



**COMMAND WINS SAFETY AWARD**—Maj. Gen. J. E. Engler (right) Deputy Commanding General of the Army Materiel Command, and Brig. Gen. John G. Zierdt, Commanding General, Army Missile Command, hold the Award of Merit for Safety presented to the latter command. The citation made by Lt. Gen. Frank S. Besson, AMC Commanding General, is for superior achievement in the prevention of accidents.

## AMC Deputy Commanding General Visits Redstone

Two days of intensive briefing on the Army Missile Command ended yesterday for Maj. Gen. J. E. Engler, Deputy Commanding General, U. S. Army Materiel Command.

Gen. Engler's visit to Redstone Arsenal, his first since assuming his new post, covered the broad field of missile activities and of manpower at the Missile Command, Brig. Gen. John G. Zierdt, Commanding General of the Missile Command, outlined the missions and responsibilities of his command for the visitor.

Among the first activities of Gen. Engler's visit was a presentation of the Materiel Command Award of Merit for Safety to the Missile Command.

This citation was made "for superior achievement in the prevention of accidents by the establishment and maintenance of a

comprehensive and effective safety program" at Redstone during fiscal year 1963. Gen Engler made the presentation to Gen. Zierdt on behalf of Lt. Gen. Frank S. Besson, Jr., Commanding General of AMC.

He said that it indicated a saving in personnel injuries, government money and time which were devoted to management of systems. He said that this is one of the measurements of good management within the Missile Command.

Gen. Zierdt told Gen. Engler that he accepted the award on behalf of all personnel of this command, and he said he expected a continuance of a good safety program here.

Following this, Gen. Engler viewed a display of the Army's missiles outside of the Missile (See GEN. ENGLER on Page 3)

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## The Redstone Rocket

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VOL. XII; NO. 24

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

October 23, 1963

# Engineering Mockup Of Lance Missile Unveiled



COL. FOSTER L. FURPHY

## Col. Furphy Will Retire October 31

Col. Foster L. Furphy, who has been Chief of Staff at the Army Missile Command for the past three years, will retire from active duty Oct. 31.

His retirement will mark the end of a 34-year tour of military service. He has been stationed at the Army's missile center at Redstone Arsenal for the past four years.

"Col. Furphy's retirement will be a great loss to the Missile Command." (See COL. FURPHY on Page 3)



COL. HENRY J. KATZ



**ARMY LANCE**—The U. S. Army released first photos Monday of an engineering mock-up of its new Lance surface to surface missile. The mock-up of the missile went on public display in Washington at the annual convention of the Association of the United States Army. Capable of transport on a self propelled launcher, shown here, the Lance is also designed for helicopter transport or parachute drop. Now in early development, the missile is designed to provide nuclear and non nuclear fire support for Army divisions. A production decision for Lance is being withheld pending demonstration of predicted performance during the course of the development program.

## Col. H. J. Katz Succeeds Col. Furphy

Col. Henry J. Katz has been named Chief of Staff of the Army Missile Command to succeed Col. Foster L. Furphy who is retiring Oct. 31.

Col. Katz assumed his new position Monday. He has been Deputy Chief of Staff since Sept. 1, 1962.

The Colonel came to Redstone in August, 1961, as Deputy Commander of the Army Missile Support Command. He had been Commander of the Army Missile Support Command. (See COL. KATZ on Page 3)

## Members Of AUSA View Launcher

A full size engineering mock-up of the Army's new Lance ballistic missile system, now under development, was displayed for the first time Monday at the annual meeting of the Association of the United States Army in Washington, D. C.

The Lance surface to surface missile system is designed to provide greater fire support to Army divisions. A production decision for the missile is being withheld pending demonstrations of its predicted performance during the course of the development program.

Two major components of the missile system being shown are the engineering mock-up of the missile itself, and its Self-Propelled Launcher, an M-113-A1 tracked vehicle with a modified hull.

Also on display is the missile's Light Weight Launcher, which rides inside the Self-Propelled Launcher in the ground mobile mode of missile transportation. In airborne operations, the Light Weight Launcher and the missile can be carried into the battle zone by Army helicopter. The missile

(See LANCE on Page 3)

## Welfare Council Offers 4-Point Civilian Program

A four-point program for civilian employees at the Army Missile Command has been announced by the Civilian Welfare Council.

First of the projects got underway the past week with influenza inoculations. Abner C. McNaron, Council Chairman, said the shots would be given through Oct. 28 and that employees of Marshall Space Flight Center have been offered the inoculations, even (See CIVILIAN on Page 3)

### SABIN INOCULATIONS

The Madison County Board of Health announced that Sabin polio inoculations may be obtained at the Board of Health office, 304 Eustis Ave., Southeast today between 1 and 4 p.m.

# 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 876-4161.

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## Rocket Ruminations

Like our shadows, our wishes lengthen as our sun declines.

—Edward Young

## Support Your UGF

With the United Givers Fund Drive half over, probably many wonder where in Madison County their dimes and dollars go.

Thirty separate agencies or organizations are supported by these annual contributions and include groups catering to underprivileged children: the Grace Center Day Nursery, the Council Day Nursery, Christmas Charities and the Harris Home for Children.

A slice of the UGF dollar goes for the P.-T.A. Milk Fund, another to the Salvation Army and to the United Jewish Appeal.

Travelers Aid and the Salvation Army share a slice of the dollar.

The Family Counseling Service, Mental Health, Crippled Children and Aid for Retarded Children are included in UGF as are the American Hearing Society and the American Social Health Association.

Both of Huntsville's Y.M.C.A.'s are included on the UGF roster along with the Boys' Club, the Boy Scouts and the Girl Scouts.

UGF helps support the Church Street Community Center, the U.S.O., the National Recreation Association, the Madison County Council Community Organizations, the National Social Welfare Assembly, Child Welfare League of America and the National Council on Crime and Delinquency.

Also supported through UGF is the Council on Social Work Education and the International Social Service.

In addition, the military personnel at the Arsenal support the Joint Activities Council through UGF contributions—supporting such programs as Scouting, Teen-Age Sports and Special Projects programs.

Contributors have the privilege of sharing their UGF dollars with the town or county in which they live by designating where and how much. More than 72 key workers in the 1963 drive have already reported 100 per cent Fair Share or better participation.

If you haven't been contacted, you have time to find the key man for your organization to make the 1963 UGF Drive as successful as those in the past.

## Canadian Speaks At Graduation

Soldiers of the missile age enjoy more respect from their civilian compatriots today than military men have been given in many centuries.

Maj. George O. Brown, Canadian Liaison Officer at Redstone Arsenal, made this statement to 85 graduates from three nations who received diplomas Friday from the U. S. Army Ordnance Guided Missile School.

He said the power, speed and complexity of today's missiles has brought about a changed civilian regard for the professional soldier.

"Civilians realize the missile age soldier must be well educated, well trained and continually practicing his trade, if our defense forces are to be strong and ready. Thus, for the first time in many of our countries, the peacetime soldier is treated as an equal by his civilian neighbors," Brown said.

The Canadian presented diplomas to students from Korea, The Netherlands and the United States at a ceremony in the Redstone Theater. Col. William J. Macpherson, commandant of the Missile School, presided.

Sgt. Robert Meijer of the Royal Netherlands Air Force and Sergeant First Class Jongsik Yang of the Korean Army won outstanding students awards from the Association of the U. S. Army. Special plaques were presented by John Hatch, president of the Tennessee Valley chapter of the Army organization. Meyer averaged 97.3 and Yang scored 96.4 in the Hawk mechanical course.

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## UGF 100 Per Cent Club Adds Two Organizations

Two organizations have been added to the 100 per cent club for the United Givers Fund campaign bringing to three the number of reporting agencies that have signed up all of their personnel as participants.

The new organizations reported this week are the Office of the Commanding General and the Lance Project Office. They join the Office of the Deputy Commanding General, Land Combat Systems, in the exclusive club.

Two more organizations indicated in their last reports that they hope to reach the 100 per cent figure soon with 98 per cent of their personnel enlisted. They are the Mauler Project Office and the Supply and Maintenance Directorate.

Actually the Office of the Commanding General had reached the 100 per cent rating early this month. However, previous reports erroneously included the office with the Chief of Staff and supporting staff offices.

The largest increase by an individual agency was reported by the Missile Intelligence Directorate which jumped from 41 to 73 per cent in over all participation. The Hawk Project Office was not far behind, going from 51 to 81 per cent.

Five more organizations are reported to be over the 90 per cent mark. These are, Hercules, 97; Procurement and Production, 95; Research and Development, 93; and the Zeus Project Office and the Ordnance Guided Missile School, each with 92 per cent.

One organization that has turned in an outstanding job during the drive is the Army Missile Support Command which includes 3700 military and civilian personnel, by far the largest single organization in the drive.

No less than 72 solicitors have reported 100 per cent Fair Share participation among the personnel assigned to them. This includes all 33 solicitors assigned to the Troop

|   | Per Cent         | Per Cent   |
|---|------------------|------------|
|   | Participation    | Fair Share |
| Office of the CG                                | 103              | 100        |
| Chief of Staff (inc. C & DP, and staff offices) | 83               | 56         |
| DCG, Air Defense                                | 82               | 45         |
| DCG, Land Combat                                | 102              | 100        |
| P&P   | 95               | 82         |
| S&M   | 98               | 89         |
| R&D   | 93               | 75         |
| Missile Intelligence                            | 73               | 13         |
| Hawk  | 81               | 45         |
| Hercules  | 97               | 80         |
| Lance   | 100              | 86         |
| Mauler  | 98               | 92         |
| Pershing  | 67               | 55         |
| Sergeant  | 79               | 52         |
| Zeus  | 92               | 87         |
| Shillelagh                                      | 84               | 70         |
| AMSC  | 81               | 53         |
| OGMS  | 92               | 67         |
| Area Engineers                                  | 35               | 19         |
| Thiokol   | 74               | 47         |
| Rohm & Haas                                     | 82               | 52         |
| <b>Tot. Amf. Pledged</b>                        | <b>\$186,292</b> |            |
| <b>Tot. Amt. Collected</b>                      | <b>\$107,278</b> |            |

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**COL. FURPHY**

(Continued From Page 1)

mand," said Brig. Gen. John G. Zierdt, Commanding General. The two Army officers have maintained a personal friendship as well as a close working relationship since they met as lieutenants in 1940.

"Col. Furphy takes with him a terrific amount of ability and experience in top-level management," Gen. Zierdt continued. "That experience and ability has been of inestimable value to the success of the Army's missile programs."

Col. Furphy will be succeeded as Chief of Staff at the Missile Command by Col. H. J. Katz, former Deputy Chief of Staff at the Missile Command.

Following his retirement from active duty, Col. Furphy will make his residence in Amarillo, Texas, where he has accepted a position with a major industrial concern.

Col. Furphy first came to the home of the Army's missiles and rockets in the summer of 1959. He was assigned to the position of Comptroller of the Army Ordnance Missile Command.

Two years later, Col. Furphy was named to the post of Chief of Staff for the Army Ordnance Missile Command, serving under Maj. Gen. August Schomburg and the late Maj. Gen. F. J. McMorrow.

Before being assigned to the Army Ordnance Missile Command, the New York City native was a member of the Office of the Chief of Ordnance at the Department of the Army in Washington, D. C.

In that position, Col. Furphy served for three years as Chief of the Management Operations Office in the Research and Development Division.

Col. Furphy began his military career in 1929 as a member of the National Guard.

In 1932, following a year of study at Rensselaer Polytechnic Institute, located at Troy, N. Y., the colonel entered the U. S. Military Academy at West Point, N.Y.

