



**BUDDING SCIENTIST**—Kenneth Ritthaler (center), prepares to fire his LASER as Walter B. Jennings, Jr., (left), a physicist with the Electromagnetics Laboratory, Directorate of Research and Development, Army Missile Command, checks power input level. William F. Otto, an Army Missile Command research scientist stands by to evaluate the results. Otto gave the young National Science Fair winner from Upton, Wyo., a quick briefing in the mathematics and physics of the LASER.

## Teenager Displays Laser That He Built For Himself

Teenage rocket buffs are frequent visitors to the home of Army missiles, but 16 year old Kenneth Ritthaler of Upton, Wyo., is the first of a new breed.

Ken showed up recently with his own LASER, one that he had built himself . . . and it worked.

A LASER—the letters stand for Light Amplification by Stimulated Emission of Radiation—is a device usually found only in closely guarded research laboratories of government and industry. The possibilities of the devices, if they can be made practical, are almost limitless; among them, new communications techniques.

They most assuredly are not something the average do-it-yourselfer turns out in his basement. That's why Ken Ritthaler found himself the center of attention when he walked into the Army Missile Command's Directorate of Research and Development with

his LASER under his arm.

Engineers in the Applied Physics Branch of the Directorate's Electromagnetics Laboratory were skeptical at first. They work with LASERS too, but in classified projects. It took Ken about two minutes to convince William B. McKnight, Branch Chief, that he really knew what he was talking about.

The youngster wanted some technical advice. His homemade LASER wasn't quite up to snuff. He was looking for a way to increase its power output to the point where the coherent beam of light "fired" by the device would break a balloon.

McKnight and his Laser experts, James C. Nixon, George A. Emmons, Ralph W. Hawkins and Daniel W. Riggs were sure they could help him and they did.

The group had been alerted to expect Ken's visit after the Department of the Army had been asked to help him out. Ken, the son of a rancher, had first demonstrated his Laser at the National Science Fair in Albuquerque last year where he won top honors.

When MGM Television decided to produce a television series on junior scientists, Ken was one of the first chosen to appear. The program will be aired beginning in January on the American Broadcasting Company TV network. ABC and MGM asked the Army's help in souping-up Ken's (See TEENAGER on Page 3)

# The Redstone Rocket

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

VOL: XII; NO. 25

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

OCTOBER 30, 1963

## \$19 Million Earmarked For Shillelagh

A \$19,000,000 U. S. Army contract to complete research, development and testing of the Shillelagh surface-to-surface, tank mounted missile system was awarded Friday to Aeronutronic Division of Philco Corporation, a subsidiary of Ford Motor Company.

The work will be done at the company's plant in Newport Beach, Calif.

The contract is the new incentive type used by the Department of Defense by which contractors have the opportunity to increase profits based on performance against target costs, delivery schedule and missile performance.

The Shillelagh is now undergoing tests at White Sands Missile Range, N. M. Firings are scheduled to continue during the development phase.

An armored reconnaissance vehicle, the General Sheridan, and the Shillelagh missile with which

**Additional Sheridan/Shillelagh News & Picture on Page 11**

it will be armed will make up the Sheridan/Shillelagh weapon system.

The Shillelagh Missile Engineering Division, located at the Army Missile Command, Redstone Arsenal, Alabama, has responsibility for technical direction of the missile development program.

The Aeronutronic contract will be administered by the Los Angeles Procurement District.

## Hercules Project Manager Joins 100 Per Cent Club

The Hercules Project Office became the fourth member of the exclusive 100 per cent club as the 1963 Redstone Arsenal United Givers Fund drive entered the home stretch of the six-week campaign.

Capt. Michael Kernan, agency chairman for Hercules, indicated in his latest report that all 187 persons assigned to the Project Office had made pledges, with 78 per cent of the pledged amount already collected.

In reaching 100 per cent, the Project Office is by far the largest reporting agency to attain that figure. The other perfect organizations are: the Office of the Commanding General; the Office of the Deputy Commanding General, Land Combat Systems; and the Lance Project Office.

(See HERCULES on Page 3)

## Eight Honored At Retreat, Review Here; Two Receive Legion Of Merit Medal



**DECORATED WITH LEGION OF MERIT**—Col. Foster L. Furphy (center) receives the Legion of Merit from Brig. Gen. John G. Zierdt, Commanding General, Army Missile Command. Col. Oliver M. Hirsch was also decorated with the Legion of Merit at the same ceremony during the Retreat Parade and Review on the Redstone Arsenal Parade Field Friday night.

Two oak leaf clusters were added to the Legion of Merit medals of Col. Foster L. Furphy and Col. Oliver M. Hirsch at a Retreat Parade and Review Friday night.

Six other men were honored during the ceremonies on the Redstone Arsenal parade field.

Brig. Gen. John G. Zierdt was the reviewing officer for the first time since he became Commanding General of the U. S. Army Missile Command.

Col. Furphy has been Chief of Staff for the Missile Command and Col. Hirsch the Pershing Project Officer. Other retirees included Col. Edward R. Billings, Deputy Director of the Production and Procurement Directorate; Col. Lee B. James, stationed with the Marshall Space Flight Center's Saturn Project; Lt. Col. Earl J. Dotson, (See EIGHT HONORED on Page 3)

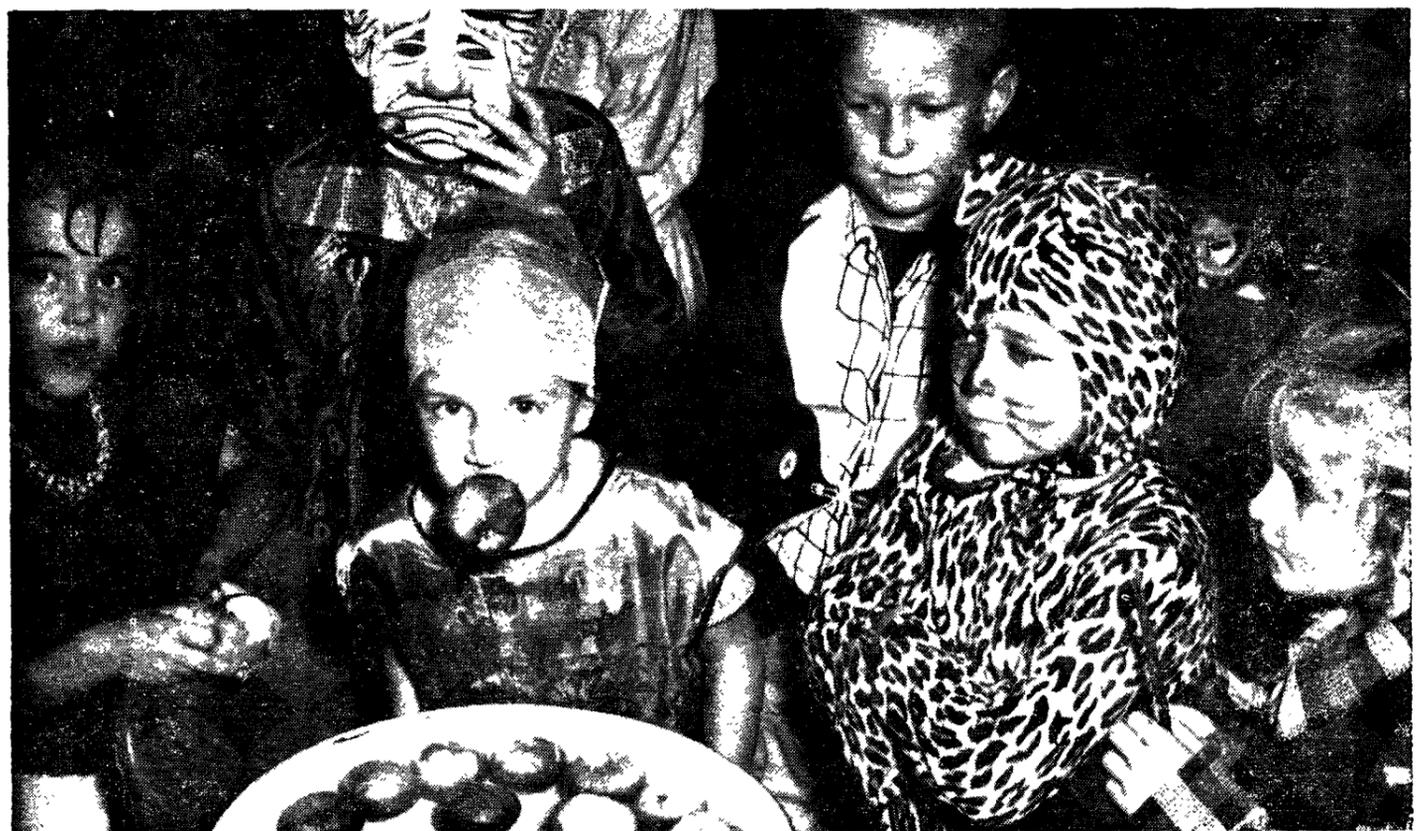
### HUNTING STOPS

Hunting on Redstone Arsenal has been suspended until further notice, S/Sgt. Clarence K. Aweau, Post Game Warden, said this week.

The suspension of hunting was in cooperation with a similar move on the part of Madison County, and other counties in Alabama and Southern Tennessee.

Cause for the suspension is increasingly dry conditions which cause a fire hazard, Sgt. Aweau said.

Regular hunting season is expected to be reopened, provided sufficient rainfall eases the drought conditions, he said.



**GOBLINS ARE A-BOBBIN'**—In the time-honored way, Goblins always bob at a Halloween party. Last Saturday afternoon, the Non-commissioned Officers Wives Auxiliary sponsored a goblin party at the NCO Club and provided all the trimmings that go along with

spooks, junior grades. Almost 300 of them showed up—or else three went away without their bags of candy—too full of apples to care.

# 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.

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

The Redstone Rocket is distributed free of cost to personnel at Redstone Arsenal. Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

## Rocket Ruminations

There are two cardinal sins from which all others spring; impatience and laziness.

—Franz Kafka

## Strong Peacetime Army

The President made a film to welcome members of the Association of the U. S. Army to the annual meeting of the Association in Washington last week. The film was made in the White House Garden and replayed during the conference at the Sheraton Park Hotel. President Kennedy said:

It has been a great source of pleasure and satisfaction to me that during the last months, the last years, we have worked successfully and hard to build a stronger and more effective Army, and I think today we have the strongest peacetime Army in the history of our country and one which can meet its responsibilities all around the globe. To make it mobile, to increase its training and competence, to make it more responsive, to make it better able to fulfill its mission—these are the assignments of the Army, and I believe that a strong Army can mean a strong America.

There are one million Americans serving the United States overseas, and I sometimes wonder whether our fellow Americans realize how much they owe to the men who serve under our colors. It is their service thousands of miles from our shores which makes it possible for Americans to live in peace, to live in a secure country, for dozens of our allies who depend upon us to look to us for security.

We must continue to meet our responsibilities. We must continue to have a strong country and a strong alliance and a strong free world, and to do that we need a strong Army which is the point of the spear. We will continue to make that Army strong, and I appreciate the support you are giving to this great effort.

