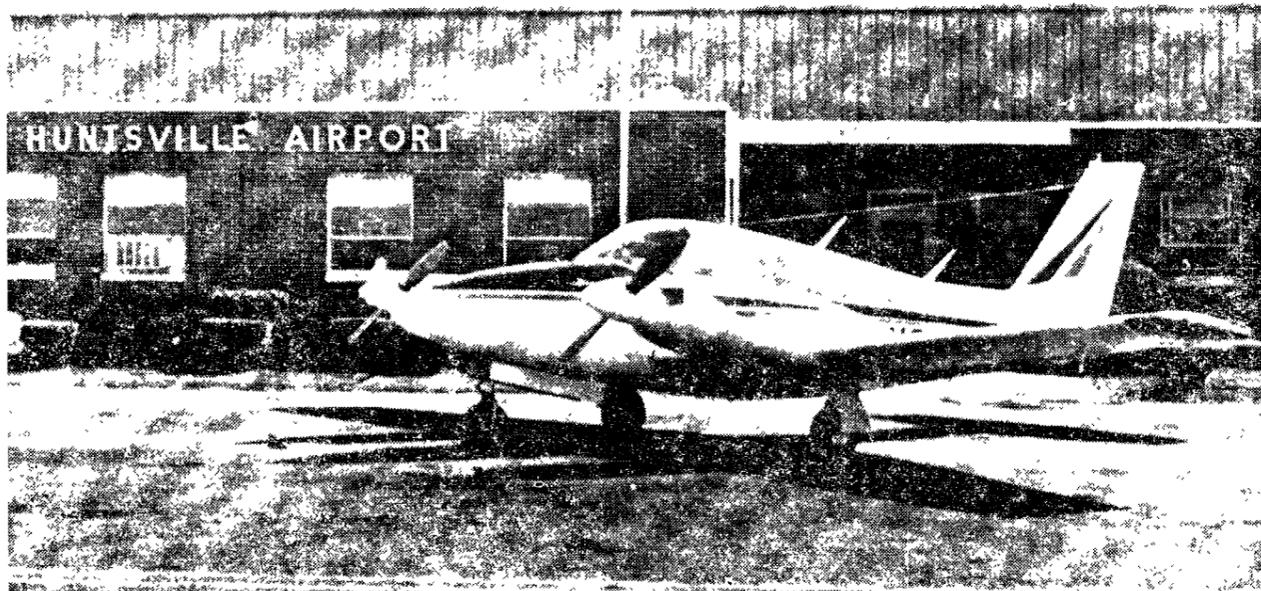
**TOW HELICOPTER TALK**—Taking time out for an informal chat about advances in aircraft armaments are three missilemen who headed a Design Characteristics Review of the TOW Helicopter Subsystem (XM-26) recently at the U. S. Army Missile Command. From left are Brig. Gen. E. I. Donley, Deputy Commanding General for Land Combat Systems; Col. Nelson Lindstrand, Jr. Project Manager for all Aircraft Weaponization at the Army

Matériel Command in Washington; and Col. Cyril D. Sterner, Commodity Manager for Land Combat Systems at the Missile Command. During two days of talks here, military and industrial agencies concerned with development of the TOW Helicopter Subsystem discussed design of prototype system hardware.

The Redstone Rocket — Oct. 12, 1966 Page 5

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# Bombers Challenge Arapahoes For Grid Title

## Management Pin Spillers Continue Their Hot Pace

With the bowlers in two of the civilian leagues still trying to figure out the right angles on the pins, those in the Supply Management started out in high gear and have kept right on blasting through four weeks of the season.

Seven of the ten Honor Roll totals have been rolled in the Management loop with the other three coming in the Field Services League. The best that the AMC League has been able to muster has been a pair of near misses.

Better than that no less than seven of the Management keggers still boast of averages over 180 led by D. B. Smith's 189.

Tom Patterson shot the Seventh Honor Roll count last week when he shot games of 204 and 244 after an opening 193 for a 641 count for Pearsall Flowers. However, Patterson's outburst went for naught when the Auto Center fired a 3038 team total to win all four points and take over the league's top rung.

Tank Yong paced the Center to their big total with a 580 and Hal Williams chipped in with 564. Young had a 222 and Williams a

218 in the third game to offset Patterson's big game.

Three other sweeps were recorded in the league with the Pin Busters cooling off the 7-Ups, the All Sports Trophies taking the measure of Lily Flagg and the Brick and Tile five taking all four from the Manglers.

Mell Webb shot a 575 for the All-Sports, Billy Tippins led the Tilers with 571 and Jim Wiswall and Howard Helmick shot 566 and 563 respectively for the Pin Busters. Jerry Gist turned in a 564 in the losing 7-Up Attack.

Although they didn't come up with any Honor Roll totals, the Tow Boys turned in a great team effort in the AMC League when they felled 3033 maples for a clean sweep win over the T-Birds. Monroe Bates set the pace with a league-leading 578 and Ron Lemanski pitched in with a 540.

Elsewhere in the league the Tigers scored the only other sweep at the expense of the Packers and the Ramblers held onto their lead with three out of four from the Lancers and the Bombers stayed in second with three points from the Skippers.

Nick Sparks grabbed the weekly individual honors in the Field Services loop with a 589 for the Guided Muscles with Mike Shuput close behind with 585 for Banner TV.

Sparks' efforts were not enough to stave off the Crackers who took three points from the Musclemen but it was enough to hold his mates in first by a slim half point over the TV quintet who took all four from the Keglers.

Troy Faulkner led the Crackers against the leaders with 550 while Howard Jess did him one better with a 551 for the Muscles.

## Angels Nab Lead In Tuesday Loop

Bowling in the Thursday morning ladies league last week turned out to be an all or nothing proposition with each of the four matches ending in a clean sweep.

The Angels used their sweep over the Rare Spares to jump over their victims into the league lead. The Bowling Bags won all four from the Splatter Pins, the Tipsters did the same to the Do-Nothings and the Four Hopefuls won everything against the Queen Pins.

Ann Wiener took the weekly individual honors with a 192 game and a 536 set in pacing the Hopefuls to their win. June Handy was runner up in each category with a 181 game and a 481 set for the Do Nothings.

Mustang attack with the passing of quarterback Snow and the receiving of Miller giving the 110-pounders a potent double-barreled offense.

The Jets in the 80-pound class have posted wins in each of their two starts for the season and were scheduled to try for their third last night.

With 500 fans cheering to bugle strains of "Charge" the Bombers sank the Hawks 44 to 6, in an Arsenal football league game Sunday.

The Bombers first touchdown came as quarterback Foster led his team 52 yards to paydirt. The drive was capped by a two yard plunge by Foster. In the second period Bomber tackle Gagnon intercepted a blocked pass and rambled 14 yards for the score. Minor added two extra points.

After taking the second half kickoff Bomber quarterback Williams masterfully led his team 72 yards for a score, capped by a 20 yard run by Stokes. Two minutes later Bomber tackle Snider rassed the ball from the Hawk quarterback and ran 20 yards for another score.

Later in the third period the Bombers moved 64 yards to a score capped by a 15 yard sweep by Williams.

In the final period the Bombers moved 68 yards to paydirt as the Bomber workhorse Minor swept his right end for the last 30 yards. The final Bomber score came when Snider took a screen pass and bulldied his way for a 44 yard score.

The lone Hawk tally came in the last 9 seconds of the game on a beautiful 92 yard pass play from quarterback Cox to Loose.

