

Historic Redstone To Celebrate 10th Birthday

From the "grand old man," the many missiles came.

The Army's 'old man,' the historic Redstone ballistic missile, celebrates its 10th birthday of streaking through blue skies toward unequalled success and achievement next Tuesday.

As always, behind uncommon achievement, there are men of unusual quality. These are the Army's men who sacrificed a more routine life for long hours of hard work and sleepless nights.

They preferred devotion to an effort over a more conventional life in business or private professions. They are the men whose painstaking work made possible

Redstone's unparalleled success.

And "Old Reliable," the product of their effort, continues to carry a lion's share of the load in the world of missiles, although the Army plans to retire its "old war horse" sometime in the future and replace it by the highly mobile Pershing.

At precisely 9:30 a.m. (EST), on Aug. 20, Redstone will complete its first decade of hard work and achievement.

Success No Surprise

Redstone's success came as no surprise to any of the men who made it. They had put their hearts and hopes into its metal and wire. They had labored

through tedious days and long nights perfecting Redstone's components, polishing its accuracy, and verifying its reliability.

They nurtured it at a break-neck pace through the time-tested process of trial and error. Tuesday, a decade after the first Redstone roared to life in flight, the men who made it are hard at work with more sophisticated missiles. But their hearts will be forever with Redstone.

During these 10 years their missile set a "first" mark so high it has never been approached by another missile.

Redstone was the product of

two virtues:

Devotion and diligence.

They were virtues which opened the doorway to many lessons, sometimes fruitful, sometimes frustrating. They were lessons learned in the heat of urgency.

Dozens of theories were junked.

Others were adopted for use in Redstone.

Paved Way For Others

From Redstone came a staggering amount of information. It was information which paved the way for many of today's modern missiles, including Pershing, Honest John, Little John, Sergeant, Lance, and others. From Redstone came

Jupiter, now under the Air Force.

From Redstone came space boosters to enhance America's prestige abroad with the goal of eventually landing a man on the moon.

Redstone had a role in missilery and space alike. Its dual role continues, as evidenced by the awe-inspiring Saturn space vehicle booster—powered by eight modified Redstone engines.

"Know-how" provided by Redstone launched America's first scientific satellite. It sent the Free World's first astronaut on a historic suborbital flight.

It did many more things, performing each time with perfection.

At Redstone Arsenal, the only known Army installation from which a weapon derived its name, the men who built "Old Reliable" never had the slightest doubt that their missile would do everything expected of it.

To many men and women at Redstone Arsenal, that sunny morning a decade ago, when Redstone Number One streaked skyward on a pillar of flames, remains vividly clear and forever dramatic.

Redstone was always their favorite. It still is.

In a business where periodic failures, though expected, are exceedingly frustrating—and expensive—the Redstone is a story of unmatched success.

Redstone for several years has been the Army's "Sunday Punch" ballistic missile. Its list of "firsts" is long and impressive. The list would be even longer if certain of Redstone's achievements were

REDSTONE WILL BE 10

August 20 marks the tenth birthday of the first firing of a Redstone Missile by the Army. Pictures and stories about the missiles and the men who remember are on Pages 4 and 5.

not considered to be of such vital defense importance that they must remain secret.

"Old Reliable" is not a title of empty words, but rather a title of respect for a missile that has been the work-horse of America's defense and space programs during the most exciting decade of American technology.

Reflects Confidence

It may seem unusual—possibly even risky to some—that men put so much faith in a mass of steel, chemicals and electronics. But after all, Redstone was the result of the efforts of man and is, in reality, a display of man's confidence in his own ability.

This ability and confidence on the part of the scientists and engineers and officers at the former Army Ballistic Missile Agency (See HISTORIC on Page 5)

Army Tests Nike X Parts

The Army continued testing of components of its new Nike X anti-missile system with the firing of a Nike Zeus missile from White Sands Missile Range, last week.

A new high performance booster propellant was used to propel the missile from its launcher.

Col. I. O. Drewry, the Nike X Project Manager, said the test was successful and firing objectives were met. It was the second test using the new booster propellant for the 48-foot missile.

During the flight the missile was put through a series of maneuvers by its ground based guidance equipment.

The Nike Zeus will be one of two missiles to be used in the Nike X system.

The Western Electric Co. is the prime contractor for the Nike X and Bell Telephone Laboratories has responsibility for system design and development. The Nike Zeus missile is built by the Douglas Aircraft Co.

The propellant used in the test was manufactured by the Thiokol Chemical Company's Alpha Division at Huntsville, Ala.

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.

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

August 14, 1963

Small Business Increases 34.4 Per Cent In FY '63

Predicting even greater participation this year, Maj. Gen. F. J. McMorrow, Commanding General of the Army Missile Command, today announced an increase of 34.4 per cent in the amount of business that the Command did with Small Business during the 1963 fiscal year.

Total dollar value of procurement contracts awarded to firms in the Small Business category during the year amounted to \$44,699,000, according to Jeff Darwin, Small Business Advisor for the Command.

Darwin indicated that an even greater increase is anticipated during fiscal year 1964 with additional (See SMALL BUSINESS, Page 3)

BLOODMOBILE

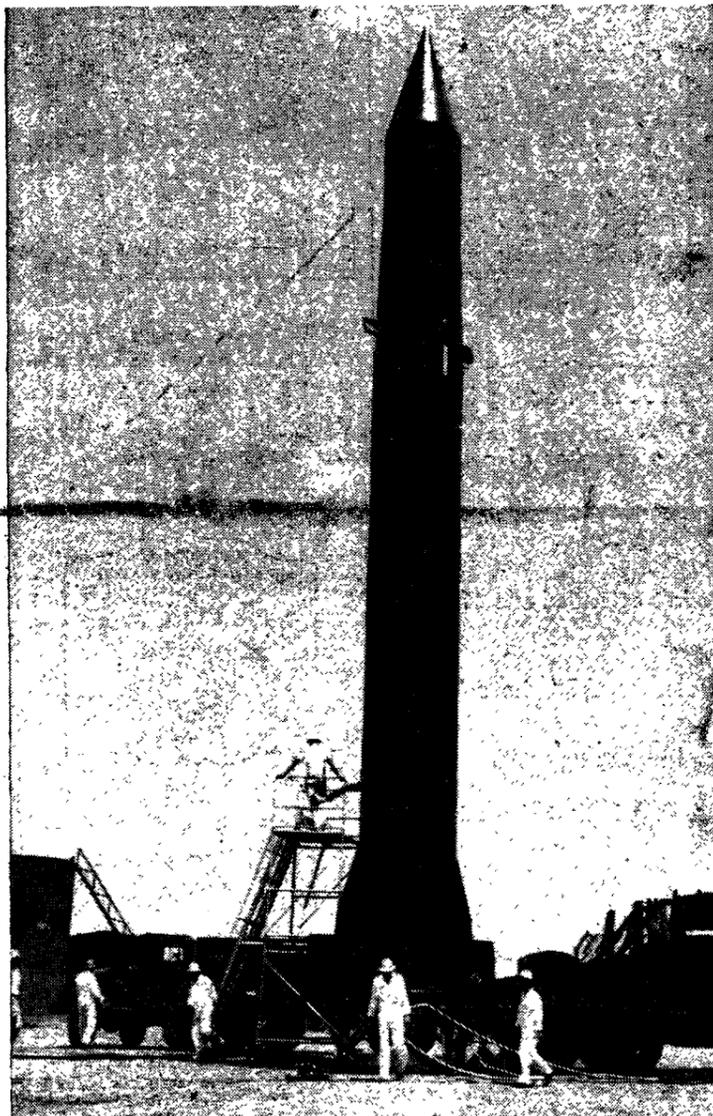
The Red Cross Bloodmobile will be at Bldg. 7110 between 8:30 a.m. and 2:30 p.m. Aug. 21. A plaque goes to the military unit that has the greatest percentage of participation. Donors receive cards that entitle them and their families to blood for the following six months.

Troops Practice Firing Redstone

White Sands Missile Range, N. M.—Successful firing last week of the Army's Redstone artillery missile at White Sands Missile Range marked the beginning of this year's annual service practice exercises, which will bring several Redstone units now deployed in Germany to White Sands for similar tactical firings.

The first group to fire their ASP round at the national range was a battery of the Second Missile Battalion, 333rd Artillery.

The battalion commanded by Lt. Col. Richard A. Gaines is made up of two firing batteries and their support units. B Battery will fire their ASP round at White Sands in the near future. The annual service practice is (See TROOPS on Page 3)



FIRST REDSTONE READIED—The Army's first Redstone ballistic missile ever fired is readied for launch from Cape Canaveral, Fla. Technicians in the foreground prepare to send the missile down its historic path which set a remarkable "first" mark.

Pershing Unit Takes 620 Mile Overland March

The Army's rugged Pershing missile made a two-day 620 mile road march the past week from Ft. Sill, Okla., to Ft. Bliss, Tex. to start the most extensive series of tests yet faced by the fast reacting system.

The 400 man firing and evaluation team accompanying the system will fire Pershing from launch sites in Texas, New Mexico and Utah to impact on the 4,000 square mile White Sands Missile Range.

Development of Pershing has been centered at the Army Missile Command, Col. O. M. Hirsch is Pershing Project Manager.

Members of Col. Hirsch's staff are supporting the Artillery Board in the gruelling tests.

The test series itself is being conducted for the Army Materiel

Command's Test and Evaluation Command by the Missile Division of the Army Artillery Board.

The firing batteries are units of the 2nd Missile Battalion, 44th Artillery from Ft. Sill, Okla.

Broad objective of the road march and the firing under simulated combat conditions is to determine that the Pershing system meets the desired military characteristics when used by Army troops in the field.

The first firings will originate on the Hueco range in Texas and terminate within the adjoining White Sands Missile Range in New Mexico.

After the Hueco-WSMR firings the road march will be repeated from Ft. Bliss to Black Mesa outside Blanding Utah.

(See PERSHING on Page 3)



TEETH FOR COMBAT HELICOPTERS—William C. Watson (center), director of the Ground Support Equipment Laboratory, U. S. Army Missile Command, answers questions about the XM-3 rocket package for the UH-1B helicopter. A fully-armed helicopter carries a total of 48 folding-fin 2.75-inch aircraft rockets. At left is John L. McDaniel, Technical Director, and at right is Col. D. F. Shepherd, Director of the Directorate of Research and Development. The rocket package was part of an exhibit prepared by the laboratory for the International Conference and Exhibit on Aerospace Support Systems being held in Washington, D. C. The conference-exhibit is sponsored jointly by the Institute of Electrical and Electronic Engineers and the American Society of Mechanical Engineers.