## Industry To Study Security Courses

The Department of Defense will conduct a Management Security Course at the U. S. Army Reserve Center, 3506 Memorial Parkway, S. W., Nov. 4-8.

The course is designed to give contractor personnel a basic understanding of security policies, procedures, and practices. Faculty members of the U. S. Army Intelligence School, Fort Holabird, Md., Industrial Security Division, will present the course, using study material developed for the Industrial Security Course at that school.

Col. George McCutchen, General Staff, Assistant Chief of Staff, G-2, Fort McPherson, Ga., will present the welcoming address.

## Sergeant Conference Held At White Sands

WHITE SANDS MISSILE RANGE, N.M. — Meeting at White Sands Missile Range this month, 100 high ranking military and civilian officials associated with the Sergeant missile program conducted a comprehensive three day review of the missile's completed engineering and service tests.

Objectives of the conference, based on these test results were: to determine the future status of the missile; to define and recommend corrective action for deficiencies within the system; and to determine the missile's degree of releasability to troops in the field. All findings and recommendations from the meetings were forwarded to the Dept. of the Army for approval.

The conference, the last in a series of similar Sergeant In-Pro-

## Thank You

AMSMI-F

24 October

TO: All MICOM Personnel

1. I am pleased that the Army Missile Command has again accomplished a difficult assignment with distinction. Through the combined efforts of all concerned, MICOM effectively carried out assigned actions in the recent partial mobilization exercise.
2. The importance of preplanning for emergencies cannot be over-emphasized; likewise, the exercising of such plans is the only way we can have reasonable assurance that the plans are valid. I am confident that this Command will be called upon many times in the future to participate in tests and exercises designed to assure that our readiness posture is as it should be. I am also confident that the MICOM organizational elements will continue to perform in a most satisfactory manner.

JOHN G. ZIERDT  
Brigadier General, USA  
Commanding

## Army Association Membership Jumps

Membership in the Association of the U. S. Army reached 68,693 at the beginning of fiscal 1964 to make it the largest of the three service-related organizations.

John Hatch, president of the local Tennessee Valley chapter, made this report upon returning from the AUSA convention held in Washington last week.

Membership increased more than 11 percent in fiscal 1963 as 7,583 new applications were processed, he said.

The Association now has 122 chapters, of which 25 are located outside the continental United States, and 55 percent of these increased their membership during the year, Hatch reported.

Hatch served as the local delegate to the convention. He and Joseph W. Wiggins, president of the AUSA Third Region, attended a number of official and social affairs which were climaxed by the George C. Marshall Dinner at which Vice President Lyndon Johnson was the featured speaker.

### Smokey Says:



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cess Reviews, climaxed over a year of concentrated testing.

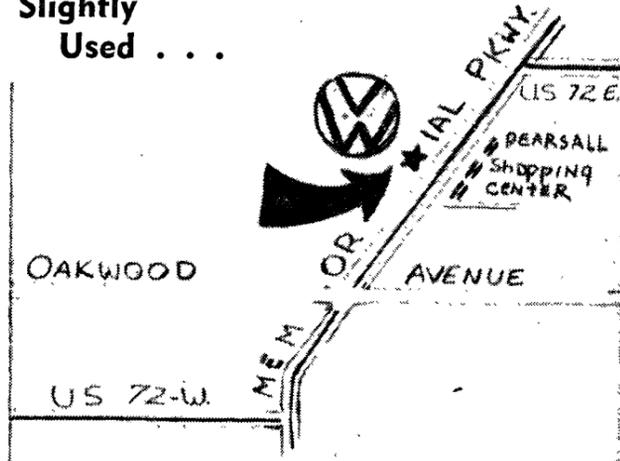
Although Sergeant testing will be lessened this year, the White Sands project office will continue to support and monitor graduation firings conducted by new Sergeant battalions graduating from the U. S. Army Artillery and Missile Center at Fort Sill, and annual service practice exercises.

Chairman of the White Sands meetings was Col. J. Mort Loomis, Sergeant project manager for the Army Materiel Command.

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## EIGHT HONORED

(Continued From Page 1)

Deputy Director, Missile Command Missile Intelligence Directorate; CWO James N. Cowart, Instructor at the Nike Branch, Ordnance Guided Missile School; First Sgt. James B. Rose, First Enlisted Training Command, OGMS; and SFC Drexell E. Meyer, Headquarters Detachment, Supply Command, Army Missile Support Command.

The troops paraded to the music of the 55th Army Band under the direction of WO Robert E. Edmonds, Jr. Sgt./Major Edgar R. Slayton was the Commander of Troops for the last scheduled parade in 1963 with Sgt./Major James H. Judd, M/Sgt. Roland J. Martin and M/Sgt. Jonn W. Monger serving as his staff.

Troops in the parade represented all elements of the military units stationed at Redstone Arsenal.

Sharing the reviewing stand with Gen. Zierdt and men sharing the honors were Col. Thomas W. Cooke, Commander of the Missile Support Command, Col. Henry J. Katz, Chief of Staff, Missile Command; Col. William J. Macpherson, Commandant, Missile School; and Erich Neubert, representative of the Marshall Space Flight Center.

## HERCULES

(Continued From Page 1)

Overall pledges to the campaign have risen to \$194,869 with a \$125,270 of this amount having been collected. In the campaign last year a total of \$201,710 was turned over to participating UGF agencies.

In addition to the four 100 per cent organizations, six other agencies are within five per cent of reaching perfection, including the three large directorates.

Supply and Maintenance Directorate and the Zeus and Mauler Project Offices are at 98 per cent; Procurement and Production has reached 97 per cent; and the Research and Development Directorate and the Ordnance Guided Missile School have each attained 95 per cent.

The largest agency gain of the week was split between Missile Intelligence and the Pershing Project Office with each boosting their participation by 15 per cent. The Sergeant Project Office reflected a gain of 11 per cent and has reached 90 per cent overall.

The Army Missile Support Command, with almost a third of the total strength of the Arsenal, continued its outstanding campaign by boosting its participation to 87 per cent.



**HONORED AT RETIREMENT**—Six of the eight men honored during the Retreat Parade and Review on the Redstone Arsenal Parade Field Friday afternoon are: (left to right) SFC. Drexell E. Meyer, Missile Support Command; First Sgt. James B. Rose, Ordnance Guided Missile School; CWO James N. Cowart, OGMS; Lt.

Col. Earl J. Dotson, Missile Intelligence Directorate; Col. Lee B. James, Marshall Space Flight Center, and Col. Edward R. Billings, Directorate of Production and Procurement. They shared the reviewing stand with Brig. Gen. John G. Zierdt, Commanding General of the Missile Command, the Reviewing Officer.

## TEENAGER

(Continued From Page 1)

Laser so that it could break balloons on the show.

"That's quite a boy," McKnight said. "He wanted to get his Laser working and he also wanted to learn something about the mathematics and physical principles involved in the devices. William F. Otto, one of our research scientists, covered that with him and from what Bill told me later, he didn't have to explain twice. We'll talk shop with him anytime."

McKnight and his group have but one regret. They hope Ken will come back someday with a security clearance so they can tell and show him some of the things that go on behind the closed doors in the Laser Laboratory here.

Ken is president of his high school's student council, its chapter of the National Honor Society and Forensic League. When he's not working on Lasers, he tends his own herd of registered Hereford cattle. An active member of his local 4-H Club, Ken is almost as proud of his state champion Hereford bull as he is of his homemade Laser.

During his visit to Redstone, Ken was a guest of the Huntsville

## THREE RECEIVE WARRANTS

Three graduates of the Hawk Maintenance Supervisors course qualified as warrant officers Monday, and received their official appointments from Col. William J. Macpherson, commandant of the Army Ordnance Guided Missile School.

James W. Ross, Alginautas

High School Student Council at one of their functions and also attended a dinner of the Society of Personnel Administration.

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Sparkevicius and Spencer J. V. Seal accepted their certificates at a ceremony in the Commandant's office.

In another ceremony on Oct. 24,

the silver leaves of a lieutenant colonel were pinned on Carl W. Hartman, who is assigned to the Combat Development Command's liaison office at OGMS.

The Redstone Rocket — October 30, 1963 Page 3

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**TALKING HONEST JOHN**—Three men from the Army Missile Command meet with soldiers who last week fired the Honest John and Little John rocket systems. Shown standing on the launcher vehicle is S/Sgt. Olen Bass. Others, from left, are Donald Williams, an engineer in the Honest John/Little John Commodity Office; and front, Lt. Col. Eff W. Birdsong, Commander of the 3rd Missile Battalion of the 32nd Artillery at Fort Sill; behind him is Capt. Charles W. Poteat; Sgt. Maj. William Rowe; Edward Kellis, of the Procurement and Production; and W. D. Wood, Jr., of the Supply & Maintenance Directorate. The missile experts were at Fort Sill last week to meet with using troops and to view firings of both of the rockets.

## Honest John, Little John Scoot Over Prairie At Artillery And Missile Center

FORT SILL, Okla.—Engineers and technicians from the Army Missile Command last week saw the products of their last efforts pass two noteworthy milestones as both an Honest John and a Little John rocket were fired across the sweeping prairies at this Artillery and Missile Center.

For the Honest John, it was the 150th firing since the highly reliable rocket was turned over to soldiers at Fort Sill several years ago.

In another unusual aspect, the Honest John rocket used a motor section which had been in storage for eight years, and a warhead section which was more than

two years old.

For the Little John, it marked the graduation firing exercise for a new team of soldiers trained to operate the trusty little rocket any where it might be needed in the Free World.

Looking over the shoulders of the troops during brief pre-launch activities were engineers and technicians representing the rocket system's commodity office and two of the Missile Command's major directorates.

As one of them put it during countdown: "This is the final proving ground of the work we do at the Missile Command."

The tandem firings illustrated

how the work of the missilemen at the Missile Command continues through the time when a weapon is proved reliable through extensive testing programs and handed to soldiers ready for deployment.

On hand to meet soldiers handling the weapons were Donald Williams, of Lt. Col. F. C. Gay's Honest John/Little John Commodity Office; Edwin Kellis, of Col. E. C. Lou's Procurement and Production Directorate; and W. D. Wood, Jr., of Col. R. W. Van Wert's Directorate of Supply and

Maintenance.

Both of the rockets were fired by soldiers wearing camouflaged steel helmets and swinging M-1 rifles from their fatigue-clad shoulders. The two rounds were fired within 15 minutes of each other.

For the Missile Command engineers and technicians, the dual firings of the solid-propellant rockets climaxed two days of talking with soldiers as they handled the missile hardware in the field under simulated tactical conditions.

Operating under simulated tactical conditions, soldiers of the 3rd Missile Battalion of the 32nd Artillery established their Honest John firing site and off-loaded the missile in sections from a truck.

Following the mating of the

warhead to the rocket's motor section, the projectile was moved to the firing site by its highly-mobile launcher vehicle.

Soldiers camouflaged the rocket firing site with a massive green net, much like those which break the profiles of standard artillery emplacements during wartime.

