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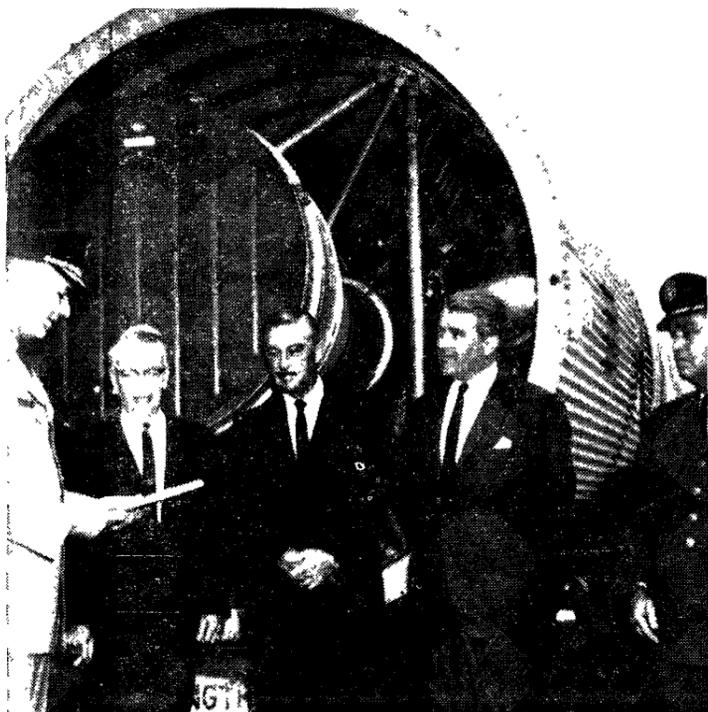
# The Redstone Rocket

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October 2, 1963



**JUPITER MISSILE TRAINING ENDS**—Leading personalities of the rocket age mark the end of training on the 1,500-mile IRBM at a "retirement ceremony" at the Army Ordnance Guided Missile School Friday. Left to right, Col. George H. McBride, assistant commandant, and Generals John A. Barclay, John B. Medaris and Dr. Wernher von Braun, who developed the missile for the Army, present a plaque to Air Force Lt. Col. Grover W. Kenyon of the Air Training Command. Under a joint Air Force and Army program, the Missile School trained 3,242 officers and airmen of the U. S., Italian and Turkish Air Forces for duty at Jupiter bases in Europe from 1958 until earlier this year. The Jupiter was replaced by Polaris-firing submarines.

## Jupiter Training Program Ends At Missile School

A colorful chapter in missile development and training came to an end here Monday as the Army Ordnance Guided Missile School closed the books on a six-year program of joint Air Force and Army training on the Jupiter intermediate range ballistic missile.

Officially, the Jupiter program ended at midnight Monday, but farewell ceremonies at OGMS on Friday, mustered a cluster of leading missile personalities who developed the 1,500-mile missile in the mid-1950's.

Dr. Wernher von Braun, Maj. Gen. John B. Medaris; Maj. Gen. John A. Barclay—all members of the original Army Ballistic Missile Agency Jupiter development team—joined with Missile School and U. S. Air Force officials in a brief ceremony. Dr. von Braun now heads the Marshall Space Flight Center here, and Medaris and Barclay have retired to engage in private industry.

Air Force Lt. Col. Grover W. Kenyon, who headed the Air Training Command's Liaison Of-

fice at OGMS during the Jupiter training cycle, received a commemorative plaque from Col. George H. McBride, assistant commandant. It commended the Air Force for "the highest type of inter-service cooperation" in the training of 3,242 U. S., Turkish and Italian Air Force students at OGMS during the 1958-1963 period.

Commendation was also extended to Capt. Robert L. McDowell and M/Sgt. Lewis B. Langford who closed out the final year of Jupiter training here on behalf of the Air Training Command. McDowell is to attend college in Mexico prior to his retirement from the Air Force next year, while Langford is being transferred to a post at Dobbins Air Force Base and the Lockheed Co. at Marietta, Ga.

The Jupiter figured in many headlines from the time of its development by the Army as an outgrowth of the Redstone missile at Redstone Arsenal in 1955. (See JUPITER on Page 3)

## UGF PERCENTAGE FIGURES ABOUT LIKE '62 OPENING

The Directorate of Procurement and Production is the early leader in the Redstone Arsenal United Givers Fund campaign with 82 per cent of all P&P personnel listed as a contributor in the initial progress report.

Five other organizations listed pledges from over half of their personnel in the opening report submitted by A. C. LaGrone, Finance and Reports Chairman for the drive.

Richard Edmonds, Agency Chairman for P&P, listed 75 per cent of those pledging as Fair Share contributors and stated that 44 per cent of the pledges had been collected.

Second place in percentage of participation as well as Fair Share contributors is the Mauler Project Office where agency chairman William Goodman listed 75 per cent of his personnel as having pledged. He added that this included 73 per cent who had pledged a Fair Share.

Other organizations passing the halfway mark in percentage of participation are, the Hercules Project Office, Directorate of Supply and Maintenance, the Directorate of Research and Development, and the Missile Support Command.

Hercules reported 70 per cent participation, S&M listed 58 per cent, R&D showed a 55 per cent report and AMSC listed 51 per cent participation for the initial report.

The respective Fair Share participation for the four is 63, 53, 49 and 33.

### UGF SCOREBOARD

|                      | % Pledged | % Fair Share |
|----------------------|-----------|--------------|
| OFFICE OF CG         | 49        | 36           |
| GEN. PERSONS' OFFICE | 0         | 0            |
| GEN. EIFLER'S OFFICE | 0         | 0            |
| P & P                | 82        | 75           |
| S & M                | 58        | 53           |
| R & D                | 55        | 49           |
| MI                   | 5         | 5            |
| HAWK                 | 0         | 0            |
| HERCULES             | 70        | 63           |
| LANCE                | 0         | 0            |
| MAULER               | 75        | 73           |
| PERSHING             | 37        | 20           |
| SERGEANT             | 38        | 25           |
| ZEUS                 | 37        | 37           |
| SHILLELAGH           | 0         | 0            |
| AMSC                 | 51        | 33           |
| OGMS                 | 0         | 0            |
| AREA ENGINEERS       | 3         | 3            |
| THIOKOL              | 0         | 0            |
| ROHM & HAAS          | 28        | 65           |

## Pershing Missiles Score Five Successive Bullseyes

The Army Friday successfully fired two more four star Pershing ballistic missiles from a remote mesa in Utah, chalking up a total of five such launches in as many days.

Operating under near-tactical condition, the highly mobile Pershing missiles were fired from Black Mesa, near Blanding Utah, to impact points within the Sprawling White Sands Missile Range.

## More Work Scheduled On Two Systems

Contract awards totaling \$22,225,504 for work on two missile systems, Hawk and Nike Hercules, have been announced by the U. S. Army.

The Raytheon Company, prime contractor for the Hawk surface-to-air missile system, received two awards amounting to \$12,409,826. A \$11,025,018 award will cover engineering services for the Hawk. The work will be performed at the company's plant in Andover, Mass.

The second award to Raytheon was \$1,384,808 for services and supplies required for modification and checkout of assemblies, sub-assemblies and components for the Hawk. Work under this contract will be done at Ft. Bliss, Texas.

Two awards for work on the Nike Hercules went to Western Electric Company, prime contractor for the missile system, and totaled \$9,815,678.

The larger of the two, \$7,916,369, is for production of Nike Hercules guidance sections. The work will be done at the company's Greensboro, N. C. facility.

The other Nike Hercules award was \$1,898,709 for work to be done at Western Electric's Winston-Salem, N. C. plant.

Hawk is an operational missile system designed to seek out and destroy high performance aircraft. Nike Hercules, an operational missile system, is stationed around key cities and defense installations in the United States.

Both missile systems are managed by project offices from headquarters at the Army Missile Command.

Col. Charles R. Graham is the Hawk Project Manager, and Col.

(See MORE WORK on Page 3)

The shots are being conducted as part of the missile system's service test. They marked the first time that an Army ballistic missile has been fired over inhabited areas, and is indicative of the confidence the Army has in the reliable Pershing.

Never before have so many of the two-stage ballistic missiles been fired in such a short length of time. Test officials pointed out that the rapidity with which the missiles are being fired confirms the system's quick reaction time.

Further launches of the two-stage missile are scheduled from Ft. Wingate, N.M., in the future.

The first firing in this week's five-shot series came Monday. Fatigue clad soldiers from Ft. Sill, Oklahoma, launched an additional two missiles Tuesday and then they capped off the Blanding test program with Friday's successes.

On hand to observe the Monday firings in addition to assigned members of the Pershing Project Manager's staff from the Missile Command, were Brig. Gen. Charles W. Eifler, Army Missile Command Deputy Commanding General for Land Combat Systems and Col. Edwin I. Donley, his special assistant.

The Pershing is under the technical management of Col. O. M. Hirsch, under whose direction the missile has undergone a spectacular firing test program at Cape Canaveral.

This week's firings of the Pershing are part of the system's service test, which determines if the missile meets the required military characteristics when used by troops in the field.

Similar tests were conducted during August from Hueco Range, part of Ft. Bliss, Texas, into neighboring White Sands.

Following the Blanding tests, which were completed Friday, the 400 soldiers of the 2nd Missile Battalion, 44th Artillery, Fort Sill, Okla., will move about 150 miles south to Fort Wingate, N.M., to continue Pershing firings into White Sands.

(See BULLSEYES on Page 3)

## Contracts Awarded

# \$45 Million Is Earmarked For Pershing Missiles

Four contracts covering production and services for the Pershing ballistic missile system were awarded Sept. 30, the Department of the Army announced. The contracts totaled \$45,520,171, and went to two companies.

The largest contract was \$27,739,662 awarded to the Martin-Marietta Corp., Orlando, Fla. This covers industrial engineering services to support the production of the Pershing missile and its ground support equipment.

Three awards totaling \$17,780,509 went to Eclipse Pioneer Divi-

sion of Bendix Corporation, Teterboro, N. J. Largest of these was \$13,310,425 for production of guidance and control systems for the Pershing. Another contract for industrial engineering services came to \$3,231,598, and \$1,238,486 was awarded for research and development services.

In keeping with policy emphasized by the Secretary of Defense to obtain the best possible return for dollars spent, the contracts will contain incentive clauses. These clauses motivate contractors (See CONTRACTS on Page 3)



**FOOD AND FLOWERS BY CANDLELIGHT**—Everyone lined up at the Distaff Foundation benefit dinner dance Saturday night to partake of the buffet supper before the dancing and floor show. About 800 people attended the event sponsored by the Redstone Arsenal Officers Wives Club to raise funds for the operation of Distaff Hall in Washington. The Hall is open to wives and daughters of deceased officers. (Story Inside).

# The Redstone Rocket

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## Rocket Ruminations

The inexorable march of human history does not wait for nations to settle their internal differences.  
—Thomas Dewey

## To All Personnel

FY 1964 monetary goals for the AMICOM Cost Reduction Program have been received. While these goals are considerably higher than the FY 1963 goals, I feel that with the application of ingenuity, creativeness, and intensified effort in all areas, we shall meet these goals.

The Cost Reduction Program is not a one-time exercise. It is a comprehensive long range program in which all Department of Defense activities must participate to obtain the best product at the least cost, without impairing or hampering our mission efforts. The Secretaries of Defense and Army, and the Commanding General, AMC, have emphasized the importance of this, and the level of priority to be assigned by all Commanders and top managerial personnel. It is my desire that this program be treated as a matter of highest priority by all elements of the Army Missile Command, with all personnel constantly "cost reduction" conscious.