The Redstone Rocket

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Rocket Ruminations

Don't put off until tomorrow what you can do today—if you like it, you can always do it again tomorrow!

Message To Parents And Teen-Agers

As a father of three children and Provost Marshal of Redstone Arsenal, it is my pleasure to congratulate parents for exercising proper guidance and supervision over their children since the beginning of summer.

During the summer period, thus far, no offenses involving children have come to the attention of the Military Police. Some minor mischief was noted, but no crime.

However, it is not advisable for either parents or children to become apathetic or complacent because of the enviable record achieved to date. Further, despite the good record cited, it is well-known that some teen-agers are straddling the fence and can go either way—grow up to be useful citizens or add to the criminal statistics of various law enforcement reports. One factor of utmost importance in continuing to rear law-abiding children is to get them home early.

Frequently, law enforcement officers hear the cry of teen-agers at night: 'What can we do? Where can we go?' The answer is "Go home!"

"Help around the house; and when you are through, read a book. Do some advanced studying in preparation for the next school year. Your parents don't owe you entertainment. Your civilian or military community does not owe you recreational facilities. The world does not owe you a living. You owe the world something. You owe it time, energy and your talents so that no one will be sick, in poverty, or lonely again."

"In plain simple words: Grow up; quit being a cry baby; get out of your dream world . . . start acting like a man or lady."

One law enforcement officer, a member of a large city police department, tells of stopping three youths drag racing at 4:00 a.m. In reply to his questions, they said they were "just looking for something to do. There isn't anything going on."

The officer asked if they hadn't attended one of the basketball games that evening.

"Yeah, we went to the game."

"And maybe to the dance afterwards?" he asked.

"Oh, yeah."

"And to the late movie at the drive-in?"

"Yeah, we saw a show."

"Then what you are really saying is that there isn't anything going on at four o'clock in the morning."

Maybe we make a mistake in spending too much time talking up what the community can do for youth. Too much of this may be giving them the idea that life is a romp from one pleasure to another with others picking up the tab.

The teen-ager may need more than we are giving him. Certainly, he needs more of the parents' attention, but part of the time let's begin asking him what he can do for others. Also, if the youth comes home at 4:00 a.m. on Sunday, consider what his condition will be for character building at local church services later on Sunday morning.

Col. William Luk



VISITORS FROM BOYS' CAMP—SFC Paul M. Gregston, right, explains the Army's Lacrosse missile to a group of visitors from Camp Cloudmont for Boys, near Chattanooga, Tenn. The youngsters visited Redstone Arsenal in conjunction with a visit by Dr. Edward R. Annis, president of the American Medical Association, who is camp doctor during the summer. About 90 boys received a general orientation on the Missile Command and other elements at Redstone. SFC Gregston conducted the tour for the boys.



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TROOPS

(Continued From Page 1)

a yearly familiarization exercise in which Redstone units assigned with NATO forces in Europe come to White Sands to fire the missile under simulated tactical conditions.

During the exercises the participating units fire the Redstone between 60 and 90 statute miles well within the confines of the range.

On hand to monitor each unit's ability to set up and fire the missile is the Field Artillery Missile Systems Evaluation Group (FAMSEG) from Ft. Sill, Okla. This group commanded by Col. Charles B. Elliott, evaluates each unit's missile firing performance.

Following the completion of their ASP firings the battalions will return to their home stations in Germany.

The surface to surface liquid fueled Redstone has a range of about 200 miles. The missile's prime contractor is Chrysler Corp. and it has been deployed in Europe since 1958. It is a development of the Army's Missile Center at Redstone Arsenal.

PERSHING

(Continued From Page 1)

Elaborate safety measures in operation of range facilities at the temporary launch site at Blanding and at Ft. Wingate Army Depot near Gallup N. M. are provided by WSMR.

Special data gathering and flight safety surveillance equipment from WSMR has been set up along the 350 mile trajectory from Blanding to the national missile range to obtain information on this missile flight.

Pershing is a two-stage, solid propellant, surface-to-surface mis-

Fluid Amplifiers Are Conference Subject In Boston

An inertial guidance expert from the Army Missile Command's Directorate of Research and Development discussed late developments in fluid amplifiers at the annual Guidance and Control Conference in Boston yesterday.

William A. Griffith, chief of the Control Systems Branch of the Inertial Guidance and Control Laboratory, will present a paper which he prepared jointly with Joe L. Byrd, an aeronautical engineer in the Laboratory. The title of the paper is "System and Component Considerations for an All-Pneumatic Missile Attitude Control System."

The Inertial Guidance and Control Laboratory has done considerable research on fluid or pneumatic control systems, which use the controlled flow of gases to change the course or attitude of a missile in flight. Fluid control systems require fewer moving parts, which theoretically increases reliability.

The conference will be held Aug. 12 through 14, and is sponsored by the American Institute of Aeronautics and Astronautics.

sile designed to replace the Army's Redstone. While its 100 to 400 mile range doubles that of the Redstone, Pershing is smaller, easier to handle, and is extremely mobile.

The ability of the solid propellant motors and the ground support equipment making up the system to provide safe firing has been improved repeatedly in development firings at the Atlantic Missile Range. The WSMR tests will be the first overland firings of the missile.



BIG INCREASE IN BUSINESS—Maj. Gen. F. J. McMorrow, Commanding General of the U. S. Army Missile Command, expresses pleasure over the report of Missile Command procurements awarded to small business concerns during fiscal year 1963. The report, submitted by Jeff Darwin, Small Business Advisor for the Command, indicated that the total dollar value of procurements awarded to small business amounted to \$44,699,000, an increase of 34.4 per cent over the figures for the previous year.

SMALL BUSINESS

(Continued From Page 1)

tional breakouts and small business "set asides" already planned.

Among the anticipated "set asides" for small business are: the fin and fin barrel assembly for the Littlejohn system; the igniter for the Honest John; and the fin and fin container for the same system.

In commenting on the enviable record of the Command in this area, Gen. McMorrow said, "The big percentage of increase is indicative of our determination to see that Small Business has an equitable opportunity to compete for Missile Command business."

Reserves To Hear Maj. Gen. Carver

Maj. C. E. Hammett, president of the Huntsville Chapter Reserve Officers Association announces that Maj. Gen. George A. Carver, Commanding General of the Army IV Corps will be the guest speaker of the Huntsville chapter at a dinner-dance on Friday, Sept. 20.

The event will be held at the Redstone Arsenal Officers Club

and will include guests from the Birmingham, Decatur and Muscle Shoals ROA Chapters.

Social hour begins at 6:30 p.m. Dinner will be served at 7:30 p.m. An orchestra will play from 9 til midnight. Tickets may be obtained by calling Lcdr. John H. Graham at Ext. 876-7571, Maj. R. L. Goldston, at 539-5170 or Lt. Col. Pete Redding, at 876-6743 or 536-1376.

Aug. 1, 1946—President Truman signed a bill creating the Atomic Energy Commission.

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COL. W. H. ROEDY

Col. W. H. Roedy Joins Nike Zeus Project Office

Col. William H. Roedy has joined the Nike Zeus Project Office as Deputy Project Manager for Engineering Activities, Col. I. O. Drewry, the Project Manager, said today.

Col. Roedy came to the Project Office at Redstone Arsenal from the office, Chief of Engineers in Washington, where he was Assistant Director of Military Construction.

As Deputy Project Manager for Engineering, he will be responsible for overseeing construction of Nike X test and development facilities, including those underway at White Sands Missile Range and others to be erected at the Nike X test facility on the Kwajalein Atoll in the mid-Pacific.

Col. Roedy received his BS from the U. S. Military Academy at West Point and an MS in public administration from Harvard University.

He is a native of Atlantic City, N. J.

Col. Roedy's decorations include a Legion of Merit, given at Headquarters, Far Eastern Command; and a Bronze Star, received in Korea.

Col. and Mrs. Roedy and their children, Alison, 5, and Mallory, 15, live at Wadsworth Drive on the Arsenal.