He received his Bachelor of Science degree in Engineering in 1936. He later was graduated from

**COL. KATZ**

(Continued From Page 1)

manding Officer of the Ordnance Industrial Center, which managed Ordnance procurement and depot maintenance for U. S. Forces in Europe.

Born in Piqua, Ohio, Col. Katz was graduated from Washington Court House High School in Washington Court House, Ohio. He was graduated from the U. S. Military Academy at West Point in June, 1936.

His assignments in the United States include a four year tour as instructor and assistant professor of mathematics at West Point, and duty at Rock Island Arsenal, Erie Ordnance Depot, the Ordnance Tank Automotive Center in Detroit, and in the Office, Chief of Ordnance in Washington.

He has also served as the Commanding Officer of the 59th Ordnance Group in Korea as well as at several installations in Europe.

Col. Katz is a member of the Association of Graduates of the United States Military Academy and the Association of the United States Army.

His hobbies include golf, tennis and flying.

He and Mrs. Katz have three children: William, 15, Marie, 13, and Katherine, 11.

Massachusetts Institute of Technology with his Master's Degree in Mechanical Engineering.

Prior to his assignment with the Ordnance Corps in 1939, Col. Furphy served with the Coast Artillery Corps.

The colonel's service career includes overseas tours of duty at Corregidor, in the Philippine Islands, New Caledonia, and at Kaiserslautern, Germany.

Among the awards he is entitled to wear are the Legion of Merit which he received in 1944 at New Caledonia, and the Army Commendation Ribbon, which he received in 1949 at Washington, D. C.

Col. and Mrs. Furphy have two children. They are Kent P., 19, and Annette C., 16.

**BLOODMOBILE VISITS**

The Red Cross Bloodmobile received 541 pints during the visit last Wednesday from employees of the U. S. Army Missile Command, the Zeus Project Office, the Army Ordnance Guided Missile School, the Marshall Space Flight Center, and contractors at Redstone Arsenal.

The 248th Ordnance Detachment, Ordnance Guided Missile School, had the highest percentage of participation among the troops, and Rohm and Haas Company the highest percentage of participation among the civilian units at Redstone Arsenal.

**GEN. ENGLER**

(Continued From Page 1)

Command headquarters building, and then started a two-day tour of the Arsenal that took him to work centers and laboratories in the Directorates and Project Offices.

Col. I. O. Drewry, Nike Zeus Project Manager, briefed the AMC Deputy Commanding General on the anti-missile missile program.

**CIVILIAN**

(Continued from Page 1)

though that installation is not a member of the Council.

During the first three days of the shots, more than 1500 persons received the vaccine. This indicates a response that will probably surpass last year's record of 4,000 shots.

Three other projects have been approved by Col. Thomas W. Cooke, Post Commander. These include a Civilian Welfare Social Club which will be located in a building to be made available on the Arsenal. Cost of renovations of this building will be borne by the Civilian Welfare Council.

A \$4,000 budgetary item has been established for a civilian picnic area—boat dock—driving range to be located in an area also to be made available by the Post Commander.

The fourth approved project is to support recreational, physical fitness and morale building programs. Included under this are purchase of sports equipment, trophies and recognition awards.

In addition to McNaron, the Civilian Welfare Council is composed of the following members: Atlas Chance, AMSC, Vice Chairman; Edith Gibbs, S&M Directorate, Recorder; Ned Bedsole, Zeus Project; J. O. Birch, Post Engineers; J. D. Monroe, OGMS; J. P. Huie, P&P Directorate; Lawton Hall, Directorate of R&D; Cleo Cason, member at large; and Raymond Reynolds, AMSC, custodian.

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**LANCE**

(Continued From Page 1)

and self propelled launcher can be carried on fixed wing aircraft and air dropped by parachute.

A second tracked vehicle, designated as the system's Transporter-Loader, is not being displayed at the Washington meeting. This entire missile system is self-contained and self-sustaining on the two tracked vehicles.

Lance will have a new simplified inertial guidance and control concept. It is a rugged, low-cost package conceived and developed in an Army Missile Command laboratory at Redstone Arsenal.

Program management for the weapon system's development is centered at the Missile Command. Col. W. W. Holmes is Lance Project Manager for the Army Materiel Command.

Lance is the first Army missile selected to use pre-packaged storable liquid propellants.

The Lance system is being developed to replace the Lacrosse, Honest John and possibly the Littlejohn missile systems. The highly mobile missile system would complement division tube artillery and would extend the division commander's capability for nuclear and non-nuclear supporting fire.

Ling-Temco-Vought's Michigan Division is the system prime contractor. Work on development of Lance is underway at the Michigan Ordnance Plant near Detroit.

The AUSA meeting, at which

the Lance is being displayed for the first time, is scheduled to conclude today. The AUSA is an organization composed of military personnel and civilians who share an interest in the Army.

Also attending the conference and viewing the display were representatives of private contractors who, under contract to the Army, produce modern weapons for the combat soldier.

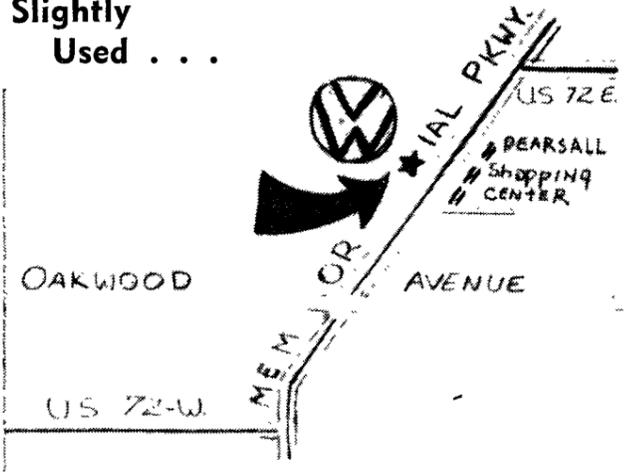
**Movie Schedule**

- WEDNESDAY, October 23  
"Zotz" (F)
- THURSDAY-FRIDAY, October 24-25  
"McLintock" (M-YP)
- INCREASED ADMISSION: Adults 40c
- SATURDAY, October 26  
"Mermaids of Tiburon" (F)
- SUNDAY-MONDAY, October 27-28  
Walt Disney's "Summer Magic" (F)
- TUESDAY-WEDNESDAY, October 29  
"Gidget Goes to Rome" (F)
- Two shows nightly at 6 and 8:30 p.m., Saturday Matinee at 1 p.m., and Sunday Matinee at 2 p.m.
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# MARS Communications Are Free World-Wide

MARS isn't a planet to the world net of radio operators. It spells Military Affiliates Radio System and covers the free world. The MARS station at Redstone Arsenal is one of the many responsibilities of Lt. Col. Earl D. Hicks, Assistant for Communications in the U. S. Army Missile Support Command.

Col. Hicks leaves the operation of the station in the capable hands of his non-commissioned officer in charge, Sgt. Charles Wilkes, who entered upon active duty from a Reserve status in

1955. Sgt. Wilkes and his wife, Elsie, have two daughters, Karen, 7, and Charlotte, 3. Their hometown is Athens, Ga., but at present they live at Redstone Park which adjoins Redstone Arsenal.

Sgt. Wilkes says the MARS station can furnish phone patches all over the world so that individuals are able to hook into the MARS network and talk by telephone. However, many countries, such as England, will not allow third party communication—only operator to operator hook-ups.

Recently, one wife of an Army captain made all her moving plans by talking to her husband via MARS before she joined him in Panama. She dialed the MARS station on a regular schedule and was connected by the MARS phone patch with her husband in Panama. Clothes, dishes, furniture and other household and personal items were thoroughly discussed before they became an item on the mover's manifest.

During the seven years of logging broadcasts, 150 points throughout the world have been in communication with the Redstone Arsenal MARS station. Sgt. Wilkes estimates that he has personally logged 100 places.

One country with which he can't communicate is Cambodia. It's against the country's regulations to talk on worldwide networks.

The international language for the MARS network is English with a side band in Pan America dropping off into Spanish.

Two other men are members of the around-the-clock MARS team: Sgt. Donald Jenkins and

SP4 James Henderson.

Men are required for night duty because of the time differential on the different points of a world map. It isn't so much a matter of talking today or tomorrow, but the difference between 10 a.m. at Nome, Alaska and 3 p.m. at Redstone Arsenal, five hours ahead. But if Alaska's stations schedule a phone patch for someone at 3 or 4 p.m., the operator here goes into off duty hours for most of the personnel at Redstone Arsenal. He mans his mike at 8 or 9 p.m.

Sometimes schedules are confused on the 100 or more phone patches the MARS men provide each week. Sgt. Wilkes offered the example of a data to talk with someone on Okinawa. It took two days after the slipped date to make the connection. Meantime, no one knew why it slipped. They just didn't connect at the agreed time.

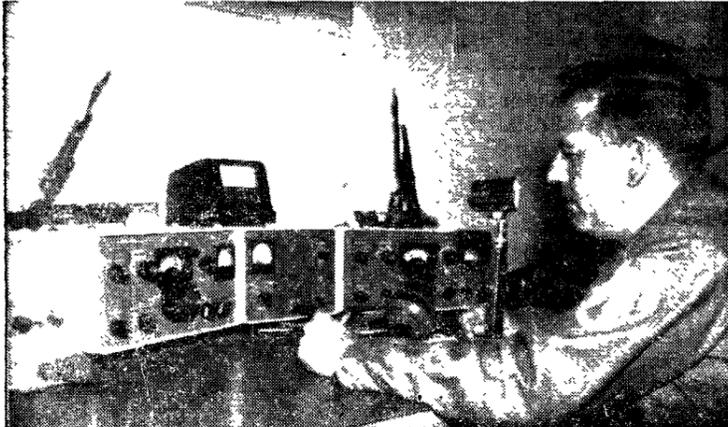
In addition to giving worldwide radio service, the MARS men have an emergency radio system to support Civil Defense during disasters such as floods. One man

operates the radio—and sometimes the phone at the same time. Usually, the emergency requires one man on each to talk with the civil and military police, to call for special equipment at a particular site, or to notify rescue teams and workers of where they are needed and why.

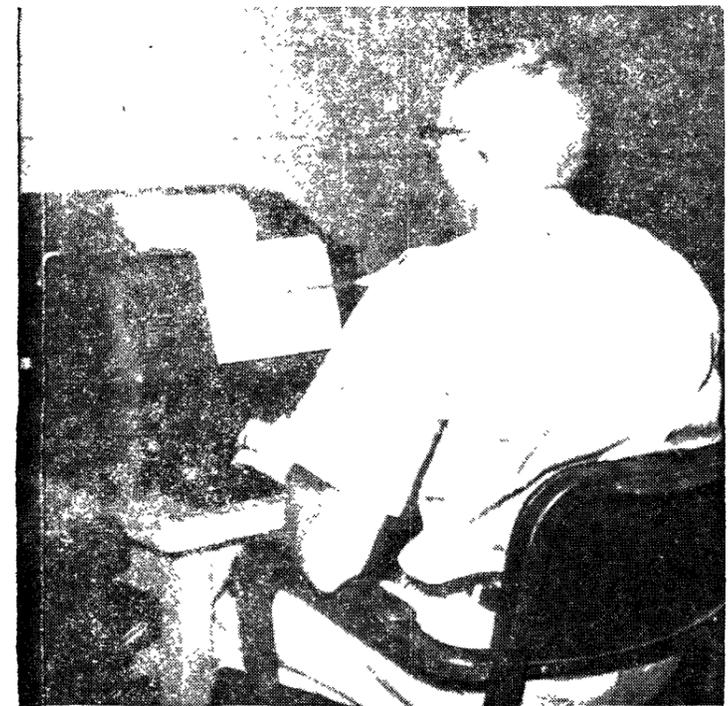
Third Army at Atlanta is contacted twice a day on a direct line teletype, or by voice. The equipment includes a Morse code bug which every member of the staff must be able to operate. The schedules are fairly rigid, but can be interrupted in an emergency.