From a firing pit a short distance away, soldiers began their countdown with impressive confidence. It was the same unit which earlier this year fired a demonstration Honest John round for President John F. Kennedy at White Sands Missile Range, New Mexico.

With ease and without interruption, the soldiers twice advanced their countdown, with all sections performing flawlessly. Seconds before launch, the camou-

(Continued on Page 5)



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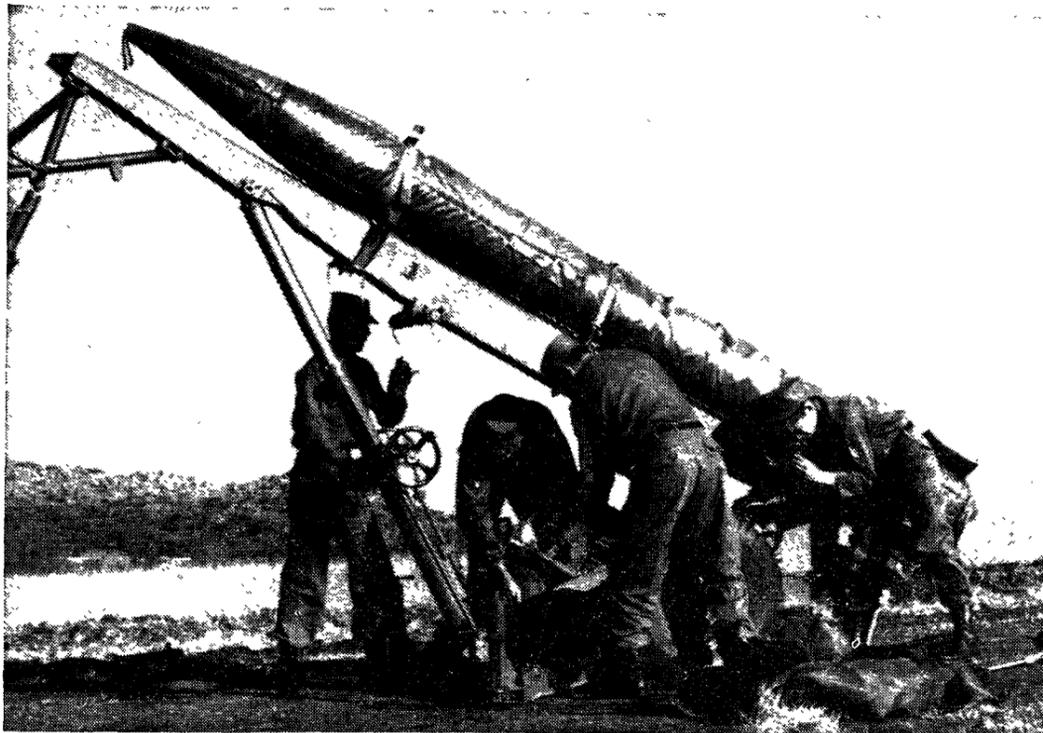
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**LITTLE JOHN READIED**—Soldiers prepare the highly mobile Little John free flight rocket for launch over the rolling hills of Fort Sill, Okla. The missile is wrapped in blankets for environmental control prior to firing. Last week at Fort Sill, soldiers fired both the Little John and the Honest John in tandem flights illustrating effectiveness and reliability.



**MAJOR PROMOTED TO E-8**—Major D. Crosby (that's his real name) is being congratulated on his promotion to E-8 at the Army Missile Support Command. Col. Thomas W. Cooke, Commander, holds up the armful of stripes Crosby will wear while the Sergeant is congratulated by Col. W. F. Register, Deputy Commander. Crosby is in the office of Assistant for Personnel and Administration of AMSC. He is a native of Alma, Georgia.

**HONEST JOHN**

(Continued From Page 5)

flage net was yanked to the ground by soldiers who raced across the short grass to the firing pit.

Old reliable Honest John flashed off its launcher like a bolt of lightning. It left a cloud of dark smoke hovering over the rolling grassland.

As the rocket streaked into the clear Oklahoma sky on a medium range mission, Lt. Col. Eff W. Birdsong, Battalion Commander, said, "With Honest John it is always the same.

"That rocket is ready at a moment's notice. That motor had been in storage for eight years. It seems to improve with age."

Five minutes later, the soldiers who had fired the rocket had gathered their equipment and moved out of the area, leaving hardly a trace that a tactical rocket unit had ever occupied the location.

The firing unit moved a few hundred yards away to an observation point where they could watch the Little John launch.

Meanwhile, Missile Command officials were given a briefing on a simulated tactical situation. The Little John would be fired under realistic conditions by troops of the 1st missile section of the 18th Artillery.

Moments later, the Little John spun on its rail launcher for a moment, and streaked out of sight toward a target about 10 miles away.

The Honest John is capable of carrying either a nuclear or non-nuclear punch and retains the accuracy of the standard artillery weapons. Since deployment of the missile system, Honest John has undergone substantial improvement which has reduced the system's weight, shortened its length and increased its range.

The Little John, one of the Army's most advanced free-flight

**Early-Outs For Christmas, New Year OK'd**

Washington (AFPS)—Early separation is assured for certain personnel who become eligible for normal separation during the Christmas-New Year period.

Separation processing will begin Dec. 9 for Army, Navy and Air Force personnel whose normal expiration of active obligated service is from Dec. 14 through Jan. 5.

Army and Air Force non-regular officers and regular and non-regular enlisted men are affected by the early separation.

Navy enlisted personnel and Reserve officers are affected.

Marine Corps enlisted personnel and Reserve officers, whose normal separation date is Dec. 15 through Jan. 6 will begin processing Dec. 10.

Eligible for early release are personnel stationed within the continental United States or in their area of residence outside the United States, including the commonwealths, dependencies, trusts, and the states of Alaska and Hawaii, and personnel returning from overseas for separation.

Personnel excluded from consideration for early release include aliens seeking to qualify for U. S. citizenship by completion of three years' active military service and reservists undergoing six months active duty for training under existing regulations.

Each service has outlined eligibility rules which must be met to

rocket systems, is highly mobile and packs the explosive power of heavy artillery. It also has both the nuclear and non-nuclear capability and is most representative of the "shoot and scoot" philosophy.

The Little John is easily transported by vehicle or helicopter. Both the Honest John and the Little John have been deployed in this country and abroad.

qualify for early release. Complete information can be obtained from service personnel offices. The early release policy is dependent on international developments.

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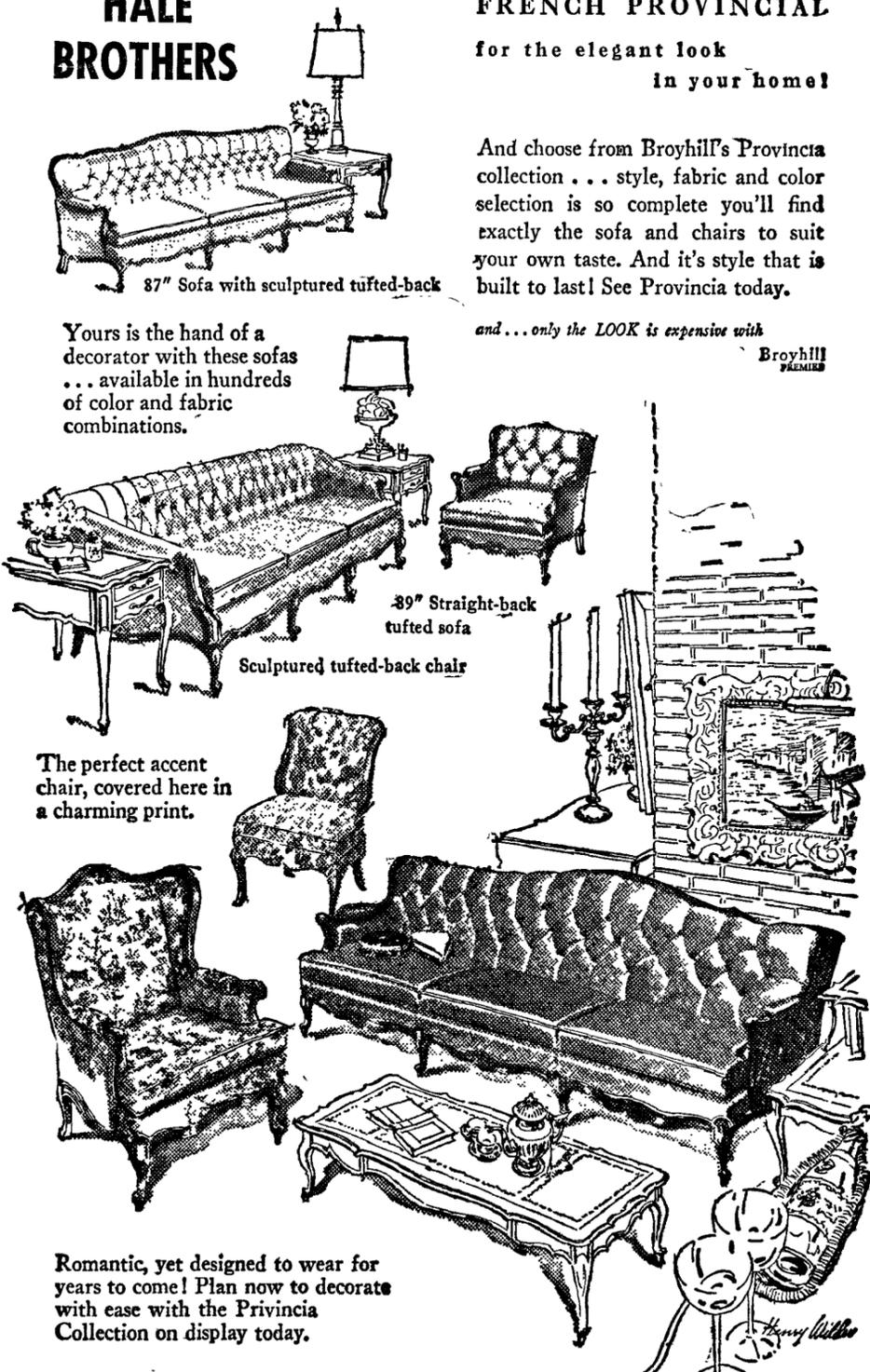
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**WYATT EARP, ARMY STYLE**—Wade H. Ewart, chief of the Engineering Requirements Coordination Office in the Army Missile Command's Directorate of Research and Development, puffs imaginary smoke from the barrel of a .45 automatic which earned him the three trophies on the right at the recent Florida Fall Pistol Matches in Jacksonville, Florida. The trophy on the left was for .22 caliber fire.

## Wade Ewart's Pistols Win In Florida Matches

One member of the Army Missile Command's Directorate of Research and Development gets destructive urges when he sees the rings and black center of a target on the pistol range.

Wade H. Ewart, chief of the Directorate's Engineering Requirements Coordination Office, surrenders to the urge and shoots them full of holes, with a big percentage of the holes appearing in the center.