Our FY 1963 accomplishments far exceeded the assigned goals and all concerned are to be commended; however, we must not relax our efforts, but continue to exercise maximum initiative in identifying ways and means to attain our FY 1964 goals. I am confident that the same cooperation displayed during the past fiscal year will make FY 1964 another successful year.

JOHN G. ZIERDT  
Brigadier General, USA  
Commanding

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# Former Commanding General Speaks At Missile School Graduation Friday

One of the most distinguished veterans of the rocket age returned to scenes of many triumphs here last Friday (Sept. 27) and urged graduates of the Army Ordnance Guided Missile School "to equate trouble-shooting a missile circuit with the preservation of freedom."

Maj. Gen. John B. Medaris, ret., former chief of the Army Ballistic Missile Agency and first commanding general of the Army Ordnance Missile Command, spoke to 38 U. S. and German Army graduates at ceremonies in the Post Theater attended by Dr. Wernher von Braun, Maj. Gen. John A. Barclay, ret., and a number of Army officers and civic leaders who worked with him during the development of many currently operational missile systems.

Medaris scored "latter day pacifists who have more ideals than common sense" and told the graduates they should have great pride in their military specialties.

"As long as the making of war is inherent in the nature of man then the soldier on whose skills our freedom depends must not feel apologetic about his calling," he declared.

"In fact, as the making of war becomes a technological feat and less and less a question of who can muster the greatest number of bodies, then the greater should be the honor afforded the military technician by the society he defends," Medaris said.

At the graduation exercises, PFC Troy C. Bowden, Jr., of Spartanburg, S. C., received the outstanding student award of the Association of the U. S. Army for averaging 97.1 on the Hawk radar system. The presentation was made by Joseph C. Moquin, director of the local AUSA chapter and executive vice president of Brown Engineering Co.

Honor students with averages of 85 or better were German Lt. Heinrich Pfeiffer in Pershing maintenance; Pvt. David C. Schrader in Nike-Hercules mechanical repair; and PFC Robert D. Garrett in Nike internal guidance.

Medaris was making his first public appearance here since he retired on Jan. 31, 1960. That date was the third anniversary of the launching of Explorer I, the world's first earth satellite, which was developed under Medaris' command as a "crash" project following the failure of the Navy's Vanguard satellite at Cape Canaveral in late 1957.

The retired general, who now conducts a management consulting firm in Orlando, Fla., and is also promoting sales of Florida real estate, was honored at a luncheon tendered by the Ordnance Guided Missile School at the Officers Club following his address. Some 50 representatives of all agencies at Redstone Arsenal joined with a number of civilian associates at the event. Later he was entertained by close friends in the community at a reception and dinner held at the home of Gen. Barclay.

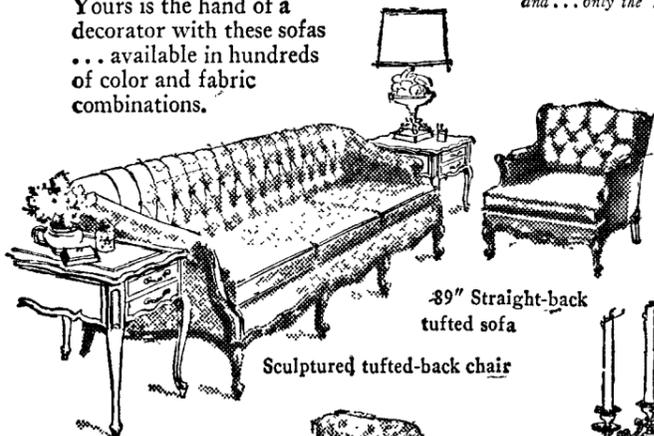
Nineteen out of every 1,000 employees appointed to the Federal service last year were handicapped persons, according to an article by Civil Service Chairman John W. Macy in the July-August issue of Rehabilitation Record, professional magazine of the Vocational Rehabilitation Administration.

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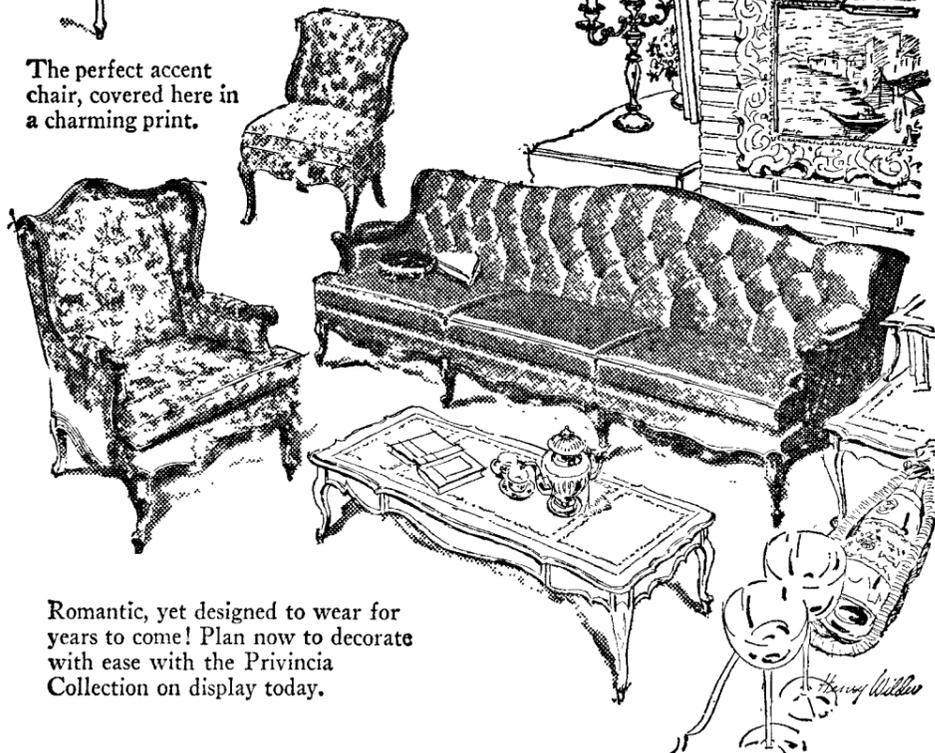
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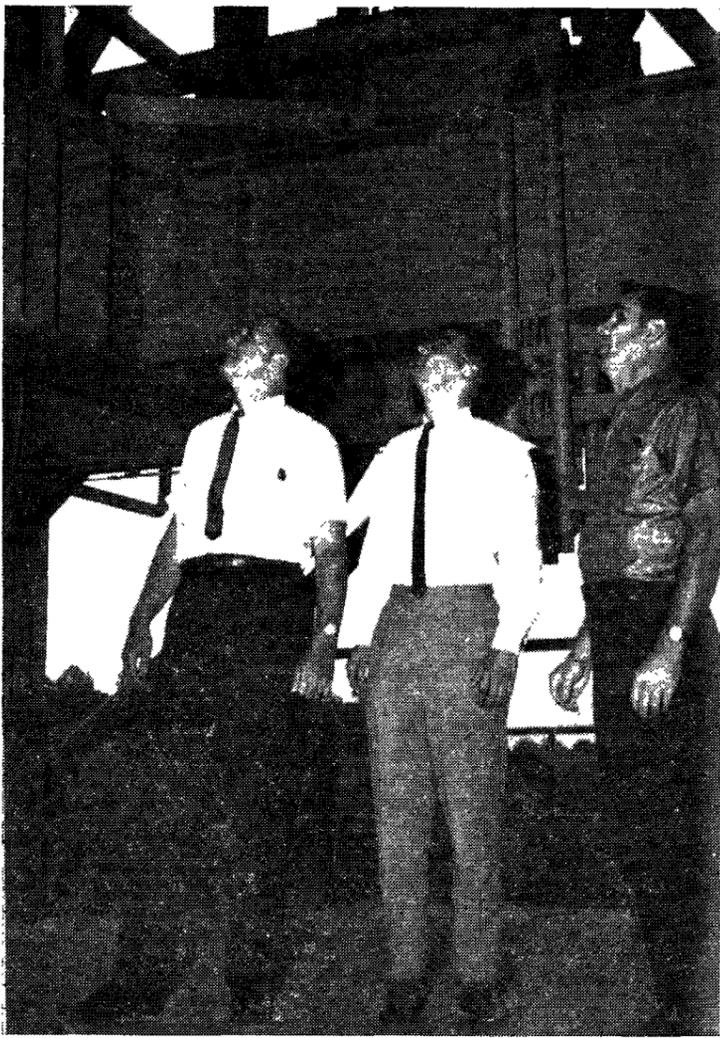
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**TO TIE DOWN A MONSTER**—Heinz Shenkel (center), a visitor from Bienne, Switzerland, gets an inside look at the static test facility in the Test and Evaluation Laboratory on a recent tour of the Army Missile Command's Directorate of Research and Development. Shenkel was here as part of an experiment in international living as the guest of H. Lawton Hall (left), chief of the Directorate's Operating Services Office. Test Engineer Joe Mitchell (right) explains how large rocket motors are tied down for testing. Participants of the experiment from various countries visited American families for a 4-week period to get a first-hand look at American living.

**JUPITER**  
(Continued From Page 1)

56. It was used by the Army to demonstrate successful techniques for the recovery of nose cones in 1957 and in 1958 launched the two monkeys, Able and Baker, for a flight into space. They were recovered unharmed from the experimental flight that helped establish procedures later used in recovery of the nation's astronauts.

One version of a Jupiter once traveled more than 3,000 miles down the Atlantic Missile Range in a spectacular demonstration of its capabilities.

In 1957, the Secretary of Defense transferred the Army missile to the operational control of the Air Force. Later that year, it was decided to train both launch and maintenance crews at the Army Ordnance Guided Missile School which had already established schooling facilities and prepared instructors and text books.

Training was carried out at a huge simulated "integrated weapons system training" site at OGM-S. Round-the-clock instruction under bright floodlights was instituted when it was decided to base the weapons in Italy and Turkey as part of the North Atlantic Treaty Organization forces.

A top-level decision in 1962 to remove the Jupiters from their Mediterranean bases and replace them with missile-firing Polaris submarines brought the service life of the noted missile to a close.

It was reported that the Jupiter will be used by the Air Force in several forthcoming space flight experiments.

**BULLSEYES**

(Continued From Page 1)

A Battery of the 2nd Missile Battalion has been the military organization responsible for firing the missiles with technical assistance from technicians from the Pershing Project Manager's Office.

The Pershing is 34 feet long and 40 inches in diameter. It is destined to replace the Army's 70-foot Redstone in the artillery field.

A solid propellant missile, the Pershing is guided by an inertial system contained within the missile itself. The prime contractor for the Pershing is the Martin Company, Orlando Division.

**CONTRACTS**

(Continued From Page 1)

to reduce cost and in return they are rewarded with a portion of all monies saved in performance of the contracts, and penalize them for any costs above the established target.

The Pershing ballistic missile is under the technical management of Col. O. M. Hirsch, under whose direction the missile has undergone a spectacular development program.

Today's procurement awards cover the requirements dictated from Col. Hirsch's Pershing Project Office at the Army Missile Command. The Martin contract will be administered by the Birmingham Procurement District, while those to Bendix Corp. will be administered by the New York Procurement District.

Pershing is a two-stage, solid propellant, ground mobile and air-transportable surface-to-surface ballistic missile which is destined to replace the Army's 70 foot Redstone in the artillery field.

The first Pershing missile was fired in just a little more than one year from the date of initial contract and the flight test was made early in 1960.