In addition to the military bands, the MARS men operate a direct line over a teletype hookup with the United Press International news service. Anything which affects the Army and its civilian employees is relayed to the Communications Center, the Information Officer at the Army Missile Command and other key personnel who need to know.

The MARS men are enthusiastic about talking around the world.



**TALKS ACROSS WORLD**—Sgt. Charles Wilkes, noncommissioned officer in charge of the MARS station at Redstone Arsenal, talks on the radio. The network schedules approximately 100 phone patches a week for military men and their dependents to communicate at every point in the free world where men are stationed. Many communications remain between operators.



**SENDS TELETYPE**—SFC Orval Ogden sends a teletype over the MARS station equipment. He is not a regular member of the staff but is connected with the television branch of the Assistant for Communications in the Army Missile Support Command. MARS and the TV Branch are housed in the same building.



**PATCH TO HUNTSVILLE**—Charlene Taylor talks to an electronics equipment dealer in Huntsville. He went on the air to test his equipment. She manned the telephone to demonstrate the way a phone patch works on the MARS network and Sgt. Donald Jenks operates the radio hookup.

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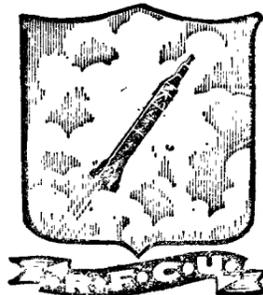
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Redstone Arsenal, Alabama



**EMERGENCY SURVIVAL SUPPLIES**—Capt. Roy A. Merrill, Jr., Deputy Chief of Consolidated Supply at the Army Missile Support Command, looks over Civil Defense emergency survival supplies being placed in fallout shelters at Redstone Arsenal. At right is Thomas LaBorde, storage officer at Consolidated Supply. Provisions valued at \$30,000 are being furnished cost-free to Civil Defense elements at Redstone to outfit more than 200 fallout shelters.



**SEE COMPUTERS**—A group of officials from the three services—and the Department of Defense—look over Army Missile Support Command's Computation Center. The visitors were the Defense Contractors Planning Report Implementation Task Group. Shown here discussing tape facilities are: left to right, V. V. Robertson, Management and Plans Office of the Directorate of Procurement and Production; Paul Pace, Chief, Operations Section of the Center; Lt. Col. S. E. Sheffield, Headquarters, Air Force Systems Command; Israel Rubin, Office, Secretary of Defense; and Jack Mitchell, Stanford Research Institute.

# Fallout Shelters Stocked With Emergency Supplies

## Rations Enough To Last Two Weeks

More than 200 fallout shelters at Redstone Arsenal are being stocked with Civil Defense emergency survival supplies, officials of the Army Missile Support Command said here last week.

The specially-packaged provisions, valued at \$30,000, are being furnished cost-free to Civil Defense elements at Redstone through the National Fallout Shelter Program of the Office of Civil Defense.

Most of the shelters are partially underground. They were originally constructed as ammunition storage facilities during World War II, and have undergone extensive testing by volunteer personnel at the 40,000 acre missile and space installation.

Provisioning of the shelters is being conducted by the AMSC Plans and Training Division under the direction of Col. Robert M. Allgeier, Assistant for Intelligence, Operations and Security. Col. Thomas W. Cooke is AMSC Commander.

The 214 shelters to be outfitted can be occupied by a total of 14,023 persons, Col. Allgeier said. In addition to the underground facilities, several buildings have been selected as shelters.

The normal length of occupancy in the event of nuclear fallout would be about two weeks, officials have estimated.

The rations are being furnished to the facilities at Redstone

through a Civil Defense program which provides for the provisioning of public shelters.

Supplies furnished include one quart of water for each person per day. The containers are designed to hold water indefinitely.

Food rations are based on a 900 calorie diet per person each day. Food supplies consist of wafers, resembling dog biscuits. Enough wafers are supplied to sustain 60 persons in a shelter for a two-week period.

The suitability of the underground bunkers, called "igloos" by Civil Defense personnel at Redstone, was proved last summer during the largest mobilization exercise ever conducted in North Alabama.

The exercise, known as "Exercise Chez-Pup," pronounced "shape-up," saw Redstone Arsenal evacuated by more than 20,000 persons employed here.

During the mobilization maneuver, the fallout shelters were tested by volunteer family units, and soldiers under simulated emergency conditions.

The objectives of the shelter-stay were to test ventilation, humidity, temperature, radiation protection factors, sanitation, sound levels, psychological aspects of close confinement and vermin control.

Following the mobilization exercise, Col. Allgeier said the shelter stay tests proved that the igloos, though uncomfortable, meet the minimum requirements

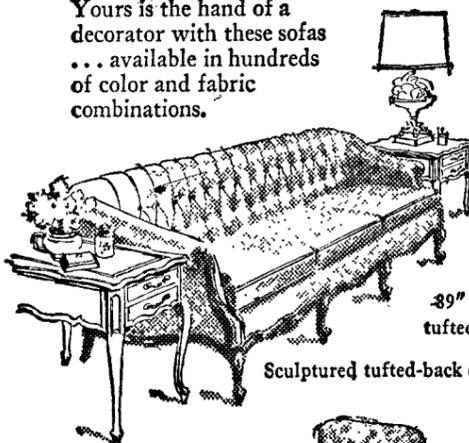
for occupancy as public fallout shelters.

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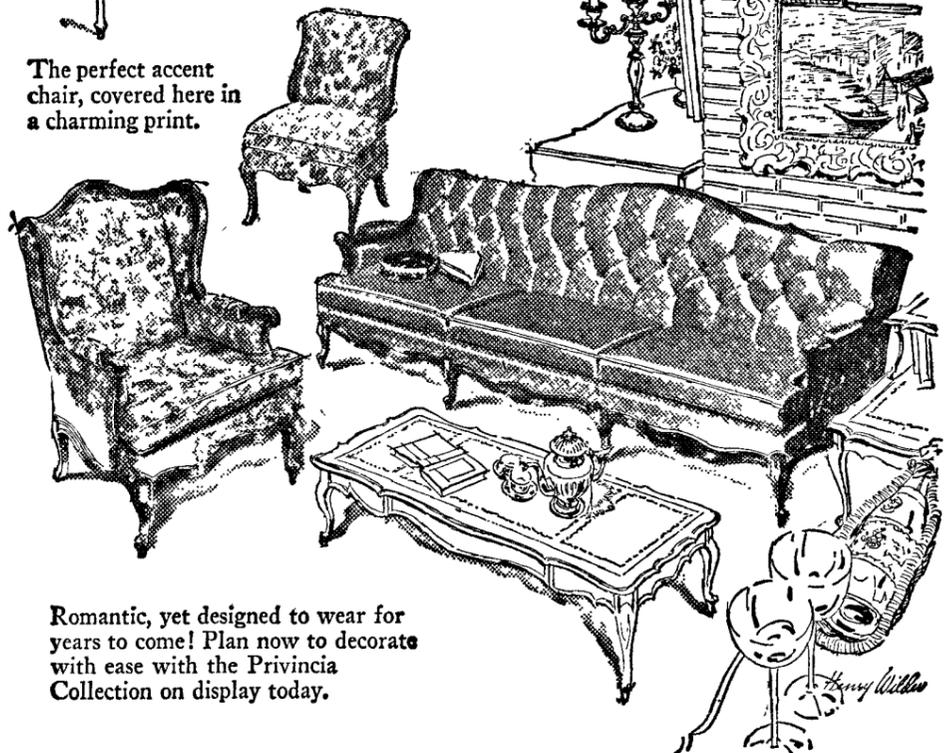
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# First Field Trial Set At Redstone

The first bird dog field trial ever held on Redstone Arsenal is set for this weekend. The four-stake events will start at 8 a.m. on both Saturday and Sunday with the Tennessee Valley Field Trial Club as hosts.

The area where the dogs will run is near the northwest boundary of the arsenal. Entrance to the grounds will be the Anderson Rd. Gate on Highway 20.

All bird dog fans are invited to attend.

There will be puppy, derby, shooting dog and all-age stakes. All dogs will have amateur handlers. Approximately 50 entries are expected from Alabama, Tennessee and Georgia.

Trophies will be awarded for the first three places in each stake.

Drawings to determine bracing

in the stakes will be held at 8 p.m. Friday night at Webb's Barbecue in Greenbrier, Ala.

Judges will be Pete Day and one of his associates from Clarksville, Tenn.

A few horses will be available on a loan basis. However, the gallery can easily view the dogs in action from a nearby slope overlooking the 15-acre bird field.

## Gridders Start Race All Over

The three entrants in the Redstone football league wound up play in the first round of their schedule last week in a deadlock, each with a win and loss on their slate.

The A & B Company Packers pulled even with the Crusaders and the Hornets last Wednesday when they scored two first half touchdowns and then held the Crusaders to a single six-pointer for a 14-6 win. The Hornets were idle during the week.

Midway in the opening period Ed Kasubaski took a handoff and raced 38 yards around end to the Crusader two yard line from where Dewey Tribblett cracked over guard for the opening score.

The winners got another drive underway late in the second quarter from their own 47. After hitting for short yardage on the first play, Floyd Davis hit his halfback Al Elliott with a flat pass on the 37 and the latter galloped down the sideline and into the end zone. The Packers went for a 2-point conversion with a fake kick and John Brewer tossed to Roger Babbisti for a 14-0 halftime lead.

The second half developed a defensive struggle with both lines throwing back one play after another. Late in the third period Dick Owens took a pitchout from the Crusader quarterback, Joe Crespo, and raced around end and outran the secondary in a play that covered 47 yards.

The defensive lines regained control of the action after the run and neither team was able to mount a serious threat the remainder of the game.

Salaried executives have replaced self-employed businessmen as the largest group within the top income groups.

## NATO Teams Sweep Soccer Field Clean

Three NATO soccer teams snatched victories over the weekend in games played at Redstone's Linton field.

In the first game Saturday the Belgian Army squad jumped to an early lead over the Squadron Officers School of Montgomery and won six to one.

The second game between the combined German Army and Air Force team, and Auburn University was a virtual stalemate throughout the first half, after which time the German squad stalled Auburn while scoring four goals of their own. The final score, Germans six, Auburn two.

In the lone game on Sunday, the French Army rolled past St. Bernard College seven to two.

## Scoreboard

### SATURN BOOSTER LEAGUE "A" DIVISION

| Team                     | Won | Lost |
|--------------------------|-----|------|
| Black Forest Lounge      | 23  | 5    |
| Lockheed (RIFT)          | 18  | 10   |
| Republic Aviation Corp.  | 15  | 13   |
| Hall's "66" Serv. Sta.   | 15  | 13   |
| Spaco                    | 15  | 13   |
| Hilding Holmberg         | 15  | 13   |
| Martin Co., Mfg. Div.    | 14  | 14   |
| C. W. Stewart Machinery  | 13  | 15   |
| Hayes Top Seven          | 12  | 16   |
| Brunson Instruments      | 11  | 17   |
| Garrett Airesearch Corp. | 9   | 19   |
| Hayes Ex-Cons            | 8   | 20   |

230 GAMES:  
Basurto, 200; Terry, 201; Straw-bridge, 201; Leigh, 201; Musgrove, 209; Looney, 212; Betts, 235  
Leigh, 4-6 Split.