Ewart has been shooting in matches for the past three years, but his best results came from the recent Florida Fall Pistol Matches held in Jacksonville. He brought back four trophies in the Marksman Category from this event. This included one trophy representing five matches in the .45 caliber division, one trophy in the .22 caliber division, one for top Military Marksman at the competition, and one for winning the IV U. S. Army Corps Mississippi, Florida, and Alabama Reserve Marksman Competition.

Besides the four individual trophies, Ewart was a member of the four-man team representing the Alabama Sector of the Fourth

U. S. Army Corps, which came in second in the team matches. Ewart is senior ordnance instructor at the 3392nd U. S. Army Reserve School in Huntsville, holding the rank of lieutenant colonel.

Ewart broke into the win column in pistol-shooting competition in March of this year with a second-place plaque at a match in Coral Gables, Fla. Since then, he has won cash awards as well as trophies in several major matches in the Southeast, all under auspices of the National Rifle Association.

"Pistol shooting is definitely a young man's game, because the extended arm gets more shaky as the years pile up," Ewart said. "When I first started shooting, I promised myself I'd quit if my scores didn't continue to improve."

Though the years have increased since Ewart made himself that promise, so have his scores. The combined total of his scores in the last match was more than 100 points better than he had fired previously.

## Pointers Win First Field Trials At Redstone Arsenal

Pointers won all the stakes at the field trial held Saturday and Sunday on Redstone Arsenal. However, of the 43 entries, only five were setters. The Tennessee Valley Field Trial Club sponsored the event, the first field trial ever held on the arsenal.

Puppy stake winners were: The Ranging Spaceman, first, owned and handled by John Warmbrod, Madison; Electra, second, owned and handled by Bill Bailey, Gunterville; and Montlake Mary, third, owned and handled by Bill Weeks, Chattanooga.

Grover Brisco's Mack won first in the derby class. Brisco is from Arab. Second place in the derby went to Sport, owned and handled by Ernest Hagadore, Arab, and third was won by Satilla Ben Casey, owned and handled by Wayne Ivey, Huntsville.

All age stage winners were:

Montlake Ivan, first, owned and handled by Bill Smith, Chattanooga; Montlake Sport, owned and handled by Bill Weeks, Chattanooga; and Rambler's King, third, owned and handled by W. D. Copeland, Cullman.

In the sporting dog stake, winners were: Bee, first, owned and handled by Jack Bradford, Lacey's Spring; Warhoop's Spunky Jake, second, owned and handled by Guy Lecroy, Gadsden; and Warmbrod's Baby Lou, third, owned and handled by John Warmbrod, Madison.

The judges were Pete Day and John Manning, Clarksville, Tenn. The sponsoring club plans a couple of "fun" trials before the big Spring trial. No definite plans have been made for these.

The unseasonably warm weather over the weekend was not ideal for the trial, and some dogs which had not been worked extensively this Fall fell back in the trials because they were not hardened enough to run the full course.

Both judges and participants were enthusiastic about the grounds provided by Redstone Arsenal officials.

## Sports By Colbert

# Hornets Sting Packers To Reach Top Of Heap

The Hornets from Hq. Troop Command downed the A&B Co. Packers 32-20, Oct. 23, thereby moving into first place in the final round of the Redstone Arsenal Football League.

Good ball carrying and fine passing gave the Hornets a twenty-four point lead in the first half.

The second half saw the Packers come alive by picking up three touchdowns, while allowing only one. The Packers had a good drive going in the half but time was against them and they finally succumbed to the Hornets.

The Packers taking the kick-off in the first half looked good. They moved the ball from their own thirty-three to the Hornet twenty-seven yard line in three first downs.

With the ball resting on the Hornet twenty-seven, Halfback Al Elliott, going off left tackle, slammed his way into the end zone but an off-side penalty against the Packers nullified the play. The Packers, trying again, fumbled on a hand-off and Bob Scassellati, right-tackle for the Hornets, recovered. Capitalizing on the fumble, the Hornets picked up five consecutive first downs moving the ball to the Packer three yard line.

Quarterback, Bob Harris, on a keeper then plunged in for a Hornet T.D. Going off right guard, Fullback Vince Vilhani, picked up the extra two points making it 8-0, Hornets.

In the second quarter on a third down play by the Packers, left-end Dan Gruber, intercepted a pass on his own forty yard line and raced down the side line for a Hornet touchdown. On the try for two extra points, Chet Poff, going off left tackle, made the score 16-0 for the Hornets.

With about a minute and forty seconds to go in the half, the Packers were forced to kick from

deep in their own territory. Jim Robbins, Hornet right-guard, then blocked the kick which was recovered by one of his teammates, Charlie Burns. Shortly after, Harris taking the snap from center Cliff Wright, threw a touch-down pass to Gruber, who was all alone in the end-zone. Again the try for two points was good when Harris hit his right-end, Bob Reynolds, making the score 24-0 at halftime.

In the second half the Hornets received the kick from the Packers and ran the ball back to their own forty yard line. Then on a first down play, tackle Bill Snyder recovered a Hornet fumble and the Packers took possession of the ball on their own forty-eight yard line. On another first down play, quarterback Vince Ghionni handed off to Elliott who, going off left-tackle, mauled his way through the Hornet line and

broke into the open to go for a T.D. On the try for two extra points, a pass was thrown short and the score remained 24-6.

Later in the third quarter the Hornets got possession of the ball when the Packers were forced to kick on fourth down. On three first downs the Hornets moved to the Packer twenty-eight yard line. Then from the twenty-eight, Harris threw a pass to Reynolds who was standing right on the goal line. Another pass from Harris, this time to Gruber, for the extra points made the score 32-6.

In the fourth quarter the Packers had the ball on their own thirty-eight yard line when quarterback, Davis threw a pass to his right-end, Win Bulle, who couldn't hold on to the ball. Coming back with the exact same play on the next down, a determined Bulle, held on to the ball to complete a forty-three yard pass play. On two plays from the nineteen, the Packers moved to the Hornet five yard line. Then from the five, halfback Chuck Henson, took a hand-off from Davis and went in for six points. Ghionni on a keeper, picked up the two point conversion making the score 32-14, in favor of the Hornets. Later in the quarter, the Packers

(See HORNETS on Page 7)



**POOL CHAMP AGAIN**—PFC Donald F. Neals of Hq. & Hq. STC along with his Commanding Officer, Lt. Burt R. Mann hold the trophy for winning the 1963 Post Wide Pool Tournament. This is PFC Neals second time around as Arsenal Pool Champion.

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# Scoreboard

## SATURN BOOSTER LEAGUE "A" DIVISION

Team	Won	Lost
Black Forest Lounge	27	5
Spaco	19	13
Lockheed (RIFT)	18	14
Martin Company, Mfg. Div.	17	15
Republic Aviation	17	15
Hilding Holmberg	17	15
Hayes Top Seven	16	16
Hall's 66 Serv. Sta.	16	16
Garnett Airesearch Corp.	13	19
C. W. Stewart Machinery	13	19
Brunson Instruments	11	21
Hayes Ex-Cons	8	24

200 GAMES:  
Moore, 202; MacDonald, 203; Haney, 214; Magnant, 223; Terry, 236.

## "B" DIVISION

Team	Won	Lost
Arrowhead Products	23	9
Redstone Fed. Credit	21	11
Pin Palace Lanes	20	12
Norris-Riddle Furn.	19	13
All Sports Trophies	19	13
Hayes Designers	14	18
Modern Machinery	14	18
Progressive Welders	14	18
Redstone Mach. & Tool	13	19
Terry Heights Cleaners	12	20
RCA	12	20
Reba's Bowling Apparel	11	21

## ENLISTED MEN MIXED LEAGUE

Team	Won	Lost
No. 4	24	4
No. 8	16	12
No. 1	15	13
No. 2	14	14
No. 5	12½	15½
No. 3	12	16
No. 6	10	18
No. 7	8½	19½

## SCHOOL TROOP COMMAND

Team	Won	Lost
Bisons	21	3
Raiders	18	6
Co. "C" No. 1	14	10
Pop Tops	12	12
Pin Pickers	10	14
Co. "C" No. 2	8	16
Five Aces	8	16
Hq. STC	5	19

## RSA OFFICERS WIVES LEAGUE

Team	Won	Lost
Merry Mrs.	15	9
Who Cares	14	10
Gamblers	13	11
Team No. 1	12	12
Poor Excuses	11	13
Misfits	11	13
Team No. 2	11	13
Crazy Eights	9	15

## THURSDAY MORNING LADIES LEAGUE

Team	Won	Lost
Splits	11½	4½
Tryettes	10	6
The U. N.	9	7
Roaring Trio	8½	7½
Terrific Trio	8	8
Old Timers	7	9
Gutter Dusters	5	11
Youngsters	5	11



**BOWLING CHAMPION** — Capt. Irvin W. Gulbranson bowled the highest three games of a scratch series ever bowled at Redstone Arsenal. He had a high of 693, bowling 233, 264 and 196. Capt. Gulbranson is in the American-Canadian Officer League this season.

## Roaring Trio—1265

High Team Game:  
Roaring Trio—460  
High Ind. Series:  
E. Taorimino—513  
High Ind. Game:  
E. Taorimino—214

## OGMS OFFICERS LEAGUE

Team	Won	Lost
Rounders	16	8
Zeros	15	9
Bohunks	13	11
Bowl Weevils	11	13
Admin	11	13
Missile Comp. Division	6	18

High Team 3 Games (Scratch):  
Bohunks—2488  
High Team Game:  
Rounders—873  
High Ind. Game:  
Furgerson—225  
High Ind. 3 Games:  
Webb—573

## RSA OFFICERS MIXED LEAGUE

Team	Won	Lost
D-Yanks	42	12
Redstones	34	20
Bombers	34	20
Bowl Weevils	29	25
Pin Droppers	23	31
D-Doms	20	34
Hi Counts	19	35
Baby Splits	15	39

High Ind. Average (Scratch):  
S. Lewis—182 (Men)  
B. Payne—158 (Women)  
High Ind. Series:  
S. Lewis—622 (Men)  
B. Payne—518 (Women)  
High Ind. Game:  
S. Lewis—247 (Men)  
B. Payne—217 (Women)  
High Team 3 Game Series:  
D-Yanks—3908  
High Team Game:  
D-Yanks—729

## AMERICAN BRITISH CANADIAN OFFICERS LEAGUE

Team	Won	Lost
Blackjacks	32	8
S-Wonners	31	9
Wheezers	26	14
Lucky Strikes	23	17
Hopefuls	20	20
Pin Splitters	14	26
AF Jupilos	12	28
Maulers	2	38

High Team 3 Games Series:  
(Scratch): Lucky Strikes—2596  
High Team Game:  
Lucky Strikes—904  
High Ind. Series:  
Kidd—611  
High Ind. Game:  
Verry—258  
High Ind. Average:  
Boyer—179  
High Ind. Average:  
Thompson—179

## RSA OFFICERS LEAGUE

Team	Won	Lost
Mets	16	8
Spoilers	15	9
Robbers	15	9
Bandits	14	10
Alleycats	12	12
Medico No. 1	11	13
Procure-Mites	7	17
OGMS	6	18

High Team 3 Games (Scratch):  
Mets—2476  
High Ind. 3 Games:  
Drissel—634  
High Team Game:  
Bandits—864  
High Ind. Game:  
Thureson—234

## BANTAM LEAGUE

Team	Won	Lost
No. 2	10	2
No. 5	9	3
No. 3	9	3
No. 8	6	6
No. 4	5	7

# RAZORBACKS 'TAKE' HUSKIES

Highlights in the Friday night Little League game saw the Razorbacks offense explode into top form with Dick Tate intercepting a Huskie pass for a touchdown, then passing to Mike Collins and Dan Brown for two more, as the Razorbacks extended their lead to four wins and zero losses.

