

Western Electric Awarded Nike X Contract

The Army announced today a major award—\$20,420,580 contract—for development of its new Nike X anti-missile system.

The award was made to the Western Electric Co. as a supplement to the Nike Zeus contract.

Nike X is an outgrowth of the Nike Zeus system. It is expected to provide much greater effectiveness than the Nike Zeus against ICBMs.

The Nike Zeus Project Office at Redstone Arsenal said roughly half of the funds would

be spent on development of the Nike X Multi-function Array Radar (MAR). The MAR is to replace one or more of the present Nike Zeus radars.

This new radar will incorporate better discrimination techniques, which will improve the ability to discern between an ICBM warhead and decoys that might be flown with it.

Construction of a prototype MAR has commenced at White Sands Missile Range, N. M.

Western Electric and its subcontractors will also perform re-

search and development work on many other new components for the system, including a new computer. The computer, the project said, would be designed for greater speed and data traffic handling capabilities than the present Nike Zeus computers.

Col. I. O. Drewry is the chief of the Nike Zeus Project Office which directs the Nike X development for the Army Materiel Command.

The Nike X system will also employ the Sprint Missile which

is shorter and faster than the 48-foot Nike Zeus missile. Contracts have already been awarded for development of the Sprint and its propellant.

The decision to develop the Nike X System as a follow-on, or advanced version of the Nike Zeus, was made early this year. The current Nike Zeus testing program will be continued since a number of the system's components will be used in Nike X.

Work under this contract will be performed at Western Electric

Co. plants at Laureldale, Pa.; Burlington, N. C.; Greensboro, N. C.; Bell Telephone Laboratories at Whippany, N. J.; Remington Rand Corp. at St. Paul, Minn.; General Electric Co. at Syracuse, N. Y.; and the Sylvania Co. at Waltham, Mass.

Western Electric is the prime contractor for Nike X and Bell Telephone Laboratories has system design and development responsibility. Martin-Marietta is the subcontractor for the Sprint missile.

**Observe the 4th
of July safely.
Have a Happy
Holiday
Tomorrow.**

The Redstone Rocket

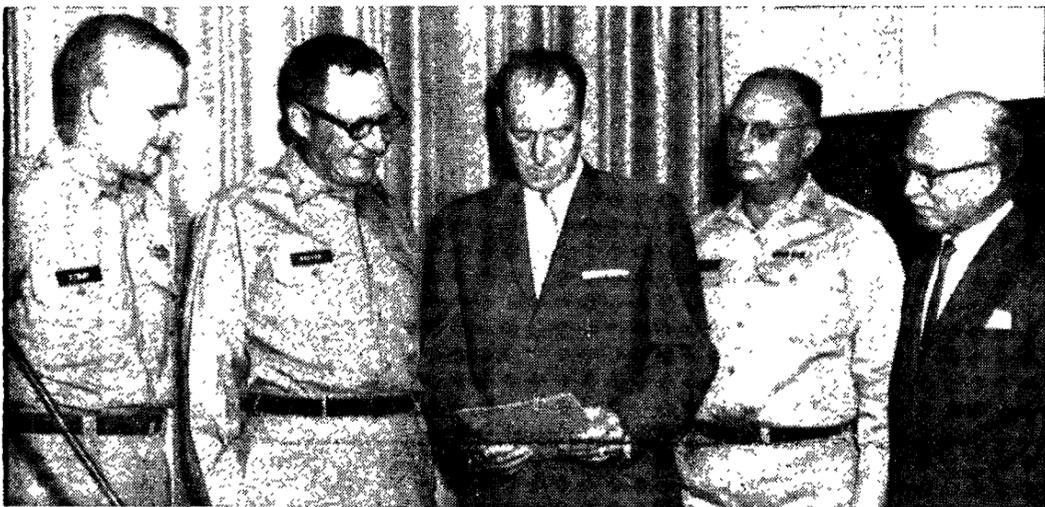
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VOL. XII; NO. 8

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

July 3, 1963

Chez-Pup Will Test Arsenal Defense Readiness



LAW ENFORCEMENT MEETING—Law enforcement representatives of military installations in Alabama met with local and state officials at Redstone Arsenal this week to discuss law enforcement practices. Left to right are Capt. Jimmie D. Bynum, Craig Air Force Base, Selma, Ala.; Lt. Col. Thomas H. Becton, Fort McClellan, Ala.; Madison County Sheriff L. D. Wall; Col. William Luk, Provost Marshal and Troop Commander at Redstone Arsenal and Dr. W. H. Y. Smith, State Dept. of Health, Montgomery.

Law Enforcement Men Visit Arsenal

Law enforcement representatives of military installations in Alabama met with local and state officials at Redstone Arsenal last week to discuss law enforcement practices.

It was the quarterly meeting of the Armed Forces Disciplinary Control Board, designed to maintain constant liaison between military, state, and local law enforcement agencies.

Official host for the meeting was Col. William Luk, Provost Marshal and Troop Commander at Redstone Arsenal. Presiding over the meeting was Lt. Col. Thomas H. Becton, Provost Marshal, Fort McClellan.

Others attending included Madison County Sheriff L. D. Wall; Dr. W. H. Y. Smith and Willard W. Pope, both of the Alabama Department of Health, Montgomery; Capt. Armond E. Harris and M/Sgt. Homer L. Richardson, both of Maxwell Air Force Base.

J. Ed Pepperman, U. S. Brewers Assn., Montgomery; Lt. Col. T. S. Nuse, Provost Marshal, Aniston Army Depot; Capt. Jesse C. Richardson, Chief, Security and Law Enforcement, Craig AFB; (See LAW on Page 3)

Representatives of all key organizations at Redstone Arsenal were told in a special meeting Tuesday that simulated "world tensions" are growing increasingly serious.

It was the first phase in the largest passive defense exercise ever scheduled in North Alabama. Sometime during the third week of July, this giant 40,000 acre installation will be evacuated as the climax of the exercise.

More than 20,000 people will leave their jobs and proceed to their residences in accordance with planned evacuation procedures.

Participating in the exercise will be Huntsville and Madison County Civil Defense organizations. Civilian units will assist in the Redstone Arsenal exercise.

In general, the purpose of Exercise Chez-Pup (pronounced "shape-up") is to test the effectiveness of Redstone Arsenal's passive defense plans.

Maps of Redstone Arsenal evacuation routes and other pertinent information will be published in the installation's Daily Bulletin.

Throughout this month, key representatives of major organizations will receive periodic notification of simulated build-up of world tensions.

At given points, various increasing readiness postures will be declared, as if Redstone Arsenal was actually preparing to evacuate the post because of threatened attack.

During the buildup, Emergency Operating Force representatives of each primary organization will leave their offices and go to an assigned Emergency Operating Site.

At the height of the tension, civil defense experts will declare (See CHEZ-PUP on Page 3)

Hercules, Hawk Contracts Total More Than \$8 Million

Firms in four states have received awards totaling \$8,938,721 to fund work on the Hawk and Nike Hercules missile systems, and for production of target missiles, the Army has announced.

A \$2,698,925 award to a New York State company, Belock Instrument Co., College Point, will add new capabilities to a training device to be used in teaching Hawk missile operators.

The elaborate training device is designed to simulate battlefield

conditions electronically. The trainer, housed in a van like the (See HERCULES on Page 3)

Colonel McBride Assumes Duties At Missile School

Col. George H. McBride assumed his duties as Assistant Commandant of the Army Ordnance Guided Missile School here last week. (See COL. McBRIDE on Page 3)

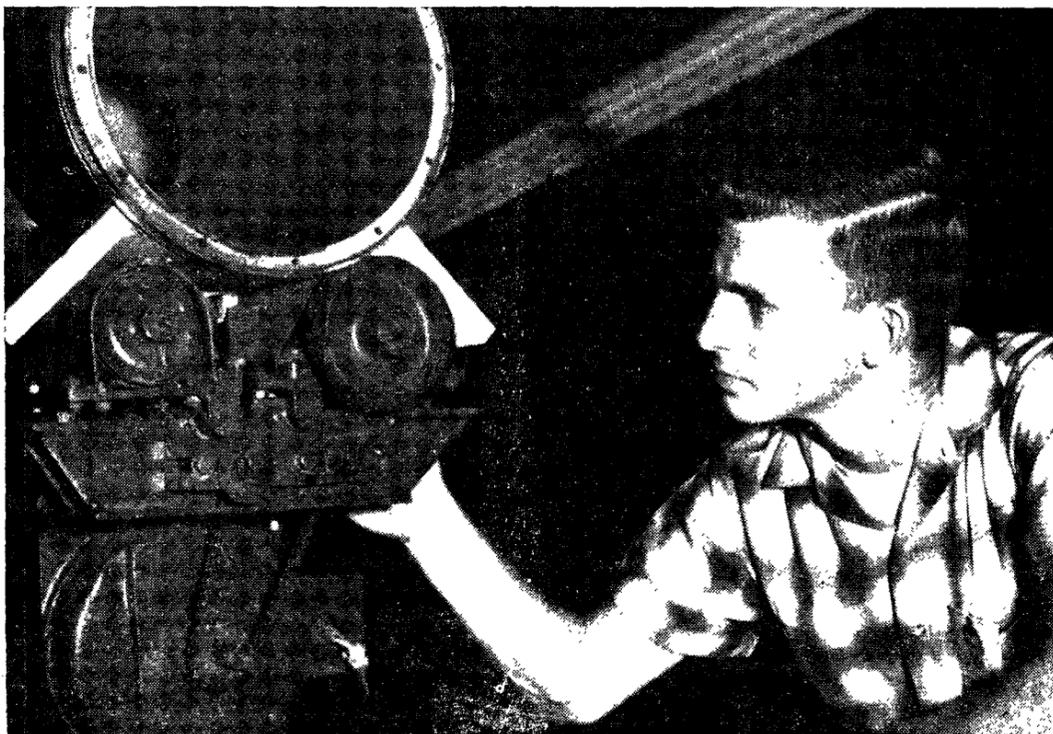
Scholarship Award Given James Hooie

A young engineer at the Army Missile Command has been awarded a three-year scholarship valued at \$10,000 to continue his studies toward a PhD degree at Auburn University.