Just the past week the Army announced that five of the Pershing missiles had been successfully fired by soldiers from Black Mesa, near Blanding, Utah, to impact points within White Sands Missile Range, New Mexico. The shots were part of the missile system's service test and marked the first time that an Army ballistic missile had been fired over

**Field Director Assigned Here**

Nicholas Fachilla, new Red Cross Field Director at Redstone Arsenal, arrived recently. His last assignment was on the island of Guam.

Fachilla has had the unique experience of serving with every branch of the Armed Services during his nearly 15 years with the American Red Cross.

The former World War II paratroop veteran served at Tyndall Air Force base, Fla., Ft. Gordon, Ga., Ft. Benning, Ga., Camp Lejeune, N. C., Warner Robbins AFB, Ga., Stewart AFB, Tenn.

He was assigned to the United Nations Command in Korea in 1954 and served at various military installations in the Far East.

He is a graduate of Emory and Henry College, Va., and attended the University of Chattanooga, for Post graduate training.

**MORE WORK**

(Continued From Page 1)

B. R. Luczak is project manager for the Nike Hercules.

The Boston Procurement District will administer the Hawk contracts, and the New York Procurement District the Nike Hercules contracts.

inhabited areas.

Technicians from the Pershing Project Manager's Office provided technical assistance to the military unit which fired the service rounds.

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# P&P Keeps Army Missile Production Rolling

## Commodity, Support Operations Are Backbone For MICOM Procurement

Last week, the first part of the story about the Procurement and Production Directorate discussed the offices of the Director, the Assistant Director's, and of the key staff members.

Today, the activities of the divisions are described, telling of their work on three rocket and missile systems.

In order to look inside P&P's organization, let's take up three of their many weapon systems—one in development, AADS 70—one in the prime of life, Honest John—and one a respectable senior citizen soon to go off duty after an honorable career, Redstone.

Let's walk each of these missile systems through the shop and see what is being done to it as we go.

Today, contractors have been selected to perform feasibility studies on AADS 70, and this new project has started a ripple of activity—much of it preliminary planning—throughout most of the 14 divisions and staff offices of the P&P Directorate.

Honest John is in full production and the entire organization is in full stride, carrying out each of the multitude of intricate and exacting steps which make up the pattern of active production.

Redstone, the first ballistic missile in the American inventory of weapons, has served an honorable career on station in distant lands and is soon to be succeeded by a later, improved system, the Pershing. Thus activity in general consists of tidying up the record and making the most economic overall distribution of production facilities and the more exotic components that have other uses.

### New Systems

John White, chief of the Policy Staff Office, finds that formulating policies for the procurement and production of new systems such as AADS 70 offers a challenge and flexibility in applying new approaches of advanced evolution in management sciences and wisdom.

Honest John is several years farther down the road and has reached the stage where many components can be bought competitively. An important activity of the Policy Staff Office is trying to find areas where there can be increased competition in procurement of components and increased independent testing of items provided by suppliers. Concentration on finding new producers of parts contributes especially in making Honest John a better weapon.

The main interest White's shop takes in Redstone production is to monitor the policies on disposal of excess equipment put out by other elements of the Directorate.

### Management and Plans

M. C. Taylor's office provides the broad outline of plans needed to guide the work to be done and coordinates planning for each of the missile systems by all of the P&P divisions and offices.

### Plans Differ

Planning for AADS 70 may be pretty broad and general in many of the divisions at this time. On the other hand, the plans for Honest John are a positive direc-

whole division.

AADS 70 falls into Kelly Prady's Direct Support Division (Guided). Prady is an aggressive and alert



KELLY PRADY

operator and obtained proposals from potential contractors for feasibility studies on behalf of the R&D Directorate. Contracts were awarded for these studies.

Prady says the R&D Directorate is presently scheduled to formulate a preliminary technical development plan later this year. When that happens, his division will negotiate contracts for program definition with the selected contractor.

### Contracting Action

The division will accomplish contracting again, as required, upon completion of the program definition to negotiate for the R&D effort with the selected contractor. Contracting action will continue until such time as the system is

ready for production.

When that time comes, P&P responsibilities to contract for procurement; as in the case for all missile systems; will be assumed as well as contracting for the R&D and S&M Directorates.

Prady's branch chiefs are Edward Waldrop, Program Management; E. W. Ertl, Procurement; and Morris Ray, Engineering.

Other systems in Prady's division are SS 10/11, ENTAC, TOW, and MTE.

W. C. Wall, a tall, husky, dark haired mechanical engineer, heads the Direct Support Division (Free Flight Rockets) to which Honest



W. C. WALL

John is assigned. Wall first came to Redstone in an Army assignment under the Scientific and Professional Program after completing basic training at Ft. Bliss, Texas.

As soon as he was out of uniform, he went to work at Redstone.

Wall and his deputy, Ken Bell, speak fluently when describing their division.

Emphasis on the Honest John

program at this time is to insure that contractors meet their delivery schedules. This is a complicated job as the Missile Command is, in effect, the prime contractor for the system. Most missiles and rockets are produced by an industrial prime contractor, who, with his subcontractors, delivers the weapon as a completed package.

### Seven Contractors

The Missile Command uses seven contractors to produce the Honest John components. "When one item is bought in one place, and six others in as many other places, they all have to fit together in a total program, be ready at the same time for loading and assembly at Radford Arsenal, Va.," Wall pointed out. "Also, production has to be scheduled to fit the five year plan," Wall added.

Wall's division originated a recommendation passed on to the VE people which resulted in cost reduction on the Honest John system. There was a change made in a closure head ring making possible an estimated total cost reduction of \$1,647.

The Direct Support Division also has procurement and production responsibilities for Littlejohn, LAW, and the 2.75 rocket.

Wall's branch chiefs are: Program Management, Garrett Hooper; Procurement, Ullman Reed; and Engineering, Edwin Kellis.

J. K. Fowler's General Support Division runs the Redstone system. Fowler is an astute, experienced young executive up from Birmingham. His Redstone system is mature. R&D was finished long ago, the system was successfully produced and fielded with our troops at advanced bases and has guarded the free world for several years.

### Replace Spare Parts

Fowler's deputy, F. B. Steven- (See PRODUCTION on Page 5)

tive for a going procurement and are very specific. As can be supposed, plans for Redstone are a matter of little more than historic record requirements.

Nevertheless, at the proper stage each division and office must make careful plans for the special contribution it ultimately makes in the tremendous effort involved in the procurement and production of any missile system.

Next, let's look at the divisions and see what sort of activities they are engaged in with our trio: How do they contribute from their special talents? What are the capabilities they bring into play for each?

### Commodity Divisions

Assignment of each of three systems falls naturally into one of the three "commodity" divisions under the Assistant Director, Commodity Operations.

These divisions are organized and carry out the same responsibilities for their respective groups of missile and rocket systems. Each has three main branches, Program Management, Engineering, and Procurement.

Let's tell a little here about the functions of the branches. Engineering has men with production backgrounds who have the real experience to guide the contractors. When problems arise in the production area, this branch knows how to solve them and keep production rolling.

Procurement Branch goes to the eleven Army procurement districts with requests for proposals from contractors to manufacture missiles and rockets. The proposals are then returned to the cognizant division for evaluation and selection of contractors. After selection is made, the districts may again be called upon to award the contracts for the Missile Command, then administer such contracts.

### Delivery Schedules

Program Management insures that contractors hold to delivery schedules. Perhaps the simplest way to illustrate the branch's activities is to briefly explain that Engineering figures engineering costs, Procurement the hardware costs, and Program Management coordinates their findings to apply them to the missile programs. They are the watchdogs for the



SECRETARIES FROM TWO ASSISTANT DIRECTORS' OFFICES—Mary S. Bailey, second from left, is the secretary for the only division in Procurement Operations. The other girls, who are from Commodity Operations, are, left to right: Cloyce Wakefield, Direct Support (Free Flight); Juliette Sperr, secretary to J. A. Muller, assistant director for Commodity Operations and Procurement Operations; Nell Smotherman, Direct Support (Guided); and Lyda Sue Palmer, General Support.



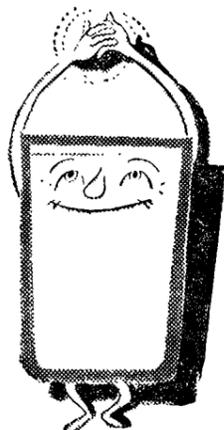
FEMINE SUPPORT IN SUPPORT OPERATIONS—Shown here are the secretaries for the chiefs in Support Operations. Left to right are: Pat Whitworth, office of Assistant Director, Support Operations; Geneva McCloskey, Facilities and Resources Division; Betty Stocks, ADPS Division; Margaret Boudreau, Engineering Division; and Shirley Davis, Quality Assurance Division.



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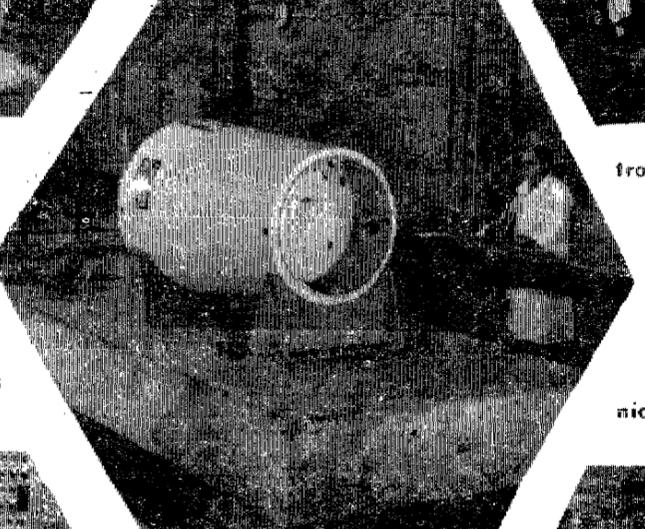
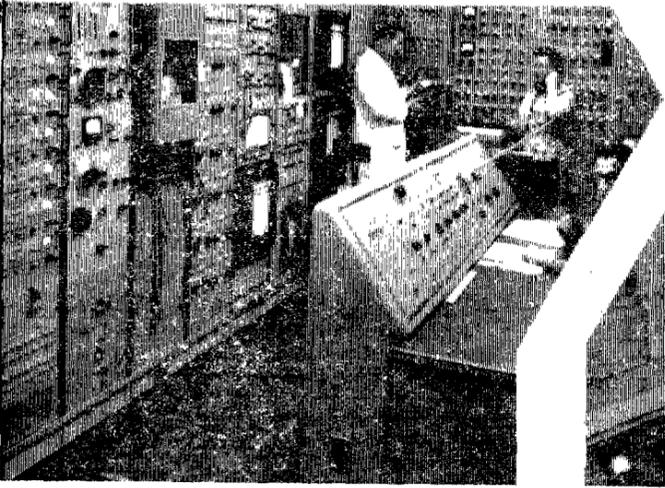
**Meadow Gold Dairies**

CLINTON STREET — HUNTSVILLE, ALA.



**MISSILE SHOPPERS**—Typewriters and calculators aren't the only machines found in the Directorate of Procurement and Production. **CENTER:** A Pershing missile section gets optical checkout; **CLOCKWISE FROM LEFT:** Littlejohn comes out of the cooler at —65 degrees; Robert Clem tracking down unknown substance through chemistry; Hawk hydraulic motor gets torture test by Frank Macomber. This Spec-

trimeter establishes the identity of an unknown plastic film; James Dickerson makes infrared radiation and temperature measurements; jolt a missile and this elaborate computing and recording equipment can take it and still come back fighting. These pictures were taken in the Directorate's laboratories where technicians leave no cone unchurned.



**PRODUCTION**

(Continued From Page 4)

son, says the General Support Division in Commodity Operations is now mainly concerned with the replenishment of spare parts, with re-build and complete system



**J. K. FOWLER**

checkout capability, engineering support to achieve product improvement.