Not to be outdone, the Huskies came back to score the first touchdown of the season against the stout Razorback defense in a losing battle. The final score was 19-6.

Outstanding play for the offense of the Razorback team saw Tate, Collins and Brown, while Howell, Neil and Justice held the defense.

McIver and Sunberg made up the Huskie defense, as Mosley, Golden and Handy teamed for their lone score.

Team	W	L
Razorbacks	4	0
Huskies	2	2
Bulldogs	0	4

No. 7	5	7
No. 1	2	10
No. 6	2	10

High Average:  
Thompson—110 (Boys)

High Game:  
Harris—164

High Average:  
Quanty—100 (girls)

High Game:  
Boyer—126

# HORNETS

(Continued From Page 6)

picked up another touchdown on a pass to Elliott from Davis on the thirty-six. The try for two points failed and the score with three minutes to go was 32-20.

Neither team threatened for the remainder of the game and the Hornets came jubilantly off the field with a victory.

Aside from those mentioned above, outstanding play was also observed of the following: Gerald Ashmore, Tom Shannon, George Higdon, Bob Scassellati, Jim Robbins, Oscar Young and Cliff Wright all of the Hornets. Also from the Packers there was: George Jones, Bill Snyder, Dick Gilbert, Harold Johnson and John Brewer.

## FOOTBALL LEAGUE STANDINGS

Oct. 24

Team	Won	Lost	Pct.
Hq. Troop Command (Hornets)	2	1	.666
Hq. UTC (Crusaders)	1	1	.500
Co. A&B (Packers)	1	2	.333

On the schedule tonight is Hq. UTC (Crusaders) Vs. Hq. Troop Command (Hornets). The time will be 7 p.m.

On Nov. 16, the Redstone Rockets will play host to the Ft. Knox Tankers at Redstone Arsenal.

The time is still pending but notice will be published in the next week's paper.

Also on Nov. 28, the Redstone Rockets will take on the Decatur Rough Riders at 2 p.m.

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## Signor To Talk To Tool Engineers

The American Society of Tool and Manufacturing Engineers will meet Nov. 5 at 6 p.m. in the Pin Palace Banquet Room to hear Richard W. Signor and see the movie "Sketch Pad II."

The evening begins with a social hour followed by dinner and the technical session.

T. D. Nichols, 876-1894, and Harold McMurrin, 539-0781 are handling reservations.

Signor is an engineer and mathematician. He earned degrees in both fields at the University of Michigan. At present he is in the Numerical Control Unit, Computation Division, of the General Electric Company's Flight Propulsion Laboratories in Cincinnati.

## Fantasy Seeks Helpers

Fantasy Theater is still seeking stage technicians, costume makers, stage and property handlers, make-up experts and publicity types for "Beauty and the Beast" to be presented in the middle of December.

Fantasy is the children's theater group in Huntsville, but is not limited to children alone—it includes the young in heart.

Casting is taking place this week at the Arts Council Building at 311 West Clinton Street—the old West Clinton School. Fantasy's phone number is 539-2592.

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## Arts And Crafts To Be Emphasized November 1 to 7

Army Arts and Crafts Week will be observed the first week of November at Redstone Arsenal.

The Special Services Officer, who is in charge of the Arts and Crafts program, announced that Open House will be held at the Craft Shop in Bldg. 3617 between 1 p.m. and 4 p.m. Nov 5. He is Capt. Paul N. Boyer.

He said that the Craft shop has a well-trained staff on duty to assist all active duty and retired military personnel and their dependents with projects in such fields as ceramics, electronics, woodworking and photography.

## MRS. COBBAN, LT. CROWDER WIN AT BRIDGE

Seven tables of players competed at Monday night party bridge last week at the Squirrel Hill Officers Club.

Winners for the women were Mrs. A. M. Cobban and Mrs. A. J. Matthews; for the men were Lt. George Crowder and CWO Eugene

## Army Daughters Give Nursery Toys

The Army Daughters have restocked the Rocket Nursery with toys recently, turning them over to Capt. Frank Norvell.

The group asked The Rocket to thank everyone who contributed to the drive's success.

Active in the drive were Mrs. Barbara Felber, Mrs. Jane Lewis, Mrs. Frank Norvell, Miss Nancy Neilson, Mrs. Jean Vincent, Mrs. Betty Waldrop and Mrs. Sandra Richter.

## Births At Post Hospital

Renee Eileen Wellwerts, 6 lbs. 6¼ ozs., Oct. 15, daughter of Sp/4 and Mrs. Frank L. Wellwerts.

Scott Wayne Allrich, 7 lbs. 1oz., Oct. 16, son of Pfc and Mrs. Roy D. Allrich.

Tamara Louise Johnson, 7 lbs. 5ozs., Oct. 16, daughter of Sp/6 and Mrs. Jesse F. Johnson.

Gregory Adam Crane, 8 lbs. 4 ozs., Oct. 16, son of S/p5 and Mrs. Leonard S. Crane.

Beate Ludwina-Leona Bloss, 8 lbs. 2½ ozs., Oct. 18, daughter of Sfc and Mrs. Horst Bloss.

Wanda Faye Sligh, 6 lbs. 7¼ ozs., Oct. 18, daughter of Sp/4 and Mrs. Therford Sligh.

Richard Quinten Love, 6 lbs. 9 ozs., Oct. 18, son of Pfc and Mrs. Richard C. Love.

Sandra Lynette Smith, 5 lbs. 6½ ozs., Oct. 21, daughter of S/p5 and Mrs. James E. Smith.



**FAREWELL RECEPTION**—Five couples were in the receiving line Saturday night representing 120 years plus of Army service before retirement of the five officers becomes effective at midnight tomorrow night. Left to right are Col. and Mrs. Lee B. James, Col. and Mrs. Foster L. Furphy, Col. and Mrs. Oliver M. Hirsch,

Col. and Mrs. Edward R. Billings, and Lt. Col. and Mrs. Earl J. Dotson. More than four hundred people turned out to wish them well in their new lives. The reception was held in the ballroom of the Squirrel Hill Officers Club.

## BRIDGE PLAYERS COMPETE

Winners of the Bridge Group competition sponsored by the

Krembs.

The week before Mrs. R. R. Scott and Mrs. Krembs were high for the women, Lt. Peter Iber and J. C. Billings for the men.

Mrs. Iber handles reservations to play with the group.

Redstone Arsenal Officers Wives Club Thursday at the Squirrel Hill Officers Club were Mrs. James T. Bull, first, Mrs. Robert U. Scott, second and Mrs. Edward Schorsten, third.

Mrs. Schorsten, 539-6893, handles reservations to play with the group which meets at the Club at 10 a.m. each Thursday morning.

Last week's meeting drew six tables of players.

## Country Set



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**SECRETARY SEES MACHINE**—Asst. Secretary of Defense Thomas D. Morris visited the Missile Command last week to see a data retrieval systems under development here. With him are Brig. Gen. Howard P. Persons, Jr., Deputy Commanding General for Air Defense Systems; and Brig. Gen. John Goshorn, Deputy Director of Procurement and Production of the Army Materiel Command. The system, result of a year of development work, will enable missile design engineers to rapidly find parts cataloged in the Federal Supply System.

**Col. Gude Named Project Manager For Helicopters**

Lt. Gen. F. S. Besson, Jr., Commanding General, U. S. Army Materiel Command, has appointed Lt. Col. Joseph L. Gude as Project Manager for the Light Observation Helicopter (LOH).

In this assignment Col. Gude is responsible for developing, pro-

ducing, and providing our troops with the LOH which has been referred to as an aerial jeep-type aircraft utilized for observation, reconnaissance, and transportation of command and staff personnel.

It is the first small helicopter of this type used by the Army with a turbine engine. Serving in this key position within the Army Materiel Command, Col. Gude will report directly to Gen. Besson.

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**At The Service Club**

By: Brenda Hanson

This week we have heaps of fun and recreation lined up for

you. We slowly go into the holiday season. Get yourself in the spirit to celebrate by coming to the Halloween Costume Dance. If you haven't already, you should start digging out a disguise. A costume is not mandatory for admittance, but let me assure you

that those who come in costume have more fun.

Prizes will be given to the first and second place winners. Judging will be based on originality and imagination. So be sure not to miss this occasion. The Clifford Barnes Orchestra will furnish the music.

Friday night, we start November with a ping pong contest at 8 p.m. Prizes will be given to the winner.

Saturday, a card party will be the event for the day. Prizes will be given to the winners.

Sunday morning coffee and donuts will be served from the kitchen at 9 a.m. Then, at 8 p.m., the Charlie Lyle Orchestra will sound the opening note for the Autumn Serenade beginning at 8 p.m. We invite all of you to come out.

Monday is the night for the evening of games. We have an interesting array of prizes.

Tuesday night dance classes are held. Instruction is free. We extend an invitation to everyone of you, especially the girls.

That's all for this week. Keep an eye on this column for the coming events.

A sneak peak in Betty's little red book, shows a variety of programs for November. Included are ice skating parties, a turkey trot dance, and a Hootenanny featuring the King's Men. The last Hootenanny was a real success. So if you didn't get to see the King's Men this is your chance.

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**SPONSOR AND HOST TALK THINGS OVER**— Col. Daniel F. Shepherd (second from right) head of the Army Missile Command's Directorate of Research and Development, relaxes a few minutes with Col. Nils M. Bengtson, Commanding Officer of the Army Research Office, Durham, N. C., during a break in the Ninth Conference on The Design Of Experiments In Army Research, Development and Testing. The conference was held at Redstone Arsenal with the Missile Command as host and the Research Office as sponsor. With them are Dr. F. G. Dressel, (second from left) Army Research Office; and John L. McDaniel, (right) Technical Director of the R&D Directorate.

## Design Of Experiment Conference Ends Friday

More than 225 engineers and scientists from industry, the military services, government agencies and educational institutions Friday concluded the Ninth Conference on the Design of Experiments in Army Research, Development and Testing at Redstone Arsenal.

Sponsored by the Department of the Army's Mathematics Steering Committee, the three day meeting was packed with general, technical, and clinical sessions covering the broad areas of mathematics and statistics with emphasis on research, development and testing in the missile and space fields. The Army Missile Command's Directorate of Research and Development was host for the conference which is an annual meeting arranged by the U. S. Army Research Office, Durham, North Carolina.