He is James W. Hooie, 23, an engineer in the Ground Support Equipment (GSE) laboratory of the Research and Development Directorate.

Hooie was recently graduated from Auburn with a Bachelor of Science degree in mechanical engineering under a student cooperative program between Auburn and the Army Missile Command.

The mechanical engineering scholarship is sponsored by the (See SCHOLARSHIP on Page 3)



SCHOLARSHIP WINNER AND LITTLEJOHN—James W. Hooie, 23, one of the youngest mechanical engineers in the Army Missile Command's Directorate of Research and Development, has received a three-year \$10,000 scholarship to obtain a PhD degree in mechanical engineering from Auburn University. Hooie inspects a research model of Littlejohn launch equipment developed in the Ground Support Equipment Laboratory which led to the SOSR (Spin on Straight Rail) concept adopted in the tactical Littlejohn system. The Littlejohn has occupied much of Hooie's time since he began work with the GSE laboratory under the student cooperative program about five years ago.

Army Gives Orders For Pershing, Hawk And Sergeant

Awards totaling \$13,841,571 for work on three U. S. Army missile systems have been announced by the Department of the Army. The missiles are the Hawk, Pershing and Sergeant.

Two awards amounting to \$7,452,077 went to the Raytheon Company to cover production of items for the Hawk missile system. The larger of the two, \$6,421,236, will fund production of high power illuminator radars for the Hawk system at Raytheon's Andover, Mass. plant.

The other award to Raytheon, \$1,030,841, is for manufacture of Hawk missile system battery sets. Work under this contract will be done at company plants in Andover, Waltham, and North Digh. (See ARMY on Page 3)

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, Huntsville, Ala.

Rocket Ruminations

TO WHAT PURPOSE

The greater part of all the mischief in the world arises from the fact that men do not sufficiently understand their own aims. They have undertaken to build a tower and spend no more labor on the foundation than would be necessary to build a hut.

—Goethe

Heritage Of Freedom

Tomorrow marks the 187th birthday of our country. While our roots are deeply buried in traditions established years earlier, the signing of the Declaration of Independence signified the determination of our people to govern as we see fit and to live in a free society.

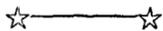
Not only did the signing of the Declaration of Independence outline our desires as freedom loving people, it laid down a responsibility of each American citizen to participate with equal vigor in the progress of our nation, to exploit our personal talents toward bettering our individual lives and the society we live in and to serve as an example before the entire world that our system of free government and economy is second to none.

Time and time again our American determination has been tested, but those who have dared have felt the sting of retaliation—and our determination to keep this way of life—has always been and always will be the envy of every other nation in the world, including the communist nations and their satellites. Proof is documented in the fact that budding new nations the world over have used our constitution and ideas of independence as the basis for their own.

On this occasion of the 187th observance of the signing of the American Declaration of Independence, every citizen, young and old, regardless of his or her position in our society, should pause and re-evaluate the role that he plays in the preservation of our heritage. After taking a close look at our contributions to our society, each of us should resolve to revitalize his sense of responsibility to his country, and devotion to American ideals. We should strive harder, and cooperatively, to help hasten the fulfillment of our nation's goals and to strengthen the world's rights and hopes for life and liberty under a free society.

The authors of the Declaration wrote, "And for this support of the Declaration, with a firm reliance on protection of Divine Providence, we mutually pledge to each other our lives, fortune and sacred honor."

It was worth paying for in "blood, sweat and tears" on many occasions. It's still a good bargain today.



Precaution Saves Lives

The Fourth of July is here. Millions will answer the call to get out and have fun.

"The summer holiday and vacation rush," said Jack Haynes, Arsenal Safety Director at the Army Missile Support Command, "prompted the National Safety Council to predict more than 800 accidental deaths in the four-day period beginning the Fourth.

"Prevention consciousness would preclude fulfillment of the prediction," he said. "Such consciousness must be the responsibility of each individual."

Records of the Safety Council show that most traffic accidents occur close to home. Increased activity on holidays increases exposure to accidents. Therefore the Arsenal Safety Office is passing along these tips:

Behind the wheel much depends on alertness and attitude of drivers so, rest stops, mileage limits each day, and driving for the other fellow are recommended.

Cars should be in safe operating condition with brakes, lights, steering alignment and wheel balance checked.

Emergency flares and flags are handy in case of mechanical failure.

First aid kits, tailored to the activity, in boats, cars and the woods should be a "must." If nothing else, a band aid can help prevent an infection from a scratch.

Fatalities from boating and swimming are high. Passengers on small craft should remain seated to maintain balance, especially in rough water; and approved life jackets should be aboard for every passenger.

Water skiers also need lifejackets at all times. Locking arms in tow ropes can be fatal. And the boatman must know the waterway.

Swimmers often overrate their ability—especially in cold water. Two or more should swim where there is no lifeguard.

Fishing from the bank: Wear boots or three-quarter shoes. Include a snake bite kit.

BOX SCORE ON SAVINGS BOND DRIVE JUNE 25

	Civ.	Mil.	Total
Missile Command Hq.			
Including Missile Intelligence Dir.	76.7%	67.7%	75.9%
P & P Directorate	76.9	90.5	77.2
R & D Directorate	74.3	51.3	72.3
S & M Directorate	71.0	73.1	71.1
Total Missile Command	74.5	63.4	73.9
Nike Zeus Project Office	56.1	53.9	56.0
AMSC	84.5	64.5	81.2
OGMS (excluding students)	94.6	89.5	84.3
Total all Army Elements	78.9	73.7	77.8

Retirement Controls Eased For Overaged Federal Employees

The Civil Service Commission asked Congress to change the retirement provision of the Civil Service Retirement Act to provide mandatory separation of employees at age 70 who have completed 5 years of Federal service.

Present rules require at least 15 years service. The Civil Service Commission feels the change would encourage appointing officers to give more consideration to, and would open more opportunities for, candidates who are older than 55.

At the same time, it would tend to reduce the number of overage employees on the rolls who have not completed 15 years service. The change, if approved, would apply only to employees hired after its passage.



WILL A. LEWIS

LEWIS ATTENDING ENGINEER COURSE

An Army Missile Command engineer is one of 40 persons from throughout the United States attending a special six-week course for engineering executives.

He is Will A. Lewis, director of the Structures and Mechanics Laboratory of the Research and Development Directorate. The course is sponsored by the Engineering Department of the University of California at Los Angeles.

Attending the special sessions are top executives in the engineering field from military, government and non-governmental agencies. The engineers will get intensive refresher courses in math and physics.

The course is based on the assumption that the evolution of science is from the complex to the simple.

Lewis and his classmates spend five and one-half days per week in classes, lectures and discussion periods. Four evenings per week are devoted to class preparation or informal group discussions with the instructors, while one evening

per week is reserved for outstanding guest lectures in the engineering field.

The course is being conducted at the Pacific Palisades section of Los Angeles.

Lewis is a native of Jacksonville, Texas.



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SCHOLARSHIP

(Continued From Page 1)

National Aeronautics and Space Administration.

Hooie spent about five years working toward his bachelors degree, working seven quarters in the GSE laboratory and 12 quarters in school. Laboratory work paid off for Hooie not only in solid practical experience, but also in better job offers. Hooie said his offers averaged \$40 to \$50 per month higher than graduates without co-op experience.

Hooie maintained more than a 2.5 average during the last seven quarters at Auburn. He graduated third in this year's class of mechanical engineers.

Much of the young engineer's time at the GSE laboratory has been spent analyzing flight and static firing data on the Littlejohn missile system.

The Hooie family, including his wife, Frances and three-year-old son James Philip, live in Rogersville, Ala. Hooie's parents, Mr. and Mrs. Horace W. Hooie, also live in Rogersville.

Hooie's scholarship is based on a \$2,400 per year grant, plus \$400 per year for each dependent. The amount is increased \$200 per year during the final two years.

COL. McBRIDE

(Continued From Page 1)

meeting the school's authorization for two full colonels for the first time since 1960. Col. Ernest W. Ewbank, served here briefly with Col. Charles W. Eifler in that year.

Col. McBride is also the first native Alabamian to hold the post at the School. His parents are Mr. and Mrs. Charles W. McBride, 3423 18th St. North, Birmingham. He attended Phillips High School there and was graduated from Auburn University.

Col. McBride reported for duty here after completing a course at the Air University's War College in Montgomery. Under the Continental Army's school organiza-

HERCULES

(Continued From Page 1)

Hawk system battery control van, allows Hawk operators to run through a realistic tactical engagement without firing a missile.

Production of the devices is scheduled to start shortly. The contract announced this week will modify the original procurement contract to fund improvements to the original design.

Another award for Hawk work, \$2,378,068 went to the Raytheon Co., for continued production of missile system components for the NATO Hawk program at company plants in Andover and Waltham, Mass. and Oxnard, Calif.

The Western Electric Co. was awarded \$2,251,728 for modification of a component of the Nike Hercules guidance system. The work will be done in the company's Burlington, N. C. plant.

A \$1,610,000 award to the Beech Aircraft Corp., Wichita, Kan., will cover production of Model 1025 target missiles for use in the Army Missile Command flight service program. The work will be done in Wichita.

Hawk was developed to provide defense against low-flying, high performing targets.

The operational Nike Hercules is now on site around key cities and government installations.

The Hawk and Nike Hercules missile systems are managed from headquarters at the Army Missile Command.

The 1025 target missile is one of those under commodity management at the Army Missile Command.

The New York Procurement District will administer the Belock contract, the Birmingham Procurement District the Western Electric contract, the Boston Procurement District the Raytheon contract and the St. Louis Procurement District the Beech contract.

tion plan, he serves as Director of Instruction as well as Assistant Commandant and supervises both individual and unit training of missile maintenance technicians.

CHEZ-PUP

(Continued From Page 1)

a condition of readiness which requires evacuation of the installation.

Personnel not required to maintain essential operations will leave the post when warning signals are sounded. The exercise will officially end following the evacuation of the Arsenal.

Civil Defense experts at Redstone say the majority of Arsenal personnel will receive their first real knowledge of the exercise when sirens wail warnings.

Arsenal units taking a role in the exercise will include all Army Missile Command organizations, the Army Missile Support Command; the Army Guided Missile School, Marshall Space Flight Center and some contractor personnel.