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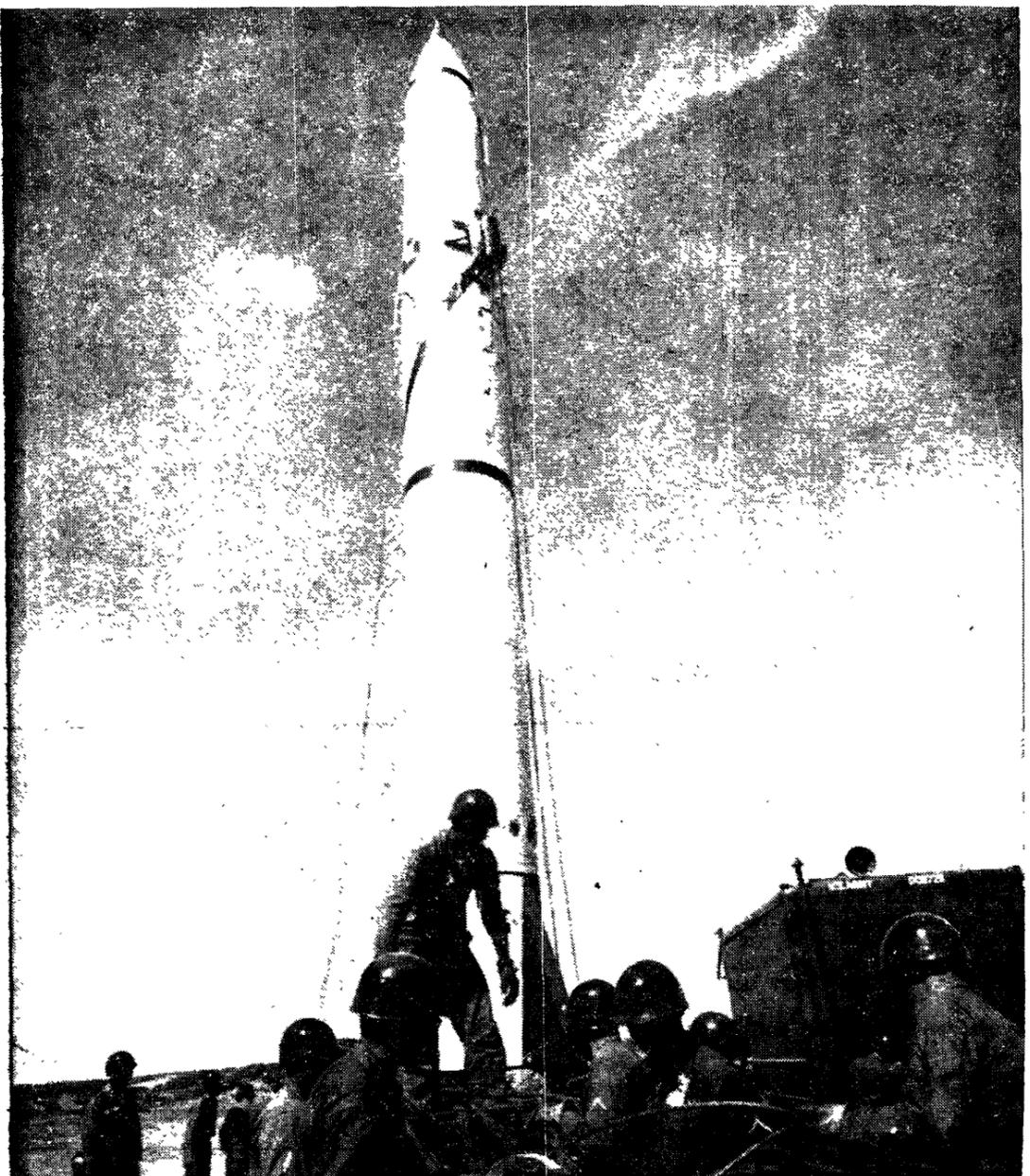
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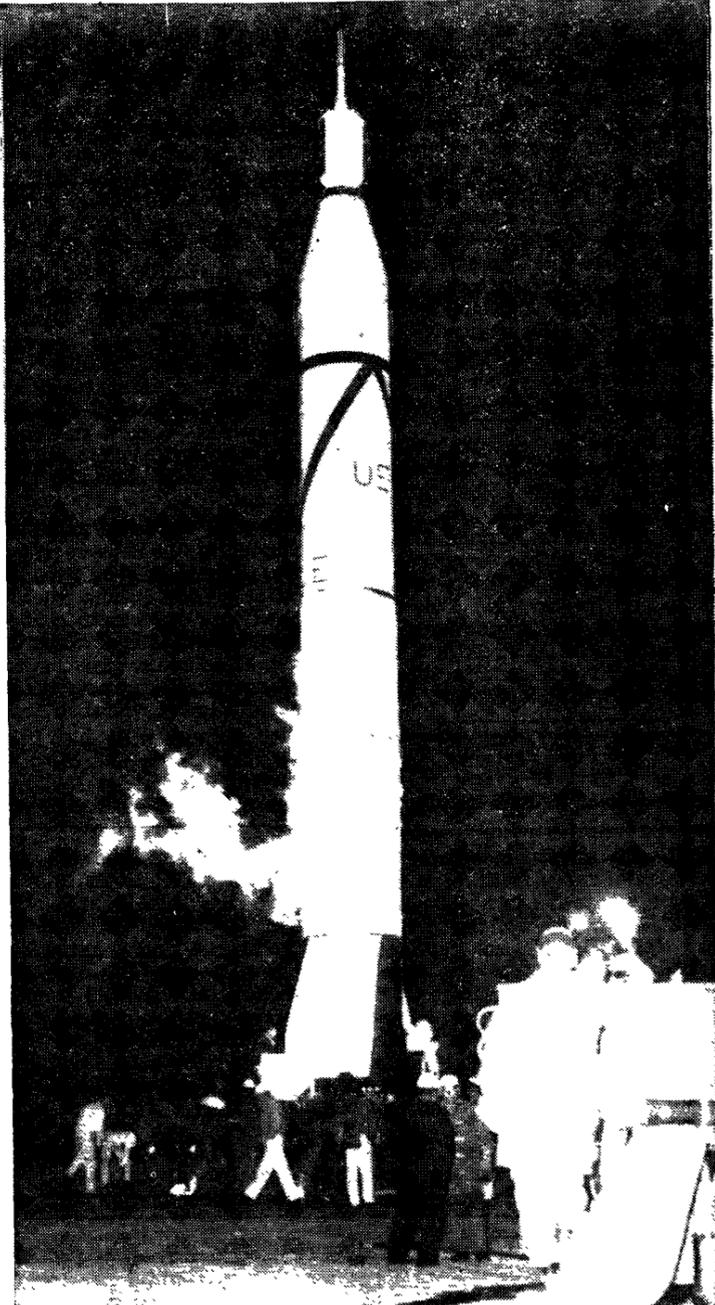
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Redstone Made History In Weaponry, And Space



TROOPS PREPARE REDSTONE—Soldiers have had the Redstone ballistic missile for several years. The mobile missile system is deployed in Europe. The soldiers above are shown preparing their missile for launch at White Sands Missile Range, New Mexico.



EXPLORER I READIED—Technicians ready the Army's composite vehicle, known as Jupiter-C, for launching the Free World's first scientific satellite into orbit. The Jupiter-C was made from a modified Redstone ballistic missile. It was chosen for its role in lofting the first satellite because of its reliability.

Guidance Package Came After First Missile Test

Chain-smoking Jess B. Huff remembers Redstone. The fact of the matter is he'll never forget it. Huff was one of perhaps two dozen persons who developed the Free World's first all inertial guidance system. It gave Redstone its famed "hip pocket" accuracy.

"The first Redstone didn't carry a guidance component," he says. "But I remember it all the same. We knew our kit would be in later rounds. We were highly interested in that first shot.

"Six or seven of us huddled around a desk; in the center of the desk was a telephone. We waited for it to ring."

In those days, the guidance and control laboratory was located in the building now occupied by the Post Hospital. "It was sort of like

a college campus with all the squirrels," Huff says.

"We waited for that telephone to ring; we knew it would bring word from headquarters that the shot was good.

"We just stood there. We didn't talk much, but we smoked a lot. We couldn't bring ourselves to do much work until we heard from the Cape.

"There were several routine calls," Huff recalls. "Each time the phone jingled, we bumped over each other trying to answer it.

"When word finally came, we were jubilant. Then we all sat down around the desk and talked over plans for further work on the G&C section which was to go into

later rounds."

Like other missiles developed since that eventful day in 1953, Redstone was proved reliable in segments. Naturally the booster was the first component tested, which explains why there were no guidance components in the first missile fired.

And Huff was right. The guidance components developed in Redstone Arsenal's G&C lab were destined for a spectacular role in the missile's development.

Huff says the first Redstone which carried a guidance package was one of the most memorable periods of his life.

"I was at Cape Canaveral," he says. "It went up majestically. It performed just as it should. Our guidance package worked perfectly.

"It was then that we knew we really had something going for us," he says.

When the first Redstone soared off the pad a decade ago, Huff was section chief of the computing development sub-unit. Today he is the Director of the Guidance and Control Laboratory, Directorate of Research and Development.

Before coming to the Missile Command, Huff was a civilian radar instructor at Keesler Air Force Base, Miss.



JESS B. HUFF . . .
Helped Develop Guidance

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Troops Practice-Fire At White Sands Annually

HISTORIC

(Continued From Page 1)

and Army Ordnance Missile Command, produced Redstone in an era when America's world leadership faced its strongest challenge.

The challenge was largely intangible until a simple radio signal shook the free world as no explosive had ever done.

That otherwise unimpressive, intelligible "beep-beep" on the horizon from the first Soviet satellite in late 1957, carried an ominous message to American missile and space officials. Indeed, for the free world.

Simply, it said there was a job to be done quickly. The men who built the Redstone could not afford to fail.

The Army's Redstone was there to make sure it didn't.

On the night of January 31, 1958, Army scientists, engineers and officers at Cape Canaveral stood holding their breath, waiting . . . and hoping.

The modified Redstone, serving as the first stage of the composite vehicle carrying the Explorer I satellite, also waited—waited for the push of the button that would give it life.

As the first flame burst from Redstone's exhaust, the men seemed to be transferring their own energies to the missile's engine, trying to help it rise off the pad.

But the Redstone didn't need help.

Launched Into Space

Majestically and powerfully, it rose off the launching pad, and Explorer I was on its way to outer space.

Later, the same modified Redstone was to give the initial boost to Explorers III and IV.

In 1956, the Redstone had proved its long-range capability when it powered this same composite vehicle — the Jupiter-C — more than 3,000 miles the Atlantic Missile Range on the United States' first truly long-range ballistic missile trajectory.

And, on May 5, 1961, the super-reliable Redstone booster sent a slim, cool Navy test pilot named Alan Shepard on a sub-orbital flight 115 miles into space.

He rode above a Redstone missile booster, and the men who had made it were proud of their achievement.

Redstone was also:

—the first U. S. ballistic missile to successfully employ an inertial guidance system, making it completely immune to known types of counter measures.

—the first large U. S. ballistic missile to be fired by troops.

—the first missile which provided the boost when the first heat-protected nose cone was fired into space and recovered.

—the first U. S. ballistic missile to be deployed overseas, joining the NATO Shield Forces in June, 1958.