### "B" DIVISION

| Team                        | Won | Lost |
|-----------------------------|-----|------|
| Arrowhead Products          | 21  | 7    |
| Redstone Fed.               |     |      |
| Credit Union                | 19  | 9    |
| Norris-Riddle Furn.         |     |      |
| Mart                        | 18  | 10   |
| Pin Palace Lanes            | 17  | 11   |
| All Sports Trophies         | 17  | 11   |
| Modern Machinery Assoc.     | 13  | 15   |
| RCA                         | 12  | 16   |
| Progressive Welders         | 11  | 17   |
| Redstone Mach. & Tool Corp. | 11  | 17   |
| Hayes Designers             | 11  | 17   |
| Reba's Bowling Apparel      | 10  | 18   |
| Terry Heights Cleaners      | 8   | 20   |

630 SERIES:  
E. Davis, 225, 222, 194—641  
200 GAMES:  
Francis, 203; Johnson, 204; Cizek, 207; Dolan, 210; Dupree, 219; Davis, 222, 225; Vickers, 237.

### ENLISTED MEN MIXED LEAGUE

| Team  | Won | Lost |
|-------|-----|------|
| Team  | Won | Lost |
| No. 4 | 20  | 4    |
| No. 8 | 13  | 11   |
| No. 2 | 13  | 11   |
| No. 1 | 12  | 12   |
| No. 5 | 11½ | 12½  |
| No. 6 | 9   | 15   |
| No. 3 | 9   | 15   |
| No. 7 | 8½  | 15½  |

HIGH TEAM 3 GAME:  
Team No. 8—2386 (HDCP)  
HIGH IND. 3 GAMES (MEN):  
G. Ryan—637 (SCRATCH)  
HIGH IND. 3 GAME (WOMEN):  
M. Louis—551 (SCRATCH)  
HIGH TEAM GAME:  
Team No. 1—830 (HDCP)  
HIGH IND. GAME (MEN):  
W. Homer—244 (SCRATCH)  
HIGH IND. GAME (WOMEN):  
B. McClure—257 (SCRATCH)

# Huskies Beat Bulldogs

Coming from behind with a pair of second half scores, the Huskies sent the Bulldogs down to their fourth straight loss in the 50-lb. division of the Redstone Little League last week to the tune of 20-13.

Trailing 13-6 at the intermission, the Huskies turned a recovered fumble into a touchdown early in the third period and then scored again midway in the final stanza.

The Bulldogs had scored twice in the space of a few minutes in the second quarter, once on a kickoff return following the opening Huskie score.

The winners got outstanding performances out of Handy, Mosley and Reinhard on the attack and by McIver, Grover and DeMichele of the defensive unit. Bemis, Benet and Campbell turned in fine showings for the Bulldogs.

### RSA OFFICERS LEAGUE

| Team          | Won | Lost |
|---------------|-----|------|
| Robbers       | 14  | 6    |
| Spoilers      | 13  | 7    |
| Mets          | 13  | 7    |
| Alleycats     | 11  | 9    |
| Bandits       | 11  | 9    |
| Medico No. 1  | 8   | 12   |
| Procure Mites | 5   | 15   |
| OGMS          | 5   | 15   |

HIGH TEAM 3 GAMES:  
Mets—2366 (HDCP)  
HIGH IND. 3 GAMES:  
D. Green—653 (HDCP)  
HIGH TEAM GAME:  
Bandits—1020 (HDCP)  
HIGH IND. GAME:  
Iber—248 (HDCP)

### SCHOOL TROOP COMMAND LEAGUE

| Team          | Won | Lost |
|---------------|-----|------|
| The Bisons    | 18  | 2    |
| UTC Raiders   | 14  | 6    |
| Co. "C" No. 1 | 13  | 7    |
| Pin Pickers   | 9   | 11   |
| Pop Tops      | 8   | 12   |
| Co. "C" No. 2 | 8   | 12   |
| HQ STC        | 5   | 15   |
| Five Aces     | 5   | 15   |

HIGH TEAM 3 GAMES:  
Bisons—2649 (HDCP)  
HIGH IND. 3 GAMES:  
Kasper—628 (HDCP)  
HIGH TEAM GAME:  
Bisons—1025 (HDCP)  
HIGH IND. GAME:  
Daspers—261 (HDCP)  
HIGH IND. AVERAGE:  
Kasper—176

### THURSDAY MORNING LADIES LEAGUE

| Team           | Won | Lost |
|----------------|-----|------|
| Splits         | 8½  | 3½   |
| Team No. 1     | 7   | 5    |
| U. N.          | 7   | 5    |
| Roaring Trio   | 6½  | 5½   |
| Old Timers     | 6   | 6    |
| Terrific Trio  | 5   | 7    |
| Youngsters     | 4   | 8    |
| Gutter Dusters | 4   | 8    |

HIGH TEAM GAMES:  
Roaring Trio—1833 (HDCP)  
HIGH IND. 3 GAMES:  
E. Taormina—669 (HDCP)  
HIGH TEAM GAME:  
Roaring Trio—656 (HDCP)  
HIGH IND. GAME:  
E. Taormina—266 (HDCP)

### AMERICAN BRITISH CANADIAN OFFICERS LEAGUE

| Team          | Won | Lost |
|---------------|-----|------|
| S-Wonners     | 26  | 6    |
| Black Jacks   | 24  | 8    |
| Lucky Strikes | 20  | 12   |
| Hopefuls      | 20  | 12   |
| Wheezers      | 18  | 14   |
| Pin Splitters | 14  | 18   |
| AF Juplos     | 6   | 26   |
| Maulers       | 0   | 32   |

HIGH IND. GAME:  
Verry—258 (SCRATCH)  
HIGH IND. SERIES:  
Thompson—549 (SCRATCH)

### RSA OFFICERS LEAGUE

| Team               | Won | Lost |
|--------------------|-----|------|
| No. 7—Who Cares    | 14  | 6    |
| No. 3—Merry Mrs.   | 13  | 7    |
| No. 4—Poor Excuses | 11  | 9    |
| No. 8—Crazy Eights | 9   | 11   |
| No. 6—Gamblers     | 9   | 11   |
| No. 2              | 9   | 11   |
| No. 1              | 8   | 12   |
| No. 5—Misfits      | 7   | 13   |

HIGH TEAM 3 GAMES:  
Team No. 1—2059 (HDCP)  
HIGH IND. 3 GAMES:  
Sandstrom—567 (HDCP)  
HIGH TEAM GAME:  
Team No. 8—790 (HDCP)

### OGMS OFFICERS

| Team               | Won | Lost |
|--------------------|-----|------|
| Rounders           | 10  | 6    |
| Bohunks            | 9   | 7    |
| Zeros              | 9   | 7    |
| Bowl Weevils       | 7   | 9    |
| Adm                | 7   | 9    |
| Missile Comp. Div. | 6   | 10   |

HIGH TEAM 3 GAMES:  
Bohunks—2666 (HDCP)  
HIGH IND. 3 GAMES:  
Webb—645 (HDCP)  
HIGH TEAM GAME:  
Zeros—951 (HDCP)

### RSA BOWLING LANES BANTAM LEAGUE

| Team  | Won | Lost |
|-------|-----|------|
| No. 2 | 7   | 2    |
| No. 5 | 7   | 2    |
| No. 3 | 6   | 3    |
| No. 8 | 5   | 4    |
| No. 7 | 5   | 4    |
| No. 4 | 3   | 6    |
| No. 6 | 2   | 7    |
| No. 1 | 1   | 8    |

HIGH IND. AVERAGE:  
T. Thompson—110 (SCRATCH)

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# Federal And Private Research Men Will Participate In Conference Here

Six outstanding scientists and engineers have been invited as speakers for the Ninth Conference on the Design of Experiments in Army Research, Development and Testing to be held this week at Redstone Arsenal. The Army Missile Command is host for the annual meeting which marks its first time to be held at this research and development center for the Army's missiles and rockets.

The speakers will represent federal establishments, private research institutes and universities throughout the United States. The conference will run from October 21 through October 25. The sessions will be at the Arsenal's Rocket Auditorium.

Sponsored by the Department of the Army's Mathematics Steering Committee, the three-day conference will be packed with general technical and clinical sessions which will bring together many



Hartley Duncan

Hopkins University.

The first session will start at 9 o'clock Wednesday with Col. Daniel F. Shepherd calling the meeting to order. He heads the Directorate of Research and Development of the Army Missile Command.

Brig. Gen. Howard P. Persons, Deputy Commanding General for Air Defense Systems of the Missile Command, will welcome the

conferees to Redstone Arsenal.

There will be four general sessions during the three days with other technical and clinical sessions to run concurrently from 8:30 a.m. until 5 p.m. each of the first two days.

A tour of Army Missile Command and Marshall Space Flight Center will be held for the visitors Friday afternoon.

Among those presenting papers and participating in panel discussions will be S. H. Lehnigk, L. W. Kesting, Dietrich E. Gudzent, John L. McDaniel and Henry Dihm, of the Missile Command; J. G. Gayle, E. L. Bombara, Werner R. Eulitz,

## HEALTH REPORT DUE SOON

The U. S. Surgeon General's Advisory Committee on Smoking and Health, composed of ten non-Federal scientists, is now in process of making a comprehensive review of all available data on smoking and health as well as on other factors such as air pollution which may also be involved. The Committee's report dealing with the nature and magnitude of health hazards is expected by the end of the year.

Ray Heathcock, Dale L. Burrows, and Lester Katz of MSFC.



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Main speaker will be the U. S. Army Materiel Command's Chief Scientist, Dr. Craig M. Crenshaw. He will speak following the banquet to be held Thursday night. A social period will precede the banquet.

During the course of the conference, papers will be presented on various aspects of research, development and testing. Panel discussions will be held on some of the presentations.

Led off by Dr. Crenshaw, the list of invited speakers includes Prof. Solomon Kullback, George Washington University; Dr. Frank Proschan, being Scientific Research Laboratories; Dr. Churchill Eisenhardt, National Bureau of Standards; Prof. H. O. Hartley, Agricultural



Prof. Kullback

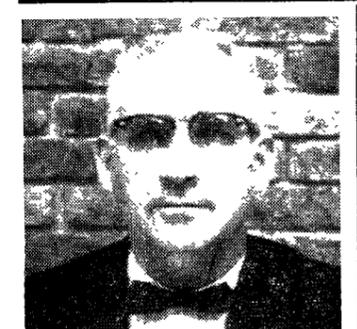


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## At The Service Club

By: Brenda Hanson

We get this week off to a brisk start with the weekly Dance Classes, taught every Tuesday night beginning at 7. Come and join the class.

Our Bridge activities have been somewhat in a rush for the past few weeks. The Bridge Class also have experienced some rough times lately with the fluctuating attendance. It takes practice and concentration for this game, but once you embark upon this diversion, you can never let it go. So come to the club every Wednesday night and give it a try.

Thursday? A Popcorn Popping Party will take over the Service Club Kitchen at 8 p.m. We invite you to join us for the party.

Friday the 25th is the designated date for another Pool Contest. This is the first Pool Contest since the Post Wide Tournament which was won by PFC Neals of Hq & Hq STC. Prizes will be given to the winner.

Then on Saturday night at 6:30, we have a Pot Luck Supper scheduled. After the supper will be a record hop. The dance will begin at 8 p.m. hours and continue through 11:30.

Sunday—coffee and donuts will be served from the kitchen at 9 a.m. Then, the event of the month is the production of "Bye, Bye Shorties" at 8 p.m. This is an unbeatable show of talent, music, and pretty girls. Art Kalin, Vincent Appecello, Monte Temple, and Kelvin Kean are only a few to be featured in the show. Mark this program as an outstanding event of the month and be sure to attend.