Contractor firms located on Redstone have been invited to participate in Chez Pup. It will be up to the individual firm to determine if its personnel will take part.

During the exercise, communication warning nets and signals will be tested to assure sirens and horn signals are clearly heard in remote areas of Redstone Arsenal.

Officials directing the civil defense exercise point out that traffic entering Redstone Arsenal during the evacuation will not be affected by the heavy flow of outbound vehicles.

As a part of the exercise, fallout shelters on Redstone Arsenal will be tested on a limited basis. Emergency Operating Sites will be located in fallout shelters.

Other objectives of Exercise Chez-Pup are to test emergency security measures and emergency communication procedures.

LAW

(Continued From Page 1)

Capt. Jimmie D. Bynum, IV Army Corps, Birmingham; Capt. Daniel R. Holt, and 1/Lt. Joe E. Milk, both of the Provost Marshal's office at Redstone Arsenal.

Public Payroll Is \$4 Billion Monthly

Earnings of civilian public employees—Federal, State, and Local—amounted to nearly \$4 billion in October 1962, according to a report by the Bureau of the Census, U. S. Department of Commerce. The Federal Government accounted for about one-third of this total. State and local government payrolls totaled over \$2.6 billion, including \$1.3 billion for schools and public institutions of higher education.

The occupations that absorbed 60 per cent of last year's college graduates were not in existence when the graduates were born.

ARMY

(Continued From Page 1)

ton, Mass., and Oxnard, Calif.

The Sperry Rand Corp. received a \$3,894,631 award to cover work on Sergeant missile system equipment. The work will be performed by the Sperry Utah Co., a division of Sperry Rand at its Salt Lake City, Utah plant.

A \$2,494,863 award to the Martin-Marietta Corp. is to fund items of ground support equipment for engineering tests and evaluation of the Pershing missile system.

Hawk is an operational surface-to-air missile system designed to destroy low-flying high perform-

ing targets.

Sergeant, a solid fuel missile capable of carrying a nuclear warhead, is guided to its target by a self-contained inertial guidance system.

Pershing, a two-stage inertially guided ballistic missile is designed to move overland on tracked vehicles, in helicopters, or in fixed wing aircraft.

All three systems are managed from headquarters at the Army Missile Command.

The Boston Procurement District will administer the Hawk contracts, The Los Angeles Procurement District the Sergeant contract, and the Birmingham Procurement District the contract for Pershing work.

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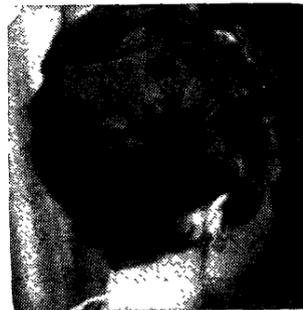
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This is the opinion of Cora Carr Briskey, program analyst in the Control Office, Army Missile Support Command at Redstone Arsenal.

She'd like to revisit many of the places she has seen to update her memories and write a travelogue.

Before she was graduated from the University of Alabama, Mrs. Briskey had been in all but three of the 50 United States, and had visited Mexico and Cuba.

She has telescoped more kinds of experience into half a lifetime than a whole county full of stay-at-homers experience in 100 years.

Ready To Go

For instance, on several occasions she has been prepared to flee by ship and jeep; was loaded aboard a barely operational flying machine ahead of an invasion in China; and has been prepared to jettison her belongings into the Mediterranean when a plane de-

veloped propulsion problems. She has ridden a camel in the shadow of the pyramids, and has ridden a State Department limousine over Greek trails too narrow for the car, along a border closely guarded by Communists.

Born in Colorado to parents who always talked of going back to Kentucky and Alabama, she grew up in a family that not only tended the cattle and horses, but spent many hours studying many kinds of subjects.

First Love

Cora Carr's first love was probably a horse—a frisky white that she rode to and from the Mexican school in Colorado where she taught after graduation from high school.

When she was ready for college, she chose the University of Alabama where she joined the Alpha Gamma Delta sorority, and jam-packed her days with campus activities while maintaining a Phi Beta Kappa average. She also earned the right to become a charter member of Mortar Board at the University.

Her bachelor of science degree in biology helped her earn a fellowship to take a master's degree in parasitology before she abandoned the dream of becoming a doctor and went to the Tennessee Valley Authority where she was hired for laboratory research. But, while waiting for the laboratory to be completed, she became an administrative worker and continued to follow that pattern from then



AT REDSTONE ARSENAL — Cora Carr Briskey is a plans and programs analyst in the Control Division at the Army Missile Support Command.



WORLD TRAVELLER—Standing among the columns of Xerxes ruined palace at Persepolis out of Chiraz, Persia, Cora Carr Briskey wonders at the marvelous engineering feats accomplished in man's early civilization. In the background are the ruins of the palace built by Darius.

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Ready To Join

World War II was going full blast and Cora Carr wanted to do something for her country. She applied for the WACS and the WAVES—was turned down on a knee injury which proved transitory and ended up with the State Department in Persia—trade promotion being her specialty this time.

Journeys to the Caspian Sea were through Russian-controlled territory that often became a battle of harassment and wits. But Cora Carr was game for any side trips that would broaden her knowledge and give her a wider view of the land.

She has a coin found in the debris from the razed Wall of Jericho and numerous Persian rugs for which she haggled over price in the Persian bazaars.

Living Not Easy

Living conditions for the Americans in the State Department in Persia were primitive. During the early part of her stay, the girls living in the hotel with her bathed in a concrete kitchen sink, in water heated in GI cans on American Army kerosene space heaters.

Her days were busy and she ended in the chief's slot in Commodity and Economic reporting.

The next assignment was Nanking, China, a real challenge. Her basic assignment was dealing with strategic minerals — especially tungsten, tin and antimony. She was on her own to make her contacts with the people in the ministries. She "hitchhiked" side trips on U. S. Navy planes to Peking and shopped in Shanghai — an overnight ride on the train.

Adds Exotic Items

She also added to her collection of exotic furnishings with rugs, mother-of-pearl inlaid screens, ceramics, chests, chow tables, and a star sapphire which the merchant wanted to trade for an American jeep. He settled for American dollars instead.

She left China in a hurry. All her household belongings were stacked on the front porch and were later put aboard an American LST, the last one to make the trip up the river and down.

Between assignments, Cora Carr

returned to the U. S. and dropped excess household items that she wouldn't need in the next country to which she had been assigned.

Goes To Greece

The job was as an economic reporter in Greece, dealing with voluntary aid groups trying to restore the economy of the country where many people were still displaced. In the Salonica area where she was, factories were serving as barracks with whole families assigned not more than 14 square feet of space. Children were growing up in these circumstances. Cora Carr worked hard and long. Heart attack followed.

But, when she got well she didn't go home.

She went to the Pacific again—Australia in the embassy at Canberra where she worked in Foreign Trade, Emigration and Finance.

Continues To Ride

Nor did she give up riding horses. In Persia she rode with an American advisory group and Persians until the American advisors went home. Then the Persians still provided a horse whenever she called for it — probably the only American woman to have this privilege. In China she rented horses — most of them spavined.

In Australia she rode with friends on a ranch outback—but not way out.

Cora Carr's next assignment was

in Manila, P. I., where she became expert in the problems confronting Civil Aviation and Shipping. She managed to see many of the nearby islands—often as a passenger on Navy boats and ships.

Travels Home

Cora Carr also spent some time in Hawaii. Then, she returned to her home—Alabama, where she has relatives in Huntsville, Florence and Tuscaloosa.

Some of her family still lives in the West and visits Cora Carr at her home on Surrey Road.

When they do, she decides on the \$1, \$5, or \$10 tour of this North Alabama wonderland.

She takes them to see the view from the mountains—the view of this rapidly growing metropolitan area, and the scenic wonders further away, time permitting.

Nothing Stands Still

She philosophizes that the only time one lives in the present is aboard a ship where you are bound by your environment within the present.

Any place else, you live for the next action; or something occurs—a sound, a smell—that brings a memory of other places and times.

And almost every place Cora Carr has been, she has managed a flower garden. A garden to her is as priceless as the memories evoked by items picked up in far away places.

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Missile Propellants and Herefords Share Interests of Young Chemist

Always brewing something new!

That's Clay Howard in the Propulsion Laboratory of the Research and Development Directorate at the Army Missile Command.

Howard is a chemist working with polymers to bind explosive mixtures and propellants for the Army's missile motors.

His immediate boss is Exploratory Group Chief Chester Huskins, another chemist.

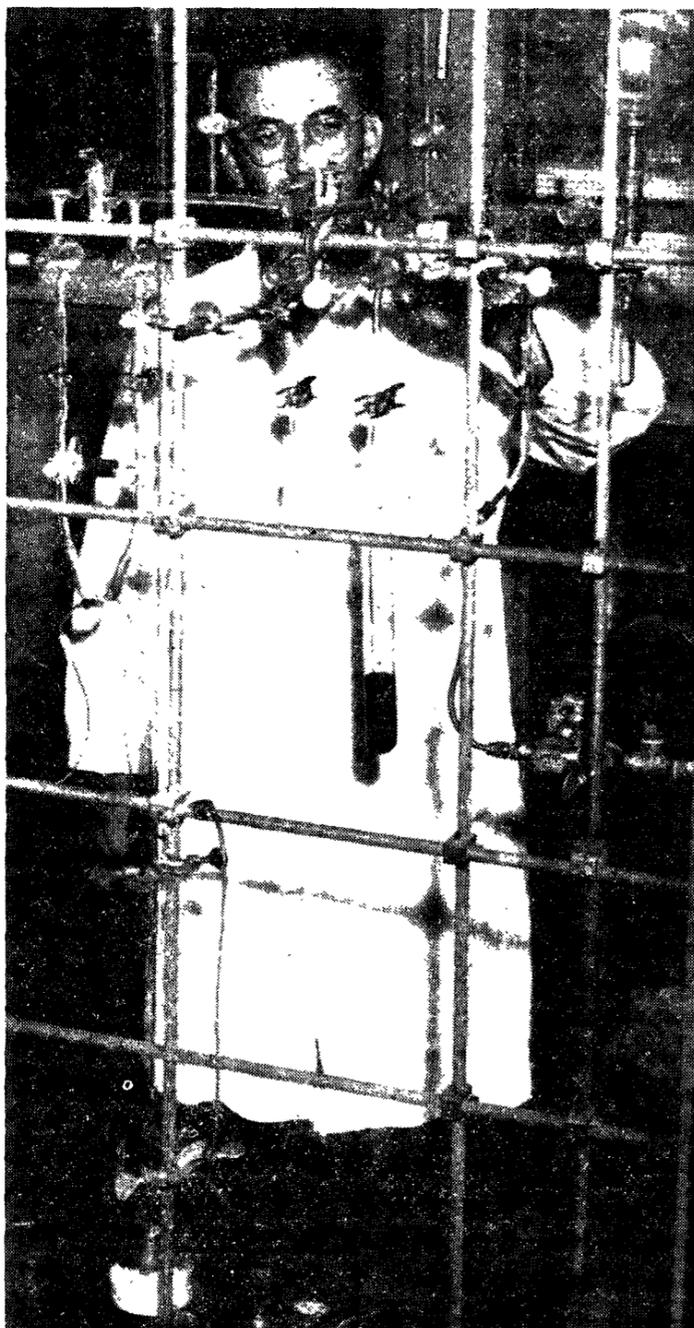
Howard earned his bachelor's degree and a master's degree in chemistry at Peabody college with every intention of becoming a teacher. Then, he became interested in the science of missily. He also became interested in the girl destined to be his wife. They married and moved to Huntsville in 1957.