Army-Industry Cooperate

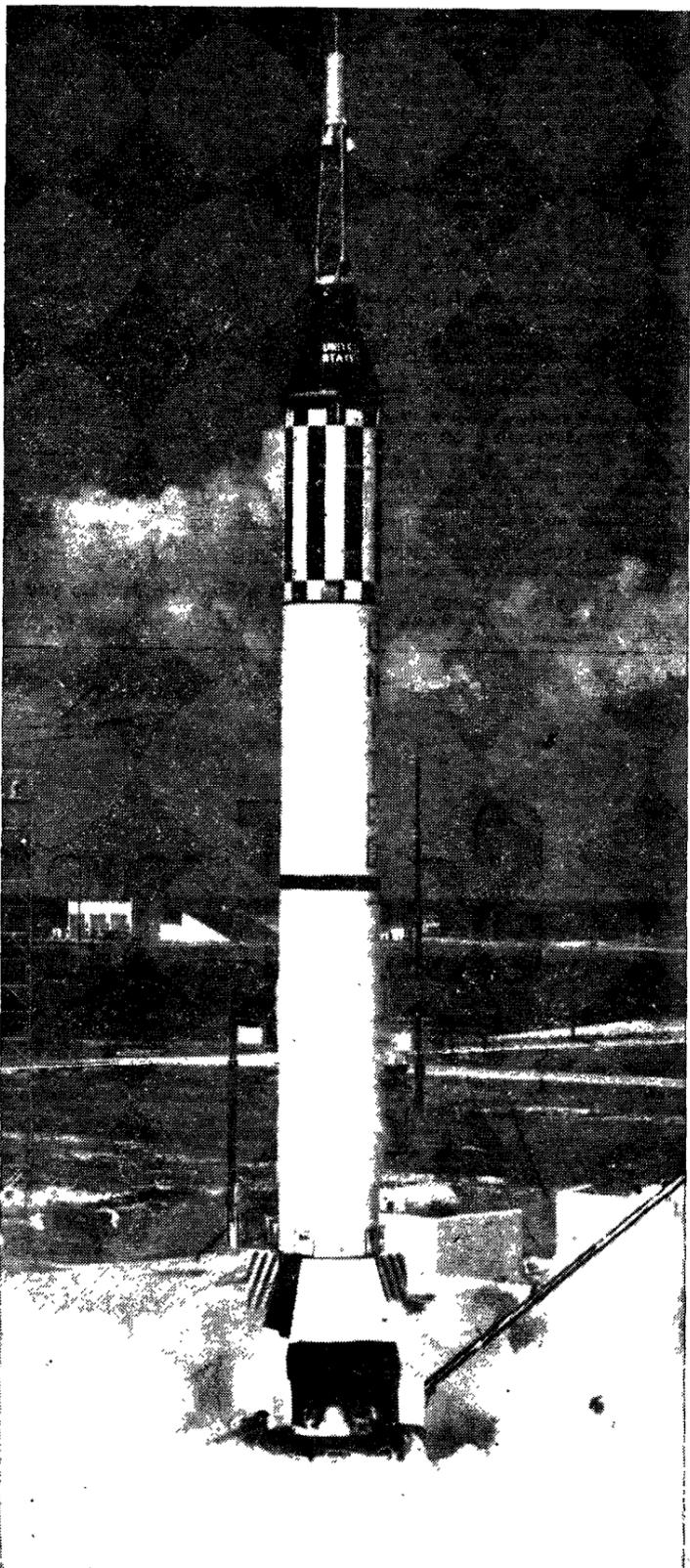
The Redstone development program was marked by the close cooperation of American industry and the Army. From the original idea in 1950, through the awarding of the first contract with the Chrysler Corporation in 1952, and through the final research and development firing of the missile in 1958, the team worked together—designing, modifying, building and testing.

Of the numerous firings that occurred in five years of intense research and development, only two proved unsuccessful. Redstone earned its nickname of "Old Reliable" by repeatedly showing it could do the job.

Redstone was so successful in its own firing record that it was used many times to test components from other systems under development. Its part in the Jupiter program hastened the Army's final development of that now-famous missile.

The Army also utilized the Redstone system for other tests. One such experiment involved the mounting of a TV camera inside the missile to photograph separation of the last stage of the Redstone.

The miniature television station was designed to enable a



DRAMATIC REDSTONE LAUNCH—A modified Redstone booster billows smoke at liftoff with America's first astronaut riding in the capsule above. Redstone was selected for its role in space because of its super reliability.

ground commander to see actual target damage inflicted by the missile. The camera was ejected from the Redstone during flight, and, while falling to earth, took pictures of the impact point of the missile's warhead.

The picture could be seen by the commander on a receiving station miles away from the impact area.

Today, Redstone continues to

be the Army's "Sunday punch." The missile guards the frontiers of the free world.

Perhaps Redstone will some day be called upon to be a part of some even greater accomplishment than boosting a man into space. No one can say.

But it is a pretty safe bet that, if called upon for additional duty, Redstone will respond in its own "Old Reliable" fashion.



JAMES J. FAGAN . . .
Remembers "Firsts"

He Remembers Redstone's First Roar From The Pad

James J. Fagan remembers Redstone. He should. He cut his professional teeth on it.

"We were elated when it roared off the pad that first time," he recalls. "We knew it would work, but we were elated anyway."

Almost a decade after he watched the first big "beast" bellow from its cradle at Cape Canaveral, Fla., Fagan has some vivid memories of "Old Reliable" Redstone.

"There were about a hundred or so of us standing at the roadblock at Cape Canaveral when Redstone Number One went up," he says. "Most of us would have been in the blockhouse, except there was not enough room."

The engineer remembers August 20, 1953, as a clear, warm day. Temperatures were in the 90s at Cape Canaveral, then a comparatively primitive missile launching site.

"Every so often a plane would come over," he recalls. "It would spray the launch complex area with insect repellent. Mosquitoes were so thick you couldn't keep them out of your hair."

"At that time, Cape Canaveral was split roughly in half by U. S. Highway 1-A. Just before a shot, roadblocks were put up as a safety measure. Traffic was halted. Motorists traveling the road could get a good view of the launch from the highway."

Fagan recalls one panel truck load of highway surveyors who got what probably was the best view of all of that first Redstone launch.

"The surveyors were stopped at the roadblock," he says. "It didn't take them long to find out that there was going to be a missile launched."

"Being a bright young survey crew, they naturally thought of

where they could get the best view of the activity. Three or four of them unpacked their theodolites and put them into place on top of the panel truck.

"Of course, with their instruments, they had the best view of the day. It was undoubtedly better than any of the people in the blockhouse got."

In the fury and excitement of that initial launch, Fagan could scarcely have realized the overwhelming importance of Redstone's success.

Today however, in retrospect, he credits the missile with "providing us with the groundwork for almost all of our land combat missile systems."

Fagan is now Scientific and Engineering Advisor to the Director of the Research and Development at the Army Missile Command.

In the early days of the Redstone program he was technical consultant for guided missiles in the Research and Development sub-office for rockets. He came to Redstone Arsenal in 1950 from Fort Bliss, Texas, where he worked on ram-jets and an early version of the Redstone, known as the Major.

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Redhead / Roadrunner Test At Low Altitude Is Success

WHITE SANDS MISSILE RANGE, N. MEX., Aug. 8—Skimming supersonically over the desert sand here at less than 500 feet altitude, the U. S. Army's Redhead/Roadrunner target missile successfully completed another milestone in its flight test program, the Army announced.

No other target missile has flown so low and so fast in a controlled mission, an Army spokesman said.

The Redhead/Roadrunner, designed and built by North American Aviation's Columbus (O.) Division, zoomed over the terrain at a programmed speed greater than Mach. 1—faster than sound.

It was safely returned to the ground by its self-contained para-

chute recovery system, enabling it to be flown again.

The Redhead/Roadrunner has successfully completed a number of prescribed evaluation flights in the test program which is nearing its final phases, the Army said. They include a similar low altitude flight at subsonic speeds and a high level Mach 2.4 flight at 41,000 feet.

The unique missile is designed to fly from 300 to 60,000 feet in altitude and from subsonic to Mach 2 speeds—a capability no other target missile can match. It is controlled by electronic signals from a ground command station, and can perform various turns and maneuvers.

The Redhead/Roadrunner is 22 feet long and a foot in diameter. It has triangular wings and a pair of small movable control fins mounted near the rear of the missile body.

It is launched from the ground by a drop-away booster rocket produced by NAA's Rocketdyne Solid Rocket Division, McGregor, Texas. The booster utilizes Rocketdyne's advanced solid propellant, Flexadyne. The missile is sustained in flight by a ramjet engine built by the Marquardt Corp., at Van Nuys, Calif. and Ogden, Utah.

Primary use of the Redhead/Roadrunner is as a target for missile batteries of the Army Air Defense Command. To be used principally at McGregor Range in New Mexico, it will simulate high performance aircraft and air-breathing missiles.

Development of the versatile missile is under the technical supervision of the Army Command.

Navy Training Program Includes Space, Missiles, Nuclear Power Courses

Courses in space technology, guided missiles, and nuclear power will start on Sept. 4, at the Naval Reserve Center in Huntsville.

Satisfactory completion of constitutes a satisfactory year of Federal service. All ranks of officers of the ready and stand-by reserve of the Navy, Marine Corps, and Coast Guard are eligible to attend.

Two hour classes will be conducted each Wednesday night throughout the school year. Officers desiring to attend may register on Wednesday nights at the Naval Reserve Training Center in Huntsville.

Welcome Mat

The ROCKET extends a welcome to the following newly assigned civilian personnel to Army organizations:

ARMY MISSILE COMMAND

Supply and Maintenance: Jimmy M. Brown, John W. Bryan, Jane A. Cofer, Willard J. Daniel, Jerry G. Derrick, Troy R. Dobbins, Patricia A. Doster, Mary L. Futrell, Nancy B. Griffin, Mary R. Hanna, Glynda F. Hastings, Patricia T. Hill, Sandra L. Johnson, Donald E. Kenyon, Willard H. Lacert, Benda F. Leak, Dorothy M. McMullen, William L. McMullen, Warren T. Musgrove, Ray H. Peterson, Sandra Q. Phillips, Cornelius M. Ryan, Jr., Bobby N. Sibley, Leon E. Trowbridge.

Procurement and Production: Dian A. Broadway, Joy H. Ellis, Patricia A. Gill, Zola M. Legg, Virginia H. Phillips, Betty R. Rowe, June S. Schlagel, Faye R. Shook, Glenda A. Simpson, Mary K. Stripling, Margie R. Wilson, Bertha L. Wynne.

Mauler Project Office: John L. Dumberger, Claudia H. King.

Missile Intelligence: Jimmy W. Green.

Pershing Project Office: Robert P. Cross.

Sergeant Project Office: James L. Huie, Grimeo M. Leavines.

Research and Development: James R. Steele.

Personnel and Training: Nancy P. Womack.

ARMY MISSILE SUPPORT COMMAND

Frances R. Blackwell, Thomas W. Biggs, Mildred F. Hammons, Sara H. Henderson, Karen S. Himes, Jeanne T. Laughmiller, Roberta L. McClung, David Migdell, James B. Quick, Clarence M. Whisenant, Joe N. Williams.

ORDNANCE GUIDED MISSILE SCHOOL

Doris F. Cooper, Helen S. Hobbs, and Sara G. Tielking.

ZEUS PROJECT OFFICE

Phillip A. Arnston, Frank L. Brown, Lloyd A. Doering and John P. Waller.