If there are any contracts for Redstone procurement, Fowler's division handles them. They are keeping account of expenditures

on Redstone—in other words, they are the bookkeepers.

When a missile system is returned from the field, this division attempts to find an organization that can utilize the hardware for research and testing. It will be their lot to do this for Redstone when the time comes.

Fowler's staff is collecting all of the documentation on Redstone, checking for completeness and seeing that it is microfilmed, and the necessary master drawings and microfilms stored and maintained.

They are reviewing secondary item procurements for Redstone as long as repair parts are needed, to make sure drawings reflect items being produced.

The General Support Division under Fowler has, in addition to Redstone, procurement and production responsibilities for Jupiter, Corporal, Lacrosse, Redeye and the target missiles, Redhead/Roadrunner, Towbee/Firebee, the 1025 and RP 76, and for additional projects.

Reaford V. Williams heads the Procurement Branch in General Support Division, A. E. Chiles, Program Management, and William J. Bright, Engineering.

**Support Operations**

We now turn to Paul Schaeppi's side of the house for the Support Operations that his people pro-

vide for each of our systems.

The Facilities and Resources Division of his office is headed by Charles Yates whose career has been spent in the field of procurement, production, facility and supply areas.



**CHARLES YATES**

In keeping tab on American industry, Yates has complete plans for all the facilities used in production of Army missiles whether owned by the contractor or government furnished. He and his people can assist in the selection of a contractor bringing into play their broad knowledge of contractors generally and of their special capabilities.

Records in F&R show \$115,000,000 worth of property in 226 locations in use on Missile Command missile and rocket programs, R&D as well as production work.

**F&R Steps In**

W. E. Leonard, Yates' deputy in F&R, gives a clear picture of his division's activities.

Regarding AADS 70, he describes the course being followed: "When feasibility studies are completed and a contractor is to be selected, F&R will participate in selection as to capability for production by the contractor's being considered. This will be part of the team effort, the team to include other elements of P&P and of the Missile Command."

To get down to specifics regarding F&R's role on Honest John—as production is being completed on this rocket, the main effort is in disposing of government owned equipment and tool-

ing, reallocating the property to other programs, and to a small degree in the case of tooling, to other current producers.

A few items of production equipment, for instance, have been transferred from a former Honest John contractor to another company for work on a newer system.

F&R is examining the Mobilization Plan for Honest John based on quantities required by the S&M Directorate, and to determine what production planning for mobilization purposes should be maintained after completion of planned production.

**Supports Operation**

F&R's main efforts on Redeye are to insure retention of Army production equipment and tooling necessary to support the remaining production program. The contractor does the depot mainten-

ance on Redstone, and also produces the spare parts. F&R supports and protects the operational capability of Redstone until it is taken out of the field.

There is no Mobilization Plan required for Redstone since it is to be replaced by a newer missile.

In general, Yates' division has to consider excess tooling and equipment from all missile contracts.

There may be an excess of tooling resulting from engineering changes, yet some of this tooling may be needed to produce more components for weapons that are already in the field built to the original specifications. In that case, enough will be kept for that purpose and the remainder disposed of.

If there is special tooling in (See PRODUCTION on Page 6)

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**PRODUCTION**

(Continued From Page 5)

excess because production is finished, F&R has to consider whether or not there will be another "buy" of the missiles thus necessitating retaining it. If the same contractor builds the further orders, he naturally retains this equipment. If another producer has the award to do the work, he may use the tooling if it fits into his plant.

When the excess equipment results from completion of an R&D contract, utilization of it may be quite different. The machinery to produce R&D prototypes may not be practical for production models. The first people to have an opportunity to get this equipment are elements of the Missile Command such as the R&D labs, P&P's Engineering Division, and the Ordnance Guided Missile School where it can be used for training.

**Need Is Sought**

The ultimate goal in Yates' division is to avoid scrapping any equipment if a need can be found. His people go through a complete cycle to find users. These include other branches of the Armed Forces, the Department of Defense, General Supply Agency, Health, Education and Welfare, and the Defense Supply Agency. If there are no "takers," the material may eventually be donated to local governments, educational institutions, etc.

F&R also directs an operation under the Defense Material System which entails, first, the forecasting of controlled material requirements, and second, by allotment of material to contractors for specific requirements as the contractors submit justified requests. The controlled materials are steel, copper and aluminum and alloys thereof.

This division has three branches: Mobilization Planning, headed by K. F. Yates; Program and Projects, headed by H. L. Combs; and Utilization and Disposal headed by E. G. Gose.

**Engineering Division**

Approximately one third of the people who work in P&P are in Lt. Col. John Weaver's Engineering Division of Support Opera-



LT. COL. JOHN WEAVER

tions. Col. Weaver is a native of nearby Decatur, and a graduate of Howard College with a bachelor

of science degree in chemistry. "Chuck" Sandlin is his deputy, and recently served as acting chief of the division.

All three of our systems under consideration make use of the extensive laboratory facilities such as environmental chambers, metrology, and material analysis, etc. as the need arises.

Here the components for Honest John are brought in by truck or air to be subjected to the ravages of salt fog, vibrations, extremes of temperature and altitude. These tests are to prove the battleworthiness of the rocket under all possible conditions.

Additional support of an extensive nature is also available to our three systems and to others in the Engineering Division. Among these are the support of break-out contracts, critical evaluation of drawings and hardware changes to see if they are worthwhile, compliance with DOD and International Standardization Office requirements, and solving problems common to two or more missile systems.

The Engineering Division maintains four and one-half million drawings, one and one-half million of which are active.

In the field of standardization ADRES (Army Data Retrieval Engineering System) permits contractors to find out readily what standard items are available. They can thus avoid introducing additional non-standard parts into the supply system and also unnecessary design of new components when a satisfactory one exists as standard.

**ADRES Emphasized**

To regress a moment, and take another bow to the Value Engineering people in John White's office, let's point out that the ADRES concept was a brainchild of that off. ce. The use of ADRES is emphasized in the Engineering Division.

On AADS 70, the Engineering Division is just beginning to plan what they will do for the program. The Standardization people are putting in requirements for the specifications and making their requirements known.

Documentation Branch is assuring that the contractor understands the necessity to use standard parts and seeing that they get and use ADRES. They make certain, too, that documentation requirements are spelled out in the contract.

Components and production problems for Honest John come to the Engineering Division frequently for the service of all sections and divisions.

Since Redstone is mature, the activities for this missile in the Engineering Division are heaviest in the Documentation Branch. They have to make records of all documentation the contractor has generated, match it against what they have in the files, (this is done by computer methods), then require the contractor to send in microfilm of all documentation not at the Missile Command, for historical purposes.

The Engineering Division makes one of P&P's most valuable contributions to the success of mis-

siles and rockets.

**Laboratories**

The work is done in the Labs. the DOD and International Standardization Office, the Documentation Branch, the Reliability Branch, the Multi-Systems Project Branch, and the Technical Operations Branch.

Robert O. Black is the Reliability chief; W. R. Sheppard, Lab chief; O. D. Lambert, DOD and International Standardization Office; J. D. Johnson, Multi-System Project Branch; Curtis Williams, Documentation; and L. M. Wheat, Technical Operations.



AUSTIN COUCH

Austin Couch, an old timer at Redstone, heads the ADPS Division of Support Operations. He is one of the relatively few among P&P personnel who has been in the rocket and missile business since 1950.

For our three systems—his division now transmits procurement data on AADS 70, and has initiated consideration of the generation break-down requirements—a system for defining related pieces of equipment on drawings. This is done by tape.

**ADPS Division**

The ADPS Division is extremely active with the heavy flow of procurement documentation currently resulting from Honest John procurement. The division has yet to complete the general break-down of listings.

The Division is continuing to process whatever few orders are still flowing from the Redstone program.

The major task of assuring that the missiles and rockets being procured by the Procurement and Production Directorate are of a satisfactory quality level rests with the Quality Assurance Division of Support Operations.



KENNETH E. JOY

This division is headed by Kenneth E. Joy, a skilled professional engineer, and his deputy, Robert M. Hooker, an experienced quality assurance management specialist.

On the AADS-70, quality assurance personnel have been participating with other Command elements in developing program

objectives and outlining overall system requirements to prospective contractors.

Contractor proposals have been evaluated with regard to quality considerations and pre-award surveys will be conducted on site at the contractors' facilities to fully evaluate their quality capabilities.

**Quality Engineering**

Following selection of the system prime contractor(s), the division's Quality Engineering Branch headed by Miles R. Hardenburgh, develops and places requirements on the contractor for the development of quality standards, planning and development of an effective quality control system, and the design and manufacture of inspection equipment and testing procedures.

The contractor's effort is monitored closely by quality assurance personnel through on-site evaluations and progress conferences with the contractor and the cognizant Army Procurement District.

As the contractor's quality program for the AADS-70 system is developed, the Quality Assurance Division evaluates for technical adequacy the quality assurance documentation and designs of inspection equipment prepared by the contractor, initiating any corrective measures required.

For the Honest John, the quality assurance documentation necessary to manufacture a quality item has been substantially completed and approved. This documentation must, of course, be kept current and any necessary changes or improvements incorporated.

Quality Assurance activity does not cease with completion of the industrial production phase as seen in its handling of the Redstone. Reports from field activities reflecting deficiencies on material in storage or use are investigated by the Quality Assurance Division to prevent any further recur-

rences.

**Project Evaluation**

The Operations Branch under James E. Holt develops a Product Evaluation Program which identifies the major components requiring independent Government testing prior to and during production in order to assure the contractor's ability to produce a quality item.

This branch also does preliminary planning and programming for performing checkout and firing of samples of production missiles and rockets at firing ranges.

The Quality Assurance Division manages the overall inspector training program utilizing the training facilities.

We have now walked through P&P, taking a special look at three weapon systems, and noting other activities as we passed along.



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# Little Leaguers Battle Toward Champion's Slot

The "mighty might" of the Midget Football League displayed their hidden talents — cheerleaders and all—Friday night and dazzled about 200 fans at the Patton Road gridiron.

When all the helmet bumping and cheerleading had ended, the scoreboard read: Arsenal Huskies 20 and the Redstone Park Bulldogs 6 in the 90 pound division; Arsenal Hawks 24 and the Redstone Park Raiders 19 in the 105 lb. division.

In the first game, the Bulldogs took the opening kickoff and returned the ball to their own 37 yard line. Four plays later they were on the Huskie 15 yard line, thanks to a fine 27 yard run by Little Charlie Ferguson, a fleet-footed 65 lb. halfback. The Huskies' Bob Handy stopped the enemy attack however, and the Bulldogs never again came close to scoring in the first half.

In the second period, Bruce Mosley, Huskie quarterback, broke through the Bulldog line for 10 yards followed by a 15 yard TD. The extra point attempt failed and the Huskies led 6-0.

The Bulldogs immediately fought back in the second half and scored on a well-executed 44-yard pass play from QB John Shamblin to end Ron Fennell. The score stood at 6-6 as the Huskies held the Bulldogs on the try for the point-after TD.

Not to be outdone by the Bulldogs though, Bob Handy of the Huskies returned the kickoff 35 yards to the Bulldog 14 yard line. Two plays later, Mosley scored his second TD of the game. Handy converted the extra point and the Huskies forged ahead 13-6 late in the third period.

Charlie DeMichael and Murdock Melver of the Huskies played fine defensive ball in the second half and prevented the Bulldogs from penetrating deep into Huskie territory.

Handy, Huskie halfback, ripped off consecutive runs of seven and 25 yards taking the ball to the Bulldog eight yard line. On the next play, Robin Reinhard dashed over for the TD and Handy scored the extra point for a 20-6 Huskie victory.