By 1962 the Howard's decided to engage in part time farming along with Clay's father—raising Hereford cattle. The herd is growing and so are their two sons, Clay, Jr., 6 and Gary Wayne, 2. Howard commutes between his present home in Pulaski Tenn., and his job at the Missile Command.

As a basic research chemist, Howard spends his time in basic research evaluating propellant ingredients, fuels, oxidizers and new compounds. He studies the compatibility and reliability of mixtures and interprets his findings.

Some of the work is done through infra-red and mass spectrographic analysis. He says he is glad that the job is variable and that he isn't tied to doing the same thing day in and day out but has the opportunity to set up systems to mix higher energy compositions and help produce better propellants — one among many giant strides of missile technology.

The laboratory is working more



TEST TUBES TELL TALE—Clay Howard sets up a test to analyze components of missile mixture to propel the Army's missiles more reliably on journey to target in the Propulsion Laboratory, Directorate of Research and Development at the Army Missile Command. Howard is a native Tennessean, now commuting to his job at Redstone Arsenal from Pulaski, Tenn.

and more with remote control equipment when mixing new compositions. The analysis is also necessarily by remote control.

Compounding better propellants and preserving good men is a standard operating procedure in the laboratory. Even with nothing brewing, everyone enters wearing safety glasses.

In the end the mixtures must bind to the metal motor cases—must deliver the package of solids

to the target—and missilemen also consider the cost of the package.

Howard believes in combining the same business ethics to missiles as to cattle and his boys—good management brings a profit.

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MEDAL OF HONOR



On June 2, 1951, in Korea, Army Sergeant Cornelius H. Charlton assumed command of his platoon and led three charges that carried to the crest of the ridge during an attack on a heavily defended enemy hill position. He observed a remaining stronghold on the reverse slope, and although severely wounded, charged the position alone routing its defenders with a devastating fire. He sustained further wounds which resulted in his death. Sergeant Charlton was awarded the Army Medal of Honor posthumously for his heroic actions in Korea.

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Baseball Results

June 25
291ST MP CO.

	ab	r	h
Harris, 2b	4	0	1
Simmons, lf	5	0	0
Reynolds, 1b	4	1	1
Gebhard, p	3	0	1
Deidrick, 3b	4	0	0
Schmeil, ss	2	0	0
Morgan, cf	4	2	1
Floyd, c	3	0	1
Johnson, 2b	1	0	1
Hunter, rf	4	0	0

Totals	34	3	6
291st MP Co.	100	000	101-3
Co. A OGMS	330	210	00x-9

CO. A OGMS

	ab	r	h
Hunt, lf	4	1	0
Roberts, lf	1	0	0
Richards, 3b	5	3	2
Anderson, ss	5	2	1
Sabourin, c	4	1	1
Drabczyk, p	4	1	1
Aughtman, 1b	4	0	1
Elliott, rf	2	0	0
Monaghan, rf	0	0	0
Burkes, cf	3	1	1
Lyles, cf	1	0	0
Tribbett, 2b	4	0	0

Totals

June 26

1ST ETC

	ab	r	h
Adcock, 3b	5	2	1
Edwards, lf	4	0	1
Flynn, ss	3	0	1
McNuti, cf	5	0	1
Downing, p	3	0	1
Jensen, 1b	4	0	0

Newcomer, 2b	3	0	0
Mahoney, 2b	1	0	0
Miller, rf	3	0	0
Quigley, c	4	1	2

Totals	35	3	7
1st ETC	100	200	000-3
Co. B OGMS	201	033	01x-7

CO. B OGMS

	ab	r	h
Rooney, lf	4	1	1
Schreh, cf	4	2	0
Ghionni, 3b	2	0	0
Crespo, rf	3	1	1
Welch, ss	2	1	0
Fuller, c	3	1	0
Barnes, c	1	1	1
Richter, p	4	0	0
Wilcox, 2b	3	0	0
Demo, 1b	4	0	0

Totals

Baseball League Standings

Team	Won	Lost
Co. A OGMS	8	0
Hq UTC	3	4
291st MU Co.	3	4
1st ETC	2	5
Co. B, OGMS	2	5
Softball	1/4	

June 24

Hq AMC 13-291st MP Co.	4
Co. A OGMS 12-Hq. STC	1
Med. Det. 6-Co. B OGMS	2
Officers 10-Hq UTC	5

June 26

Co. A OGMS 6-Officers	2
291st MP Co. 7-Hq. UTC	4
Hq. AMSC 10-Med. Det.	1
Hq. AMC 21-Hq. STC	13

Softball League Standings

Team	Won	Lost
Hq. AMSC	16	1
Co. A OGMS	14	4

Med. Det.	11	7
Hq. AMC	11	7
Officers	9	10
Co. B OGMS	7	10
291st MP Co.	7	11
Hq. UTC	6	12
Hq. STC	4	14

Games To Be Played

Team	Date	Time	Field
Med. Det. vs. Hq. AMC	July 3,	6 p.m., 1.	
Hq. UTC vs. Hq. AMSC	July 3,	6 p.m., 2.	
Officers vs. 291st MP Co.	July 3,	7:30 p.m., 1.	
Co. B OGMS vs. Co. A OGMS	July 3,	7:30 p.m., 2.	
Hq. UTC vs. Hq. STC	July 8,	6 p.m., 1.	
Officers vs. Hq. AMC	July 8,	6 p.m., 2.	
Co. B, OGMS vs. Hq. AMSC	July 8,	7:30 p.m., 1.	
Co. A, OGMS vs. 291st MP Co.	July 8,	7:30 p.m., 2.	

Bowling

Summer Leagues Standings

Team	Won	Lost
Team No. 1	10	2
Team No. 4	7	5
Team No. 2	6	6
Team No. 3	1	11

RSA MEN'S SUMMER BOWLING LEAGUE

Team	Won	Lost
Co. B	13	3
Raiders	12	4
291st MP Co.	10	6
Ohms	8	8
Hq. STC	7	9
Section-Ates	6	10
Ceiler Dwellers	5	11

TUESDAY NITE LADIES LEAGUE

Team	Won	Lost
Team No. 3	16	4
Team No. 4	13	7
Team No. 7	11	9
Team No. 5	10	10
Team No. 8	9	11
Team No. 1	8	12
Team No. 2	8	12
Team No. 6	2	15

SCRATCH TRIO

Team	Won	Lost
Drifters	21	9
Risky Dinks	21	9
Strikers	20	10
Russell's	19	11
3 Aces	14	6
VIP's	13	17
Mitchells	6	24
Winners	6	24

ARMY COMPLETES EVALUATION OF SUCCESSFUL TESTS

The first supersonic low level evaluation mission of the U. S. Army's Redhead/Roadrunner target missile was successfully completed at White Sands Missile Range, New Mexico, Thursday, the Army announced.

Designed and built by North American Aviation's Columbus (Ohio) Division, the missile flew an uprange course and then successfully completed a 210 degree turn at a maximum altitude of 2,000 feet and a programmed speed

of Mach 1.3. It was safely returned to the ground by its self-contained parachute recovery system, thus enabling it to be flown again.

The supersonic low level Roadrunner mission completed another in a series of prescribed evaluation flights in the test program, the Army said. The Redhead/Roadrunner has flown numerous other test flights including a high level Mach 2.4 Redhead evaluation flight at 41,000 feet above the terrain and a low level subsonic (Mach .95) Roadrunner mission at 350 feet altitude.

The unique missile is designed to fly from 300 to 60,000 feet in altitude and from subsonic to Mach 2 speeds. 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 to 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 Missile Command.

Nelson, Graham Win Junior Golf Competition Here

The Summer Teenage golf group played for low gross and low net last Thursday with Jim Nelson shooting low gross and Chuck Graham, low net.

The clinic for the junior golfers is being continued under Pro James McClure.

Dogfight competition followed the clinic with Grady Poole, David Roth, Jim Donnelly and Johnny Quantz on the winning team.

TOURNAMENT DELAYED

The Third Army Golf Tournament is delayed one week. It will be played at Ft. Benning Aug. 20-23.

GOLFERS HOLD DOGFIGHT

The Golf Group sponsored by the Redstone Arsenal Officers Wives Club sponsored a dogfight at the Arsenal course last Wednesday.

The winning team included Mrs. C. A. Payne, Mrs. F. E. Napper, Mrs. William Clifton, Mrs. J. R. Miller and Mrs. R. R. Javins.

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M / Sgt., Mrs. Neil Honored By Teens

M/Sgt. and Mrs. William Neil were honored last Wednesday evening by members of the Teenage Club for whom they have served as sponsors.

They took over responsibility

Of nearly \$99 billion that consumers spent in 1960 for food and clothing, about 35 per cent went to farmers and 65 per cent for marketing services.

for teenage activities two and one-half years ago and have guided the various programs for the group.