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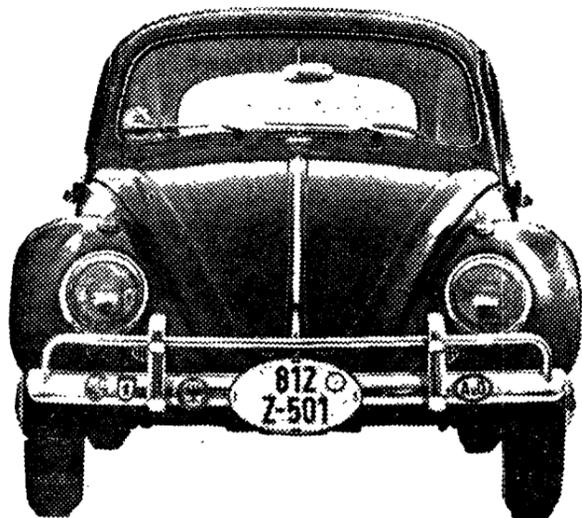


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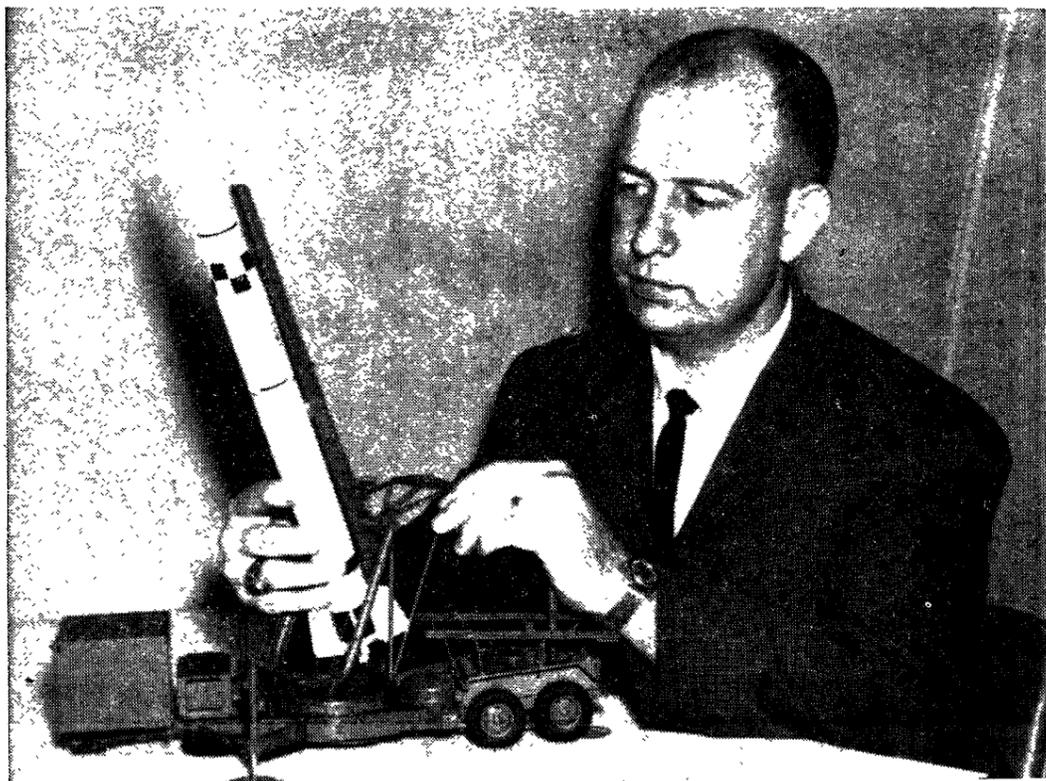
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AND THEN IT GOES WHOOSH—Charles E. Lyons, an engineer in the Ground Support Equipment Laboratory in the Army Missile Command's Directorate of Research and Development, shows a model of the Sergeant missile and launcher he used to illustrate a recent speech to the Guntersville Lions Club. Lyons is responsible for the design and development of various types of mechanical ground support equipment for the Army's missile systems. He is a resident of Guntersville, and has been a member of the Guntersville Lions Club since March of last year.

Former German Sergeant Addresses German Grads

A one-time sergeant in the German Air Force of World War II spoke and presented diplomas to sergeants of the new German Air Force at the U. S. Army Ordnance Guided Missile School Friday.

The speaker was Walter Wiesman, a former member of the original Wernher von Braun rocket research team at Peenemunde, Germany, who is now chief of the educational liaison branch at the Marshall Space Flight Center.

A naturalized U. S. citizen since 1955 and active in community affairs, Wiesman told 29 German and 14 U. S. Army and Marine Corps graduates that "space science" does not exist as such.

"That is a fancy term for work that is done by men well-grounded in the fundamentals of technology and able to conceive of new applications for proven principles," he declared.

German S/Sgt Norbert Stroh received the outstanding student award of the Association of the U. S. Army for averaging 96.7 in the Hawk continuous radar course.

Top men in their classes were: German Sgt. Peter Urban, Hawk pulse acquisition radar; German

Cpl. Bernd Hook; and U. S. Marine Sgt. Stephen A. Sandwich. Lt. Col. Ward T. Gilbert, OGM

director of individual training, presided at the ceremony in the Post Theater. The 55th Army

***** Births at Post Hospital *****
 ozs., Aug. 5, son of SSgt. and Mrs. Herbert E. Perry.
 Patti-Jo Sauer, 6 lbs., 13½ ozs., Aug. 5, daughter of Capt. and Mrs. Jack L. Sauer.
 Paul Lee Starkey, 8 lbs., 12½ ozs., Aug. 3, son of Sfc and Mrs. Edward Starkey.
 Thomas Daniel Perry, 8 lbs., 6 ozs., Aug. 30, 1862—Union troops defeated in the Second Battle of Bull Run and were forced to retreat to Washington.
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SOCIAL ^{and} CLUB EVENTS

Gen. Eifler To Speak At Fellowship Meeting

The Protestant Fellowship will have dinner at the Post Chapel tomorrow night at 6:30 p.m. After dinner, Brig. Gen. Charles W. Eifler will discuss "Quo Vadis?" (Where are you going?). The meeting is open to all interested persons. For reservations, Mrs. Malcolm Meekison, 877-4454, can furnish details.

Plaque Awarded

Maj. and Mrs. Richard M. Field were awarded the plaque for the best disciplined lawn and yard of the month by the Redstone Arsenal Officers Wives Garden Club. The Fields live at 283 Skinner Drive. Judging was done by Mrs. R. P. Davidson and Mrs. J. B. Cobb.

COMPETE AT BRIDGE

Among the nine tables playing Monday Party Bridge competition in the Squirrel Hill Officers Club last week, Einar Nelsen and Mrs. Winford Patton were winners for men and women respectively. Runnersup were Lt. Joseph Davis and Mrs. Eugene Krembs. Mrs. Jerry Maloy, 877-5672 handles reservations to play with the group.

At the Service Club

By: Brenda Hanson

The Service Club is an oasis this month from the terrific Alabama heat. Even the native Alabamians are complaining, and we're not knocking Alabama, just the heat. The air-conditioning makes working and playing here very pleasant. Those seeking relief from the heat and those looking for diversion are finding a variety.

Wednesday night, instead of the usual dance instruction, we are having a practice session. Molly will help you master intricate steps, and single ones beginning at 7 p.m.

Thursday, the pendulum swings to cards. If you enjoy playing cards, come to the Service Club around 7:30 p.m. You're sure to find a card game.

I see on the schedule, we plan a Pool Contest at 8 p.m. that night. Since pool is the game most in demand, the contest should be hotly competitive and trying on the contestants' nerves. Prizes will

go to the winner.



CITATION—Col. Thomas W. Cooke (right), Commander, U. S. Army Missile Support Command, presents a citation from the Third U. S. Army Special Services Section to the Redstone Arsenal Service Club staff for placing first in the annual Army-Wide scrap book contest—an illustrated history of the year's events at the Club. The hostesses are (left to right) Misses Brenda Hanson, Betty Hayes and the director, Molly Patterson. This is the third time the Redstone staff has placed first in Third Army, the fourth time they have entered the contest.

On Saturday night, the 24th, at 6:30 p.m., we have a "Chuck Wagon Supper" planned, followed by dancing at 8 p.m. The attire for the evening dance is strictly western. You have plenty of time to get your costume ready, so don't be caught on the 24th without your six gun and spurs. Costumes are not compulsory, but I do say that those in costume have more fun.

Sunday morning Betty will serve coffee and donuts beginning at 9 a.m. Make this the first stop on your Sunday schedule. At 8 p.m., Charlie Lyle will be here to trumpet the last dance of the month into fun for everyone. All guys and gals are invited to attend. We'll be looking forward to seeing you.

Take a look at the prizes in the showcase in the lobby of the Service Club next time you come in. "That's money in them that prizes, pard, and start digging here for the fun about 8 p.m."

Tuesday night, we have a Popcorn Popping Party. This should be fun. Don't miss it. The party begins at 8 p.m.

Miscellaneous

The recent ping-pong contest was won by PFC Richard Orsini of 2nd ETC. Congratulations to you Richard.

We would like to extend an invitation to you to join our newly organized dance classes and meet our new instructor, Anastasio Perez Riuz. Perez replaces David Izen, who is leaving Redstone. David has been a swell instructor and has contributed a lot to the Club.

There are many short-timers around the club lately. My favorite question for anyone who has been around a year is "How many days?" I always get a big smile and a count-down of less than thirty days. You lucky short-timers. We will miss your smiling faces,

but we wish for you the best of success in your civilian occupation.

Lots of activities follow this months program. Stop by the club and pick up a program.

See you at the Service Club.

—Brenda

SCHOOL GROUP TO MEET

The Huntsville Citizens Committee for Better Schools will meet next Tuesday at 7:30 p.m. at Democratic Headquarters.

Reports on magazine and other library needs will be heard. The meeting is open to all interested citizens.

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Training And Support Panel Meets At Arsenal

The U. S. Army Missile Command will be host this week to the first Training and Support Panel for representatives from throughout the U. S. Army Materiel Command and other Army agencies. Lt. Col. Lewis M. Anderson, who heads the Personnel and Training Office, is in charge of arrangements for the meeting which will be held Aug. 13-15. James G. Goodwin, chief of the Training Division in Col. Anderson's office, will act as moderator and chairman for the panel discussions. He is a permanent member of the panel. Other permanent members are Phillip Webb, U. S. Army Materiel Command; Col. Willis S. Reddick, Continental Army Command Headquarters; Col. M. V. Kirkbride, Office of Personnel Operations; and Lt. Col. R. M. Pearce, U. S. Army Com-

Comptrollers Hear Ray Elliott Lecture

Ray Elliott, of the Management Science and Data Systems Office, U. S. Army Missile Command, presented an orientation lecture at Syracuse University Friday.

Speaking to the Army Comptrollership School, Elliott's subject was "Organization and Management of Missile Systems".

The Comptrollership School is a contract arrangement between the Department of the Army and the College of Business Administration of Syracuse University. Classes, comprised of officers and DA civilians, are 14 months in length and graduates receive a Master's Degree in Business Administration.