Playing a fine game were Ferguson, Shamblin, Fisher and Ron Fennell for the Bulldogs and Mosley, Reinhard, Sunburg, Handy and Melver for the Huskies.

Whereas the first game of the evening was a running game, the second game was sparked by the accurate passing and excellent

field play of Hawk quarterback Danny Brown.

The Raiders opened the game by marching down field only to have Lee Carlson intercept a pass on the Raider 30 yard line. Following two consecutive penalties, including a TD being called back, the Hawks finally lit up the scoreboard with six points as Brown hit end Lee Carlson for a 28-yard TD pass.

With the Hawks leading 6-0 Brown fired a long pass down field only to have it intercepted by Jerry Byrd, Raider quarterback, who scampered 40 yards for a TD. A Byrd to Michaels pass play for the extra point gave the Raiders a slim 7-6 lead at the end of the first period.

In the second period, the Hawks marched 40 yards and scored on an 18-yard pass from Brown to his big end Lee Carlson. The extra point try failed.

Trailing 12-7, the Raiders wasted no time in taking the lead 13-12 as Jimmy Clark did some fancy stepping and sprinted 50 yards for a Raider TD.

Late in the first half, the Hawks with the fine running of halfback Pat Sullivan and a 40-yard TD pass from Brown to Carlson, took a narrow 18-13 lead.

The third period was sparked by two fine TD runs. The first TD was a 22-yard scamper by Hawk halfback Archie Cogswell and a 24-13 Hawk lead.

The Raiders bounced right back as Byrd dashed for a 30-yard TD. Neither team scored in the fourth period and the Hawks won 24-19.

Outstanding players in the game were Byrd, Clark, Michaels and Mills of the Raiders and Lee Carlson, Brown, Sullivan, Robinson and Cogswell of the Hawks.

### STANDINGS OCTOBER 1

| 90 lb. Division     |   |   |   |
|---------------------|---|---|---|
|                     | W | L | T |
| Redstone Huskies    | 1 | 0 | 0 |
| Redstone Razorbacks | 1 | 0 | 0 |
| Park Bulldogs       | 0 | 2 | 0 |

| 105 Lb. Division  |   |   |   |
|-------------------|---|---|---|
|                   | W | L | T |
| Redstone Hawks    | 1 | 0 | 0 |
| Redstone Warriors | 0 | 0 | 1 |
| Park Raiders      | 0 | 1 | 1 |

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## Wives Golf Group Holds Tournament

The Officers Wives Golf Group tournament for the day last Tuesday was blind partners.

The winners were: first, Mrs. William Clisson and Mrs. James Cobb; second, Mrs. Charles Owens and Mrs. Lloyd Deppensmith; and third, Mrs. Rex Javins and Mrs. Harry Murray.

Mrs. Frank Napper is chairman for the Redstone Arsenal Officers' Wives Club Golf Group.

### COUPLE'S TOURNEY SLATED

A blind partner tournament will feature weekend play at the Redstone Arsenal golf course on Sunday.

Persons desiring to participate in the meet must sign up as a team, male and female, and must be at the clubhouse by 12:30 p.m. Sunday.

## Dixie States Judo Tournery Scheduled Here Oct. 5-6

Judo players from six southeastern states and the Canal Zone will participate in the 1963 Dixie States Fall Judo Promotional tournament at the Redstone Arsenal gym on Saturday and Sunday, Oct. 5 and 6.

The competition (called a shiai) is sponsored by the Judo Black Belt Federation of the United States. It is recognized by the Kodokan Judo Institute of Tokyo, Japan, and the American Amateur Athletic Union.

The primary purpose of the meet is to arrange for the contesting and examination of member Judo players (or Judoka) for promotion, according to Col. David Marcelle, project officer for the tournament. Col. Marcelle is Finance and Accounting Officer for the Missile Support Command.

A third-degree Black Belt holder himself, Col. Marcelle commented that the meet will also serve as a means to evaluate, test and record non-member judo players.

He indicated that as many as 200 players will participate in the meet including about twelve military and civilian personnel of the Arsenal.

### BOWLING CLINICS HELD

Bowling clinics have been held recently for the women of the Thursday morning league and members of the Bantam league at the Redstone Lanes.

There were 25 children, ranging in age from 8 to 12, attending the Youth clinic that was conducted on Saturday, Sept. 25. Most of those attending were newcomers to the sport.

The ladies held their clinic on Wednesday, Sept. 25, with the instructors coming from the Pin Palace in Huntsville.

## Violette Captures Grand Aggregate At Dixie Match

Redstone Arsenal's smallbore riflemen showed increased marksmanship in the Dixie Roundup at Chattanooga last weekend in a field of about 30. Team members are assigned at the Army Ordnance Guided Missile School.

Shooting in the expert class, SP5 John R. Violette of Company B, Student Training Center, swept the field to attain the grand aggregate. His trophies include firsts in the 50 meter iron sight, the Dewar iron sight, the 100 yard iron sight, the iron sight aggregate and the any sight aggregate. He placed second in the 50 yard iron

sight and Dewar any sight matches.

CWO Harley G. Winterrowd of Headquarters and Headquarters, STC, took first places in the 50 yard iron sight and the 100 yard any sight matches and placed second in the Dewar iron sight, the iron sight aggregate and the any sight aggregate to take second place in the grand aggregate as a sharpshooter.

SP6 James I. Maloney, Company A, STC brought home firsts in the 50 yard any sight and 50 meter any sight, second in the Dewar any sight and third place in the grand aggregate as a sharpshooter.

Shooting as a marksman, PFC Gary E. McGee of Company B, STC placed second in the 50 meter any sight match.

The team will shoot in Birmingham this coming weekend. In the Dixie roundup they were shooting against people from Tennessee, North Carolina, Kentucky, Ohio, Alabama and Georgia.

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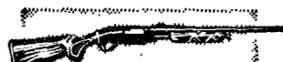
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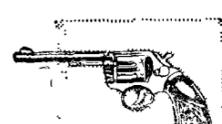


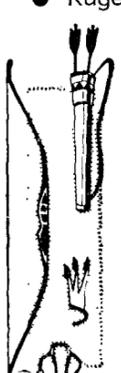
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## Tea Planned To Honor Mrs. Zierdt

Mrs. John G. Zierdt will be honored at a tea sponsored by the Redstone Arsenal Officers Wives Club Tuesday, Oct. 8 at 1:30 p.m.

The event is scheduled at the Squirrel Hill Officers Club.

Several Groups sponsored by the Wives Club will participate. The Garden Club is planning special flower arrangements, and paintings by members of the Art Group will be displayed.

The guest list will be limited to house guests and those eligible for membership in the Officers Wives Club.

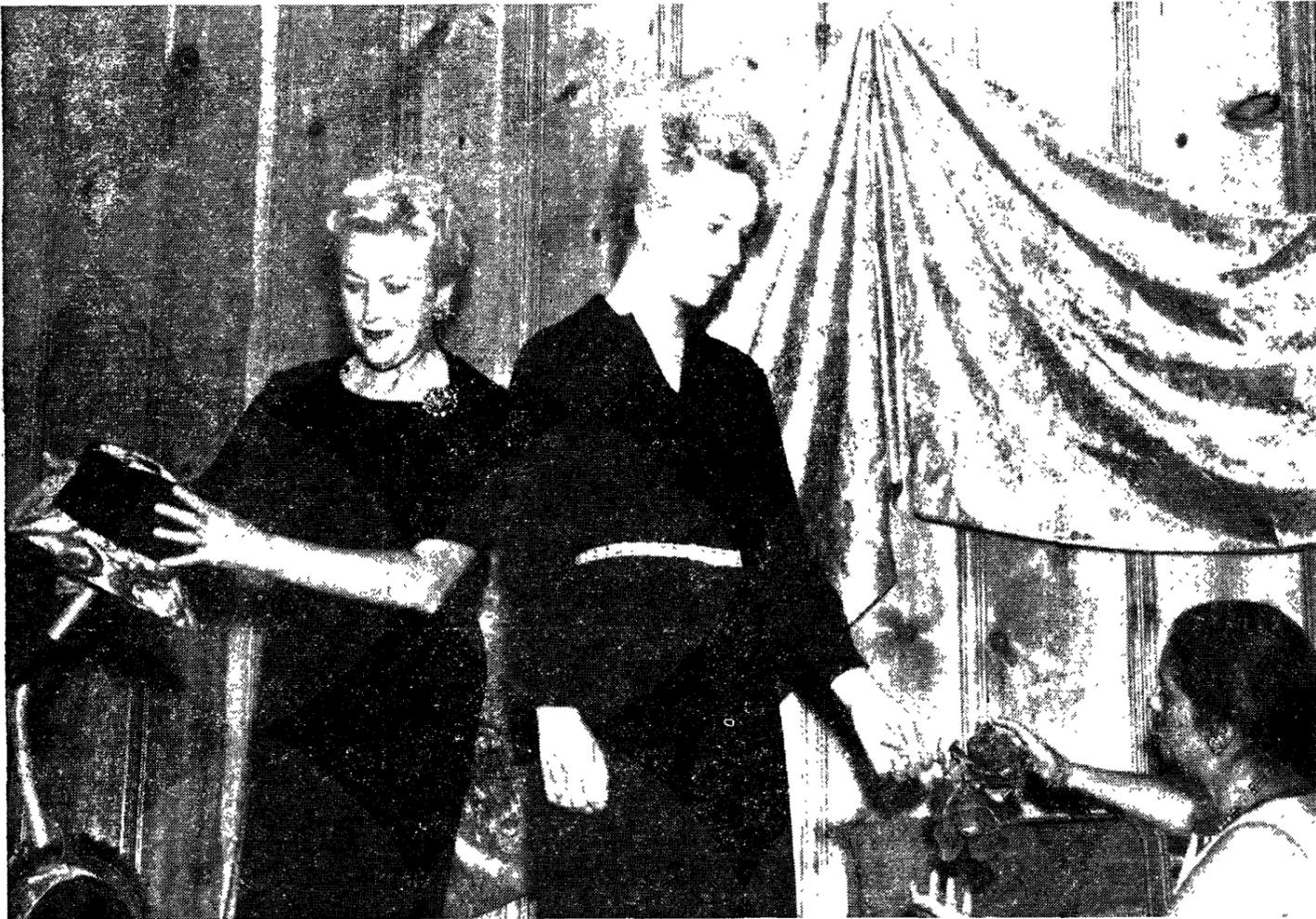
Mrs. R. L. Bryant, 877-5157; Mrs. J. Farrington, 877-5260, Mrs. J. B. Stewart, 877-5556; and Mrs. William Paris, 877-5342 are handling the reservations.

white crepe blouse illustrated evening attire for the hostess.

The last model bounced out in a blue plush robe over blue striped pajamas, fuzzy blue house slippers and a lace night cap while the background music pealed "Good Night Ladies."

The committee members from the Auxiliary who arranged the fashion show were Mrs. J. R. Moore, chairman, Mrs. Hank Geautreux, Mrs. Leonard Crane and Mrs. Keith Brown.

Mrs. Val Reide furnished organ music for the program.



ARRANGE DECORATIONS—Officers of the Redstone Arsenal Non-Commissioned Officers Wives Auxiliary arrange the decorations for the fashion show last week at the NCO Club. Left to right are Mrs. Louis De Michele, vice president, Mrs. John Sloan,

president, and Mrs. Thomas Costello, treasurer. Milady's accessories were the background for the models who displayed the latest Fall fashions.

# NCO Auxiliary Features Elegant Fall Fashions

Fashions described as "elegantly simple and simply elegant" were shown to an enthusiastic audience composed of 350 members and guests of the Redstone Arsenal Non-Commissioned Officers Wives Auxiliary last Tuesday night at the NCO Club.