Monday, the 28th, is the date for Game Night. We have an alarm clock for a GRAND PRIZE plus other prizes.

See you at the Service Club.  
—Brenda



**FOUNDERS' DAY SPEAKER**—Hubert Shuptrine, training director for a visual communication company in Chattanooga was the principal speaker at the Huntsville Toastmistress Club Founders' Day banquet last week. Showing some of the slides that accompanied his talk to (left to right) Maj. Sperm Connolly, Mary Jane Hearn, and Nell Curtis, he explains the art of visual communication.

—the subject of his talk. The Toastmistresses included representatives from 20 Huntsville civic organizations and clubs among their guests. The table topics led by Mrs. Miles Hardenburgh gave both members of the club and guests a chance to air their reaction to a woman for President. International Toastmistress celebrated its Silver Jubilee this year.

### SCHEDULES OPEN HOUSE

The Rocket Kindergarten will hold an open house tomorrow at 7 p.m. for the parents of all children enrolled and others interested in the kindergarten program.

The meeting will be held at Bldg. 3173.

Capt. L. O. Cox, chairman of the kindergarten board, said there will be a general meeting of parents and a chance to see some of the children's projects.

### Births At Post Hospital

Felicia Yvett Battle, 6 lbs., 8 1/2 ozs., Oct. 6, daughter of Pfc and Mrs. Willie E. Battle.

Stacey Lynne Petree, 5 lbs., 7 1/2 ozs., Oct. 8, daughter of Capt and Mrs. Neal C. Petree.

Pamela Ann Fimowicz, 7 lbs., 6 1/4 ozs., Oct. 9 daughter of Pfc and Mrs. Stanley A. Fimowicz.

Patricia Anne Devot, 9 lbs., 9 3/4 ozs., Oct. 9 daughter of Pfc and Mrs. Andre J. Devot.

Mike Jean Stamporek, 8 lbs., 15 3/4 ozs., Oct. 11 son of Sfc and Mrs. Herbert H. Stamporek.

Dianna Lee Estabrook, 5 lbs., 4 1/2 ozs., Oct. 12 daughter of SSgt and Mrs. Thomas E. Estabrook.

Randy Dean Elliott, 7 lbs., 6 1/2 ozs., son of Pfc and Mrs. William N. Elliott.

Elizabeth Kay Binau, 8 lbs., 3 1/2 ozs., Oct. 14 daughter of 1/Lt and

Mrs. David K. Binau, 7 lbs., 3 1/2 ozs., Oct. 14 son of Sp/5 and Mrs. Craig Lynol Hobson, 7 lbs., 3 1/2 ozs., Oct. 14 son of Sp/5 and Mrs. Gregg L. Hobson.

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# Local Firms Receive Awards

Several hundred Army Missile Command orders varying from \$1.00 to more than \$100,000 went to merchants in the Southeast during September. These purchases are for items used to support the Army's missile and rocket programs at Redstone Arsenal.

The total amount spent was approximately \$900,000. The money paid was for goods as varied as pepper sauce for the troops and electronic equipment for research laboratories.

Huntsville firms received \$521,997. The next largest amount went to concerns in Birmingham, \$110,657. Merchants in other Alabama cities shared \$103,258 in orders and awards.

Purchases in Georgia and Tennessee totaled \$159,356.

A high per cent of these awards go to small business firms. The personnel of the Purchasing and Contracting Division and of the Procurement and Production Directorate at the Missile Command administer these orders.

This business does not include the contracts for one million dollars or more going to companies throughout the United States for procurement of missiles, rockets and related equipment.

## Sergeant Missile Units Going To Europe, Pacific

The Department of Defense announced Monday further increases in Army fire support capabilities in Europe and Pacific areas.

Under this program, additional Sergeant missile units are being stationed in Europe and the new 175 MM self-propelled gun is being deployed to both Europe and the Pacific. In addition, the Army is deploying an improved Honest John rocket system and larger numbers of nuclear warheads for the eight inch howitzer.

Deployment of these modern, improved weapons will permit inactivation of first generation Corporal and Lacrosse missile units and 280 MM gun battalion stationed overseas.

The program, which the U. S. has discussed with its allies, will produce an overall increase in

## Three Pershings Fired By Soldiers—All Successfully

The Army Missile Command-developed Pershing ballistic missile went further in verifying its remarkable reliability during the past week with three successful flights from Fort Wingate, N. M. The three rounds were fired by soldiers operating under near-tactical conditions. All three of the highly successful flights impacted in the sprawling White Sands Missile Range.

The continuation of the recent series of firings was carried out as part of the missile system's service test, which is designed to determine if the highly mobile missile system possesses the desired military characteristics when

used by soldiers in the field.

The development of the Pershing is under the management of the Pershing Project Office at the Army Missile Command. Col. Edwin I. Donley is Pershing Project Manager.

The successful completion of Army test and evaluation—such as the service tests at Fort Wingate—will mean an operational status for Pershing, and subsequent deployment overseas.

The firings were conducted by the Second Missile Battalion, 44th Artillery, from Fort Sill, Okla. Battalion commander is Lt. Col. Pat Powers.

### Post Library

NORMA E. SHORT  
Librarian

#### Non-Fiction

- Asimov, Isaac, "The Human Body; its Structure and Operation."
- Barrett, Raymond E., "Build-It-Yourself Science Laboratory."
- Borgeson, Lil, "Skin and Scuba Diver."
- Carroll, John M., "Careers and Opportunities in Electronics."
- De Camp, L. Sprague, "The Ancient Engineers."
- Hood, John Bell, "Advance and Retreat; Personal Experiences in the United States and Confederate States Armies."
- Jolliffe, Harold Richard, "Tales From the Greek Drama."
- Kinney, Jean, "How to Tell a Living Story with Home Slides."
- National Press Photographers, "Humor in News. Photography From the Historical Files of National Press Photographers Association."
- Schopenhauer, Arthur, "Works."
- Shakespeare, William, "The Tempest."
- Snyder, Louis Leo, "Master-

### Religious Services

RELIGIOUS SERVICES—POST CHAPEL—BLDG. 3714

#### PROTESTANT

SUNDAY — 1000 and 1115 hrs., General Protestant Services. (Chapel Nursery open during these Services.)

Church School — 1000 hrs. — ages 3 years to adult. Classes for children and young people, grades 1 through 12, meet in Chapel Annex, Bldg. 3151. All military and civilian personnel, and their families are welcome.

Sunday Evening Worship—1900

pieces of War Reporting; the Great Moments of World War II. Caidin, Martin, "Overture to Space."

Cassou, Jean, "Picasso." Clough, James, "The Marquis and the Chevalier."

Cross, James Eliot, "Conflict in the Shadows."

Feininger, Andreas, "Changing America; the Land as it Was and How Man has Changed it."

Jordanoff, Assen, "Flying and How to do it."

Marder, Louis, "His Exits and His Entrances; the story of Shakespeare's Reputation."

Pidoll, Carl Von, "Eroica." Rembrandt, Hermanszoon, "Rembrandt."

Stallings, Laurence, The Dough-boys."

Yerkow, Charles, "Modern Ju-do."

Beard, James Andrews, Hors D'Oeuvre and Canapes.

Biegeleisen, Jacob Israel, Careers and Opportunities in Commercial Art.

Clark, Dick, To Goof or Not to Goof.

Cuneo, Ernest, Science and History.

Gilkes, A. N., The Impact of the Dead Sea Scrolls.

Janson, Donald, The Far Right. Mikesell, Arthur M., The Popular Mechanics Home Book of Refinishing Furniture.

Nourse, Alan Edward, So You Want to Be a Physicist.

Pack, Joseph H., Let's Rejoin the Human Race.

Tully, Andrew, Berlin: Story of a Battle.

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**SOLDIER OF MONTH**—A program specialist in Training Management at the Army Ordnance Guided Missile School is Redstone Arsenal's top soldier this month. He is SP4 Charles Eberst, Hoosier from Indiana who attended Ball State Teachers College and the University of Notre Dame. He came to the Missile School in May of this year from Ft. Leonard Wood, Mo. The Huntsville-Madison County Chamber of Commerce is scheduled to entertain him this weekend.

hrs

#### CATHOLIC

SUNDAY — Masses — 0730, 0845, 1230, and 1700 hrs. (Chapel Nursery open during Masses.)

BAPTISMS — 1330 hrs., or by appointment.

TUESDAY — Perpetual Help Novena — 1930 hrs. Choir Practice — 2000 2100 hrs.

THURSDAY — Instructions — 1900 hrs. Confessions — 1800-1930 hrs. Mass — 1100 hrs.

DAILY MASS — 1100 hrs. (Monday through Saturday)

#### REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Worship Service. 1800 hrs. — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nur-

tery is open for both Services.)

#### JEWISH SERVICES

Conservative Jewish Services will be held each Friday at 8 p.m. at 2333 Poincianna Street, SW Huntsville. This is just behind the Scottish Rite Temple.

Reform Jewish Services are held at Temple B'Nai Sholom 2000 hrs, Friday, at the corner of Lincoln & Clinton Streets, SE Huntsville. Sunday School at 0930 Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.

For further information concerning these Services, contact Rabbi Stein, 536-4771.

#### CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

Wednesday services are held at 2000 hrs. at S. White and Wells

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# Kwajalein Engineers Take Exotic Vacation

KWAJALEIN ISLAND — The coconut and coral islands of the South Pacific have always seemed to weave the same sort of spell over the world's adventurers, as blond heiresses and Monte Carlo's tables.

From Stevenson to Michener, the reef-guarded specks of land have been the background for as many tales of romance and peril as the Last Chance Saloon and Mad Man's Gulch.

And even today the men who are developing the Army's new Nike X anti-missile system here still find a fascination in the old islands.

Day-by-day they clear land on the frontiers of science. The proverbial lazy lagoon around this two-mile long crescent of land reflects their activity — strange lights for these islands which have lolled for eons in the equatorial sun.

### Find Adventure

But when vacation time comes to many of the hand-picked men in the ranks of the Army, Navy and industry turn their backs on the giant, white helmeted radars, humming power plants and sky-piercing missiles that mark this major facility of the Pacific Missile Range and find adventure — the voyagers of old — among the islands.

And such is the story of six young missile engineers who sailed from Kwajalein on a 60-foot motor boat named Louisa. In six weeks they sailed 500 miles, weathered a tropical storm at sea, narrowly avoided a shipwreck on jagged reef, dived for killer sharks and were guests of the native chief at a village feast.

Travelling around Kwajalein at various points of the compass are other tropical islands; some are mere footholds for a dozen coconut trees, others the size of Manhattan with sizable tribes of friendly Micronesians.

### Past Is Told

The cultures and handicrafts of these islands are still windows into the ages past before wars, missionaries and trust territory representatives planted the seeds of modern civilization among the islands. Now there are schools and churches on many of the islands and some of the natives hold college degrees.

Until, a major form of commerce between many of the islands is the copra boat. Plying from beach to beach, it gathers the dried nuts of the coconut which is at the principal food and — when dried to dry in the tropical sun — a major source of income. The nuts are squeezed from the copra in hand-cranked presses, the oil is used in soaps, shampoos, foods and candies.

The wind-swept islands carry many names as Niibuku, Wotje, Ponape, Ponape and Rongerik. Many of them are paradises with ringing mountains, ringing walls, brilliant colored birds and exotic flowers.

### Engineers Shove Off

On board the Louisa when it left Kwajalein dock were engineers Bill Best, Dick Brooks, Bill Sanderson, Ken Sanderson, Leon Todd and Hank Todd. Sanderson, a missile guidance engineer,

organized the trip.