After the game Coach Merle praised the dogged defense led by Snider, Ben Henderson, Kirby, Gurr, and Anderson for their play.

## Carl Bayer Tops In A-B-C League

It was a night for individual heroics in the A-B-C Officers bowling league last week with two Honor Roll scores and a near miss going into the books.

Carl Bayer and Don Vanderheyden turned in the better than 600 efforts with 618 and 602 respectively, while Duane Ready came within one mark of the magic figure and settled for 590.

Vanderheyden shot a 202 and a 216 in his string to lead the Lucky Strikes to three wins over the Hopefuls. The wins boosted the Strikes into the league lead.

Bayer also tossed a pair of better than 200 games with his 226 and 211 to provide the drive for Saturn to take three from the Wheelers.

The Pin Splitters, with Ready in the driver's seat took all four from the Mixers and the War Hawks followed Ron Macey's 565 lead for a 3 to 1 win over the Black Jacks.

## Capt. Greer Talks At Graduation

The guest speaker at the Missile and Munitions Center and School, Friday told 84 graduating students. "Today, more so than perhaps at any time in the last 10 years, we face a situation when missile units may receive their baptism of fire in actual combat."

Capt. William B. Greer, former aide-de-camp to Brig. Gen. Edwin I. Donley, Deputy Commanding General, Land Combat Systems at the U. S. Army Missile Command, addressed 83 U. S. Army students and one U. S. Marine at formal graduation ceremonies in the post theatre.

Capt. Greer cited a Hawk unit and its supporting elements now deployed in the critical area of South Vietnam and said, "This test of combat could come at any time."

In his speech, Capt. Greer urged the men to always strive for perfection in their work. He said, "There is no margin for error in your profession. You have but one chance — when your weapon is called on. It must fire and it must be right."

Academically, six students were honored as top graduates of their classes. They were: SSG Robert C. Jenkins, PFC John P. Fibranz, Pvt. Loven E. Peehls, Pvt. Dennis J. Sndek, Pvt. Herminio Rivera-Rivera, and Pvt. Robert L. Ahlberg.



CAPT. WILLIAM B. GREER

## Youth Gridders Play Thursday

Two of the three Redstone Little League football teams will be in action tomorrow evening at Huntsville's Optimist Park in the Parks and Playground football program.

The 95-pound Eagles will be out to hang up their first win after three losses in the 7:00 p.m. game and the 110-pound Mustangs will try to make it two in a row an hour later.

Last week the Mustangs broke into the win column for the first time with a 7-0 win over the Continental League as Steve Joslyn drove over for a touchdown and Chuck Snow added the point.

Several of the Mustangs turned in outstanding performances in the defensive battle. Ervin Nichols, Murdock MacIver and Ronnie Lowery led the line charge with Gary Miller and Klay Hughes playing good ball in the secondary.

Joslyn and Greg Lucas were the principal running threats in the

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# Missilemen Visit Japan

The two speakers didn't understand a word of their introduction—and many in the audience understood little, if anything, of what the speakers were saying.

But translators bridged the language gap from East to West and the message was delivered by missilemen from Redstone Arsenal this week in talks with Japanese industrial leaders.

Kenneth E. Joy and Horace R. Lowers, both of the U. S. Army Missile Command were guests of honor and featured speakers today at the 7th Japanese National Plant Engineering and Maintenance Show and Conference. Held in Tokyo International Trade Center Hall, the conference was attended by business executives from all over the world. Lowers is Chief Engineer and Joy heads the Quality and Reliability Management Office at the Missile Command.

The conference launched a whirlwind of activities for Joy and Lowers who are touring the heart of Japan's industrial empire to observe, and discuss, with their hosts, quality and reliability management practices.

During the next two weeks, they will visit industrial facilities in Tokyo, Yokohama, Osaka, Kobe, and Nagoya.

They are guests of Kakuzo Morikawa, President of the Japan Management Association, who said, in inviting them:

"Your visit will enable us to exchange knowledge in the fields of quality assurance and reliability

## Rounders Try to Halt Black Jacks

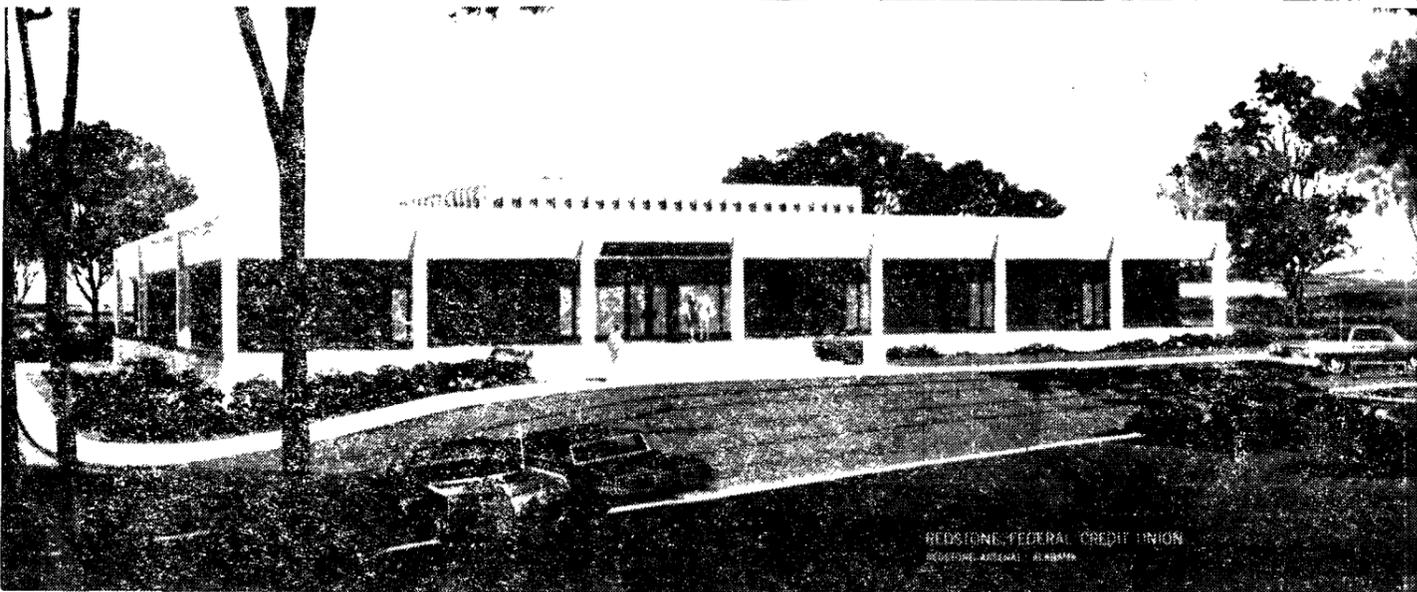
The first crucial match of the MMCS Officers bowling season is on tap for Thursday evening at the Post Lanes with the Black Jacks and the Rounders set to go at one another in a battle for first place.

Each of the contestants captured clean sweep wins last week and the Jacks will take a slender one point lead into the match. They have won 19 out of 20.

Ron Parker shot a 573 and Tom DeLoach chipped in with a 510 in pacing the Jacks against the Satellites while the Rounders were having the same luck against the Swags as Al Leonard led a well-rounded attack with 509.

Tom Wilkerson fired a 230 game and a 591 series and Don Davis turned in a 535 effort in the losing Swag attack.