The club members presented Mrs. Neil an orchid corsage and the sergeant a boutonniere.

Michael Mac Ivers, president of the Teenage Club, presented the Neils with a maple Bostonian rocker as a token of appreciation from the members and expressed the club's thanks for the time and effort M/Sgt. and Mrs. Neil have put into helping guide them.



M/SGT. AND MRS. NEIL



SERGEANT—A young visitor at a test firing of the Army's Sergeant missile displays a poster. He is one of 300 school children, parents, and civic leaders who were guests at the successful launching of Sperry Utah's Sergeant missile from a test site at the Plains of St Augustine, New Mexico. The missile was impacted on the White Sands Missile Range, 75 miles away.

Religious Services

RELIGIOUS SERVICES—POST CHAPEL—BLDG. 3714 PROTESTANT

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

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

Sunday Evening Worship—1900 hrs

CATHOLIC

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

BAPTISMS — 1330 hrs., or by appointment.

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

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

DAILY MASS — 1100 hrs. (Monday through Saturday)

REDSTONE PARK CHAPEL—BLDG. 9600

SUNDAY — 0945 hrs. — Sunday School. 1100 hrs. — Morning Wor-

ship Service. 1800 hrs. — Youth Fellowship for all young people, age 9 or grade 4 and up. 1900 hrs. — Evening Worship Service. (Nursery is open for both Services.)

CONSERVATIVE JEWISH SERVICES—FRIDAY EVENING—2000 HRS.

Services are held at the Unitarian Fellowship Hall at Clinton & White Street, Huntsville. Servicemen cordially invited. For further information, contact Fred Glusman, 536-6621.

REFORM JEWISH SERVICES—FRIDAY EVENING—2000 HRS.

Services are held at Temple B'Nai Sholom, corner of Lincoln and Clinton Streets, SE, Huntsville. Servicemen cordially invited. Sunday School at 0930 hrs. For further information on services or Sunday School, call Ben Keyserling, 536-2381.

CHRISTIAN SCIENCE SERVICES — SUNDAY — 1100 HRS.

Wednesday services are held at 2000 hrs. at S. White and Wells Avenue, Huntsville. For further information or transportation, call Christian Science Armed Services Minister, Collect 776-2791.

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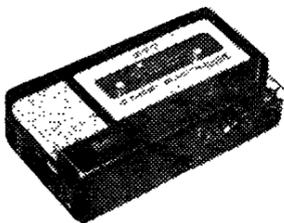
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SOCIAL ^{and} CLUB EVENTS

Capt. Lewis, Mrs. Patton Win At Bridge

At Monday night Party Bridge last week Capt. William Lewis was high for the men and Mrs. E. R. Billings was high for the women among the nine tables in play at the Squirrel Hill Officers Club. Second for the men was Col. Jesse L. Fishback with Mrs. W. L. Patton second for the women. Reservations to play with the group may be made with Mrs. Jerry L. Maloy, 877-5672.

Decala Toastmistresses Install Louise Julich

The Decala Toastmistress Club in Decatur installed Louise Julich, secretary to Col. Charles W. Eifler, Deputy Commander, Land Combat Systems, as the president for the coming term. Billie Sandor is first vice president, Bill Coley, second vice president, Eileen Hennessee, secretary, Peggy Rountree, treasurer, Ann Gates, parliamentarian and Betty Layman, historian. Toastmistress is an educational organization which aims to teach public speaking, an understanding of parliamentary law and easy communication.

Births at Post Hospital

Mark Lewis Hall, 7 lbs., 15 ozs., June 20, son of 1/Lt. and Mrs. James M. Hall.
Anita Trenowski, 8 lbs., 1/2 oz., June 20, daughter of Sfc Ronald T. and Mrs. Ronald T. Trenowski.
Michael Burt Woodward, 6 lbs., 5 ozs., June 21, son of 2/Lt. and Mrs. Jack A. Woodward.
Troy Ian Hansen, 7 lbs., 7 ozs., June 22, son of Sp/4 and Mrs. Hansen.
Candace Coleen Park, 8 lbs., 1/2 oz., June 22, daughter of Pfc and Mrs. James Park.
Thomas Ken Potts, 7 lbs., 1 oz., June 24, son of S/Sgt. and Mrs. Robert Potts.

At the Service Club

By: Brenda Hanson

In keeping with the changing seasons, what with June making its exit and July its summery entrance, the Service Club has a schedule which includes activities in the great out-of-doors.

The meeting of the EM Council will be held in the small lounge Wednesday at 2 p.m. At 7 p.m. is the usual Dance Class. This class is rapidly gaining in popularity, but there is always room for more participants. In case you had rather engage in a more passive pastime, the TV set will be in operation running the gamut of entertainment from acrobats to Zither players.

Thursday, the 4th, Independence Day, we celebrate with the sipping of coffee and donuts to the music of "Stars and Stripes Forever." Later in the evening a dance is on the agenda. Bob Perry will spin the records. The dance begins at 7 o'clock and ends at 9:30 p.m. Make your plans to attend the 4th of July Record Dance.

WANTED: Enlisted Men who enjoy playing pinochle. A Pinochle Contest is on the agenda for July 5 at 8 p.m. Prizes will be given to the winner.

How are you at Shuffleboard? Care to prove your adroitness at playing this game? Or maybe you are one who just likes to watch a fast game. Saturday evening is the time for you to make the Service Club your headquarters then, for at 8 p.m. a Shuffleboard Contest will be held and prizes will be awarded.

Sunday morning Coffee Call is presented here at the Club, an event which commences at 9 a.m. Coffee and donuts for the late risers, and a background of fanciful melodies to brighten the day. It's here for you, enjoy it. Then, Sunday night we wind the prescription up by adding a Record Hop to the schedule. Requests for a Record Hop have been duly received and plans have been made to comply with them. The dance will swing out under the theme of "Swing and Sway" at 8 p.m.

The evening of the 28th should prove to be a gay one at the



NEW OFFICERS—Newly installed officers of the Redstone Arsenal Officers Wives Club were inadvertently identified improperly in last week's Rocket. Left to right are: Mrs. Ralph A. Newman, Mrs. T. R. Edwards, Mrs. N. T. Dennis, Mrs. R. J. Schofield, and Mrs. Carleton J. Robinson.

Post Library

ANNA L. FARRAR, Librarian

Non-Fiction

Berry, Mary, "Young Teens Plan Dates and Proms."
Birmingham, Frederic Alexander, "How to Succeed at Touch Football."
Campbell, Colin, "The Sports Car, Its Design and Performance."
Carmichael, Joel, "The Death of Jesus."
Cousteau, Jacques-Yves, "The Living Sea."
Curney, Eric, "How to Live With a Calculating Cat."
Kerr, Jean, "Mary, Mary."
Orlov, Alexander, "Handbook of Intelligence and Guerrilla Warfare."
Rogers, Tyler Stewart, "The Complete Guide to House Hunting."
Stearn, Jess, "The Door to the Future."
Wyden, Peter, "Suburbia's Cod-

dled Kids."

Fiction

Albrand, Martha, "A Call From Austria."
Bryan, J. Y., "Come to the Bower."
Dulin, Ralph, "The Unconquered Sun."
Gloag, Julian, "Our Mother's House."
Laxness, Halldor Kiljan, "Para-

dise Reclaimed."

Nathan, Robert, "The Devil With Love."
Patten, Lewis B., "Guns at Gray Butte."
Rigsby, Howard, "The Tulip Tree."
Wagner, Geoffrey Atheling, "The Asphalt Campus; Monotremata of the Academe."
Woolfolk, William, "My Name is Morgan."

Movie Schedule

WEDNESDAY, July 3
"Six Black Horses" (M-YP)
THURSDAY-FRIDAY, July 4-5
"Cattle King" (F)
SATURDAY, July 6
"The Honeymoon Machine" (F)
SUNDAY-MONDAY, July 7-8
Walt Disney's "Miracle of the White Stallions" (F)
TUESDAY, July 9
"Lafayette" (F)
Two shows nightly at 6 and 8:30 p.m., Saturday matinee at 1 p.m., and Sunday matinee at 2 p.m.

Service Club. We have an evening of games planned with a beautiful array of nice prizes to be given away. This seems to be one of our more interesting programs as the attendance for these games is always tremendous.

On the 16th the Junior Hostess Group will hold the regular monthly meeting in the Small Lounge at 7 p.m. At 8 p.m., refreshments will be served from the kitchen.

As has been made evident by the listing of the activities of the week, there is always something doing at the Service Club and you shouldn't miss out on it.