The models were from a Birmingham college, and the clothes were furnished by local shops. The commentator, Miss Pat Vine, accompanied the models.

The show started with sport clothes stressing slacks of stretch materials topped with the newest styles in sweaters, blouses and jackets.

Among the more striking coats shown were those the commentator described as "fabulous fakes" of leopard, Persian lamb and pony skin design cloth. Top-

ping many sports costumes were matching babushkas, an attractive change from the head scarves often worn in chilly weather.

Seen often with Fall sports wear are boots. Some are knee length, some half way up the calf, some jodphur height, made of both dull and shiny leathers.

Knee socks appeared with the sport skirts and bermuda shorts. Two models wore "perts," a word that results from the combination of "skirt" and "pants." The costume is a skirt split to reveal the shorts underneath it.

Several versions of the shift were among the dresses shown. The colors reflected the essence of fall—orange, gold, warm reds.

Two unusual dresses were a knit coat style that looked like nothing more than long cardigan

sweaters, but were very effective.

Leather and suede appeared both as trimming for sports clothes and in complete suits.

One model had a surprise for the audience when she pulled a raincoat out of her purse. The "purse" was actually the carrier for the coat, made of nylon that simulated alligator.

Suits displayed by the models ran the gamut from gay checks, plaids and tweeds to classic velvets and flannels.

Simplicity and straight lines appeared in the "after 5" dresses. Those shown included a gold brocade, a black crepe with touches of bugle beads at the neckline and on the pockets, and a black crepe with low neckline.

Hats emphasized the "Garbo" look, with droopy brims

A gold colored basic dress modelled was an example of a single item that could be adapted for three different occasions by changing accessories. For casual wear, a simple leather belt and a leopard cloth beret were worn. For an afternoon party, the acces-

sories were changed to a double strand of pearls and a dressy hat. For evening, the leather belt was replaced by one of wide gold fabric and plain dark shoes by gold pumps. The jewelry for evening was long, gold earrings.

One long black velvet skirt, gaily printed velvet vest and soft



ALL EYES FRONT AND CENTER—Three OGMS students, two from Germany, and one from the Netherlands, admire one of the "after 5" fashions shown by the NCO Wives Auxiliary last week. The students are left to right, Sgt. Guenter Hopke, Germany, SFC Gerrit Peek, the Netherlands, and Sgt. Guenter Knauss, Germany. The model is Miss Jimmy Lou Oldham of Birmingham.



SPORTSWEAR IS COLORFUL—Two of the models from a Birmingham college wear the latest versions of Fall sports clothes during the NCO Wives Auxiliary Fashion show last week at the NCO Club.

It's a "DANDY"

This style is for After 5  
or Evening Wear . . .

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### TWO ARE WINNERS AT PARTY BRIDGE

High score winners at Monday night Party Bridge last week were Mrs. Eugene Krembs for the women, and Maj. Ronald Duke for the men. Eight tables were in play at the Squirrel Hill Officers Club.

Mrs. Peter Iber and Mrs. Frederick Breslin handle the reservations. Mrs. Iber's phone number is 877-5235, and Mrs. Breslin's, 877-5269. Cancellations must be phoned to one of them by Sunday night at the latest.

All members of the Officers Club are invited to participate in the Monday night Party Bridge.

### Mrs. Javins Wins At Thursday Bridge

Winners at Thursday Party Bridge last week were Mrs. R. R. Javins, first, Mrs. E. S. Schorsten, second, and Mrs. M. J. Dooley, third.

The party bridge group, sponsored by the Redstone Arsenal Officers Wives Club, meets at the Squirrel Hill Officers Club.

Reservations to play should be made by calling Mrs. E. S. Schorsten at 539-6893.

Dock Kipp the magician.

Jack Hall and Bill Hutson presented a duet of folk songs.

The club ballroom had a field of white daisies with multicolored pastel centers and balloons festooned with confetti strung above the dancers. A buffet supper was served from tables lighted by multibranch silver candelabra and decorated with bouquets of yellow chrysanthemums.

The advisory committee included Mrs. H. P. Persons, Jr., Mrs. T. W. Cooke, Mrs. N. T. Dennis and Mrs. Charles Graham. Committee members were Mrs. Harold Zier, Mrs. R. W. Van Wert, Mrs. J. S. Farrington, Mrs. T. B. Christiansen, and Mrs. R. C. Rembish.

The decorations were planned and planted by Mrs. D. F. Shepherd, Mrs. Harry Murray, Mrs. J. F. O'Keefe, and Mrs. F. L. Furphy.

Tickets and reservations were handled by Mrs. H. C. McClain, Mrs. T. R. Edwards and Mrs. R. V. Pace.

### HLT Will Present First Full Musical

The Huntsville Little Theater will present the Broadway musical comedy, The Pajama Game, Oct. 4-5 at Huntsville High School. This will be the first full scale modern musical produced by a Huntsville organization. This will be the first

production of HLT's 14th season. The musical tells the story of love and romance versus management and labor in a pajama factory in the middle west. It features such familiar numbers as "Hernando's Hideaway," "Steam Heat" and "Hey There" plus many other exciting song and dance routines from the tango to soft shoe.



**SHIFT TO CHARLESTON**—Fashions have shifted to variations on those popular in the Rearing '20s and apparently dance patterns are doing the same as demonstrated by Doreen Miley and Betty Ennis during the floor show of Saturday night's dance at the Squirrel Hill Officers Club. The dinner-dance was a benefit sponsored by the Redstone Arsenal Officers Wives Club to raise funds for the Distaff Foundation. About 800 people attended.

## Wives Club Sponsors Benefit Dinner Dance

The Army Distaff Foundation coffers will be swelled by a substantial contribution from the benefit dance sponsored by the Redstone Arsenal Officers Wives Club Saturday night.

Expenses had not been determined at press time so the amount of the contribution is uncertain. Announcement will be later this week when the money is turned over to Col. Thomas W. Cooke, Commander of the Army Missile Support Command, to be forwarded to the Distaff Foundation Headquarters in Washington.

Mrs. W. W. Holmes worked as chairman for the event which was attended by more than 800 people.

Dance music was furnished by the Hilding Holmberg orchestra. Jack Farrington produced a floor show on which he and Bob Perry shared the bill as master of ceremonies.

The Kings Men, recently returned from a Third Army tour, played and sang their special folk song arrangements. The men are George Maillet, Art Kalin and Jeff Tucker. Harry Ennis stage-managed the production.

Doreen Miley and Betty Ennis demonstrated the Charleston and Betty Graham presented two dances: comic interpretation and classical ballet numbers.

The comedian was Sid Davis;



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**Thelma Shelton shown with her prize-winning model . . . Joyce Throneberry.**

Mrs. Shelton won the Grand Trophy in Alabama's Supremacy Contest held in Montgomery, September 8th.

● The contest was on new trend forecast for fall and winter.

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## At The Service Club

By: Brenda Hanson

The first event on our program this week is the EM Council Meeting Wednesday at 2 p.m. At 7 p.m., bridge instructions begin. If you are interested in learning to play Bridge, come to the Service Club Wednesday night. Too, a Bridge Club is being formed. We invite you for an evening of bridge each Wednesday night beginning at 6 p.m.

Thursday, Oct. 3 at 6 p.m., TV favorites take the eye. Later in the evening at 8, a fudge party is on the agenda. For you people who have a sweet-tooth, come to the party. You may be fortunate enough to clean the pans.

Saturday, Oct. 5, musical requests will be played at 6 p.m. If you have a request, just drop by the office and give us your suggestion and it will be played for you. At 8 p.m., favorite games will be played. These games and equipment are at your disposal each night, and Saturday we spotlight them. Be it pool, ping pong, chess, cards, archery, shuffleboard, or various others, it's here for you.

Sunday, Oct. 6, coffee and donuts will be served at 9 a.m. Drop by the Service Club for a refreshing cup of coffee and a donut.

The weekly Sunday night record dance will spin out under the theme of "October Whirl." PFC Bob Perry will be spinning the plates for you. If you have a request you would like to have played, just drop the word off at the DJ platform.

Monday, Oct. 7, we relax in the main lounge with game night. A grand prize plus an interesting array of other prizes will be given.

Tuesday? Dance class. Dance instructions take over the main lounge to get in shape for the rounds of up-coming parties and dances. These classes are taught each Tuesday from 7 to 9 p.m.

### MISCELLANEOUS

Congratulations go to PFC Donald F. Neals of Hq & Hq STC for being the final Champ of the Post Wide Pool Tournament held at the Service Club on Sept. 19 and 20. Don displayed remarkable talent in the control of the pool balls. Not only was PFC Neals Post Wide Champ of '63, but he also won the Post Wide Tournament of '62. The opponents for the final play-off were PFC Neals and SP5 Neary. SP5 Neary did an excellent job competing against the previous champion, and led the score in the beginning of the game. Then PFC Neals, releasing the tension came back into the game ending the tournament with a final score of 36-50.

You who missed the Hootenanny featuring the King's Men missed a real treat. The trio held a standing ovation throughout the evening and it was enjoyed by all who attended. If you missed the Kings Men, we hope to have them again next month.

Next month's program looks promising. You short-timers who are anxiously counting the hours until your discharge, let us help

you while away your extra hours at the Service Club. Disraeli and leave you with a thought. "Count not the minutes by calendars, but by sensations

and each moment will be a day, and each day a life."

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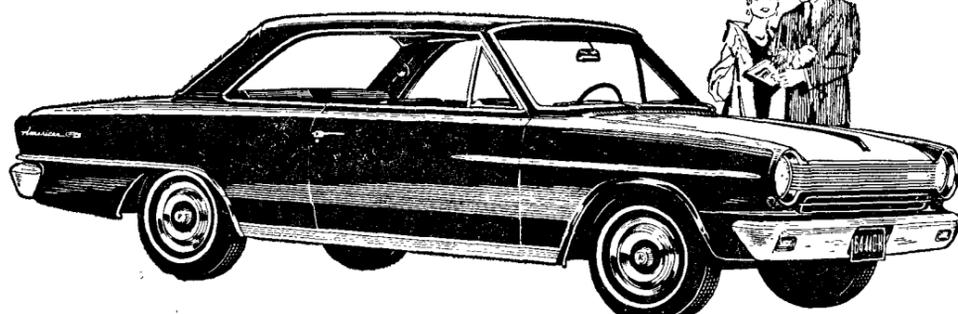
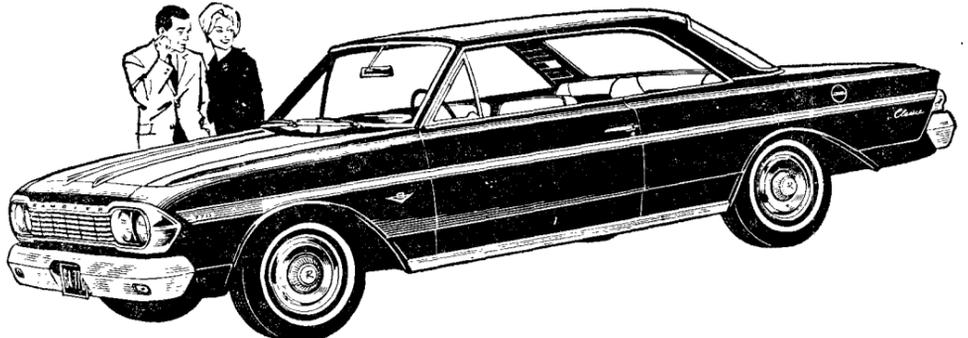
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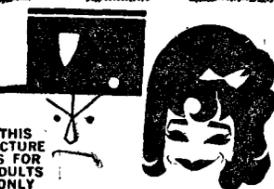
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RELEASED THRU UNITED ARTISTS

### OPEN SEASON SET FOR CHANGES IN CIVILIAN HEALTH BENEFITS

The Civil Service Commission has provided for an open season change in registration of Health Benefits Plan during the period Oct. 1 through Oct. 15, according to an announcement by James Blackburn, Chief, Employment Service Division, Civilian Personnel Office.