In other matches the Rocket Rollers moved out of the cellar and shoved the Squirrel Hill Mob in by taking all four points of their match and the Hubs won three out of four from the Bad Gnus.



**NEW CREDIT UNION**—This artist's concept represents the building for which ground was broken Monday. It will be the headquarters for the Redstone Federal Credit Union, a non-profit organization with 30,000 accounts representing the Army civilian and military savers and borrowers, Marshall Space Flight Center, and

local missile industries. It is located north of Holmes Street facing Sparkman Drive. The site covers 6.2 acres of land in Research Park. The building will have 14,900 square feet of space for headquarters of the Credit Union which now has \$18 million in assets.

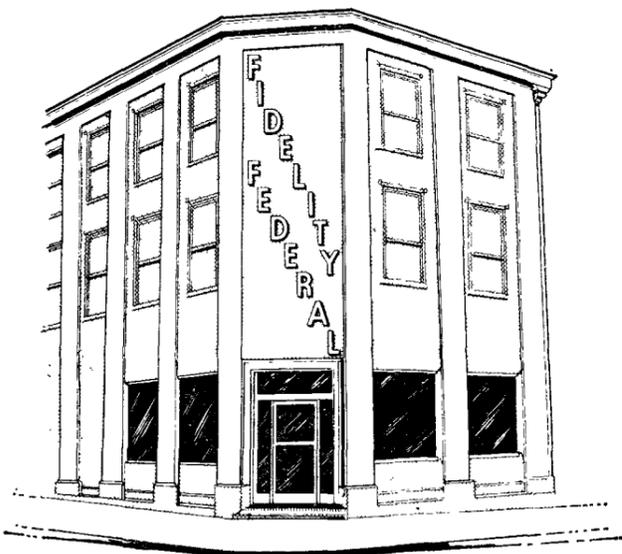
—and afford you a first hand opportunity to see some of the advancements we have made in Japanese industry.

Setting the stage for their talk in Tokyo was a four minute film showing some of the missile activities at the Missile Command, along

with an introduction, in Japanese, explaining the reason for their visit. Narration in the introduction was done by a Japanese student now attending the Army Missile and Munitions Center and School at Redstone Arsenal.

TRUSTEES OF THE DAEDALIAN Foundation have established an annual Graduate Fellowship in Aeronautics, or Astronautics, to be awarded, in turn, to a graduate of Air Force Academy, Military Academy, Naval Academy, and

Coast Guard Academy. Announcement by Maj. Gen. N. B. Harbold (ret.), national commander, Order of the Daedalians, said award will be made to a graduating senior selected by his academy and will cover tuition and related education fees up to \$2,500. (AFNB)



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## OFFICERS WIVES SCHEDULE TRIP

The Redstone Officers Wives Club is sponsoring an overnight, scenic tour of Gatlinburg, Tenn. Oct. 20-21. Plans include visits to Gatlinburg annual crafts fair, the Atomic Energy installation at Oak Ridge, and a Cherokee Indian village. Paid reservations must be made by Thursday, Oct. 13.

For further information, call chairman Mrs. A. W. Meagher, 536-3980, or Mrs. A. G. Richardson, 877-9867.

Those eligible to take the tour are members of the Officers Wives Club, their immediate families and house guests.

## Toastmistress Holds Debate

"It Ain't What You Say, It's the Way You Say It" was the subject debated at the Huntsville Toastmistress Club's meeting on Wednesday evening at the Russel Erskine Hotel. Speaking for the affirmative were Mrs. J. W. Linton and Miss Nell Curtis and for the negative, Mrs. Ralph A. Holmes and Mrs. Marguerite Martin. Chairman of the debate was Mrs. R. P. Hearn, who explained the rules for the debate and asked those present to serve as judges. Judged as winner was the affirmative team.

Mrs. Noel Donlin presided during the business session. Topics were presented by Mrs. Joseph Duchac who used the theme Self Expression. Mrs. R. M. Coulter and Mrs. Linton were named best topic speakers.

The next meeting of the club will be the Founder's Day program on October 19, at the Russel Erskine Hotel. This will be a Public Relations program with representatives of local news media presenting the program.

Mrs. E. E. Croons was a guest for the meeting.



**PLANNERS**—The committee in charge of yesterday's Recruiting Coffee for the NCO Wives Club prepared for the event over cups of brew. One of the reasons the recruiting effort was made with a welcome coffee at the Redstone Officers Open Mess was to give wives of NCOs stationed in this area a chance to have a voice in

governing the activities, both recreational and civic, at Redstone Arsenal. The committee is (reading from left): Mrs. A. E. Mitchell, Mrs. John Mazikowski, Mrs. James R. Huff, Mrs. Earl Brennan and Mrs. James P. Gist, chairman.

## DR. PHILPOT TO BE SPEAKER

Dr. Frank N. Philpot, President of Athens College, will address members and guests of the Huntsville Chapter, Society for Personnel Administration at their meeting on Tuesday.

Dr. Philpot became president of Athens College, in 1966. His experience in education includes principalships of elementary and high schools and associate professorship of secondary education, Alabama College. He has also held several positions with the State Department Montgomery. He served as Head, Department of Education and Psychology, Illinois State University, from 1959 to 1966.

Drive Safely

## Ta-Co-Bet Art And Craft Show Set Next Weekend

One of the largest varieties of quality art and crafts to be exhibited in the southeast will be shown at Ta-Co-Bet Saturday and Sunday, Oct. 15 and 16. Fifty prominent artists and craftsmen from Alabama, Tennessee, Georgia, Mississippi, Arkansas and North Carolina will display original creations. People will be able to view oils, watercolors, charcoals, caseins, textile paintings, woodcraft, ceramics, collages, needlecraft, dolls and animals, handcraft jewelry, rock-made items, gemstones and Christmas decorations.

The annual Ta-Co-Bet art and craft show is the culminating show of the year. Practically all items displayed will be for sale and will be one of a kind. Saturday stocks are more complete and crowds are smaller.

Several outstanding collections of Indian artifacts will be displayed and real live Indians are expected to attend.

Ta-Co-Bet is a site of grandeur and beauty . . . offering a panoramic view of the miles and miles of lakes and mountains and blazing colors of the mountainsides of nearby Jones Cove.

Good food will be available. The Scottsboro Business and Professional Women's Club will operate the concession stand. Their profits will go for scholarships to the Northeast Alabama Junior College.

Parking will be under the direction of the Boy Scouts. No charge will be made. Donations to the Boy Scout Organization will be accepted by the Scouts.

The gates will open at 9 a.m. each day and the exhibits will close at sunset. Casual dress and comfortable walking shoes are advised.