Elliott received a Master's Degree from Syracuse in July 1962. He holds an AB Degree from the University of Alabama.

bat Development Command. Other representatives scheduled to attend are: Lt. Col. H. B. Dinkins, Office of the Assistant Chief of Staff for Force Development which deals with Materiel Requirements, Doctrinal Media and Training; Dr. R. S. Boldt, Army Research Office; Dr. J. C. Rupe, Human Resources Research Office; K. W. Deasy, Armor Maintenance Board, Ft. Knox, Ky.; J. B. Weldon, Continental Army Command; J. W. Montgomery, U. S. Army Weapons Command; J. M. Kohn, U. S. Army Munitions Command, and W. M. Stevens, U. S. Army Test and Evaluation Command.

The panel will review training and support actions associated with missile systems under development at the Missile Command. This review is one of a series that will be conducted periodically at all subordinate commands of the Army Materiel Command.

Col. Foster L. Furphy, Chief of Staff for the Missile Command, is scheduled to open the meeting. His talk will include importance of coordination and timely training as well as man-machine relationships in modern weaponry.

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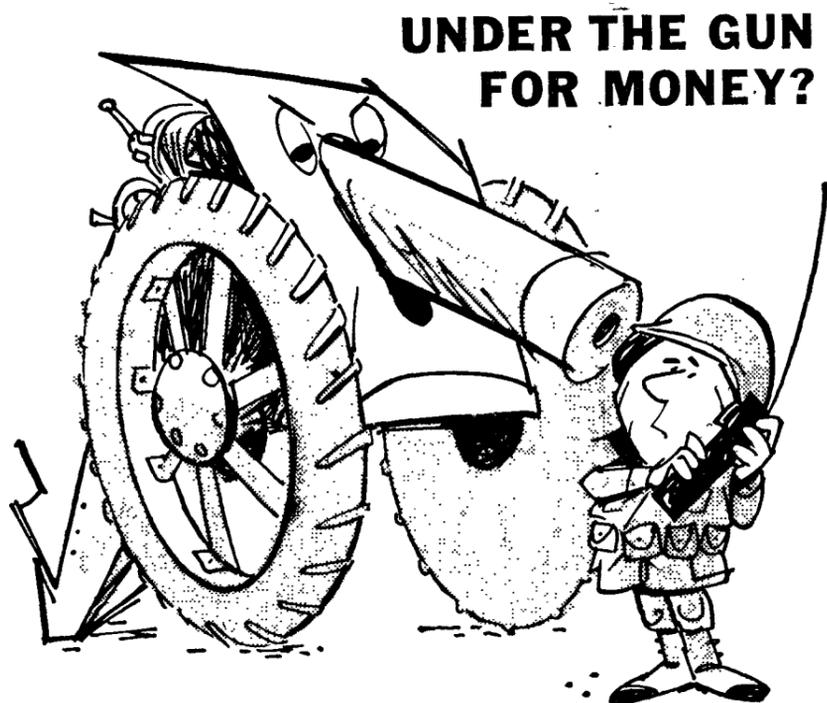
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High Power Riflemen Take Seven Trophies

The Redstone Arsenal High Power Rifle team raised a Mushroom cloud of gun smoke over the Atomic City of Oak Ridge, Tenn. when they attended the South-Central Regional Matches on the 27, 28 and 29 of July.

The team members bulls-eyed themselves to victory for a total of seven awards.

The Hot-Shot for the three day shoot was M/Sgt Lester W. Bucks, Company B, School Troop Command, U. S. Army Ordnance Guided Missile School. Bucks, who holds the Distinguished Medal, firing in the Master Class, tied for first place in the 200 yard rapid fire match. A shoot-off was held to break the tie and Sgt. Bucks was the victor. He also took third place in the 600 yard slow fire match and fourth place in the 300 yard rapid fire match.

Sfc James R. Dillon, Headquarters, Unit Training Command, USAOGMS, firing in the expert class,

REDSTONE DOWNS UNION GROVE 6-2

In a seven inning game played at Linton Field Aug. 2, Redstone won over Union Grove, 6-2.

Redstone's runs came in the second and third inning, when they scored 4 and 2 runs respectively. In Redstone's half of the second, with one out Irv Lyles got on a walk.

Ed Drabczyk, Redstone pitcher then got hit with a pitch ball to make it first and second. The next man up struck out making it two out and he was followed by a walk to load the bases.

A walk and a wild pitch to the next batter scored two runs and making it first and third. Bennie Aughtman then drilled one up the middle to bring in two more runs. The third out came when Aughtman trying to stretch the single to a double got caught in a run down, in the mean time allowing the runner from first to score.

In the third Redstone got two more runs. With two out, Vinnie Gebhard got on an error, followed by a walk to Irv Lyles.

An error by Union Grove's first baseman permitted Gebhard to score and thereby moving Irv Lyles to third. A wild pitch to Al Elliott the next batter brought in the second run of the inning. Union Grove didn't make their bid until the seventh, when W. Thomas, center-fielder belted one over the left-center field fence. The other run came about when pitcher Barnett walked. He then stole second and scored on an error by Redstone. Ed Drabczyk then struck out the last man and thereby won another one for the Rockets.

Union Grove		ab	r	h
Hankins, ss	2	0	1	
Garrett, 3b	2	0	0	
King, c	3	0	0	
W. Thomas, cf-p	3	1	1	
Barnett, 2b-p	2	0	0	
D. Thomas, lf-lb	2	0	0	
C. Thomas, p-cf	2	1	0	
J. Saylor, rf	3	0	0	
B. Saylor, lf-lf	3	0	0	
Medley, ss	1	0	0	
TOTALS	23	2	2	

Redstone		ab	r	h
Aughtman, 3b	4	0	2	
Sabourin, c	4	0	0	
McNutt, cf	3	0	1	
Gebhard, ss	3	1	0	
Lyles, 2b	1	2	1	
Drabczyk, p	1	1	0	
Elliott, lf	3	0	0	
Parker, rf	2	1	1	
Ramirez, lf	2	1	0	
TOTALS	23	6	5	

Union Grove .. 0 0 0 0 0 2 X X—2
Redstone .. 0 4 2 0 0 0 X X X—6
The Rockets this week will be at Ft. McPherson where they will play a twin bill. This is an exhibition game in preparation for the coming Third Army Tournament Aug. 26-30.

placed third in the 600 yard slow fire match.

SFC William P. Riede, Company B, USAOGMS, firing in the sharpshooter class, placed second in the 300 yard rapid fire match, missing first place by a one "V" count.

SP/4 Thomas A. Hicswa placed third in the 600 yard slow fire and S/Sgt Harold E. Pounders copped second. Both members are shooting in the marksman class.

M/Sgt. Bucks, SFC Riede, SFC Carl R. Franquet, Company A, School Troop Command, USAOGMS, and SP/6 Pounders made up the four man team which entered the 1000 yard team match. They copped fourth place overall with 26 teams participating and placed second in the expert class.

The Redstone Arsenal Shooters competed against teams from special Forces and XVIII Air Borne Corp, Ft. Bragg, Ft. Gordon, 101st Air Borne, Ft. Campbell, Ft. Rucker, Shaw Air Force Base, Georgia State Team, Tennessee State Team and several Army, Navy and Marine Reserve Teams.

SFC Riede, replacing Sgt Buford Harrison as team captain, reassigned overseas, says he is elated at the fine showing the team made, especially now that the team consists of almost all new personnel.

SFC Riede says he would like to point out that his team coach, SFC Franquet, is at a disadvantage in training the team as there is no high power range on the Arsenal for practice. In overcoming this disadvantage, the team has taken twenty-six awards so far this season.



MEDARIS TROPHY—Mrs. V. J. Laver (left) accepts the congratulations of the Ginna Medaris Tournament Chairman, Mrs. Charles Payne (center), and runnerup golfer, Mrs. D. F. Shepherd. Mrs. Laver won the trophy donated to the Golf Group of the Redstone Arsenal Officers Wives Club by Mrs. J. B. (Ginna) Medaris for an annual tournament. Mrs. Laver's name will be engraved on the permanent trophy on display in the Arsenal Golf Clubhouse. Both she and Mrs. Shepherd will retain the trophies they hold.

FIELD TRIAL MEETING

An organization meeting of a Field Trial group is planned at 7:30 p.m. in the Community Center TV room Aug. 20.

Marvin Carrol, 534-6094 and John Warmbrod, 772-6268 are handling details.

The team will depart for the National Matches at Camp Perry, Ohio, on August 16. They will attend the small firing school before the matches.

SFC Riede says with the schooling at Camp Perry and the improvement the team has shown, he expects the team to make a fine showing.

Junior Golfers Compete With Wives Club Golfers

Senior members of the Junior Golf Group competed in a dog fight with team members of the Redstone Arsenal Officers Wives Golf Group Wednesday.

Mrs. Charles Payne was captain of the winning team which included Dave Pearce, Mrs. John Miller, Buster Cobb, Mrs. R. J. Schofield and Wayne Poole.

Captain for the runnersup was Chuck Graham. His team included Mrs. Frank Napper, Pat Sullivan, Dave Maurer and Bill Macpherson.

Junior Golfers Play Low Gross, Low Net

Senior members of the Junior Golf Group at Redstone Arsenal played for low gross, low putt, low net Thursday—with Jay Loomis taking low gross, Nat Sullivan and Les Mendenhall tying for low net and Dave Pearce winning low putt with an 11.

Junior players were shooting for low gross and low net. John Miller shot low gross, John Donnelly low net.

Aug. 7, 1942—U. S. MARINES occupied Guadalcanal, Solomon Islands.

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"Motor Trend's" CAR OF THE YEAR AWARD IS RAMBLER'S FOR 1963

Missile Support Command Wins Softball Tournament

Hq. Missile Support Command with excellent pitching, hitting and fielding came out on top in the post softball tournament. Pitcher Gene Cagle and his court lost only six games during the season while winning 27. AMSC took first place early in the season and was never uprooted from it.

Much of the stiff competition during the season was provided by Co. A OGMS and the Officers. At one point Co. A came as close as two games behind. A great deal of Hq. AMSC success can be accredited to the fine support from their rooting section.

Hq. AMSC is now playing exhibition games with different teams in the Huntsville area, in preparation for the Third Army Softball Tournament Sept. 9-13.