The eight man crew of the combination sailing and motor boat were all natives of the Marshall Islands, of which Kwajalein is a part. The captain carried the unlikely name of Felix DeBrum — an appellation that is a remnant of the late 1800's when Germany claimed the islands.

The holds of the Louisa were loaded with trading goods; cloth, tobacco, knives, fishhooks and — most popular of all — bubblegum.

The Pacific islands are nearly always guarded by hulking reefs that can spell doom for unwary ships that crash onto them. The jagged heads of coral, hidden a few feet under water at high tide, can rip the bottom from a steel ship. The Louisa was barely underway, beating north toward the island of Likiep 110 miles from Kwajalein, when a headstrong helmsman nearly brought it to an abrupt end on one of these barriers.

### Incident At Night

The incident occurred at night. Captain DeBrum had set a course that would bring the island into view at dawn when the tricky channel through the reef could be negotiated. But the Marshallese at the wheel put the ship on a different tack, seeking to save a few miles by steering a straighter course. It nearly proved to be a shortcut to doom. In the dark the Louisa almost piled onto the reef before the mistake was found and she was turned out of the treacherous waters.

Likiep still bore the imprint of one of those early settlers who came to live among the natives. To this small island in the midst of the Marshalls chain came a "Dr. DeBrum" before the 1800's. With him he brought an immense library of technical books and treatises. He also carried the instruments to practice medicine, dentistry and engineering.

DeBrum left the island two important legacies; a huge rambling plantation-type house with all his books and tools intact; and his name. Half of the islanders took his last name as their own. The islanders consider the house haunted and refuse to live in it.

### Barter Began

On Likiep Sanderson and the others laid out their trade goods and barter began. They swapped bubblegum and dollars for intricately carved model outrigger canoes; sea jewels such as the pink lined helmet shell, preserved coconut crabs, and the delicate Rose of Likiep.

Rose of Likiep is an exotic, leafy coral with rose-like petals. It is found only in the lagoon of this particular island. The coconut crab forages for his food in the tops of coconut trees. This foot-long, lobster-like sea dweller clips the nuts and lets them fall to the ground where he crushes the shell with his powerful front claws to get to the tender meat inside.

After a long night of struggling through squalls and heavy seas the engineers touched at Wotje Island, a stronghold of the Japanese during WWII. Here were the deteriorating ruins of bunkers

and an airstrip that once launched thousands of planes in the bitter struggle for the Pacific. Now the airstrip is overgrown and some of the bunkers have been turned into homes by the Wotje Islanders.

### Rainy Season

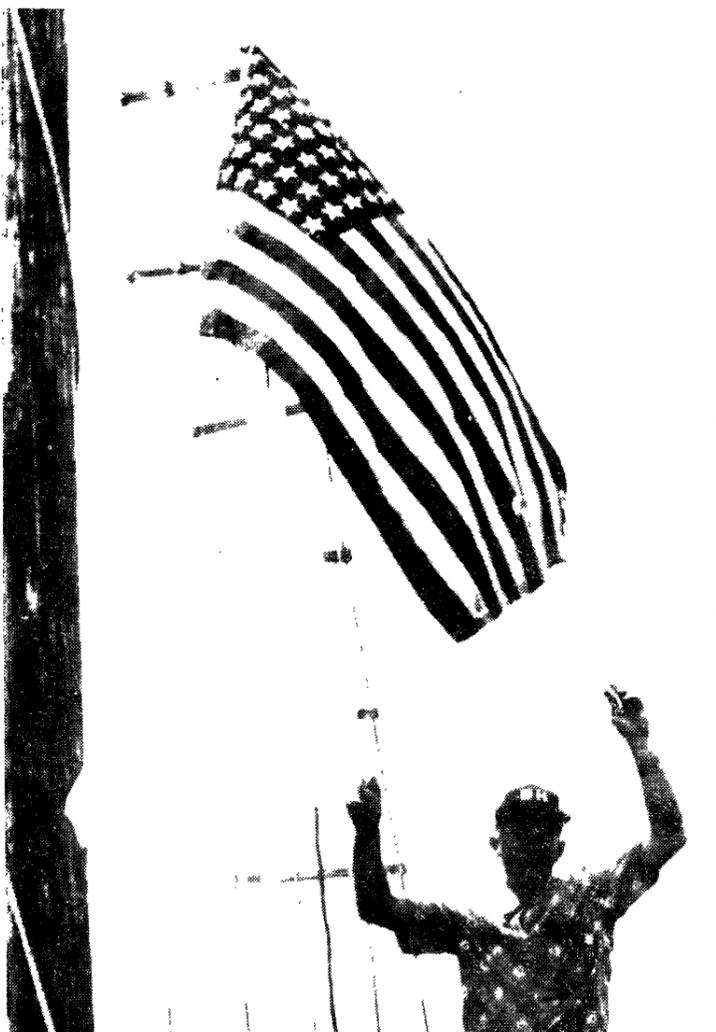
The rainy season was reaching its thundering finale when the adventurers set out on their trip and at this season of the year the Pacific can become a cauldron of turbulent water, jagged lightning, drowning rain and bombastic thunder. It was on such a night as this that the Louisa was caught between Wotje and Kraven, the terminal island of their trip in the Maloelap Atoll.

The small boat tossed in the demonic sea and water poured over the sides. At 11:35 the Louisa was staggered by a blast that jolted the swashbucklers from their bunks. Their first thought was that the engine had exploded. A hasty inspection proved this wrong.

The explosion was caused by lightning which struck one of the Louisa's masts and ran down the rigging onto the hull of the boat itself. Other than some forlorn members of the party who were temporarily incapacitated by seasickness, the lightning caused the only casualties of the trip. Dolan, whose bunk lay near the charged rigging, was burned on the back. Two members of the Marshallese crew also received minor burns.

### Hole Is Discovered

But, the greatest damage was yet to be discovered. Near midnight the engine shuddered and stopped. Out of control, the Louisa was to wallow in the rolling seas until daybreak. And during this time it began to leak water through a hole in the hull. The hole was burned just above the waterline by the lightning. The heavy seas lapping over the craft poured water through the



**THE SHOVE OFF**—Ken Sanderson hoists the expedition flag as the Louisa shoves off for a 500 mile trip through the Marshall Islands. During the trip the craft was struck by lightning and nearly crashed onto a reef.

breach so fast that everyone aboard was forced to begin bailing seawater from the holds to stay afloat.

The shaky and bearded engineers hardly looked like guests of honor that night when the chief (Continued on Page 11)

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VISIT SERGEANT MANUFACTURER — Nick Barberio, manufacturing manager, Brig. Gen. Charles W. Eifler and Col. Edwin I. Donley inspect work being done on J-box cabling by Margene Smith and Marianne Lagara at Sperry Utah Clearfield facilities.



NATIVE HANDICRAFTS—Ken Sanderson bartered some of his trading goods for this hand carved model of a native outrigger canoe. The native craftsman who made it whittled out the hull in elaborate detail and then wove the sail from strips of pandanus leaf.

**EXOTIC VACATION**  
(Continued From Page 10)

of the village on Kraven welcomed them with a feast. They sampled 40 woven baskets of breadfruit, chicken, native side dishes and, of course, coconut.

On Kraven they also left a bit of American culture to mingle with that of the age-old island. Leon Smith taught the islanders how to twist!

Sanderson estimates that the trip cost about \$100 per person—not bad for a six-day adventure through dozens of South Sea Islands. Their goal next year is

Ponape—400 miles to the lee of Kwajalein and described as "an uncommercialized Tahiti."

**MORE TIME FOR HUNTERS**

The Nation's waterfowl hunters will have a longer season or increased bag limits during the 1963-64 season, the Department of the Interior announced recently. The "outside dates" for hunting ducks and coots this season in all flyways will be from October 5, 1963, through January 5, 1964. In the Atlantic, Mississippi, and Central flyways, the "outside dates" for geese will be October 1\* through January 15.

**Honest John Engineers Aid Missouri Reserves**

**"Do-It-Yourself" Rocket Battalion Builds Their Own**

An ambitious Army Reserve unit which wanted to learn how to handle rockets has solved part of its problem by building its own rocket for practice handling.

The rest of the problem was solved by the Army Missile Command's Honest John Commodity Office, which arranged for the transfer of a real rocket "skin" and additional equipment to the unit to simulate working with rockets.

The program was sparked by the ingenuity of the officers and men of Battery B, 3rd Rocket Howitzer Battalion, 31st Artillery, with Headquarters in St. Joseph, Missouri.

Battery B took the initiative. As a kick-off move, the men fashioned their own rocket out of 55-gallon drums welded together with a sheet of metal. They topped off their rocket with a makeshift warhead.

An Honest John systems engineer, Hugh J. Dudley, in the Honest John Commodity Office heard

of their effort and called it to the attention of the Honest John Commodity Manager, Lt. Col. F. C. Gay.

The Commodity Office offered to aid the unit by making available to it certain equipment used earlier in the Honest John program.

Battery B started its own "do-it-yourself" program with a clear objective in mind. It wanted to learn how to handle rockets and perform a realistic battery reconnaissance and selection of position.

To accomplish this, they built their own rocket of drums. They mounted it on a truck-carried launcher which also was made by the men at home.

As a result of the transfer of equipment, the soldiers now have a used rocket motor casing, or shell, topped off by a dummy warhead.

The officers of the reserve unit say the new rocket provides them with a much more realistic training device than did their home-made drum rocket.

In addition, the Commodity Office arranged for the reservists to have other items for use in

**Chicago Man To Speak At Graduation**

One of the nation's leading insurance executives will address graduates of the Army Ordnance Guided Missile School Friday, Oct. 25th.

James S. Kemper Jr., president of Lumbermens Mutual Casualty Company of Chicago and chief of five other national insurance firms, will arrive here Thursday and will visit the Army Missile Command and the industrial area of Huntsville.

A student of foreign affairs, Mr. Kemper is the son of the former U. S. Ambassador to Brazil under President Eisenhower. He won his bachelor of arts degree at Yale University and holds a law degree from Harvard.

He will address 50 German and U. S. missile students at graduation exercises at Redstone Arsenal on Friday morning.

Kemper will attend a luncheon of the Huntsville Industrial Expansion Committee Thursday and visit the city's new industrial park and the University of Alabama Research Center.

Thursday evening, he will be honored at a dinner given by Col. and Mrs. William J. Macpherson and Mr. and Mrs. Roy B. Southworth at the Squirrel Hill Officers Club. He will be the luncheon guest of Erich W. Neubert of the Marshall Space Flight Center on Friday and is to return to Chicago that afternoon.

training, such as spin rockets, fins and nozzles.

All the items came directly from depot stocks with the exception of the "used" motor case which was supplied by Radford Ordnance Plant, Virginia.

The reservists' home-made launcher is built of angle iron. It is mounted on castors in the bed of a 2½ ton truck and is pivoted at the tailgate, the only place requiring bolt holes in the bed of the truck.

A clever system of cables allows the launcher to traverse 100 miles to the right and to elevate 330 miles.

As a result of the cooperation between the Missile Command's Commodity Office and the reserve unit, the U. S. Army has another team groomed to work with its highly reliable surface-to-surface Honest John ballistic rocket.

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|                                   | 1500                  | 59.80     | 72.80     |
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## Welcome Mat

The Rocket takes pride in welcoming the following personnel, who have recently been assigned to civilian positions with U. S. Army organizations on the Arsenal.