Brig. Gen. Howard P. Persons, Deputy Commanding General of the Army Missile Command for Air Defense Systems, welcomed the visitors at the first morning session.

Col. Daniel F. Shepherd, head

of the Missile Command's Directorate of Research and Development, called the meeting to order at the Redstone Arsenal's Rocket Auditorium.

The first general session opened under the chairmanship of Col. Nils M. Bengtson, Commanding Officer, Army Research Office, Durham, N.C. Dr. Frank Proschan, Boeing Scientific Research Laboratories, and Prof. Solomon Kullback of George Washington University, filled out the morning program. They were two of six major speakers invited to address the conference.

Other invited speakers participating in four general sessions and the concurrent technical and clinical sessions over the three day period were Dr. Churchill Eisenhart, National Bureau of Standards, Washington; Prof. H. O. Hartley, Texas A&M College; and Prof. David B. Duncan, Johns Hopkins University.

Main speaker for the three day conference was Dr. Craig M. Crenshaw, Chief Scientist of the Army Materiel Command, Wash-

ington. He addressed the banquet meeting Thursday night, being introduced by John L. McDaniel, Technical Director of the Missile Command's Directorate of R&D.

In addition to the invited speakers, the conference heard papers and discussions by some of the nation's outstanding engineers and scientists connected with Government, industry and educational institutions working on research, development and testing programs.

This was the first time that the annual conference has been held at Redstone Arsenal. The end of the working session, the visitors were given a tour of the Army's missile and rocket center and facilities of the Marshall Space Flight Center.

## Movie Schedule

WEDNESDAY, October 30  
"The Pleasure of His Company" (M-YP)

THURSDAY-FRIDAY, October 31 and November 1  
"Take Her, She's Mine" (M-YP)  
INCREASED ADMISSION:  
Adults 40c

SATURDAY, November 2  
"Gunfight at Comanche Creek" (F)

SUNDAY-MONDAY, November 3-4  
"Twilight of Honor" (M)

TUESDAY, NOVEMBER 5  
"The Playgirl and the War Min-

## HUNTSVILLE PLANT OPENS

FARMINGDALE, N. Y. — Republic Aviation Corporation reported that it is establishing an engineering facility at Huntsville to provide an on-site working relationship with the Marshall Space Flight Center and the Army Missile Command.

Manager of the new facility will be Simon R. Sinnreich, who has been chief weapons system analyst for missile systems programs at Republic. He is a graduate of West Point and Princeton University Graduate School.

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

Page 10 The Redstone Rocket — October 30, 1963



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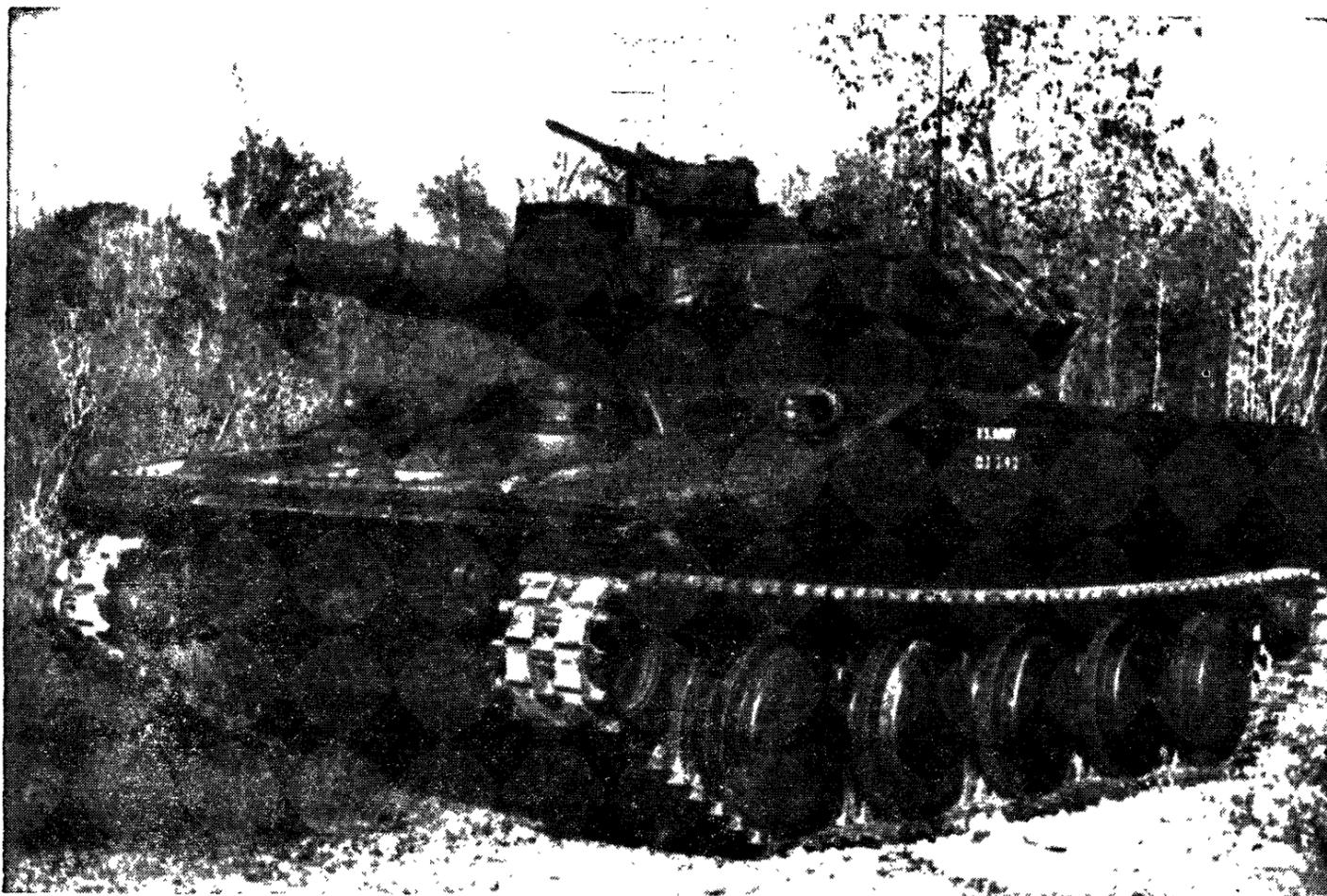
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**GENERAL SHERIDAN** — The Army's new General Sheridan armored reconnaissance vehicle was shown to the public for the first time at the AUSA convention last week. The lightweight, air transportable vehicle can fire either Shillelagh guided missiles or conventional rounds from its stubby 152 mm gun launcher. Carry-

ing a crew of four, the Sheridan is the Army's first armored vehicle designed to fire a guided missile as its main armament. Development of the Shillelagh missile is supervised by Project Manager's Missile Engineering Division here at Redstone Arsenal.

## Shillelagh Spitting Sheridan Shown To AUSA

Washington, D. C.—The Army introduced its brand new General Sheridan armored reconnaissance vehicle here last week, the first armored vehicle firing guided missiles as part of its main armament.

Newsmen attending a press conference at the annual convention of the Association of the U. S. Army, were told by Lt. Gen. F. S. Besson Jr., CG, Army Materiel

Command, that the Sheridan could fire either the Shillelagh guided missile or a conventional round from its stubby 152 mm gun launcher.

E. R. Edmundson, chief of the project manager's Missile Engineering Division here at Redstone, was a participant in the program which featured a film showing both the new combat vehicle and the Shillelagh missile in action.

Newsmen whistled in surprise at close-up portions of the film showing the Shillelagh cutting the centers from bulleeyes on stationary and moving targets.

Col. Wayne G. Higgins, AMC project manager of the Sheridan/Shillelagh, introduced Edmundson, other key project personnel, and members of the contractor team at the press conference which highlighted first day ac-

tivities at the AUSA convention.

The new vehicle was designed and is under development and pilot production by the Cadillac Division of General Motors. Development and advance production engineering of the Shillelagh missile is being performed by the Aeronutronics Division of Philco Corporation.

Shillelagh has undergone a series of successful tests at White

Sands Missile Range and in Alaska.

Weighing about 16 tons, the Sheridan features new aluminum armor, a diesel engine and a new transmission. It is intended to replace the M41 light tank and the M56 anti tank weapon. Although relatively light, the Sheridan—with its missile conventional round one two punch has a firepower capability greater than current standard tanks. It can be air dropped and is capable of fording and traversing inland waterways.

Reminding the group that General Sheridan was affectionately called "Little Phil" by his men, General Besson said:

"All of us hope this system will never have to be used in combat, but if it is, I am sure it will prove a bitter 'Phil' indeed to the enemies of this country."

General Sheridan's 11 year-old great grandson, Philip Sheridan McElroy and his mother, Mrs. Paul McElroy, the General's granddaughter, unveiled the new combat vehicle in a brief ceremony held outside the Sheraton Park Hotel where the AUSA convention was in progress.

In addition to the Missile Engineering Division here at Redstone, other Army installations contributing to the new weapons system include Watertown Arsenal which provides missile containers.

A number of prototypes of the new vehicle have been built and are undergoing tests. Shillelagh firings are continuing at White Sands.

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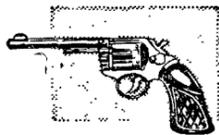


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# INCENTIVE AWARDS

**Suggestions**

**Edwin R. Bledsoe**, Army Missile Command, \$15 award — this suggestion resulted in a disposition form being distributed to each employee of the Directorate of Supply & Maintenance to inform them of the location of first aid kits and the names of the employees responsible for maintaining the kits.

**George W. Dyess**, Army Missile Command, \$15 award — this suggestion resulted in a procedure being published to govern the transfer of original MICOM drawings to insure their transmittal through the Documentation Branch, Directorate of Procurement & Production, prior to shipment off post.

**Frank L. Macomber**, Army Mis-

sile Command, \$15 award—this suggestion resulted in a concrete ramp being installed at the entrance of the test cell in building 4500 to facilitate the moving of items into and out of the cell.

**Mary F. Holmgren**, Army Missile Command, \$15 award—this suggestion resulted in a form for listing FSC Class, document number and type of interest to be attached as an inclosure to information forwarded to AMC by MICOM each month. Savings are estimated at \$131 for the first years usage.

**Clyde J. Lincoln**, Army Missile Command, \$15 award — this suggestion resulted in the area immediately in front of the hydraulic and pneumatic control room in building 4500 being utilized as a

storage area for equipment previously stored in the control room.

**Joseph C. Faison**, Army Missile Command, \$15 award—this suggestion resulted in concrete car stops being replaced, broken glass being removed from the grounds and steps being added to building 7446.

**Charles E. Stubbs**, Army Missile Support Command, \$25 award —this suggestion resulted in the mounting belts on "J" box being welded to the mounting plate as an addition to MWO J29-W5.

**Harmon Kelley**, Army Missile Support Command, Letter of Appreciation—this suggestion resulted in a Teflon Stopper and rubber disc to replace all defective rubber stoppers used with Bottle Assembly 8166015 and 8030012 containing UDMH starting fluid.