**Denotes that team has won the league

Bowling Score Board

League Standings

THURSDAY NIGHT LADIES

Team	Won	Lost
Team No. 4	28½	15½
Team No. 3	27½	16½
Team No. 7	24	20
Team No. 8	22	22
Team No. 2	21	23
Team No. 1	20½	23½
Team No. 5	20½	23½
Team No. 6	12	32
High Team 3 Games:		
Team No. 8—2321		
High Team Game:		
Team No. 1—791		
High Individual 3 Games:		
A. Iber—703		
High Individual Game:		
A. Iber—264		
High Individual Average:		
F. Sullivan—163		

MEN'S SUMMER LEAGUE

Team	Won	Lost
UTC Raiders	29	7
Co B	24	12
Hq. STC	21	15
291st MP Co.	18	18
Section Ates	18	18
Cellar Dwellers	17	19
High Team 3 Games:		
UTC Raiders—2750		
High Team Game:		
UTC Raiders—979		
High Individual 3 Games:		
Gozdecki—638		
High Individual Game:		
Gozdecki—271		
High Individual Average:		
Bob Krieger—176		

RSA SCRATCH TRIO LEAGUE

Team	Won	Lost
Drifters	41	19
Russells	40	20
Strikers	35	25
Rinky Dinks	33	27
Winners	22	38
VIP's	21½	38½
Mitchells	20½	39½
High Team 4 Games:		
Russells—2151		
High Team Game:		
Russells—627		
High Individual 4 Games:		
Stan Douglas—804		
High Individual Game:		
Russell Voisene—239		
High Individual Average:		
Dave Moore—180		

Arsenal Pistol Team Places 4th At Camp Perry Matches

Redstone Arsenal's pistol team came home from the Annual National Matches at Camp Perry, Ohio with fourth place in the .22 caliber expert class.

Sgt. Roland Martin of the Army Missile Command fired a blazing 292-10X out of a possible 300 points to lead the team.

According to team captain, SFC Elmer Biel of the Medical Detachment, Army Missile Support Command, the firing members of the team were Capt. Peter Neilson, Headquarters Company, Student Training Command, Ordnance Guided Missile School; Sgt. Martin, SFC. Wesley Johnson, Company C, STC; and PFC. Stephan Mihalak of the Missile Support Command.

Sgt. Martin also led the team in the center fire team matches while

Capt. Neilson led in the .45 caliber service pistol event.

PFC. Donald Stadelman, Headquarters Company, Unit Training Center, OGMS, won the .22 caliber rapid fire event in the sharpshooter class. Capt. Neilson won six awards—a first with the .45 service pistol, first in centerfire aggregate; second in the .22 match and second in the grand aggregate.

Among the 2000 competitors at Camp Perry, SFC. William Blankenship exceeded his own record to take top honors for the fourth consecutive year as National Champion. He is the only man to win the matches more than twice in succession. Two others exceeded his old record: Capt. William McMillan and Sgt. Alvin Merx of the Marines and Air Force respective-

Twenty spaces are open to Air Force regular or reserve officers to participate in the National Security Seminar scheduled Dec. 2-13 in Huntsville.

An Air Force Board will screen all applicants for the seminar, according to an announcement from the Adjutant of the 2496th Air Force Reserve Sector office at MacDill Air Force Base, Fla. The Adjutant issued an invitation for applications.

Before the competition began, everyone attended the Small Arms Firing School.

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Gen. Wheeler Talks On Nike X System

On a recent broadcast of the American Broadcasting Company's "Issues and Answers" radio and television program, Gen. Earle G. Wheeler, Army Chief of Staff, discussed the nuclear test ban and the Army's new Nike X Anti-missile System, among other subjects.

Gen. Wheeler, in response to questions from Richard Bate, ABC Pentagon Correspondent, and Edward P. Morgan, a network commentator, gave his views on the issue of how a test ban treaty would affect America's anti-missile defenses.

Below is a transcript of a portion of the Chief of Staff's remarks.

MR. BATE: Perhaps you could tell us some of the things that you as a military man have to consider when such a proposal as the test ban treaty is put before you. For example, isn't it true before you can successfully develop an anti-missile missile, we do need to continue testing and perhaps need to test in the atmosphere? in space?

GEN. WHEELER: I think you can say this: We can develop an anti-missile missile from what we now know and from what we could do underground. The question is the relative effectiveness in economy. In other words, to get the ultimate in economy and the ultimate in effectiveness, we perhaps might have to have a test in the atmosphere.

This again is one of the technological areas that I was talking about as being the ones we

have to explore.

MR. MORGAN: Let me interject this there, Gen. Wheeler: I realize there is a great debate on an expert and non-expert level as to how much security you can get even though you have an anti-missile missile.

I believe the Secretary of Defense himself has indicated that there isn't any really visible defense against a missile, even though you can build one that will shoot one down.

I was struck by a letter that I saw in the New York Times today, a letter to the Editor from a professor, a physicist at the University of Pennsylvania. I was struck particularly by this sentence—and he was in favor of the treaty: "Neither side can achieve security by its efforts alone," and he concluded from that if we okayed the treaty that the working of the treaty would bear this out.

Do you agree with that line of

reasoning?

GEN. WHEELER: I believe he has rather oversimplified the problem to tell you the truth. I would certainly agree on a general thesis if you have both your opponents and yourselves working for peace and security, you are probably more likely to achieve it than by working for it alone. Coming back to the anti-missile missile, I have the feeling that we can achieve an effective anti-missile missile. In fact, the Army is working on one right now that shows considerable promise. This

is the Nike-X.

The advantages of having such a defense to deploy would be that you first increase your own defensive capability. Second, you increase your deterrent posture because defense and offense really complement each other.

Third, I believe there would be a rather sizeable psychological advantage to be gained. In other words, from my point of view, as I look at it—and of course there are plenty of people who don't agree with me—this would be a most desirable military development.

Safety Cautions About Use Of Gas

The Army Missile Command's Safety Division today cautioned military and civilian personnel against improper use of gasoline as a cleaning solvent.

The warning was issued by Tom Davidson, Chief of the Missile Command's Safety Division.

Davidson pointed out that improper use of gasoline as a cleaning solvent recently resulted in fatal burns to two members of the military service at another military installation.

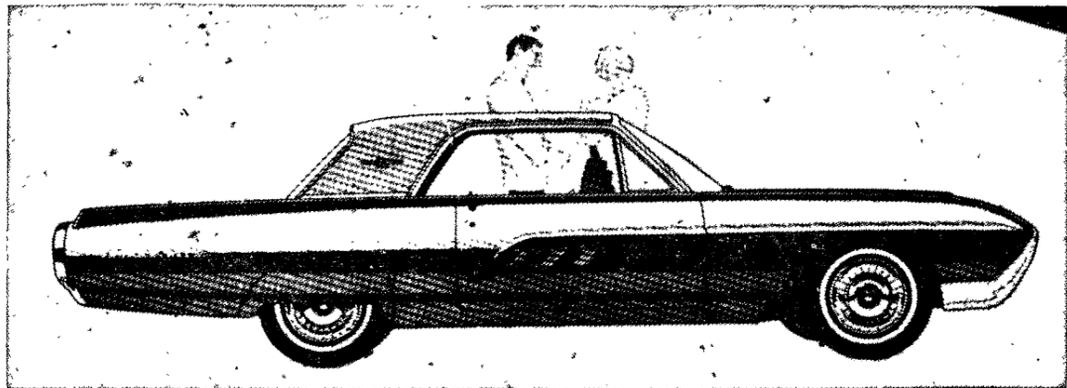
He advised safety officials throughout elements of the Missile Command to point up in safety lectures that gasoline is not intended to be a cleaning fluid.

Approved solvents are available to civilian and military personnel for official purposes, he said.

Davidson urged supervisors to review their standing operating procedures regarding cleaning solvents, and to assure that members of their organizations use only authorized fluids.

He also warned military and civilian personnel against improper use of gasoline in their residences.

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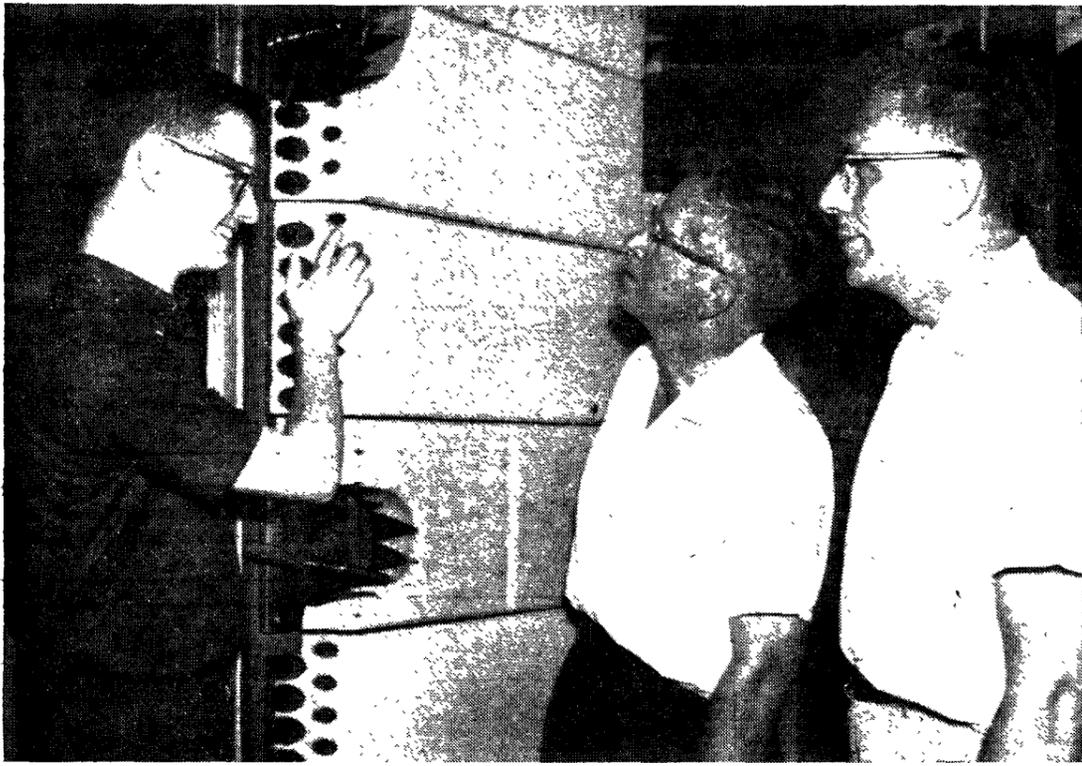
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STUDY GROUP VISITS—Three members of the National Science Foundation's Institute of Nuclear Study inspect a lining in the walls of an isolated area at the Army Missile Support Command's Calibration Center. Left to right are Sheldon Wettack, San Jose, Calif., Dr. C. J. Carver, director of the Institute, and Col. (Ret.) J. E. Morris, Atlanta, Ga. More than 30 members of the institute toured Army facilities at Redstone Arsenal recently.