—Brenda

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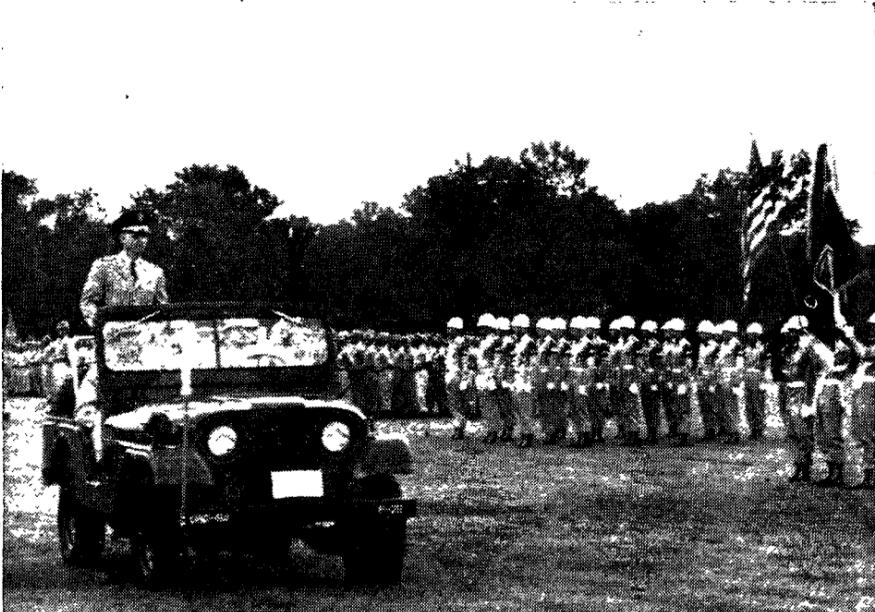
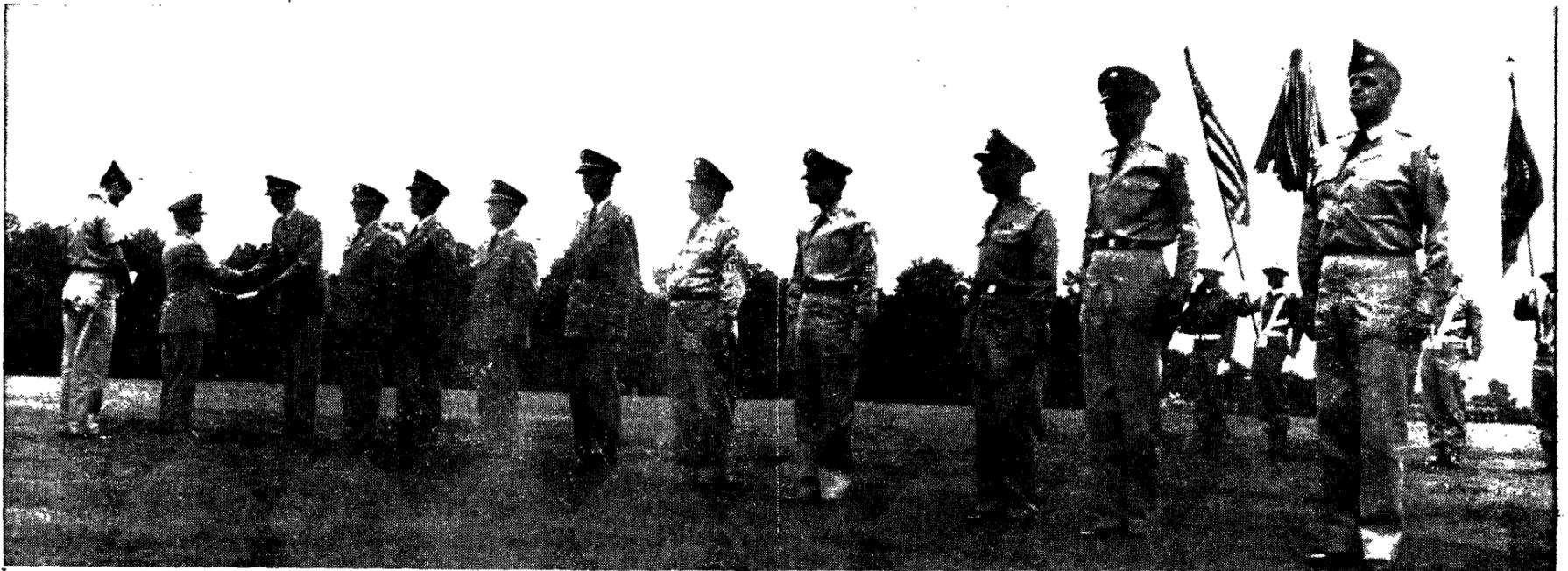
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TEN RETIRE—(Top) Col. Charles W. Eifler, Deputy Commander for Land Combat Systems, presents retirement certificates to ten retiring Army men Friday night at the Review and Retreat Parade on the Arsenal Parade Field. Left to right are: Maj. Willie N. Paulette; Maj. Frank S. Bowman, Maj. John R. Harris, Maj. Albert G. Fellers, Maj. Robert R. Nix, M/Sgt. William C. Stinnett, M/Sgt. Travis R. Alford, SP7 Herbert

L. Swanson, S/Sgt. John C. Smith, and S/Sgt. Raymond K. Hartwell. Bottom left, Col. Eifler reviews the troops from his jeep and bottom right he accepts the baton of CWO DeWitt Mytinger, the first director of the 55th Army Band at Redstone Arsenal. He is now slated for an European assignment.

Band Director Turns In Baton Friday

The 55th Army Band marched silently from the parade field Friday afternoon. CWO DeWitt Mytinger turned in his baton to Col. Charles W. Eifler, reviewing officer.

CWO Mytinger, the first band director for the 55th at Redstone Arsenal, is scheduled to go to Germany this month.

The 55th Army Band led the Arsenal troops in the parade and review where ten men received honors upon retirement from active duty.

The retirees are Maj. Willie N. Paulette, Maj. Frank S. Bowman, Maj. John R. Harris, Maj. Albert G. Fellers, Maj. Robert R. Nix, M/Sgt. William C. Stinnett, M/Sgt. Travis E. Alford, SP7 Herbert L. Swanson, S/Sgt. John C. Smith and S/Sgt. Raymond K. Hartwell.

This is the first time Col. Eifler has served as reviewing officer since his return to Redstone Ar-

senal as Deputy Commander of Land Combat Systems for the Army Missile Command. Alfred Holston has served as commander of troops since his assignment in the Army Missile Support Command.

It is also the first time Lt. Col.

Alfred Holston has served as commander of troops since his assignment in the Army Missile Support Command.

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West Germans Fire Sergeant Missile

West German soldiers have successfully fired two solid-propellant Sergeant missiles in training exercises at White Sands Missile Range. The first firing was conducted Tuesday morning and the second was Wednesday.

The missile firings amounted to graduation exercises for the Federal Republic of Germany's tactical missile firing unit, which attended artillery school at Fort Sill, Okla.

The missiles were fired by members of the 3rd German Army Artillery Corp's Battalion 350, which recently graduated as a unit of the U. S. Army Artillery and Missile School at Fort Sill.

While at Fort Sill, these German missilemen were given thorough schooling in Sergeant missile assembly, disassembly and tactical deployment.

The German Battalion, commanded by Lt. Col. Johann Oltiges, includes in its make-up two firing batteries and one main-

tenance battery from Ordnance Battalion 360. "A" Battery is commanded by 1st Lt. Benne von Versen, and "B" Battery is commanded by 1st Lt. Klaus Ledwig.

For the firing exercises, the maintenance battery from Battalion 360 participated, following their training at the U. S. Army Ordnance Guided Missile School at Redstone Arsenal.

During the exercises, each firing battery of the battalion fired a single stage Sergeant missile.

Program management for the

Sergeant is under the technical direction of the Sergeant Project Office at the Army Missile Command. Col. J. Mort Loomis, Jr., is Sergeant Project Manager.

As previously announced the Federal Republic of Germany is buying the Sergeant missile system and training from the United States.

Sperry Utah Co., is prime contractor for the Sergeant, a highly mobile, surface-to-surface ballistic missile with a 75-mile range.

Capt. Slingerland Is Communications Man On Kwajalein

Capt. Douglas A. Slingerland this week became the Communications Officer for the Nike Zeus Pacific Field Office on Kwajalein Island in the Pacific.

He succeeds Maj. Charles McHugh (ret.)

Capt. Slingerland was assigned

to the Combat Development Command's Communications Electronics Agency at Ft. Monmouth before moving to Kwajalein.

From the Pacific testing site the Nike Zeus is fired against ICBM-boosted target vehicles launched from Vandenberg Air Force Base. The Pacific Field Office on Kwajalein directs development and testing of the anti-missile missile system for the Project Office at Redstone.

Capt. Slingerland's family lives in Poughkeepsie, N. Y. He is a veteran of 11 years service.

Did Someone Ring?

The new etiquette to be followed in making a phone call needs some attention.

You dial the area code, the number and the extension first, naturally. You may come up with something like this: 430-424-8766-277. Not an easy number to keep in your head, so you may have to carry an armload of phone books around.

After you dial the number you will get either (a) a switchboard operator or (b) a receptionist. You ask for Sam. She rings Sam's office.

"May I ask who is calling?" his secretary says. You tell her. "One minute, please." Then she comes back. "He's in conference, but I will have him return your call."

When Sam calls back you are at lunch so after going through your switchboard and your secretary, the best Sam's secretary can do is to ask that you call back.

When you get back from lunch you, or your secretary, dials 430-424-8766-277. Sam is down the hall, but will return your call.

When Sam returns your call you are at a staff meeting. So you return his call. Sam is at the golf course but is expecting you to all there.

You call the pro shop and they say, yes, they are expecting your all and if you will leave your number they will have Sam call. You leave your number, then go downstairs to check on a production matter.

While you are gone, Sam returns your call, and asks that you return his call. You call the pro shop and they report that Sam is playing the eighth but not as soon as he is finished he will return your call — or is it his call? And by the way, what as it one or the other of you wanted to talk about? Maybe you had better cancel the call.

— Ormund Powers

The Secretary of the Army recently approved an additional cash award of \$325 for Albert Schwartz, an Army Materiel Command employee, for his saving the Army \$15,000 on buying electronic equipment.

BRINGING UP FATHER Vernon Green



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Missile Command Embarks On Stringent Test Program

The Army Missile Command has embarked upon a more stringent program of production testing with a special briefing at its Redstone Arsenal headquarters.

About 50 representatives of the nation's leading independent test facilities attended the briefing and heard Col. E. V. Lau, Director of Procurement and Production, outline the new concept of broader requirements in the testing area.

The briefing was conducted in preparation for the awarding of contractual documents for the accomplishment of the program. It was called to provide potential contractors with the scope of the Army's requirements and to enable Command personnel to get a better insight into the capabilities of the independent test facilities.

Col. C. W. Eifler, Deputy Commander, Land Combat Systems, opened the conference and explained the purpose of the briefing. He pointed out that the Army has previously depended upon in-house capability in the test and evaluation field.

The Colonel said that he had observed several items which were not being subjected to appropriate tests due to the limited in-house capability. This is detrimental to assessing the quality

and reliability of the items, he said.

"As we move along and acquire more experience in this field," Col. Eifler told the attendants, "I can foresee that our requirements for testing will increase considerably. The very fact that suppliers and contractors know that their products are subject to increased testing is sure to have a favorable affect on the quality of their products."

In outlining the expanded testing and sampling requirements, Col. Lau told the facility representatives that the program was instituted in response to a definite need for increased reliability in our missile systems.

"To those of you who qualify

as independent testing facilities," he said, "this expansion of our present program not only offers an opportunity of participation, but, more importantly, offers a challenge . . . to assume an important responsibility in establishing assurance of the necessary quality and reliability of missile parts and components—the very parts and components which can mean go or no-go to our troops."