Ta-Co-Bet is located on Alabama

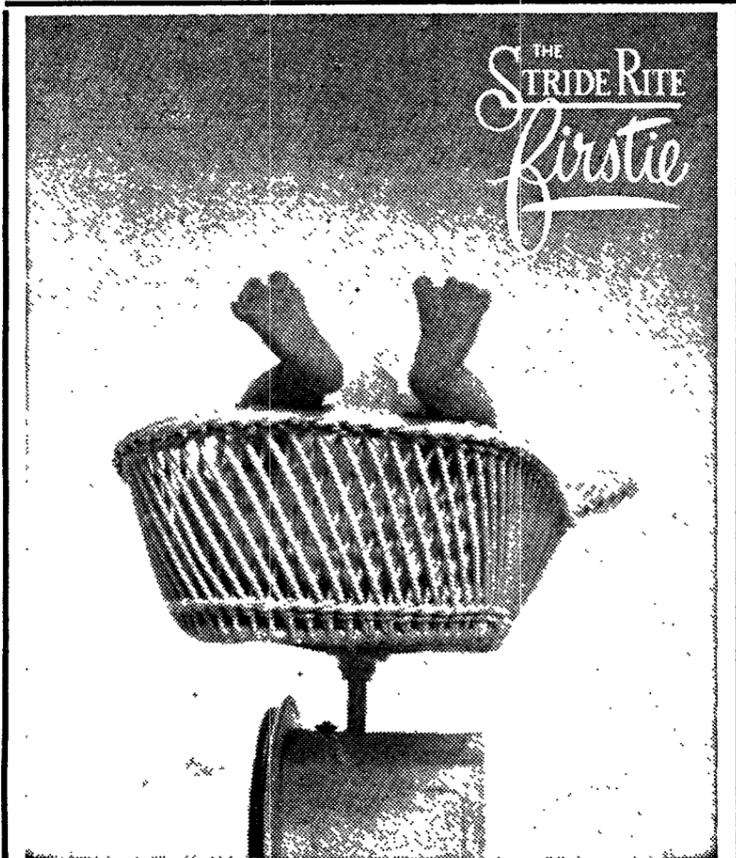
Highway 40 on top of sand mountain near Scottsboro. Traffic coming through Scottsboro will take Alabama Highway 35 across B. B. Comer Bridge, turn left on Alabama Highway 40 and proceed up Sand Mountain to Ta-Co-Bet on right. Traffic coming through Fort Payne will follow Alabama Highway 35 to Alabama Highway 40, turn right and proceed up Sand Mountain to Ta-Co-Bet on right. Traffic coming through Hammond-

### SIGN FOR SUNDAY SCHOOL

The Junior Department of the Protestant Sunday School is having a Fall enrollment party Sunday Oct. 16, from 2 to 4 p.m.

All 4th, 5th and 6th grade children are invited to come to the Social Room of the Post Chapel for fun, games and refreshments. Bus transportation will be furnished from the Quarters Area at 1:30 and return to the quarters at 4:00 p.m.

ville will follow Alabama Highway 117 to Alabama Highway 40 and proceed to Ta-Co-Bet on left. All roads are paved and no dust or mud will be encountered.



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# Representatives Of 93rd Evacuation Hospital Visit

Lt. Marianne Fisher and SFC Elbert C. Fish Jr. arrived in Huntsville for a week of getting acquainted with the citizens of Huntsville who adopted the 93rd Evacuation Hospital in Vietnam under Operation We Care.

The Army nurse and the Army medical sergeant were members of the hospital staff until recent rotation home. An Army plane picked up Lt. Fisher and her father from her hometown of Scranton, Penna., and then stopped at Nashville Tenn., for SFC Fish and his wife, to deposit them in Huntsville Monday afternoon.

Lt. Fisher and SFC Fish have been entertained by a number of organizations and have spoken at Lee High School. Tomorrow the city will entertain them at lunch at the Madison County Coliseum. Those attending will go through a chow line set up by the 279th Signal Battalion. Lt. Fisher and SFC Fish will then be welcomed officially although Mayor Glenn Hearn and the 55th Army Band along with civic leaders and Army representatives greeted them at the plane on Monday.

Both of the honor guests are scheduled to speak to the public about operations of the 93rd Evacuation Hospital. Their talk will be illustrated with color slides.

A parade Saturday morning through downtown Huntsville will climax the visit of the sergeant and the nurse. Marchers, bands and cars will start from Gates street and Franklin at noon. Among the dignitaries expected that day is the Third Army Chief Nurse, LTC Margaret Clark who was also honored upon her return from Vietnam. Arab, her hometown held a Margaret Clark Day; and she was included among the dignitaries in Huntsville's Armed Forces Day parade.

## Army Show Rescheduled

Wonderful World of Summer has been rescheduled for tonight at 8:15 p.m. at the Redstone Service Club.

The cast is military with six WACs and 23 men, many of them professional entertainers before they joined the Army.

Comedy and a variety of music including rock and roll, folk music, and Broadway show tunes are included on the program. A Nagy-Multi-Screen Projection System combines sight and sound as a backdrop, making summer appear more real for the audience.

Show headquarters is at Ft. McPherson.

## IEEE Sets Joint Meeting Oct. 12

John H. Pehrson, Program Chairman of the Huntsville Section of the Institute of Electrical and Electronics Engineers, announces Willis J. Willoughby, NASA Director of Apollo Reliability and Quality will speak on "NASA Headquarters Policy and Planning for Reliability".

This is a Joint Meeting between the Huntsville Section and its Technical Group on Reliability tonight at the Officers Open Mess at 6 p.m.

## Chemical Engineers Set Meeting Date

The North Alabama Section of the American Institute of Chemical Engineers will meet at the Golf Room, Willowbrook Country Club, Huntsville, Tuesday at 6:00 p.m.

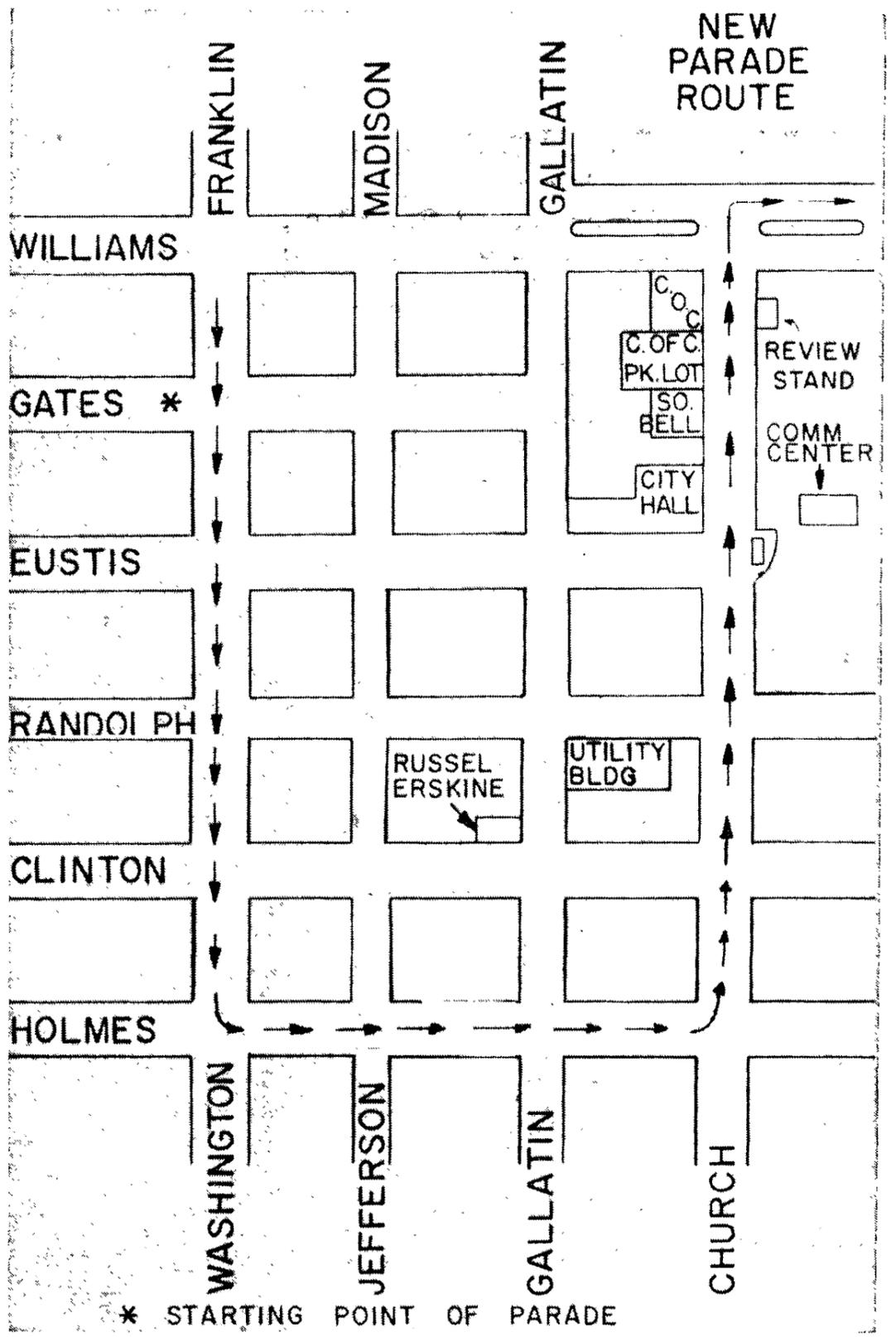
The program will be a two-speaker appraisal of current educational opportunities at the University of Alabama in Huntsville:

Reservations must be made by noon Monday, with Frank Montelone, phone 876-6157.

## Garden Club To Meet

The Redstone Officers Wives Garden Club will meet from 9:30 a.m. until noon on Tuesday, Oct. 18 at the Redstone Officers Open Mess.

Mrs. C. Berry will present a program and demonstration on the



\* STARTING POINT OF PARADE

construction of Christmas angels and the unique use of pods and canes.

Reservations are not necessary. For further information, call Mrs. T. L. Richards, 877-5767.

### CRAZY HAT LUNCH SET

A crazy hat lunch is set for Tuesday, Nov. 22 for wives of officers and civilians assigned to

the Missile and Munitions Center and School.

The luncheon is scheduled to begin at noon at the Officers' Open Mess.

Prizes will be awarded in three categories for the most beautiful, the most original, and the craziest hat worn by those attending.

Specific information may be ob-

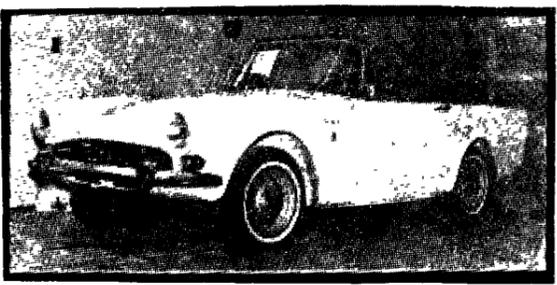
tained by telephoning luncheon Chairman Mrs. Zacarias F. Rael at 877-5448, or Mrs. Charles E. Herzog at 877-5970.

Security for recent grooms: When those nuptial bonds are tied make them extra strong—add your wife as co-owner or beneficiary on your U. S. Savings Bonds.

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## NITA and DAVE'S Fashion Tres

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# Dr. Stewart, Meteorologist, Joins R And D

## Holds Only PhD Degree Among Women Scientists

One way or another, various aspects of the weather had almost everything to do with Dr. Dorothy A. Stewart's decision to come to work at the Army Missile Command's Research and Development Directorate.

Happenstance brought her into Meteorology, the branch of Physics treating of the atmosphere and its phenomena, and the Alabama climate influenced her thoughts when she was trying to decide where she wanted to live.

Dr. Stewart, the only lady working at the Missile Command who has a PhD degree, was teaching school the first year after receiving her bachelors degree in physics from the University of Tampa, when she heard of a national scholarship for those interested in studying for advanced degrees in Meteorology.

Although she had always intended to attain a PhD degree in

some area of physics or mathematics, she had not planned to make the Meteorology branch her major subject. But here was an opportunity to study under a scholarship program, so she applied.

"I didn't get the scholarship—there were only two or three awarded nationwide—but a professor in the Meteorology Department of the Florida State University saw my name on the list of scholarship applicants and offered me a graduated assistantship there," the tiny, dark-haired meteorologist said.

So she went to Florida State in Tallahassee and studied until she had both masters and doctors degrees in Meteorology. Now she realizes it was a fortunate choice as there is a golden future in Meteorology.

"When I was about to receive my last degree, offers kept rolling in from all parts of the country, mostly from sources in large northern cities, but I don't like cold weather. Besides, I had talk-



HER TITLE IS DOCTOR—Dr. Dorothy A. Stewart, the only lady employee at the Army Missile Command who has a PhD degree, looks over weather maps at the Research and Development Directorate Physical Sciences Laboratory.

ed to the people in the Aerophysics Branch of the Research and Development Directorate's Physical Science Laboratory earlier and promised I'd work at the Missile Command. It seemed to me the winters would be less severe in Alabama than in Boston, for instance," Dr. Stewart explained.

Having just started to work at the Missile Command, she is still poring over data on windshear which consists of information on the average wind gradient — the difference in wind velocity at two altitudes divided by the altitude increment.

The atmospheric conditions through which missiles are to travel in flight have a direct bearing on how they are to be designed and developed, so information of all phases becomes an integral consideration.

The dissertation for Dr. Stewart's doctorate concerns 500 millibar forecasts. She plans to write technical papers for publication once she has had time to get settled in her work and in her apartment. She is awaiting shipment of her household goods which she says is mostly many, many technical books she has collected.

She has been too busy studying recently and for several years to have time for outside activities and hobbies.

Dr. Stewart was born in Indiana not many years ago but moved to Tampa, Fla. with her family when

### Movie Schedule

#### Theater No. 1

WED., THURS., Oct. 12-13  
Walt Disney's "Lt. Robin Crusoe, U.S.N." (F)

FRI., Oct. 14  
"North by Northwest" (M)

SAT., Oct. 15  
"Sands of the Kalahari" (M)

SUN., MON., Oct. 16-17  
"The Swinger" (M)

INCREASED ADMISSION: adults 50c, children 25c.

TUES., Oct. 18  
"Maya" (F)

Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

#### Theater No. 2

WED., Oct. 12  
"Sands of the Kalahari" (M)

FRI., Oct. 14  
"The Swinger" (M)

INCREASED ADMISSION: adults 50c, children 25c.

SAT., Oct. 15  
"Maya" (F)

she was nine. Her most recent move, to Alabama, is a fortunate one for the Missile Command.

SUN., Oct. 16  
"Seconds" (M)  
TUES., Oct. 18  
"The Family Jewels" (F)  
One show at 7:00 p.m.