### Army Missile Command

**Supply & Maintenance:** Doris J. Anderson, Walker G. Barr, Nathaniel Beem, James D. Blaydes, Patricia G. Cassity, Walter L. Churchill, Edmund A. Davis, Andrew J. Donner, Jr., Corabelle C. Dupes, George N. Elledge, Wendell L. Elrod, Vincent F. Giarratano, Sr., John H. Glenn, Judy C. Griffin, Lillian A. Hammer, Virgil V. Harton, Eleanor M. Higgans, Victor G. Iacovetto, John P. McGraw, Wayne M. Mattern, William Moody, Doris H. Morris, Edmond E. Mouser, Jr., Margaret J. Nassif, James R. Pierce, Charles R. Raley, Jr., Bonnie K. Reeves, David L. Rooks, Doris S. Smith, Benjamin J. Weeks and Clara J. West.

**Research & Development:** Jesse A. Armstrong, Verence C. Bailey, Bonnie F. Couch, Mary D. Cowley, Mattie C. Garner, Joyce B. Hall, Edna M. Hildring, Eleanor J. Laity, Martha A. Lay, Lonnie L. Looger, Sarah J. Lowe, Sandra A. Moon, Dolly B. Perciful, Orene H. Pruitt, Ruth E. Rose, Johnny E. Simpson, Carole C. Smith, Maggie S. Underwood, Vera P. Vandegrift, and Paula L. Wester.

**Procurement & Production:** Betty M. Bates, Linda S. Bedwell, Mary J. Brock, Arthur G. Brown, Jr., Judith S. Brown, Mary Byrd, Ronald F. Callaway, Franklin O. Cowart, Jr., Madgealene S. Garnand, Annie S. Goosby, Barbara G. Hames, Carl W. Hoca, William J. Kellis, Marie C. Lawrence, Patsy H. McAlister, William T. McCain, Elmer J. McDonald, Eldon R. McLain, Bonnie S. Mathis, Warren C. Morris, Kenneth E. Motes, Betty D. Patterson, Jo. D. Scott, Norman A. Shenk, and Teraca C. Sutphin.

**Pershing Project Office:** Nancy J. Brazelton, Ernest A. Coumoutseas, Nelle P. Marlin and Margaret B. Poteete.

**Comptroller & Director, Programs:** Edward W. Brennan and Bonnie D. Connally.

**Hercules Project Office:** Theresa E. Etienne, Dorothy L. Rowe and James M. Patterson.

**Hawk Project Office:** William A. Fondren and Sara L. Parton.

**Lance Project Office:** Joe C. Johnson and Clara M. Lawrence.

**Mauler Project Office:** Joyce G. Moore.

**Installation & Services:** Betty E. Patterson.

### Zeus Project Office

Thelma J. Christian, Willett H. Haggerty, Martha L. Lemmons, Lyle McDysan, Gertrude B. Vandergrift, Charles C. Vessels and Mary S. Zmudzinski.

### Army Missile Support Command

**Civilian Personnel Office:** Terry L. Bailey, Patty J. Ballard, Blanche M. Elrod, Beverly T. Jefferson, Audrey W. Merten, Linda P. Noe, Edris J. Payne and Eunice G. Sartain.

**Explosives Division:** Linda H. Abrams.

**Computation Center:** Weldon L. Anthony, Clark G. Carr, Lillian M. Hill, Bate E. Rainey, William

R. Sellers.

**Maintenance Support Division:** Marvin L. Blalock, Delano R. Price, Emery B. Robinett and Donald R. Young.

**Finance & Accounting:** Claudie L. Brown, William E. Douglas.

**Post Engineer:** Leon Cryar, Houston M. Hicks, Edward Orr, George S. Thrower, McNeal Turner and George W. Whitfield.

**Patent Center:** Harold W. Garner.

**Intelligence & Security:** Lawson L. Haynes, and Katie M. Winston.

**Post Hospital:** Mary T. Hill,

Jean M. Normandin.

**Communications Division:** Doris J. Hunter, Ada C. Pickens, Shirley N. Schroeder.

**Post Quartermaster:** Anita H. Light.

**Post Transportation:** Shirley G. Lipsey, Marie T. Rich.

**Purchasing & Contracting:** Gil-da V. Luna, Sara J. Moore, Donna L. Snider.

**Pictorial Division:** Sharon A. Rhodes.

### Ordnance Guided Missile School

Erma J. Gentry, James D. Gillespie Verlin O. Harmon, Larry E. Coleman, Francis G. Kiess, Donald W. Stewart.

### COOKS, DRAFTSMEN NEEDED

The Board of U. S. Civil Service Examiners has issued three examination announcements at Redstone Arsenal in completely unrelated fields.

Announcement No. AT-35-10(63) calls for railroad brakeman at \$2.52 an hour.

Announcement No. AT-35-11(63) is for engineering draftsmen with options in mechanical, general, aeronautical, electrical, electronic and mechanical fields. These begin at an annual salary range from \$4110 a year to \$5540 a year.

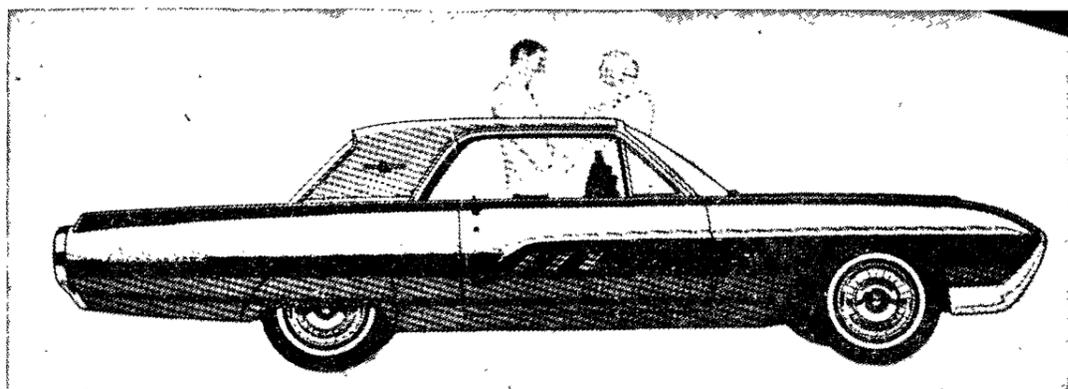
Announcement No. AT-35-12(63) calls for cooks at wages ranging

from \$2.01 an hour to \$2.52 an hour.

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# AFGE To Elect New Officers

Lodge No. 1858 of the American Federation of Government Employees will hold an election of officers November 11 at Carpenter's Union Hall, Clinton Street, Huntsville.

The polls will open at 1 p.m. and will close at 8 p.m. Every Lodge member in good standing is eligible to vote upon presentation of his membership card.

Ballots will be tabulated immediately after the polls close.

Absentee ballots are allowed for members who will be away from Huntsville on Temporary Duty, provided they are delivered before the polls close.

Absentee ballots may be obtained from shop stewards by presentation of documentary evidence showing TDY assignment.

Should a runoff be required, it will be held the second Monday

in December. Officers serve a two-year term.

Nominations were closed for all offices at a regular Lodge meeting last week. Candidates whose names will appear on the ballot are:

President—Dennis Garrison, incumbent president; Charles Hendrix and Glenn Test;

Assistant President — Wallace Branham and Ernest Jackson;

Executive Vice President — J. Winton Morrow and Jim Sheetz;

Vice President of the U. S. Army Missile Command — T. C. Coleman, Roger Hodgdon, Robert Mifflin, Robert Shelly and Jack Wright;

Vice President of the U. S. Army Missile Support Command—David Sims and Raymond Swain;

Vice President of the U. S. Army Ordnance Guided Missile School—James C. Light;

Vice President of the Marshall Space Flight Center—Burlin Hicks and T. V. Nuneley;

Secretary — Mrs. Rosa Funde-

burg and Lester Mitchell;

Treasurer — Thomas Childers and Mrs. D. Killion;

Sergeant at Arms — J. L. McCutcheon and W. Strange;

During last weeks meeting AFGE members also heard a report on Washington AFGE legislative conferences from President Garrison.

Garrison said more than 1,000 AFGE delegates met in Washington for the legislative conference. He and Ernest Jackson attended from Lodge No. 1858.

The local Lodge president predicted a pay raise for all GS employees, including a six per cent increase for the first five grades, a 30 year retirement at age 55, the Government to pay 50 per cent of Health Insurance, with women paying the same premium as men, a repeal level of competence of GS step raise, and additional units of life insurance.

Garrison said his prediction was based on the evaluation of results of information furnished from delegates who called on

their congressmen and senators and reported back to the conference in Washington.

He also said the procedure for union check off dues was authorized in October to begin January 1, 1964.

Lodge No. 1858 now has exclusive recognition in the U. S. Army Missile Support Command.

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Page 14 The Redstone Rocket — October 23, 1963

## 1. For Rent

**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**—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. 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

**FOR RENT**—Executive type mobile home, 50'x10' Anderson, 2 bedroom, 1 1/2 baths, air-conditioned, built-in washer, aluminum awnings, oil tank and all accessories. Located near Shopping Center \$105.00 per month including all utilities. Available approximately Nov. 1, 1963. Phone 876-5185 or after 5:30 p.m. at 539-6857 10-23c

**ROOM FOR RENT TO GIRL** in air-conditioned apartment. Steam heated. Maid service including laundry done. Meals furnished if desired. Very reasonable. 536-5226 after 5:00. ttp

## 2. Cars For Sale

**TRIUMPH TR-4**—4500 miles, completely equipped, white with red interior. \$600 below list. Call 876-8852 or 536-5794 after 5:00 ttp

1962 CHEVY IMPALA Hardtop, guaranteed good condition. Phone 852-1174. ttc

**ASHI 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

**FOR SALE**—1958 Corvette, red/white, 4-speed, two tops, full injection, tonneau and new brakes, tires, interior. BEST OFFER. Call SP4 HICSWA, Duty Hours 876-8665 or 877-3941, 1730-1930 hours ttp

## 3. Miscellaneous

**ATTENTION MOTHERS**—If you work, enroll your children in the Sunnydale Private School—Kindergarten through grade 6. Supervisor will be provided for play and home work after school until 6 p.m. Accredited teachers, reasonable tuition. Special emphasis on phonics, music and speech. For more information, Call 536-8444 evenings, 5 to 10 p.m. ttc

**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

**BOAT HOUSE STORAGE** available on Guntersville Lake. Wooden boats need to remain in water. For information call 536-3113 (8-10 a.m.). 10-23c

**A B S SECRETARIAL SERVICE**—408 Clinton Avenue, W., Huntsville, Ala. Phone 534-6451. CALL US FOR: Photocopying, mimeographing, transcribing (Dictaphone), telephone answering. Employment applications prepared (Government and other). Notary Public. (Our office or yours). ttc

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**TYPEWRITERS**—TYPEWRITERS—TYPEWRITERS. Used, reconditioned electric and standards, \$25.00 up. "House of Typewriters" 13011 So. Memorial Parkway, (across from Gate No. 2 at Farley) Call 881-2659. ttp

**LEARN TO FLY**—Solo in 8 hours \$120.00. Can be paid by month \$9.00 monthly. New Beech and Piper aircraft, also aircraft sales, rentals and charter. Phone 539-3542 ttc

**UHF CONVERTER**, \$1197. 21 inch 90 degrees picture tubes \$21 exchange (1 year guarantee on picture tubes). Used TV's, \$20 and up. TV Rentals. Central TV and Stereo Co., franchised dealer in RCA and Zenith TV Service dealer in all makes of radios, TV's and stereos. Central TV and Stereo Co. Governors Drive & Parkway, Phone 536-9761. ttc