Col. Lau said that the program for additional production testing had been formulated as a result of the findings of a special study group made up of high level personnel of his Directorate.

The technical aspect of the expanded program and the scope of the work were presented by a panel composed of L. M. Wheat, D. E. Cooper, F. A. Chappell, R. G. Shingler, and J. H. Valentine all of the Engineering Laboratory, and W. M. Cochran of Quality Assurance Division, P&P Directorate.

The procurement aspects of the

requirements were presented by Robert E. Manley of the Special Contracts Branch.

A question and answer period moderated by Morris H. Knight, Chief of the Contracts Division, and W. C. Cleveland, acting deputy chief of the Engineering Division, concluded the briefing.

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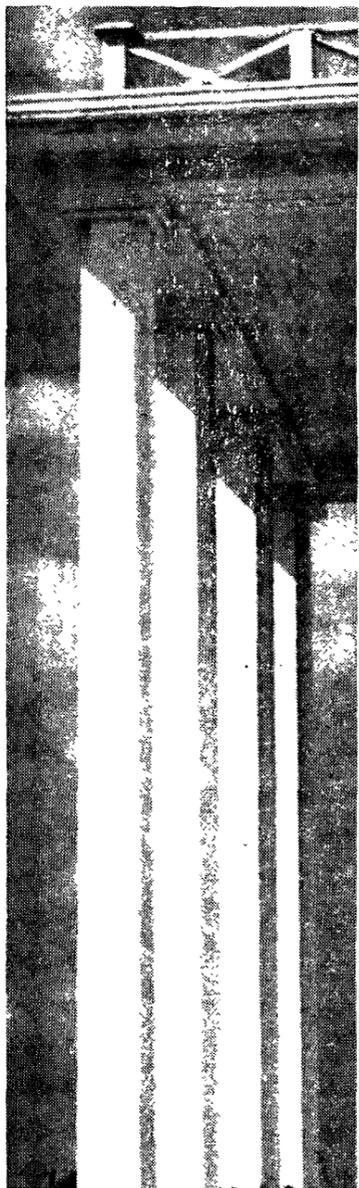
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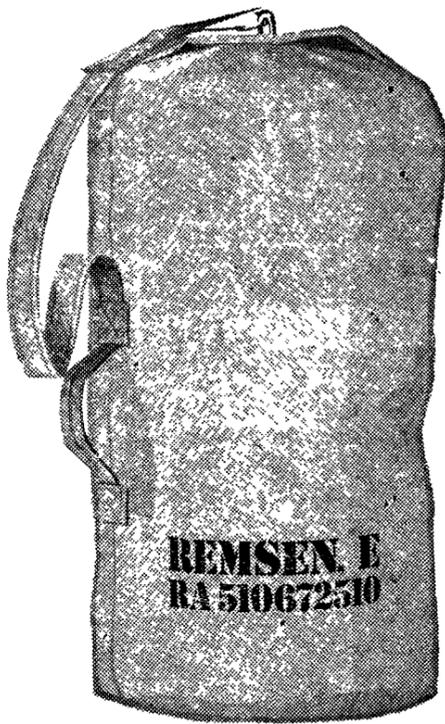
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Herndon Is Top Student

SP/6 Robert L. Herndon won the Association of the U. S. Army's outstanding student award at the Ordnance Guided Missile School Friday for averaging 96.5 in the Hawk maintenance supervisory course.

A veteran of 10 years of Army service, Herndon and other members of his class are now qualified to receive appointments as warrant officers. The 28-year-old San Franciscan is the son of Charles C. Herndon of 533 Dubose St. in the Golden Gate city.

The graduates heard Lt. George J. Basbas, a member of the staff of the school's New Missile and Literature Division, discuss the supremacy of the individual man over today's complex and automatic machines.

PFC Reginald P. Cousineau, 23, of 34 Columbia Road, Swansea, Mass., was honor student in the Lacrosse internal guidance repair course, while PFC Paul Schoenack, 20, of 8517 Hoeg Circle, Minneapolis, Minn., was high man in the Hawk radar and battery control course.

Sergeant Work To Continue At Utah Plant

The Army announced award of two contracts totaling \$2,264,234 for work on the Sergeant missile system. Sperry Rand received the awards for the work to be done at the corporation's Sperry Utah Division plant in Salt Lake City, Utah.

A \$1,116,234 award will cover production of additional Sergeant equipment, and a \$1,148,000 award is for engineering services on the Sergeant.

Sergeant, a solid fuel missile capable of carrying a nuclear warhead, is guided to its target by a self-contained inertial guidance system.

The Sergeant is one of the weapon systems selected for high priority management by the Army Materiel Command. The Project Manager, Col. J. Mort Loomis, Jr., and his staff are located at the Army Missile Command.

The Los Angeles Procurement District will administer the contracts.

Planning a Week-end Accident?



Three agencies last October accounted for nearly three-fourths of all Government employees — Department of Defense, 43 percent; Post Office Department, 23 percent; and Veterans Administration, 7 percent.

tion library, with 100,000 items, is located at the University of Michigan in Ann Arbor.

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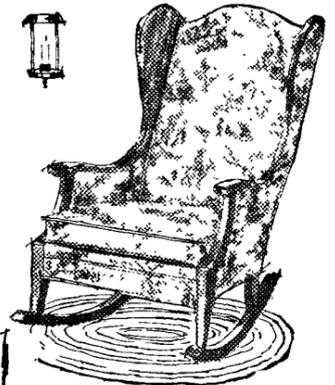
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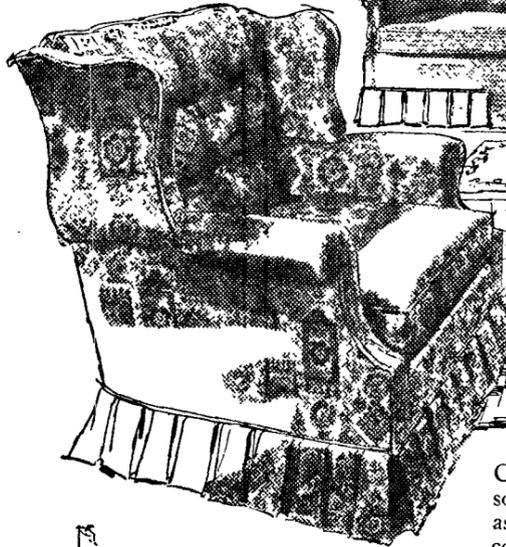
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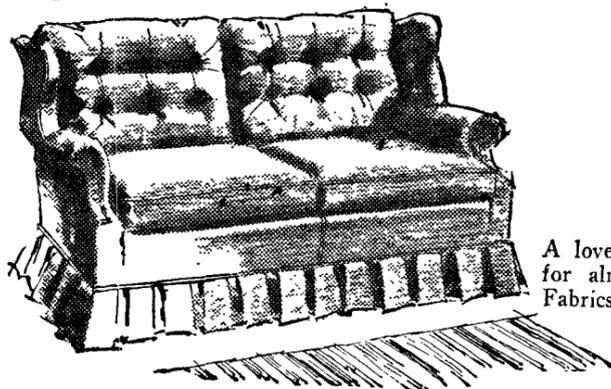
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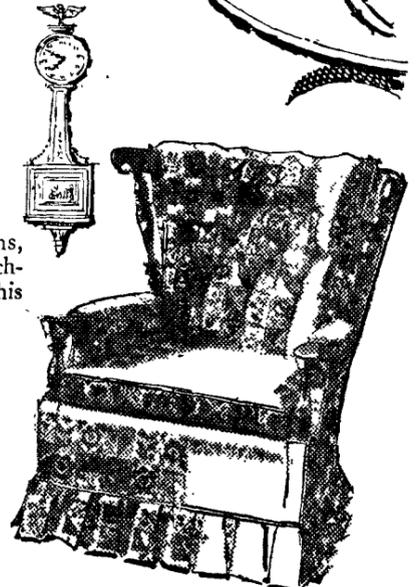


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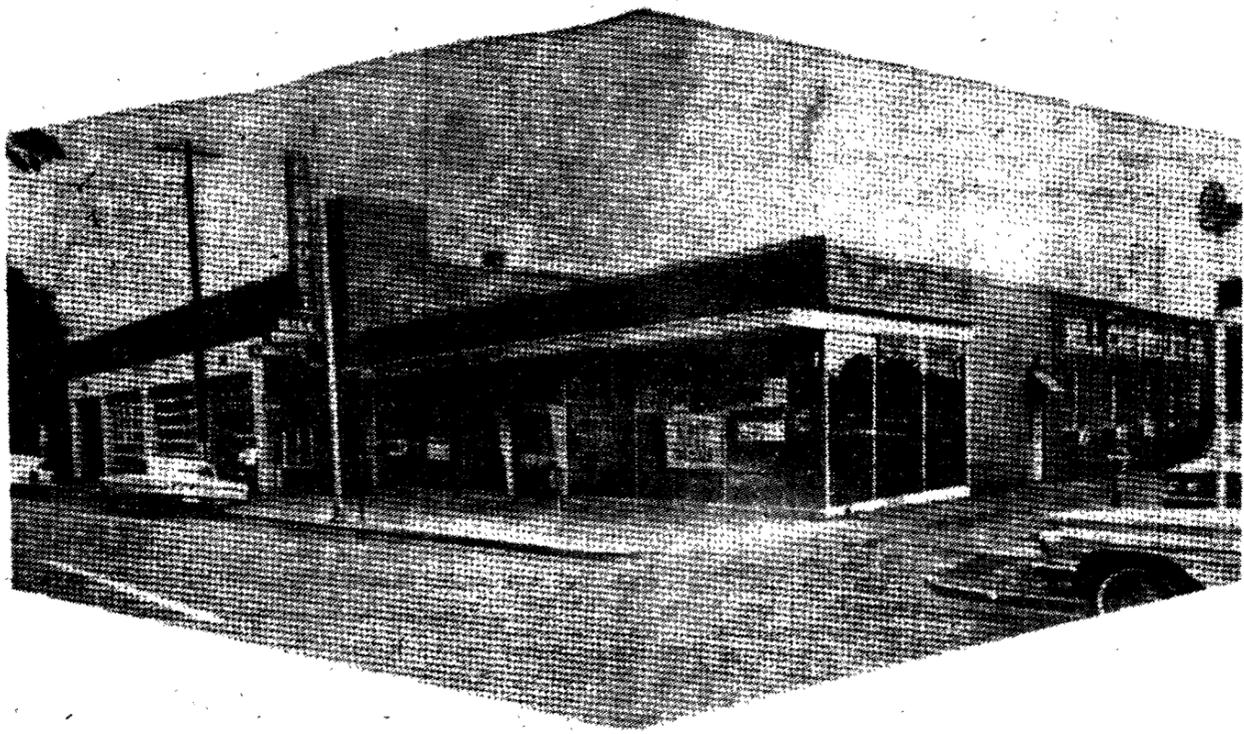
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4. Mobile Homes