**Graham L. Shovelton**, Army Missile Support Command, Letter of Appreciation—this suggestion resulted in the PMA's discussing with the hiring supervisors the

possibility of hiring all temporary Clerk-Typist at the GS-2 level and Clerk-Stenographers at the GS-3 level.

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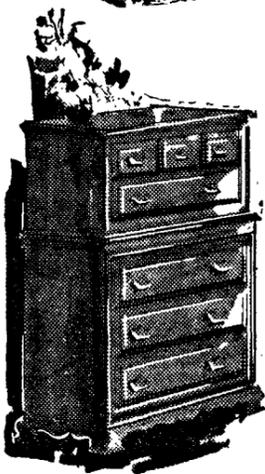
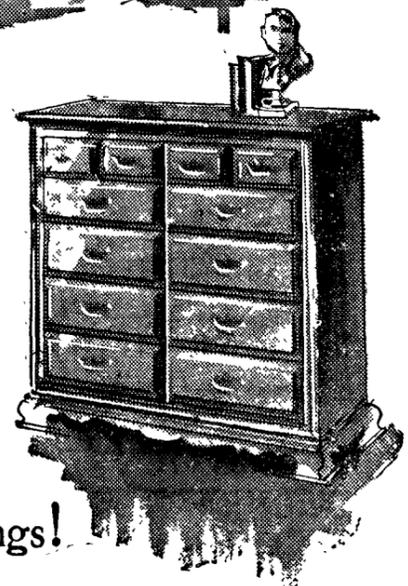
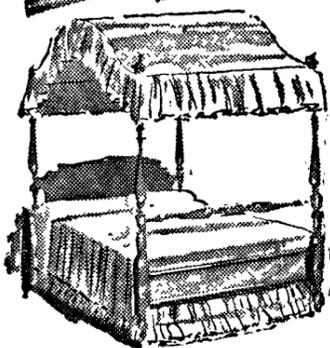
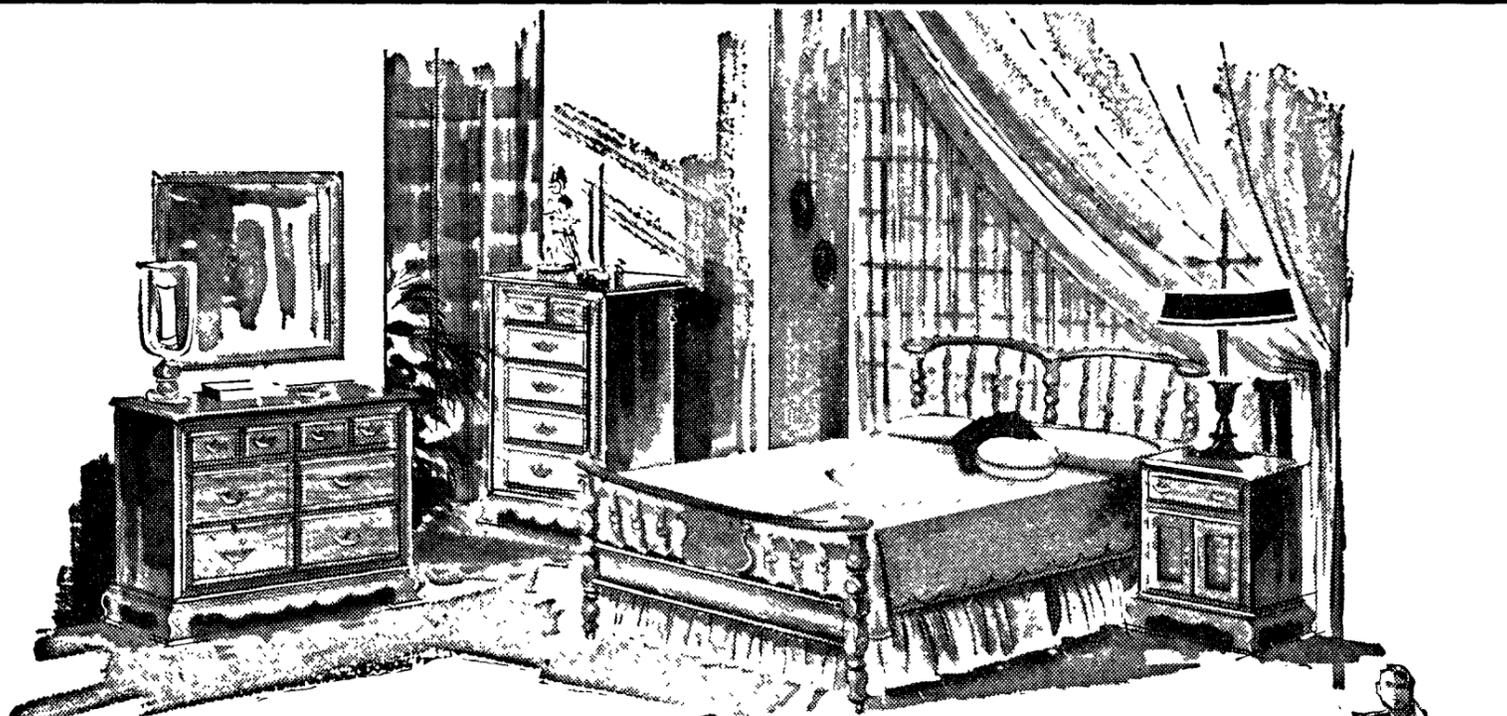
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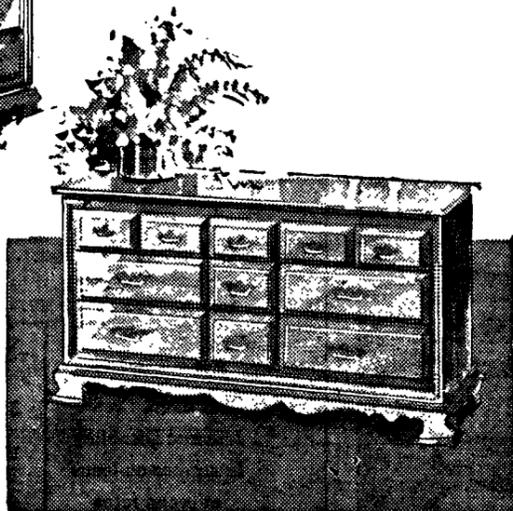
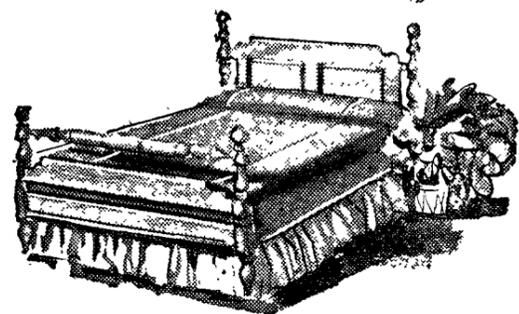
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# Supervisors Study AFGE Support Command Rules

Every first line supervisor in the Army Missile Support Command is receiving a bit of "school days" as supervisors enter the classroom for a one-day session dealing with the recent AMSC-Lodge 1858, AFGE agreement. The orientation class is designed to assist the supervisors in their implementation of the agreement into shops and offices.

Each of four days of classes which include lectures and a panel discussion are opened by Col. Thomas W. Cooke, Commander, AMSC. The day's subjects include the regulatory requirements of the agreement, explanation of negotiation process, examination of provisions of agreement, panel discussion by negotiators, administration of the agreement, and significance of labor-management relationships.

The orientation course was drafted by Leonard M. Brockman, Labor Relations Assistant, AMSC, who also presents 'significance of labor-management relationships.' Others lecturing are James Blackburn, Civilian Personnel; Luther

F. Adams, Civilian Personnel; Col. D. A. Marcelle, Finance & Accounting; and Martin Davis, Civilian Personnel.

In preparation of negotiations for the agreement and implementation of it, Lodge 1858 AFGE officials, under leadership of Dennis Garrison, conducted training courses for appropriate members.

The agreement between the Support Command and Lodge 1858 AFGE became effective Sept. 25 of this year. The labor organization won exclusive recognition on May 2.

The group of management negotiators, who also are conducting the panel discussion during the training sessions include: Col. D. A. Marcelle, Moderator; Sidney Mintz, Control Office; William R. Henry, Post Engineer Division; Luther F. Adams, Civilian Personnel Office; Wildon C. Neely, Logistics; J. L. Carroll, Intelligence, Operations & Security; and James Blackburn, Civilian Personnel Office.

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# Zeus Tests Pave Way For Nike X

The Army Thursday announced the latest in a continuing series of Nike Zeus anti-missile system firing tests at White Sands Missile Range, N. M.

The Nike Zeus Project Office said the test was a success. The current series of Nike Zeus firings are designed to test components and techniques for the Army's new Nike X anti-missile system.

The missile in the test announced today was put through a series of aerial maneuvers by ground based radar and guidance equipment.

Western Electric is the prime contractor for the Nike X system and Bell Telephone Laboratories has responsibility for system design and development.



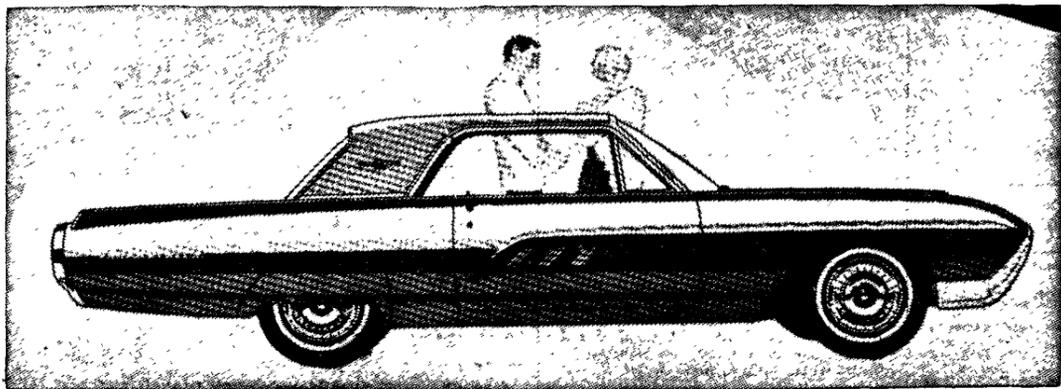
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Page 14 The Redstone Rocket — October 30, 1963