**FOR SALE**—Newly reupholstered couch and chair, like new condition. Phone 539-0382 ttc

**HOUSE PLANS DRAWN** to meet any specifications. Qualified designers with several years experience. Call Custom Residential Designing Service, 534-5915 or come to: 915 D. Franklin St. 10-30c

## 4. Mobile Homes

**SEE OUR FULL LINE OF**—Mobile Homes—or we'll both lose money! We trade for anything! easy terms. Come see the friendly folks at Texas Auto Sales, 1003 Meridian St., phone 536-6121. ttc

**WE HAVE 2**—35'x8' 1 bedroom mobile homes. These are both real nice and clean. Only \$1995.00, terms to suit your budget. Texas Auto and Mobile Home Sales, 1003 Meridian St., Phone 536-6121. ttc

## 5. Houses, Lots - Sale

**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

**WE CAN NOW BUILD** you a three (3) bedroom brick veneer home fully completed to FHA or VA requirements on your lot with carport and storage for as little as \$49.77 per month, plus fire insurance, taxes, etc. No down payment and no closing cost. CORNELIUS REAL ESTATE & INS. CO., 521 N. Broad St., Guntersville, Ala. ttc

**GUNTSVILLE LAKE** 100' Water front lots \$1250.00. inside lots \$500.00. only \$100.00 down \$20.00 mo. Ty Dorman Guntersville 582-3654 or Huntsville 876-3297 ttc

**BY OWNER**—Located NW near University Center, Brown Engineering, Gate 1 & 9, 3 bedroom brick, 1 1/2 bath, central air. \$500 down FHA. Call 881-3796 after 4:30 or 876-5806. N. Miller. 10-26p

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**FOR SALE**—three (3) bedroom brick veneer home 1 1/2 ceramic baths, large den, approximately 1600 sq. ft. nice level lot, can make 100% GI loan or \$500.00 down FHA.

Nice three (3) bedroom house Carlisle Park, Guntersville, Alabama, with separate dining room, fire place, large beautiful lot. Pay small equity and move in. Available now.

Nice three (3) bedroom home with GI loan and good location in Arab, Alabama. Pay small equity and assume payments will be available about November 1, 1963. Beautiful split-level now under construction in good location in Arab, Alabama, two (2) full ceramic baths approximately 1800 sq. ft., plus carport and storage.

**CORNELIUS REAL ESTATE CO.**  
Guntersville, Ala.  
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**EQUITY SALE**—Air conditioned split level, 3 bedroom, 1 and 1/2 baths, paneled den, garage, built-ins, TV cable contract, well established lawn. Phone 539-8558. ttc

**FARM FOR SALE**—160 acres with old house more than 1/2 mile overlooking beautiful mirror lake will sell for small down payment, balance at \$50.00 per month plus interest only \$50.00 per acre. Cornelius Real Estate Co., Guntersville, Alabama. Phone 582-3027 or 582-5313. ttc

**FOR SALE BY OWNER**—(In Lakewood) Tri-level, 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 852-2063. See at 2202 Phillips Road, N.W. ttc

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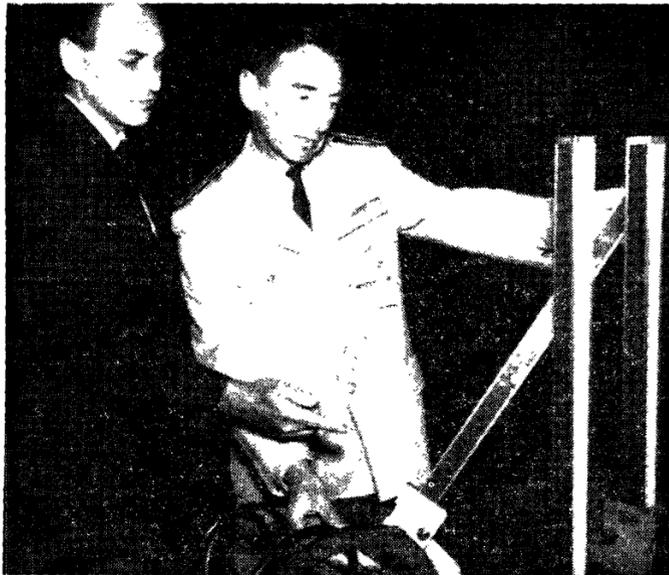
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**WE USE THESE**—W. R. Sheppard of the Army Missile Command's Directorate of Procurement and Production points out the use of height gauges in testing missile parts to French Brig. Gen. Emile Thierry. Gen. Thierry is Director of Space Matters at the Headquarters of the French Air Force. He and a party of other high ranking French officers spent two days on Redstone Arsenal recently. The visitors included the French Air Force Liaison Officer to SHAPE (Supreme Headquarters Allied Powers in Europe) and Chief of the Material Research Section of the French Army. Sheppard, who escorted the group through the missile labs, is Chief of the Directorate's Industrial Engineering Laboratory.



**EAGLE SCOUT** — John Bond, 14, a sophomore at Butler High School, attained the rank of Eagle Scout. Award of the Scouting honor was made by Spencer Ball, representative of the Tennessee Valley Council of the Boy Scouts of America. John is a member of Troop 203, Redstone Arsenal. He is the son of Lt. Col. and Mrs. John R. F. Bond.

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| <b>1962 CADILLAC</b><br>4 door hardtop, black, full power, factory air, low mileage. Like new.<br><b>\$4495.00</b>               | <b>1963 CHEVY</b><br>Hardtop 4 dr. Impala, extra clean, low mileage. Like new.<br><b>\$2595.00</b>                | <b>1960 CHEVY</b><br>6 cyl., S. S., turquoise. Like new.<br><b>\$1395.00</b>   |
| <b>1959 CADILLAC</b><br>4 dr. hardtop, factory air condition, yellow finish, extra clean. Wonderful bargain.<br><b>\$2795.00</b> | <b>1963 IMPALA</b><br>Super Sport, all equipment inc. bucket seats, V8, auto., 6,000 miles.<br><b>\$2795.00</b>   | <b>1960 CHEVY IMPALA</b><br>Convertible, white with black top and red interior. V8, auto, full power, 31,000 miles, one owner, like new.<br><b>\$1695.00</b> |
| <b>1963 FALCON</b><br>2-door green, low mileage, like new.<br><b>\$1695.00</b>   | <b>1963 IMPALA</b><br>4 dr. sedan, 3,000 actual miles, power steering and brakes, 6 cyl.<br><b>\$2395.00</b>      | <b>1962 FORD GALAXIE</b><br>2-door sedan, 6 cyl., stick shift, radio, heater, one owner, low mileage, new condition, new tires.<br><b>\$1595.00</b>          |
| <b>1961 OLDS F-85</b><br>4 door, light green, low mileage. Same as new.<br><b>\$1695.00</b>                                      | <b>1962 CHEVY IMPALA</b><br>2 dr. hardtop, black with gold interior, 327 engine, stick shift.<br><b>\$2095.00</b> | <b>1962 CHEVY BEL AIR</b><br>4-door, black with red interior, 15,000 one owner miles. 327 engine with auto. trans.<br><b>\$1995.00</b>                       |

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# Future War & Peace Studied By Army

WASHINGTON (ANF) — While deep space probes drift toward new planets, a group of Army planners probe the imponderables of future war and peace on this one. Military-civilian teams at the U. S. Army Combat Developments Command's Institute of Advanced Studies examine in depth such topics as the nature of future earth environments, the Army's

roles in the whole spectrum of war and the effect of science and technology on land warfare from the present to twenty years from now. While the Combat Developments Command, in its role as the "Army's Idea Proving Ground," studies and recommends how the specific Army units will be organized, equipped and fight-

its Institute of Advanced Studies considers the strategic joint and unified operations of the Army in a theater role. Ideally located with the U. S. Army War College at Carlisle Barracks, Pa., the Institute, com-

manded by Maj. Gen. William F. Train, draws heavily on a carefully filtered pool of Army experience and expertise—the faculty and students of the War College. This inter-play helps the IAS experts prepare studies on broad international, national and depart-

mental matters affecting land warfare. Their long-range mission also requires that they maintain liaison with the scientific, academic and technological communities to keep abreast of the expanding frontiers of knowledge in many fields as they affect current and future land warfare.

## SPECIAL DUTY PAY AREAS

Places designated for entitlement to special pay (\$8-\$22.50 depending on enlisted pay grade), for duty outside the contiguous 48 states and the District of Columbia are: Afghanistan, Alaska, Algeria, Anguilla, Antigua, Aruba, Australia (Alice Springs), Azores, Bolivia, Brazil (Fortaleza, Recife, Salvadore, Santa Cruz), Bulgaria, Burma, Burundi, Cambodia, Cameroon, Canada (except metropolitan areas and St. Johns),

Yemen, Yugoslavia. NOTES: 1. Designation of a single country or state indicates that enlisted personnel on duty at all places within the country or state are entitled to this special pay (Example: Alaska and Turkey), unless exceptions are indicated (Except: Canada). 2. The designation of places within a country indicates that only those places are entitled to this special pay (Example: Australia: Alice Springs).

Ceylon, Christmas Island, Columbia, Republic of Congo, Corsica, Costa Rica, Crete, Cuba, Czechoslovakia, Dahomey, Denmark (Karap Air Station),

Dominican Republic, Ecuador, Egypt, Eleuthera, Eniwetok, Ethiopia, France (Bessens, Brienne-Le-Chateau, Captieux, Chize, Clos Chapeau, Donges, Le Peillon, Rochefort, St. Le Verdon, St. Germain), Germany (Ahlhorn, Buren, Handorf, Heidwinkel, Hof, Itzehoe, Jever, Lahn, Lubeck, Ludenscheid, M. Meissner, Pfullendorf, Radolzell, Rendsburg, St. Andreasburg, Sartin (A. K. M.), Treysa, Urlau, Villigen),

Greece, Ghana, Greenland, Guam, Guatemala, Haiti, Honduras, Hungary, Iceland, India, Indonesia, Iran, Iraq, Israel,

Italy (Bobolone, Catron, Ceggia, Cioggia, Cogogna, Conselve, Cordevoto, Mount Calverina, Mount Gioppa, Mount Torara, N. Mount Poise, Naz Seiaves, Oderzo, Portogruara, Zelo),

Ugry Coast, Iowa Jima, Japan (Island of Hokkaido, Kobe, Akashi-Osaka Area, Kuma Shima, Misawa, Wakkanai), Johnston Island, Jordan, Kenya, Korea, Kwajalein, Laos, Lebanon, Liberia, Libya,

Mahe Island, Seychelles, Malagasy Republic, Malaysia Federation, Mali, Malta, Malaya, Midway Islands, Morocco, Nepal, Netherlands (Steenwijkerveld, Tharde),

Nicaragua, Niger, Nigeria, Pakistan, Palestine, Panama (including Canal Zone), Paraguay, Peru, Philippine Islands, Poland, Puerto Rico (Vieques), Rumania, Ryukyu Islands,

Saint Lucia, Saipan, Saudi Arabia, Senegal, Sicily, Signonel, Somali Republic, Spain (Adamoz, Cartagena, Ciudad, El-Ferriz, Sonseca), Sudan, Surinam, Swaziland,

Taiwan, Thailand, Trinidad, Tunisia, Turkey, United Kingdom (Orkney, Scotland and Londonderry, Ireland), U.S.S.R., Upper Volta, Venezuela, Vietnam, Wake Island



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HERE'S THE PROOF — Watermelons do thrive in Alabama during October, at least they do in the vicinity of the Project Shakedown Office in Building 5587. Joe Cofer exhibits one of the prize melons which are scheduled to be the main attraction for a watermelon festival later in the fall.