### LYRIC THEATRE

"Huntsville's Finest"  
Starts Thursday



### MARTIN'S ALABAMA THEATRE

on the Mall — 536-5911  
"Huntsville's New Luxury Theatre"

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A SOL C. SIEGEL PRODUCTION

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Downtown

Starts Tues, Oct. 18



COLUMBIA PICTURES Presents  
JAMES COBURN

DEAD HEAT ON A MERRY-GO-ROUND

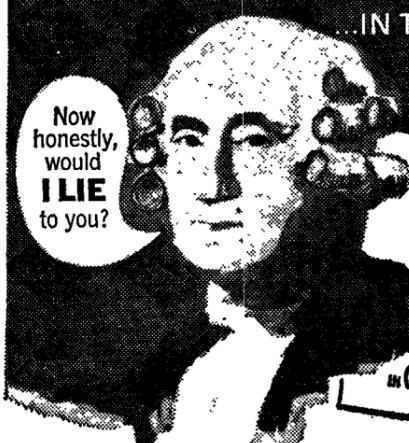
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DOWNTOWN  
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WOODY ALLEN STRIKES BACK!

IN THE WILDEST COMEDY OF THE YEAR!



Now honestly, would I LIE to you?

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what's up tiger lily?  
in COLOR

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Fast connection with non-stop Jet to Los Angeles, arriving 1:40pm

Non-Stop DC-6 leaves 8:55am, arrives 11:20am. Other service to Dallas at 6:33am, 10:30am, 12:08pm, 5:00pm and 8:21pm. Excellent return service, too, with DC-6 non-stop at 7:00am. DC-6 Tourist fare, \$38.55; Jetourist, \$41.65; Night Coach, \$29.60. Add tax to fares.



**DELTA**  
the air line with the BIG JETS

# Huntsville Gets Lion's Share Of Army Payroll

Almost 60 percent—more than of local purchases such as \$20,000 worth of safety shoes so far this fiscal year and \$183,845 worth of business to local printers.

These were some of the hard facts given Monday night to Huntsville Kiwanis Club members by Col. J. N. Jean, head of the U. S. Army Missile Command's new Arsenal Support Operations Directorate.

Describing his organization as "having functions ranging all the way from technical, such as the Metrology Laboratories, to dog catcher," Col. Jean outlined his broad areas of responsibility. The directorate which is called DASO, was formerly the Army Missile Support Command.

In addition to the payroll, Col. Jean told the Kiwanians that the Army's small service contracts and purchases from local businesses by DASO amounted to \$15 million annually.

Placing emphasis on the importance of the Army to the community, Col. Jean told of other areas

Having responsibilities over the Arsenal's physical assets, Col. Jean described himself as landlord over 1,100 buildings; manager of a community of 35,000 during a working day and of 7,500 at night.

Roadway construction and maintenance plus building and other construction will amount to almost \$9 million this fiscal year, he said. This work is under supervision of the Post Engineer who also supervises machine, carpentry and sheet metal shops; who must have special skills in such areas as metalurgy; and who works with a Master Planning Board for long range planning for buildings and roads.

With unique requirements in logistics, Col. Jean said that few other Army supply units would be buying some 15 lasers a year or 50 tons of liquid hydrogen, oxygen and nitrogen for propellant, or 500 tons of material for new types of solid propellant.

The new John M. Cone Metrology Laboratory dedicated a few weeks ago is one of three specialized centers operated by the Army at Redstone.

Another is the Computation Center which operates four large-scale digital computers for management and scientific type com-

putation requirements.

With literally hundreds of ideas developed by Army employees working in the Army's laboratories and shops, there is a Patent Center where Patent attorneys analyze entire missile systems to search out patentable ideas which would be most vulnerable to an

The Redstone Rocket

— Oct. 12, 1966

Page 11

infringement suit.

Giving brief mention to some of the other areas over which he is Director, Col. Jean said:

"We at DASO have doctors, lawyers, merchants and chiefs—and everyone is an Indian working

toward support of our Army missile missions, as well as space endeavors."

With about 4,000 civilian and military employees, the DASO is the largest of the Missile Command's five Directorates.

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1960 FORD 1/2 TON PICK-UP . . . . . \$695.

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1962 PONTIAC WAGON, 6-pass., 4 door, very good car. . . . . \$1295.

1963 RAMBLER 4 door station wagon, 6 cyl., stick shift, good condition. . . . . \$795.

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1957 VW 113 SEDAN, one owner, nice. . . . . \$550.

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1959 RAMBLER 4-Dr. Station Wagon. Economical big car. Special . . . . . \$595.

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## LT. CULCLASURE NAMED AIDE TO GEN. DONLEY

The Deputy Commanding General for Land Combat Systems at the U. S. Army Missile Command, Brig. Gen. Edwin I. Donley, has a new Aide-de-Camp. He is 2nd. Lt. Donald C. Culclasure.

Lt. Culclasure recently completed the five-month Missile Maintenance Officer's Course at the Army Missile and Munitions Center School at Redstone. He enlisted in the Army at Ft. Bragg, N. C., in August 1964 and was commissioned in May 1965.

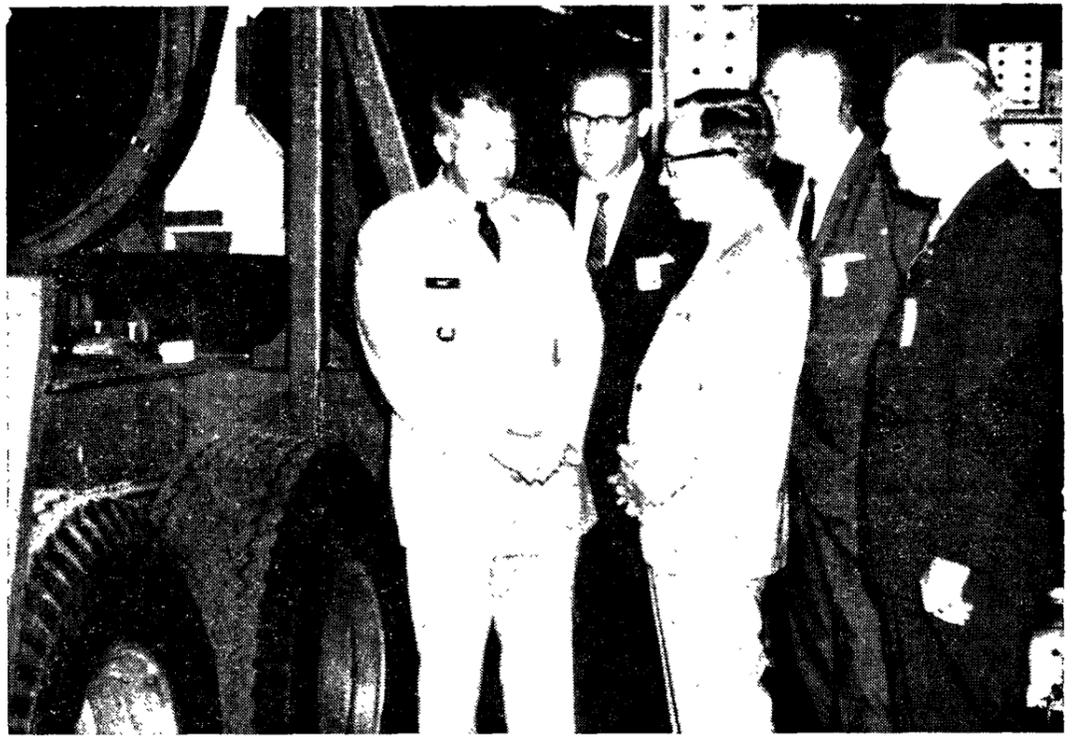
He is a native of Buffalo, N. Y., received his early education in Greenville, S. C., and holds a Bachelor of Science Degree in Business Administration from The Citadel.