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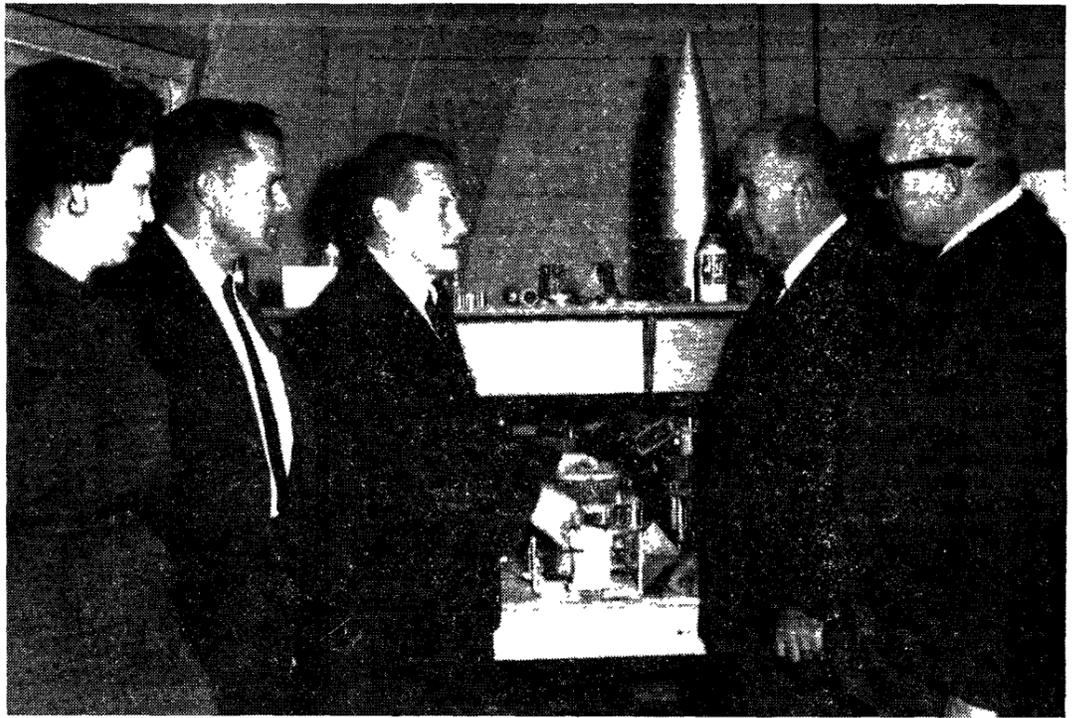
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**GENERAL VISITS**—Frank Chappell, Chief of the Procurement and Production Directorate's Hydraulics and Pneumatics Laboratory, explains to Brig. Gen. Ake Nikolaus Sundquist how the laboratory tests missile parts. Gen. Sundquist is Chief of the Guided Weapons Department of the Royal Swedish Air Force Board. The General and two other Swedish officials visited the Missile Command last week. They were Col. Ake Wahlgren, Army Attache to the Swedish Embassy; Maj. Leif Nerbrink (left), the Assistant Army Attache. The group heard reports on various U. S. Army missile systems.



**STUDY CORROSION PROBLEM**—Some 120 students took part in the Corrosion Control Course conducted recently by the Army Missile Command. Lloyd Gilbert, (second from left), of Rock Island, Arsenal, taught the course which attracted students from Army, Navy, Marine Corps and contractor elements. Shown here with Gilbert are, left to right: Alice Cox, course coordinator, Training and Development Division, Civilian Personnel; Ernest Blalock, Marine Corps Supply Center, Albany, Georgia; Ted Walton, Brown Engineering Co., Huntsville; and Al Broendel, course director, Rock Island Arsenal.

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<p><b>Afternoon Special!</b> <b>1959 FORD</b> Station Wagon. Low mileage. A really nice car. <b>\$895.00</b></p>	<p><b>Black Cat Special!</b> <b>1962 OLDS</b> Starfire, 2 door hardtop, blue, 11,000 actual miles. Local one owner. <b>\$2995.00</b></p>	<p><b>Spook Special!</b> <b>1960 CHEVY IMPALA</b> Convertible, white with black top and red interior. V8, auto, full power, 31,000 miles, one owner, like new. <b>\$1695.00</b></p>
<p><b>Pumpkin Special</b> <b>1962 CADILLAC</b> 4 door hardtop, black, full power, factory air, low mileage. Like new. <b>\$4495.00</b></p>	<p><b>Ghost Special!</b> <b>1963 CHEVY</b> Hardtop 4 dr. Impala, extra clean, low mileage. Like new. <b>\$2595.00</b></p>	<p><b>Goblin Special!</b> <b>1962 FORD GALAXIE</b> 2-door sedan, 6 cyl., stick shift, radio, heater, one owner, low mileage, new condition, new tires. <b>\$1595.00</b></p>
 <p><b>Witch's Special</b> <b>1959 CADILLAC</b> 4 dr. hardtop, factory air condition, yellow finish, extra clean Wonderful bargain.</p>	<p><b>Frankenstein Special!</b> <b>1963 IMPALA</b> 4 dr. sedan, 3,000 actual miles. power steering and brakes, 6 cyl. <b>\$2395.00</b></p>	<p><b>Clown Special!</b> <b>1962 CHEVY</b> 4 dr., V8, auto., 327 engine Nice. <b>\$1995.00</b></p> 
<p><b>Skeleton Special!</b> <b>1963 FALCON</b> 2-door green, low mileage, like new. <b>\$1695.00</b></p>	<p><b>Jack-O-Lantern Special!</b> <b>1962 CHEVY IMPALA</b> 2 dr. hardtop, black with gold interior, 327 engine, stick shift <b>\$2095.00</b></p>	<p><b>Red Apple Special!</b> <b>1962 CHEVY BEL AIR</b> 4-door, black with red interior, 15,000 one owner miles. 327 engine with auto. trans. <b>\$1995.00</b></p>

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## Contract Administration Directorate Established

The Department of Defense announced the establishment of a Directorate of Contract Administration Services, in the Office of the Assistant Secretary of Defense (Installations & Logistics).

Purpose of the new Directorate, instituted at the direction of Secretary Robert S. McNamara, is to provide a focal point for developing common policies and procedures pertaining to field contract administration services. This covers a large number of functions, including pre-award surveys, quality assurance, production expediting, property administration, industrial security, and other field functions which support buying offices.

Almost 43,000 people in 444 field organizations throughout the country are now engaged in administration of contracts and supporting services, as well as maintaining liaison with about 35,000 manufacturing facilities which produce Defense items. These field offices function directly under the Military Departments and the Defense Supply Agency.

In addition to formation of this new staff to develop common poli-

cies. Secretary McNamara has directed the implementation of a pilot test of a consolidated field office in one geographic region, to ascertain how best to organize these functions in the future.

Creation of this new staff within the Office of the Assistant Secretary of Defense (Installations & Logistics) was recommended by a special task force headed by officials of the Office of the Secretary of Defense, the Aeronautics and Space Administration. Task Force studies were conducted by 84 specialists over the past year.

Director of the new staff will be Col. Donald E. Sowle, USAF, an experienced professional in procurement and contract administration, who is presently assigned to the Office of the Secretary of Defense. He will work with a staff composed of military officers and civilians, drawn from all of the services.



**DEFENSE OFFICIAL TALKS RESEARCH**—Dr. Chalmers W. Sherwin (center) Deputy Director (Research and Technology), Department of Defense, Research and Engineering, was briefed on technical problems during a visit to the Army Missile Command. Brig. Gen. John G. Zierdt (right), Commanding General of the Missile Command, and Col. Daniel F. Shepherd, head of the Directorate of Research and Development, led the discussions with Dr. Sherwin.

## Nike Hercules Contract Let

Continued development of the improved Nike Hercules air defense missile will be funded under a \$1,522,140 contract awarded Friday to the Western Electric Company.

The work will be performed by the contractor at Burlington, N. C., Syracuse, New York, and Whippany, New Jersey.

The Nike Hercules is an operational missile system on guard around key cities and defense installations in the United States.

The program for this anti-aircraft missile system is managed from the Nike Hercules Project Office at the Army Missile Command. Col. B. R. Luczak is the project manager.

The contract will be administered by the New York Procurement District.

## AMC MAN GETS SPECIAL AWARD

A one and a half million dollar savings to the U. S. Army won a special award for industrial engineer Thomas E. Otey, of the U. S. Army Materiel Command's Directorate of Procurement and Production.

Otey was awarded \$450 and a Department of the Army Special Act Award certificate for his actions while project engineer of the Heavy tank, M103, and Light tank, M41A1 programs.

## German, American Missilemen Warned Against Communism

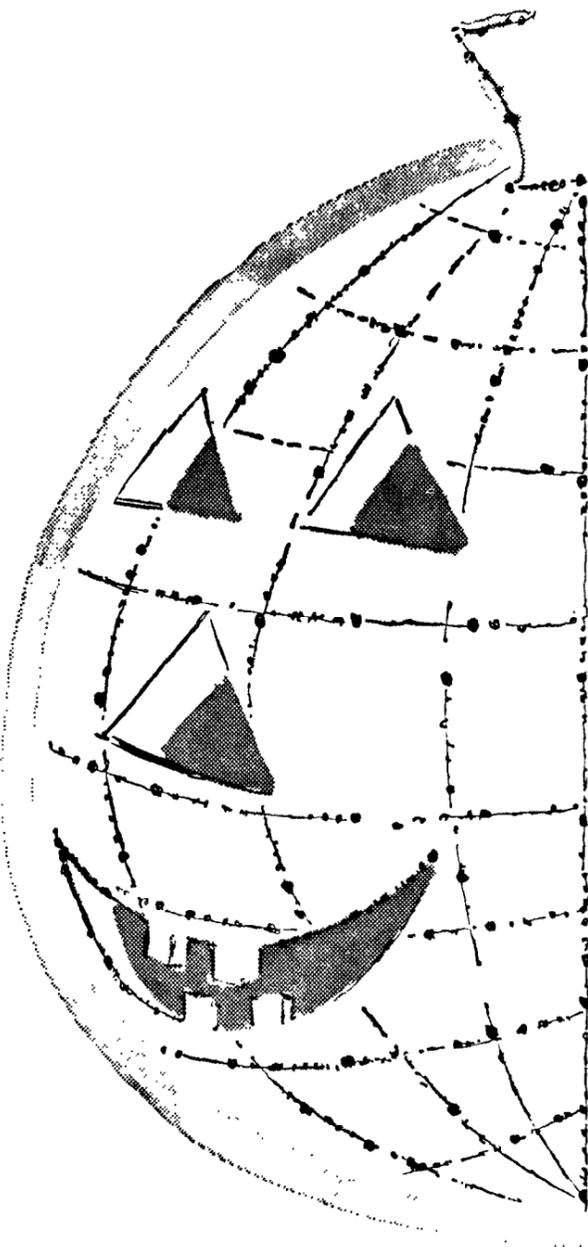
A leading business executive warned German and American missile students last Friday that the free world must maintain its defenses at full force despite recent agreements with the Soviet Union.

James S. Kemper, Jr., president of the Lumbermens Mutual Casualty Co. of Chicago, said "differences between the free and Communist worlds are deep, ceaseless and total, and the cold war never stops."

Kemper addressed 48 graduates of the U. S. Army Ordnance Guided Missile School completing courses on air defense missiles now jointly used by the German Air Force and the U. S. Army.

A special award for academic excellence was presented to Lt. Gary C. Hitt, of 1237 Broadus St., Fort Worth, Texas, by the Tennessee Valley chapter of the Association of the U. S. Army. A graduate of the University of Texas, he averaged 95.6 in the Ordnance Guided missile officers course.

Col. William J. Macpherson presided at the ceremony held in the Redstone Arsenal Theater.



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