Plunkett Schedules Talk On Module Connectors

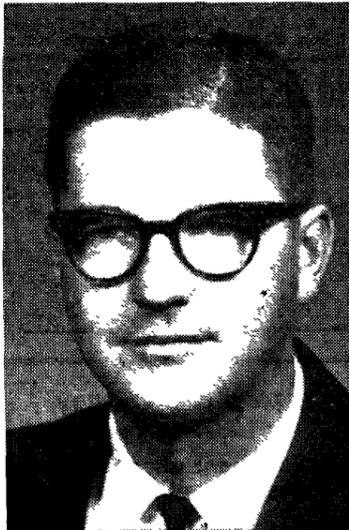
An electronic engineer and inventor from the Army Missile Command's Directorate of Research and Development will tell about electronic module connectors at the Fourth International Symposium on Electronic Circuit Packaging. The meeting will be held Aug. 14 through 16 at the University of Colorado at Boulder.

Wayne Plunkett of the Command's Inertial Guidance and Control

Laboratory is one of 20 persons selected to present a technical paper at the symposium, about 500 experts in the electronic circuit packaging field are expected to be there.

The module connectors to be described were developed by Plunkett and Dan Criswell, an electronic technician who works with Plunkett in the GSE Laboratory.

The module connectors are used to connect wiring and electronic components to circuits "printed on a circuit board. Ordinary electronic connectors use the pin and socket method similar to the ordinary



WAYNE PLUNKETT

electric household plug.

Plunkett said the major advantages of the module connecting method is that it saves space and makes maintenance or replacement easier. Both factors are important in complex missile systems which may have thousands of electronic connectors.

Plunkett has worked with the Army Inertial Guidance and Control Laboratory since 1956, and is currently chief of the Electronics Development Section in the Laboratory's Prototype Development Branch. During 1956-58 he served 18 months as a soldier in the Laboratory under the military scientific program.

Aug. 7, 1782—The "Purple Heart" instituted by George Washington.

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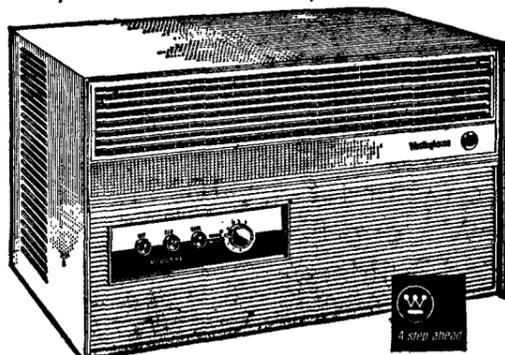
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Page 14 The Redstone Rocket — August 14, 1963

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GUNTSVILLE LAKE LOTS FOR SALE—Contact W&W Land Co., 106 North Lincoln St., Huntsville. Phone 534-1451. tfc

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FOR SALE — Full brick G.I. nothing down, no closing most. FHA min. down, 4 bedrooms and separate den, 2 ceramic tile baths, completely built-in kitchen, GE range, dishwasher and garbage disposal, central air condition in Southeast Huntsville. \$22,300.00. Phone 881-0152. Ensor Real Estate. tfc

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 tfc

NEW HOME Completely furnished, 3 bedroom and den, built-in G.E. range, garbage disposal, G.E. refrigerator, washer and dryer, 3 complete bedroom suites with mattress and springs, living room suite, breakfast room suite with 6 chairs (all new furniture). G.I., Nothing down, \$150.00 closing. FHA minimum down \$150.00, closing. Phone 881-0152, Ensor Real Estate Co tfc

FOR SALE — 3 b.r. brick, 2 baths, large corner lot with fenced in back yard, near school, 3111 Pulaski Pike, \$17,800.00, phone 536-6776. tfc

WATERFRONT LOT—100' frontage on Elk River, lot no. 28, Elk Estates, purchased for \$1850.00, our equity, \$930.00, best offer, phone 534-7836. 1tc

FOR SALE — 1 lot, 200' x 300', located five miles south of Athens on Highway 31. Contact Mrs. Allen Williamson, Athens 232-3382. 1tc

FOR SALE—3-bedroom house, brick veneer, 2 ceramic tile baths, family room and kitchen combination, living and dining room combination, built-in kitchen, easy terms. It's ready now. See or call Jesse Black, Arab, 586-4515. 1tc

FOR SALE—3-bedroom house being built on prior commitment, VA 100% loan. Brick veneer, 2 ceramic tile baths, built-in kitchen, living and dining rooms. Will be ready in four weeks. See or call Jesse Black, 586-4515 Arab, Ala 1tc

The Treasury reached a milestone in U. S. Savings Bond sales with its recent sale of \$25 E Bond No. 2,000,000,000.

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AFTER THE STORM—(Left to right) Dianne Elliott, Raymond Fennell and Gordon Sheldon watch Jimmie John of the Arsenal's Roads and Grounds division of the Post Engineer clean up a tree felled by the storm in Redstone Park last week. The tree shaded the quarters of PFC. and Mrs. Ken Dupar, natives of California. He is in an administrative office at the Ordnance Guided Missile School and she is working as a registered nurse at a Huntsville Hospital. Dupars were home when the storm hit and watched the tree fall.

Freedoms Foundation's Annual Contest Begun

WASHINGTON (ANF)— Would you like to win a cash award of \$1,000? Then write a letter of 500 words or less on the subject: "What Can I Do For Freedom?" Mail the letter to the Freedoms Foundation, Valley Forge, Pa. Entries must be postmarked not later than November 1, 1963.

Even if you don't cop the big prize, there are 100 other cash prizes totaling \$7,500, with 50 of these awards having a value of \$100 each and the rest valued at \$50 each. Every winner will receive a George Washington Honor Medal in addition to the cash prize.

Competition is open to all members of the Armed Forces on active duty, including cadets and midshipmen of the Service academies. Dependents of military personnel and civilian employees of the Armed Forces are not eligible.

Type or write your letter legibly on one side of the paper only. Give your full name, rank or rating, serial number, branch of Service, unit address and home ad-

dress. The ten top winners will be invited to Valley Forge, Pa., for an awards ceremony to be held on George Washington's Birthday. From Valley Forge, the winners will go to Washington, D. C. and visit briefly with chief officials of their respective Services.

Movie Schedule

- *****
- WEDNESDAY, August 14
"The Explosive Generation" (M)
- THURSDAY-FRIDAY, August 15-16
"The Wonderful World of the Brothers Grimm" (F)
INCREASED ADMISSION: Adults 50c, Children 25c
- SATURDAY, August 17
"The Young and the Brave" (F)
- SUNDAY-MONDAY, August 18-19
"The Girl Hunters" (M-YP)
- TUESDAY, August 20
"A Matter of Who" (M-YP)
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

Aug. 28, 1943—American troops secured New Georgia, Solomon Islands, which had been a most strategic position of defense for the Japanese.

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Post Library

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Non-Fiction

Burns, James MacGregor, "The deadlock of democracy; four party politics in America."

Callahan, Raymond E., "Education and the cult of efficiency; a study of the social forces that have shaped the administration of the public schools."

Carrell, Paul, "Invasion—they're coming!"

Horne, Alistair, "The price of glory; Verdun 1916."

Miller, William J., "The Meaning of Communism."

Morison, Samuel Eliot, "One Boy's Boston, 1887-1901."

Osanka, Franklin Marked, "Mod-

ern Guerrilla Warfare; fighting Communist guerilla movements, 1914-1961."

Overstreet, Harry Allen, "The Iron Curtain: where Freedom's offensive begins."

Peale, Norman Vincent, "The Power of positive thinking."

Ruhen, Olaf, "Tangaroa's god-child."

We Seven, "We Seven, by the Astronauts themselves."

Biography

Bazna, Elyesa, "I Was Cicero."

Bowers, Claude Gernade, "My Life: the memoirs of Claude Bowers."

Dooley, Agnes (Wise), "Promises to keep: the life of Doctor Thomas Dooley."

Edwardes, Michael, "Nehru, a pictorial biography."

Fishwick, Marshall W., "Lee After the War."

Fowler, Will, "The Young Man From Denver."

Hallinan, Vincent, "A Lion In Court."

Jones, Ken, "Admiral Arleigh (31-knot) Burke; the story of a fighting sailor."



ARMOR-PLATED AUTOMOBILE—1st Lt Fred S. Raymond, Jr., apparently believes in advertising his branch of the U. S. Army. The officer, an instructor in the Communications Department of the U. S. Army Armor School at Fort Knox, Ky., requested the plates from his home state of New Hampshire. Lieutenant Raymond is from Keene, N. H.

LOCAL PURCHASES ADD UP TO MORE THAN \$875,000

Army Missile Command purchases and awards ranging from 66c to \$160,000 and adding up to more than \$875,000 were made in the Southeast during July. This is the money spent for office supply items, repairs for machinery, building supplies and machine rental to support the rocket and guided missile programs.

Rentals and services for business machines paid annually, as well as orders for varied items, ran up the total spent in Birmingham to approximately \$532,000.

Huntsville business concerns received \$335,000.

Firms in other Alabama cities shared orders totaling approximately \$12,000.

Orders to Tennessee and Georgia companies amounted to more than \$10,000.

New Jersey, Illinois, Pennsylvania, Colorado, California, Missouri, Massachusetts, Michigan and North Carolina firms received \$998,628 worth of awards to cover such items as a cleaning unit for propellant systems, custodial services, and photographic support.

The Purchasing and Contracting Office and the Procurement and Production Directorate administer these orders which do not include contracts for a million dollars or more awarded for procurement of missiles, rockets and their allied equipment.

ANSWER TO WHERE ARE YOU?

Its a Hermes and this one is located in the triangle in front of the Redstone Arsenal headquarters building. An interesting thing about the Hermes is that the project was begun in 1944—and that makes it a real old timer.



ARMY COIFFURE—Newly-enlisted Private Howard Kim of Honolulu does not appear to fully appreciate his new hair style. He is having his first taste of Army life at the hands of a civilian barber at Schofield Barracks, Hawaii. Private Kim, one of 299 members of the U. S. Army's ninth All-Hawaii training company, will be able to let his hair grow back after completing eight weeks of basic training at Fort Ord, Calif. The new soldiers face one other "hair-raising" experience before sailing to the mainland—inoculations.

Nutting, Anthony, "Lawrence of Arabia: the man and the motive." Springer, John, "Innocent In Alaska; the story of Margaret Knudsen."

Lesson For Today:

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