The new Aide replaced Capt. William B. Greer, who recently



LT. DONALD C. CULCLASURE

was promoted from the rank of First Lieutenant and now is assigned to the Shillelagh Project Office.



**COLONEL RUDD VISITS ORLANDO**—Improved Pershing weapon system ground support equipment being developed by Martin Company was inspected recently by the Army Missile Command's new Pershing Project Manager, Lt. Col. Edwin A. Rudd, during a visit to Martin's Orlando, Fla., facility. Col. Rudd is shown here discussing an engineering model of the system's improved erector-launcher, pictured at left. Martin personnel shown with him are (left to right): H. R. Staudt, Pershing Program Director; R. T. Landis, Assistant Program Engineer; W. A. Sorrell, Program Engineer; and L. R. Merritt, Manager of Reliability, Test, and Evaluation. Development of the new ground support equipment, to be known as the Pershing IA system, will increase rate of fire and reliability of the surface-to-surface missile.

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100	18.45	10.05	7.27	\$ 5.00
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300	55.09	29.87	21.54	17.42

Above payments include principal and interest. Life Insurance is available at group rate on loans above \$100. Loans up to \$300 under state supervision.

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	12 paymts	24 paymts	30 paymts	
\$500	\$46.81	\$23.73		
700	61.92	31.30		
1000	82.30	42.76	\$40.05	
1500	123.80	62.80	38.80	
2000	161.56	86.3	78.96	

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.

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700 feet of this highly desirable commercial property runs along side and borders South Memorial Parkway and has a depth of 450 feet extending back to and bordering the Louisville-Nashville railroad. This is one of the last big pieces of property on South Memorial Parkway being offered for sale and you can set your own price! This property is convenient to everything; State Docks at Whitesburg Bridge, Madison County Boat Harbor, Louisville-Nashville railroad, Gate 3, Redstone Arsenal and NASA. All city utilities including water and sewerage are available to this property. Now is the time to buy. Property is constantly increasing in price and value everyday in progressive Huntsville and here is your chance to buy a piece of it at your own price! Come on down and look it over before sale day. Pre-sale inspection invited!

**TERMS:** Cash or 25% Down Balance Financed up to 7½ Years  
At 6% Interest With Monthly Payments!

**FREE BARBECUE** A FREE Barbecue lunch will be served to every one attending this sale under the BIG TENT!!!

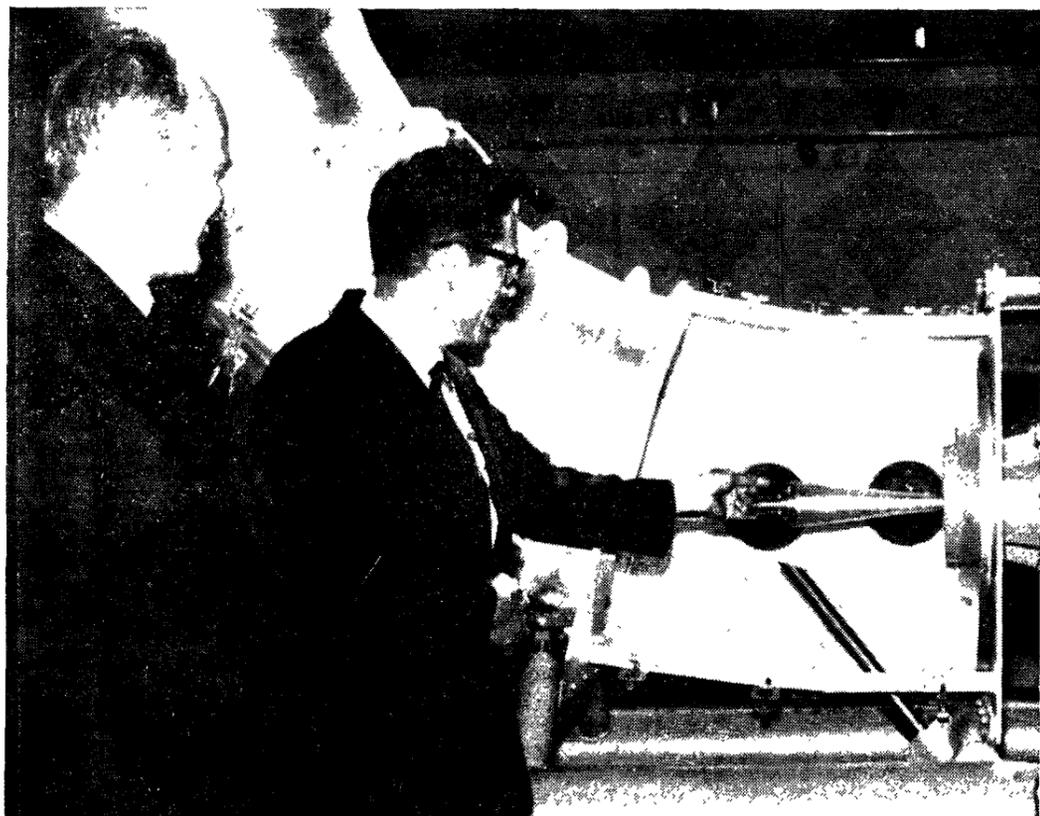
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**ARMY'S CHIEF SCIENTIST AT REDSTONE**—During a two-day visit to the U. S. Army Missile Command last week, Dr. Marvin E. Lasser (left), Chief Scientist, U. S. Army, toured laboratories of the Research and Development Directorate. Here, in the Physical Sciences Laboratory, Dr. Thomas A. Barr, Jr., shows Dr. Lasser a hyperthermal wind tunnel used for testing missile and rocket components.

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### Former School Officer Dies

Funeral services were held yesterday at Redstone Arsenal Post Chapel for Lt. Col. (ret) Bernard A. Ferry, 52, whose last tour of duty before retirement was with the former Ordnance Guided Missile School.

A 1940 graduate of the U. S. Military Academy, Col. Ferry died Friday morning of a heart attack. He had been employed in Huntsville by the Boeing Company.

Burial was in the Maple Hill Cemetery.

A native of Altoona, Pa., he is survived by his wife, and five sons: Lt. B. A. Ferry, Jr., in Viet Nam; Navy Electronics Technician T. Ferry in Norfolk, Va.; Richard C. at University of Alabama in Tuscaloosa; William A. and Christopher E. at home; two brothers



**LT. COL. B. A. FERRY**

and a sister. Col. Ferry was assigned to the former Army Ordnance Guided Missile School in 1958 and served until he retired in 1961.

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**\$12,900**

3 bedroom, partial brick, includes carport, large storage, GE oven, terrazzo floors, tile window sills. These new homes being built in Huntsville's new low-cost community planned for 500 homes. Swimming pool, recreation grounds, and shopping center, adjoins Gate 2 at the Arsenal. tfc

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## 5. Houses, Lots - Sale

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**FOR SALE**—3 bedroom brick, central heat, utility room, carport 100 x 150' lot 3104 Patrick Street N.W. appraisal \$15,450 Liberal Financing Phone 539-4003. 10-19-c

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## PRESENT PAPERS AT DA MEETING

Two Missile Command civilians are included in a list of leading Department of Army scientists who will present papers at the 12th Conference on the Design of Experiments in Army Research, Development and Testing at the Bureau of Standards later this month.

They are Robert Provost of the Management Science and Data Processing Office, and Dr. O. M. Essenwanger, who is employed in the Research and Development Directorate.