The purpose of this "open sea-

son" is to provide every employee eligible to participate in the program an unrestricted opportunity to change his health benefits registration.

#### Changes Permitted

Changes permitted are: any eligible employee who is not registered to be enrolled may register to enroll; and any employee who is enrolled may change from one plan option to another plan or option, or from self and family (or the reverse), to any combination of these changes.

Eligible employees were to receive revised open season material before Oct. 1. If personnel have not received the material contact Mrs. Joan Johnson, CPO, Ext. 877-5209.

Open season changes will not be accepted after close of business Oct. 15.

### \$900,000 GOES TO SOUTHEASTERN BUSINESS FIRMS

Business firms in the Southeast received orders from the Army Missile Command during August which totaled more than \$900,000. This was for goods and services for Missile Command personnel whose daily work is development of Army rockets and guided missiles. It included food, laundry, clothing, mechanical repairs and material needed for the upkeep of grounds and buildings.

The people at the Missile Command who do the shopping and order the goods are in the Purchasing and Contracting Division of the Army Missile Support Command and in the Missile Command Procurement and Production Directorate.

Huntsville firms received more than half of the orders amount-

ing to approximately \$457,000 worth of business.

Tennessee and Georgia companies shared \$250,000 in purchases, including payment of the bill for electrical service.

Some \$125,000 went to Birmingham concerns, and businesses in other cities throughout Alabama received more than \$80,000. These orders and purchases do

not include the awards for a million dollars or more made to industries across the country for procurement and production of Army rockets and missiles.

Lt. Col. Frank F. Ratsbun reports on the Armed Forces Staff College in the October issue of ARMY Magazine.

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# Hire The Handicapped Emphasized Next Week

Federal employers in this area were urged today to give serious consideration to hiring handicapped citizens who possess needed skills when vacancies occur.

The plea was made by Hammond B. Smith, Director of the Atlanta Region of the U. S. Civil Service Commission, which includes the states of Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, Tennessee, Puerto Rico and the Virgin Islands.

Smith also urged Federal managers and employees in this area to cooperate with Governors' Committees, Mayors' Committees, civic organizations, and private citizens in the observance of National Employ the Physically Handicapped Week during the period of October 6-12.

"The success which Federal employers have met in hiring some 200,000 handicapped citizens during the past two decades gives us a compelling reason to support this program," Smith said.

He reported that 19 of every 1,000 persons hired by the Federal Government last year were physically handicapped or had been restored to health after suffering illness.

"These employees are demonstrating ability—not disability," he said. "They are contributing to such national programs as space science, agricultural research, law enforcement, and numerous citizen services. Their jobs include all known professions and occupations."

Smith linked the Government's

policy with regard to hiring the handicapped to its general policy of extending equal employment opportunity to all citizens.

He quoted the Chairman of the U. S. Civil Service Commission, John W. Macy, Jr., as saying:

"For many years, equality

of opportunity was more passive than active with respect to some groups of citizens — minority groups of certain kinds, older workers, and the physically handicapped, among others.

"Within the last few years, however a highly significant change in attitude has taken place in the Federal civil service — a change from allowing equal opportunity to insisting upon it.

"Today, under positive leadership and direction from President Kennedy, we are taking strong and specific measures to wipe out the last traces of discrimination."

To hire the person best qualified to fill every vacancy, Smith said, all citizens must be given a fair chance to compete for Federal jobs.

History has proved, he said, that "Handicapped citizens who possess needed skills are in fact not handicapped when they are properly placed."

He cited a study of the work of handicapped citizens employed in Federal jobs which showed that handicapped workers:

1. Perform as well as, or better than, able-bodied workers in both quality and quantity of work produced.

2. Have a lower rate of turn-

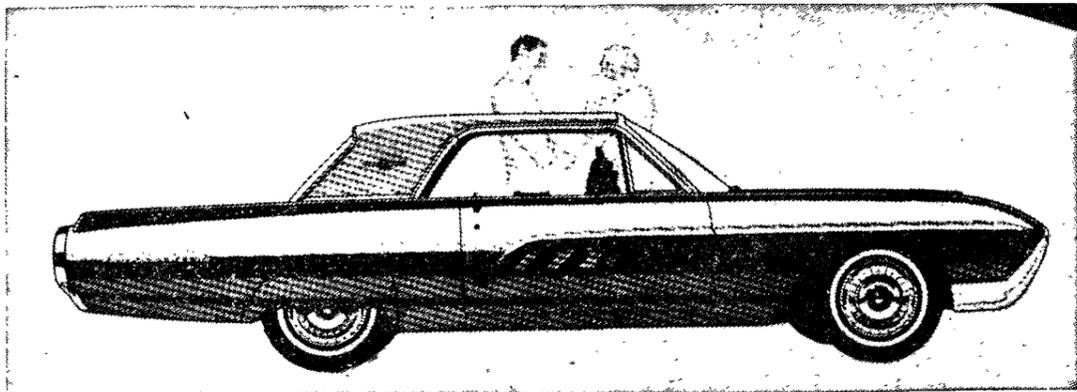
over.

3. Have fewer lost-time accidents, although their accident-frequency rate is slightly higher.

4. Their absentee records compare favorably with those of the non-handicapped.

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**SOLDIER OF THE MONTH**—SP-4 Thomas W. Moore receives congratulations from Colonel Thomas W. Cooke, Commander, Army Missile Support Command, for achieving Soldier of the Month. Watching is W. O. Gaetano Carorale, OGMS. SP-4 Moore is in the 1st Battalion, 81st Artillery, Unit Training Center, OGMS. He has resided in Washington and Oregon states most of his life, and he entered basic training at Fort Ord, California. He has been feted and entertained by the Huntsville Chamber of Commerce membership and was guest of honor at a Jaycee Dinner Meeting.

## Welcome Mat

The ROCKET extends a welcome to the following civilian personnel who have recently been assigned to U. S. Army organizations:

### ARMY MISSILE COMMAND

**Procurement and Production:** Ola M. Adams, Fannie E. Clark, William J. Drake, Neta R. Faulkner, Carol W. Hertz, Dorothy G. Mays, Edna P. Pritchard, Glenda G. Shelton, Dorance D. Teacle, Jonelle P. Ward.

**Supply and Maintenance:** Jimmy B. Anderson, Thomas B. Billingsley, Dorothy L. Bowen, Eleanor P. Burgess, Bernard J. Cassidy, Max H. Danford, Harry S. Dougherty, Hansel C. Foshee, Charles A. Garner, Evelyn G. Green, Sara H. Hodges, Frances S. Hyatt, James L. Lybrand, Alma J. McFarland, Thomas A. McGrath, Jr., William W. Mayhall, Jr., Shelby Miller, Brenda J. Moring, Peter Newton, Helen M. Nixon, Myrtle I. Ryan, Norma M. Street, Benjamin F. Towers, James N. Wallis, Larry T. Wampler, Oris D. Williams, Jr., Ralph T. Witherington, John L. Wood,

chapter, urges that all packaging and handling engineers in this area contact him in Huntsville at 536-9348 to make reservations to attend the dinner meeting.

and E. Janice M. Woodall.

**Requirements and Distribution:** Sletty I. Ballew, William G. Briscoe, Katharyn Finney, Robert J. Folmar, Cody W. Foote, James P. Gross, Jr., Margaret H. Hall, Rex M. Heck, Marvin W. Hodges, Michael R. Hunter, Jerome M. Johnson, Jr., Jimmy L. Justice, David S. McNeil, Chester M. Moors, Jimmy L. Prater, Glenn E. Seefield and Dora B. Whitman.

**Hercules Project Office:** Kenneth W. Bahr, Mildred P. Freeman, William R. Fry and Lelan E. Perry.

**Sergeant Project Office:** Linda M. Butler. **Missile Intelligence:** C. E. Hagler.

### ZEUS PROJECT OFFICE

Stanley J. Brockway, Melvin H. Foster.

### ARMY MISSILE SUPPORT COMMAND

Dessaree J. Bennett, Edith S. Bennich, Gladys B. Brooks, Sue P. Camera, Joan W. Chandler, Tyllman R. Cox, Hilda G. Davis, Ethel G. Gist, Martha R. Glover, Charles A. Hawkins, Jr., Howard E. House, Georgia P. Little, Joe B. Miller, Evelyn B. Nash, Virginia L. Rains, Charles O. Rayburn, George D. Smith, Robert G. Stripling, Jr., Marvin A. Thomas, Mary F. Thomas, Betty S. Thompson, James W. Warren and Peggy Wooten.

### ORDNANCE GUIDED MISSILE SCHOOL

Alton L. Connell, John C. Manus, Betty Osborne, William H. Pate and John W. Talley.

## Huskinson Is Now Captain

William M. Huskinson, Jr., son of Mr. and Mrs. W. M. Huskinson of Wichita Falls, has been promoted to Captain at the Army Missile Command.

Capt. Huskinson is a Project Engineer on the Hawk Air Defense Missile System. He came to the Missile Command in July, 1961, from the 84th Artillery at Ft. Sill, Okla.

He is a research and development coordinator for the Hawk Project.

Capt. Huskinson is a graduate of Wichita Falls Senior High School and Texas A&M College with a degree in Industrial Technology.

## INSTITUTE ASKS MEMBERS FOR NEW HOME ADDRESSES

Members of the former American Rocket Society and the Institute of Aerospace Sciences who have moved to Huntsville during the past year and who have not received any communications from the Huntsville Section of the new American Institute of Aeronautics and Astronautics should con-

## Handling Engineers Will Meet Monday

The Rocket City Chapter of the Society of Packaging and Handling Engineers will meet in Huntsville, Monday, Oct. 7th at the Plantation Restaurant at 6:00 p.m.

This newly formed group of Packaging Engineers will meet to discuss packaging problems from every phase of both industry and Government, and with experts from both sides to offer solutions.

Robert Roelke, specialist in film sales, will address the group.

Mr. George D. Switzer, MSFC, president of the newly formed

tact the local section at once.

In many cases the ARS and IAS did not notify the Huntsville section of all changes of address for members moving into the area. Please call one of the following numbers to insure that the Huntsville section knows where you are: 881-2021; 881-2141; 876-7611; or 536-1614.

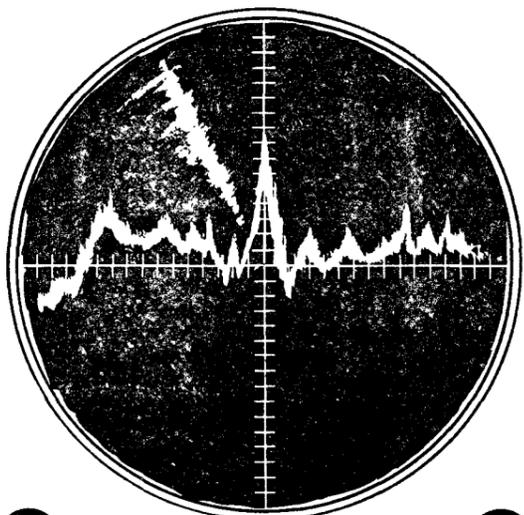
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| \$500        |                       | \$24.73   | \$46.81   |
| 700          |                       | 34.30     | 64.92     |
| 1000         | \$40.05               | 48.76     | 92.30     |
| 1500         | 59.80                 | 72.80     | 137.80    |
| 2000         | 78.96                 | 96.13     | 181.96    |

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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## 1. For Rent

**LARGE SLEEPING ROOM** for 1 or 2 with twin beds, air conditioned, electric heat, plenty of closet space, reading area, private bath, private entrance, off street parking, 207 Walker Ave., phone 536-9171 or 539-9197. tfc

**FURNISHED** — 2 room apartment, including lights, water and telephone. 601 N.E. Holmes Ave., Phone 534-5763. tfc

**FOR RENT** — 3 room furnished apartment, private front and back entrance, air conditioned, natural gas heat, bath tub and shower, off-street parking, married couple only, \$75.00 per mo., 419 East Clinton St., phone 534-4551 or 534-5127. tfc

**FURNISHED BRICK APTS.** — 1 or 2 bedrooms, ideally located for employees using Patton Road entrance to Redstone Arsenal. Call 536-0775. tfc

**ROOMS FOR RENT**—Single and double for men with good habits, completely and newly decorated, economically priced. Central Y.M.C.A. Dial 534-6452. tfc

## 2. Cars For Sale

1963 CHEVY II WAGON, manual transmission, positraction, tutone, wheel covers, tinted glass, seatbelts, heavy duty battery, clutch, alternator, suspension, radiator, padded dash, comfort convenience group, antifreeze; four ply nylon tires YOST, 876-3431, 536-8313. ttp

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**CASH! FOR YOUR CAR**—We need all makes and models. We will pay you more. We buy and sell imports, too. TEXAS AUTO SALES, Phone 536-6121. ttc

## 3. Miscellaneous

**SECOND CAREER FOR RETIRED MILITARY**—Or active duty military planning retirement. To represent 96 year old national concern in Huntsville area. Complete training program. Applicant must have management potential and 5 figure income objective. Up to \$500 per month training allowance plus commissions to qualified representative. Non military with sales, teaching or exclusive background also eligible. Replies in strict confidence must include age, education, past experience and marital status. Write Frank Williams, 1010 Frank Nelson Building, Birmingham 3, Alabama. 10-9c

**MODERN HEALTH CLUB SERVICES**—Central Y.M.C.A., 203 South Greene St. is offering massages, turkish baths, electric heat, cabinets, ultra-violet and infra-red lamps, diathermy sun lamp, swimming pool. Graduate masseur in charge. Phone 534-2444. ttc

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**FOR SALE**—1-5 year old mare pony in foal, buggy and harness, \$150.00. See on Lee Otis Wallace farm after 6 p.m., Taft, Tenn., Rt. No 1 on Unity Road, just off Fayetteville and Ardmore highway near Scott's apple orchard. ttp

CALL 772-6270 and just let me give you a bid on a guaranteed yard fence. Chain link, wood or steel picket. ttc

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**BARGAIN SHOE CENTER**—New shipments every other week, first quality, low prices. Come see! Located 4 miles west of Arab, on Highway 69 at Standard Service Station, Joppa, Ala. 'Open Sunday. ttc

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## 5. Houses, Lots - Sale

**GUNTERSVILLE LAKE** 100' Water front lot \$1250.00, inside lots \$500.00, only \$100.00 down \$20.00 mo. Ty Dorman Gunter's ville 582-3654 or Huntsville 876-3297 ttc

**LOST**—Billfold in vicinity of Field Main Div on Sept. 27. Contains important papers, currency. Reward. Leo Fanning, 877-3928. ttc

**3-BEDROOM HOUSE FOR SALE**—Brick veneer, built-in kitchen, living room, dining room, 2 ceramic baths, lot 107'x142', 100% VA loan to eligible veteran. Will sell F.H.A. See or call Jesse Black, Arab, Ala., Phone 586-4515. ttc

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**22 ACRES**, choice retirement property, tract located in a thickly settled community, 20 miles south of Huntsville on black-top highway. Area is a highly developed agricultural section. Has 6 room dwelling, 3 bedrooms, bath, fine well, good barn, won't last long. \$8,000.00 E. G. WILLIAMSON, R. E. Broker, phone 734-6294, Cullman, Alabama. ttc

**FOR SALE BY OWNER**—(In Lakewood) Trilevel, 3 bedroom, 2 bath, U.S. Steel home. Buy small equity \$1500.00 or best offer, and assume balance of loan. Phone 539-8551 or 832-2063. See at 2202 Phillips Road, N.W. ttc

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# Fire Prevention To Be Stressed Here

Fire Prevention will be emphasized throughout the arsenal next week in recognition of Fire Prevention Week, Oct. 6-12, as proclaimed by the President of the United States.

In announcing the arsenal's local anti-fire program, Col. Thomas W. Cooke, Commander, Army Missile Support Command, pointed out the need of a continuing effort throughout the year.

"Fire Prevention Week efforts serve to brush us up for the more hazardous winter months," he said, "but reduction of fire loss and injury is based upon a year-long attention to prevention.

Accomplishments reflected in FY 63 statistics as compared to the previous year are excellent,"

said Col. Cooke, "I am confident that military and civilian employees will continue their present awareness of the problem, and we will see further reduction of these destructive losses in FY-64."

Fire loss in FY-63 was about one-fifth that of FY-62. Army and non-Army fire loss in FY-62 was approximately \$103,883 as compared to \$23,414 in FY-63.

Also, frequency of fires dropped from 187 in FY-62 to 112 in FY-63. No fatalities have resulted from fire since 1950.

Mr. William H. Klieber, Arsenal Fire Marshal, outlined the Fire Prevention Week program. It will include displays of fire protection materials and equipment, fire inspections, special inventories of

protection equipment for adequacy and operability, checking and eliminating potential fire hazards, testing alarms, and fire and evacuation drills.

Klieber stated that 30 percent of last year's fires on the arsenal had an origin in smoking and matches. An additional 15 percent resulted from flammable liquids and heating and electrical equipment.

"Our program," said Klieber, "is tailored to bring attention to preventive measures in these special areas."

## Exchange, Food Chiefs Meet Here

Exchange officers and food executives from Army and Air Force bases throughout the Southeast are holding a three day Food Symposium this week in Huntsville and at Redstone Arsenal.

This is the first time that the Redstone Arsenal Exchange has played host for the group. Col. Richard White, Chief of Southern Service Centers, is directing the conference that starts Tuesday and runs through Thursday. George Geiger, a Post Exchange Program Specialist, is representing the Army Materiel Command.

First and third day meetings will be held in Huntsville. On Wednesday the visitors will meet at Redstone Arsenal where Col. Thomas W. Cooke, Commander of the Army Missile Support Command, will welcome them. They will tour various Exchange facilities on the Arsenal with Claude Adams, Redstone Arsenal Exchange General Manager.

\*\*\*\*\*  
**Movie Schedule**  
 \*\*\*\*\*  
 WEDNESDAY, October 2  
 "In the French Style." (M)  
 THURSDAY - FRIDAY, Oct. 3-4  
 "55 Days at Peking" (F)  
 First performance 5:45 p.m.  
 INCREASED ADMISSION: Adults 40c  
 SATURDAY, October 5  
 "Thunder Island" (F)  
 SUNDAY-MONDAY, October 6-7  
 "Call Me Bwana" (F)  
 TUESDAY, October 8

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| <p><b>1957 Buick</b><br/>                 4-dr. hardtop, Tennessee one owner, seat belts, etc. No money down.<br/> <b>\$895.</b></p>                             | <p><b>1955 Buick</b><br/>                 2-dr. H.T. One of the nicest used cars in town. No money down.<br/> <b>\$595.</b></p>                     |
| <p><b>1962 Chevrolet</b><br/>                 Bel Air 4-dr. White. Has new white tires, radio, heater, auto., trans. Local owner.<br/> <b>\$2095.</b></p>        | <p>INSURANCE MEN . . . IDEAL CAR FOR YOUR "DEBIT" . . . 4-dr 1960 PLYMOUTH. Standard shift, 6 cylinder, 30,000 actual miles.<br/> <b>\$995.</b></p> |

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### LOCAL BUSINESS RECEIVES AWARD

A \$297,429 contract was awarded by the U. S. Army Friday to Brown Engineering Co. of Huntsville, Ala.

The contract, which is for a one year period, will cover engineering services for the Nike Zeus Project Office at Redstone Arsenal. Award of the contract was through the Procurement and Contracting Division of the Army Missile Support Command.

Col. I. O. Drewery, Nike Zeus Project Manager, and his staff direct both the Nike Zeus and Nike X programs for the Army Materiel Command.

### Births At Post Hospital

Kevin Michael McCarey, 6 lbs. 12½ ozs., Sept. 18, son of 1/Lt. and Mrs. Thomas J. McCarey.  
Janet Lee Shinkle, 4 lbs., 7 oz., Sept. 19, daughter of 2/Lt. and Mrs. John E. Shinkle.  
Kimberley Jane Phipps, 6 lbs., 15¼ ozs., Sept. 19, daughter of

### Maj. Gen. Engler Is Now AMC Deputy

Major General Jean Evans Engler, former Commanding General, U. S. Army Japan, recently be-

came the second Deputy Commanding General in Army Materiel Command history, succeeding Lt. General Ely.

General Ely is now Deputy Director for Defense Research and Engineering.

General Engler had been Commanding General, U. S. Army Japan, from May 1961 to August 1963. Previously he had been Deputy Chief of Staff for Logistics, Continental Army Command.

The new Deputy Commanding General has a long association with Ordnance and many of the now-AMC organizations.



TOP MANAGEMENT—Thiokol President J. W. Crosby (center) and J. W. Wiggins (right) Vice President and General Manager of Thiokol's Alpha Division discuss organization of the new Huntsville Plant Thiokol Management Club with its President, T. M. Day.

### Thiokol Management Men Form Club

Thiokol Chemical Corporation President J. W. Crosby last week addressed the Thiokol Management Club at its initial membership meeting held at the American Legion Post 37. The Thiokol Management Club is an organization of professional people employed at the Corporation's Huntsville Plant.

Approximately 300 of the Club's members met for dinner and a business meeting highlighted by Crosby's talk. In his remarks to the management group, Crosby reminded them of the importance of the human approach in management, emphasizing the dignity of each employee. He also dealt with the other criteria important to good management practice. In closing, Crosby reminded the group that despite the growing number and complexity of modern computers, the ultimate decision is always left in the hands of management personnel.

The Management Club was formed by employees of Thiokol's Alpha Division-Huntsville Plant to help develop a professional spirit and understanding of management as a profession, and to provide an opportunity to develop leadership and managerial skills through practice. Although not company sponsored, the club will work in close association with the company's management. The club plans ten meetings a year, and will feature recognized speakers from the various fields of management.

Although not as yet officially incorporated, the club should be in the very near future, and will be associated with the National Management Association.

### Standardization Meeting Headed By F. L. Kueht

Francis L. Kueht of the U. S. Army Missile Command served as chairman last week of the semi-annual Army Standardization Meeting in Washington, D. C. Kueht is in the DOD & International Standardization Office of the Command's Directorate of Procurement and Production.

Also attending this Army-wide meeting from Redstone were Gray D. Lambert, Chief of the DOD & International Standardization Office, and Mrs. Elsielen B. Livingston who served as secretary for the two-day session.

Purpose of these meetings is to establish policies which will achieve the highest practicable degree of standardization of items and practices throughout the Department of Defense. The meetings bring together the chiefs of standardization management offices from all commands in the Army.

In the October issue of ARMY Magazine, Maj. Gen. Ralph E. Haines, Jr., claims the Army has the most strategical weapons in the world—the SAM 63 or simply the Soldier, American, Model 1963.



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