Provost's presentation will be made on the opening day of the meeting, October 19. It is entitled "A Statistical Analysis of Provisioning Processes on Four Army Missile Systems."

Dr. Essenwanger's paper is en-

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titled "The Negative Binomial Distribution Applied to Atmospheric Parameters." It will be delivered at the October 20 session.

The conference is being conducted at the new facility of the Bureau at Gaithersburg, Md., under the sponsorship of the Army Mathematics Steering Committee. Dr. Allen Astin, director of the Bureau or Standards will open the meeting.

Among the well known scientists who are scheduled to present papers are Professor B. W. Connolly of the NATO Anti-Submarine Warfare Research Center, and Dr. John Mandel, of the Bureau's Materials Evaluation Laboratory.

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## Army Awards \$3.9 Million For Redeye Engineering

The U. S. Army has awarded a \$3,933,182 contract to the Pomona Division of General Dynamics Corporation, for engineering services on the Redeye air defense guided missile system.

Redeye is the world's smallest air defense missile system, a shoulder-fired weapon which is designed to give the infantryman an effective defense against low-flying enemy aircraft.

Development of the weapon has been funded jointly by the Army and Marine Corps. Both services

will share in the output of production missiles.

The Army Missile Command manages the Redeye program under Col. A. W. Reed, Project Manager. The Pomona Division of General Dynamics Corporation, is prime contractor.

Negotiating the contract for the Army was Systems Contracts, Division B, of the Missile Command's Procurement and Production Directorate, headed by Col. E. J. McGinnis.

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 113 Sedan. Really Sharp  
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 ARRANGED**

**Gen. Drewry Schedules Talk To Georgia Tech Men**

The Huntsville Georgia Tech Alumni Club will hear Brig. Gen. Ivey O. Drewry, Project Manager, Nike-X Missile Project at a dinner meeting on Monday evening Oct. 24, at the Sheraton Motor Inn. General Drewry will talk on the Nike-X Missile Defense system. Tech Alumni, their wives and

guests are invited.

Gregory Moshkoff, chairman of the scholarship fund committee will report on the committee's planning for an engineering scholarship to be awarded to a

student from high schools in North Alabama. The scholarship committee is composed of past presidents Bill Fiser, Bob Puckett, Verne Hutchens and Pete Redding. Dinner reservations may be made by calling Charlie Price at 881-5969 or Bill Glass, secretary at 536-6989 or 876-7429.



JAMES C. LYNCH

**Lynch Named Security Chairman In Southeast**

James C. Lynch, Security Specialist, assigned to the Intelligence and Security Division, Arsenal Support Operations Directorate, attended the 12th Annual Seminar of the American Society for Industrial Security in Philadelphia, Pa., 19-22 September 1966.

Lynch, who is Chairman of the North Alabama Chapter, was appointed by the incoming President, George D. Thompson, Industrial Security Director, North American Aviation Inc., Los Angeles Division, Los Angeles, California, as the Vice-President in charge of the South East Region. This encompasses a 7 state area. Lynch will be responsible for increasing the growth of the Society in the South East and arranging for a joint meeting of the five Southeastern Chapters during the Spring in Huntsville, Atlanta, Ga. or Cape Kennedy, Florida.

The Society is composed of over 2500 professional security personnel with industry and Government whose principal aim is to create a more sensible approach to the problems of safeguarding the nation's secrets. The local Chapter meets every month and prominent personalities in the field are invited to be guest speakers. Security personnel who would like to gain more knowledge of this group may call 877-5804 or write William Wright, Jr., Executive Director, A.S.I.S., Room 651-NADA Building, 2000K St., N. W., Washington, D. C. 20006.

ARMY RECRUITERS COLLEGE-BOUND as travelling officer selection teams will travel this fall to more than 600 universities to tell about Officer Candidate School program. Army previously announced plans to recruit more than 42,000 OCS aspirants in FY67, saying OCS will be its primary source of junior officers. (AFNB)

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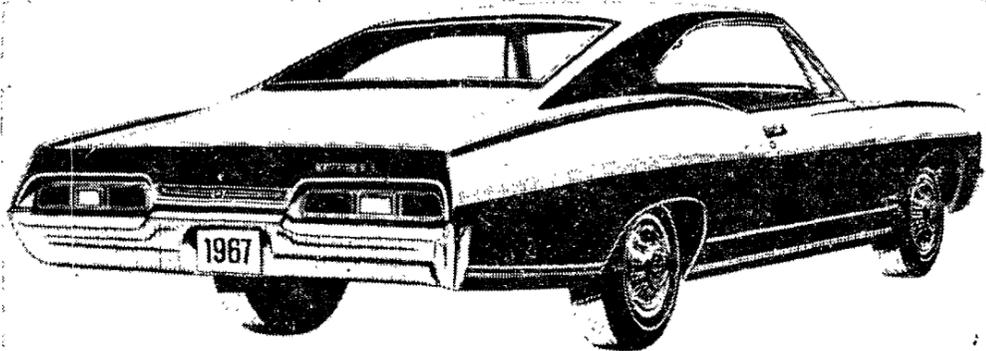
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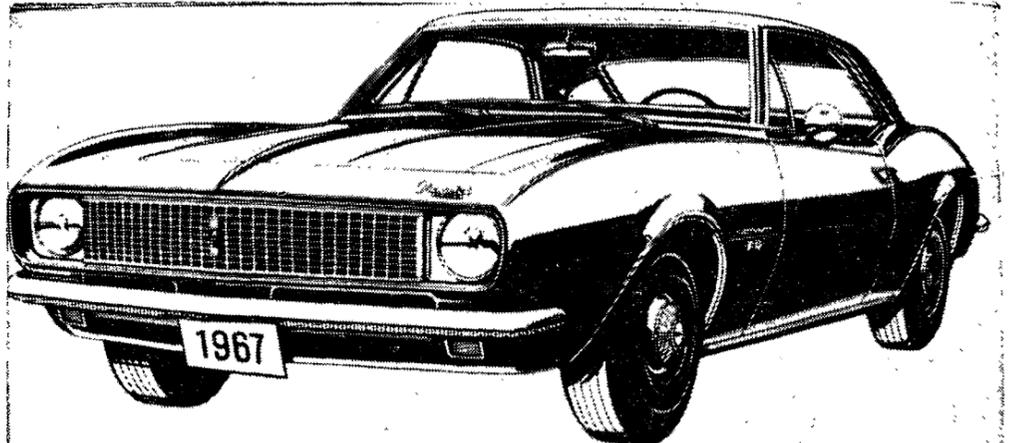
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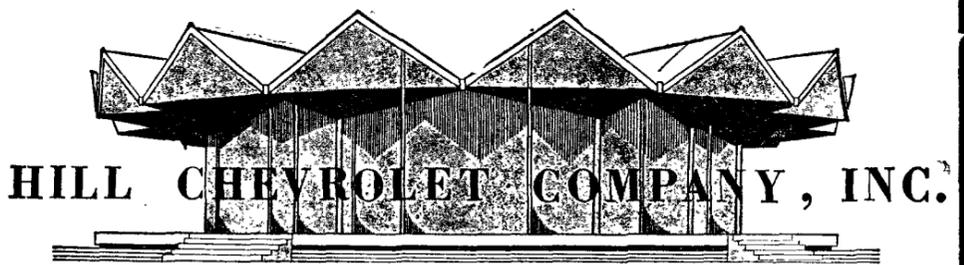
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