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5. Houses, Lots - Sale

FOR SALE—three bedroom brick veneer home located approximately 2 miles from beautiful Gunterville Lake, electric heat, 1 1/2 ceramic baths. ttc

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

GUNTERSVILLE LAKE PROPERTY—Never again will you find cabin sites on the lake as reasonable as now. For appointment, call Herb Walker, 536-3113 or 534-1451 or write Box 473, Huntsville. 7-24p

FOR SALE OR TRADE—Completely furnished home on wooded lot. Located Poplar Point on Tennessee River. Reasonable down payment, finance balance, or refinance. No closing costs. \$6,000. Phone Decatur, 353-3972, or 353-5580. ttc

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

FOR SALE—One acre wooded hillside lot in SE Huntsville. \$5,000. Call 876-9138 or 536-7882 after 5:00 p.m. 1tp

GUNTERSVILLE LAKE—Long lease—a tiny spot with water and sewage on Gunterville Lake to build your shell cabin for week-ending and vacationing. Call W & W Land Co., Inc., Huntsville, Alabama. 7-24p

ALBERTVILLE-MEADOWBROOK—Being finished this week. 3 bedroom brick and frame house, hardwood floors, insulated, extra closet space, electric heat. 14 foot carport on large 100x150 feet lot. Total price \$8,000, small down payment with monthly payments only \$55.92 per month. FRED TAYLOR REAL ESTATE—Phone 876-3061—Albertville, Ala. 7-17c

FOR SALE—Full brick G.I. nothing down, no closing cost. 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. ttc

100' GUNTERSVILLE LAKE FRONT—Beech Creek, wooded lots, access to water, \$500.00 and up. Waterfront lots, \$1,000. and up. TY DORMAN, Gunterville, 582-3654 or Huntsville 876-3297. ttc

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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. ttc

BY OWNER—6 room ranch, located on corner lot on private circle. Great for kids. Three minutes to Gate 8 and Holiday Shopping Plaza. School bus at door for public and parochial schools. Very large kitchen, separate dining room and 1 1/2 baths. Make this home a good buy at \$17,600. Call 539-8639 or see home at 3019 Morgan Circle in Belmont. 1tp

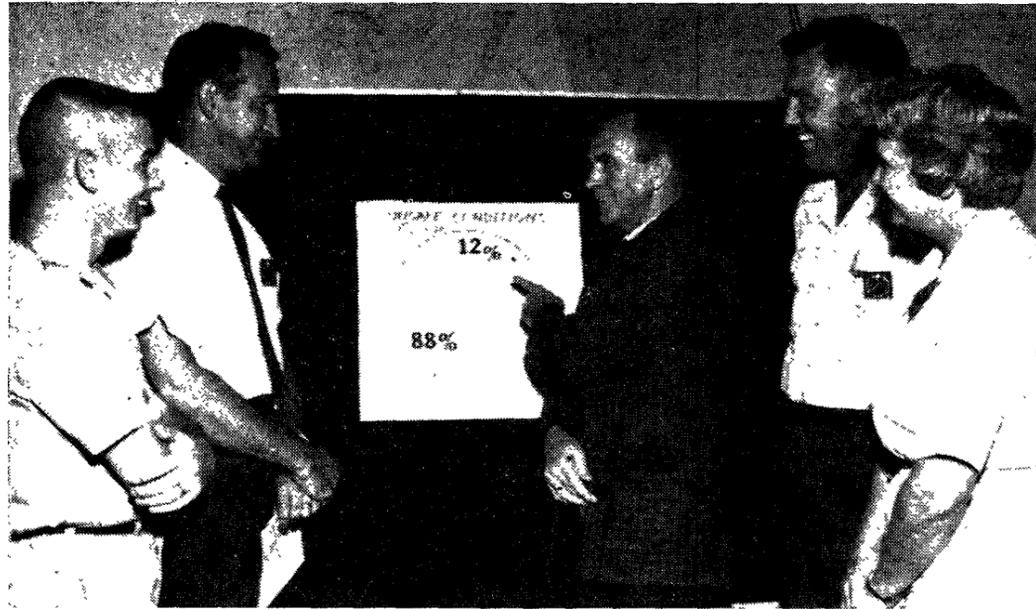
6. Pets

MINIATURE POODLE PUPPIES—Innoculated, 8 weeks old, AKC. Phone 881-2065. 7-17c

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SUPERVISORS SAFETY COURSE—Twenty-five supervisors at Redstone Arsenal have completed the first Personnel Management Safety Course. Above, five participants discuss the course. Left to right are 1/Lt. Harvey Eastman, Army Ordnance Guided Missile School; Marvin Barber, Army Missile Support Command; Jack Haynes, Safety Officer who presented a portion of the course; Charles Cornelison, Post Engineers; and Miss Jimmie Dew, AMSC.

Supervisors Study Showmobile Safety Courses

Twenty-five supervisors received certificates last week recognizing their completion of the first Redstone Arsenal Personnel Management Safety Course.

The course was specially geared for personnel in middle-management. It was jointly established and conducted by the Safety Office and the Civilian Personnel Office, Army Missile Support Command.

Students taking part in the course included personnel from AMSC and the Army Ordnance Guided Missile School. Half-day training sessions were conducted for four days.

Subjects included: safety administration; psychological approach; safety training; safety promotion and education; safety inspection; safety standards; safety engineering; safety committees; related services in occupational health, accident investigation, reporting and analysis; and motor vehicle accident prevention.

Col. James O. Green, Chief, Technical Office, Army Missile Support Command, opened the training session. Those making presentations included Richard Graeser, Industrial Hygienist, Occupational Health Service; Dr. B. E. Bess, Clinical Psychologist, Occupational Health Service; E. H. Haynes, Director of Safety; and R. H. Seavers, D. K. Womack and T. P. Browne, Safety Officers.

Showmobile Is Rehearsing At Ft. Bragg

The Redstone Arsenal Third Army Entertainment contest winners are perfecting their routines within the framework of the Third Army Showmobile now rehearsing at Ft. Bragg. The show takes to the road July 19.

The Kings Men from Redstone Arsenal, PFC Art Kalin who doubles with the Kings Men and has

a solo vocal spot of his own, and SP5 George L. Maillet, PFC Jeffrey L. Tucker, the former from the Redstone Army Air Field, the latter from the Post Engineer; and two men from the Ordnance Guided Missile School, SFC Bob Henderson and PFC Harry Wells will return to home base as part of the show Aug. 10.

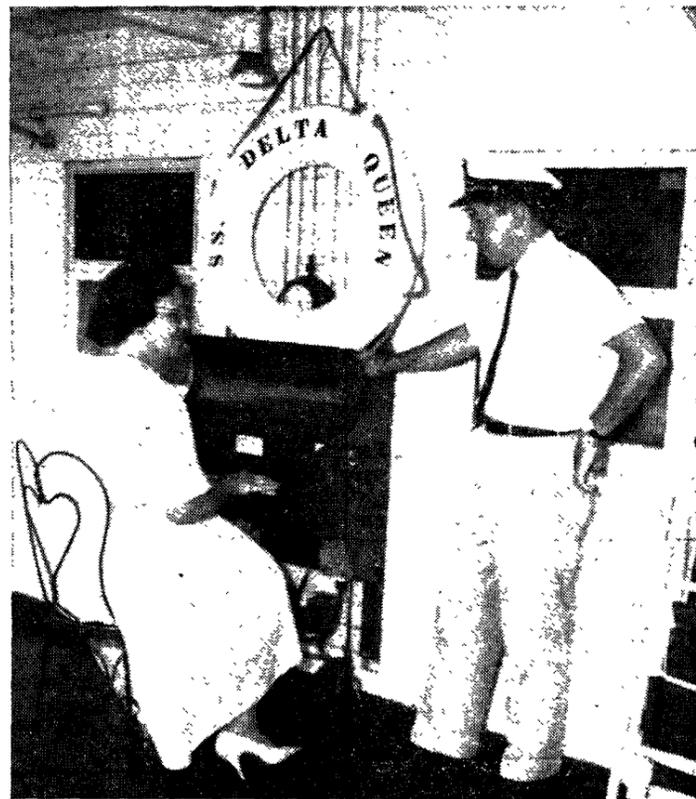
The show is booked under the name "Don John in Hades" and is scheduled to play as far South as the Florida Keys.

Nike Zeus Is Success

The U. S. Army Nike Zeus anti-missile missile successfully performed another in a series of development tests at White Sands Missile Range, N. M.

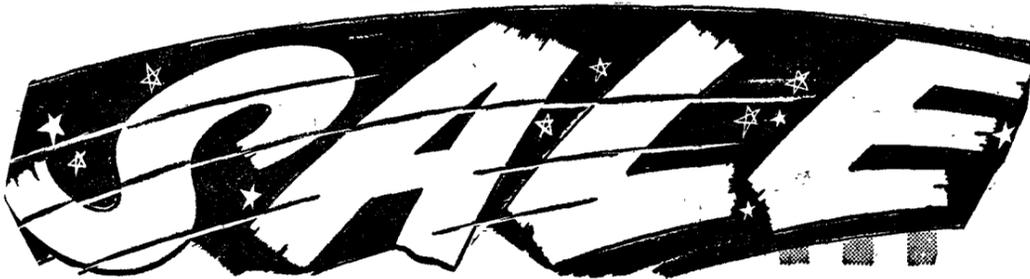
All three stages of the 48-foot long missile were fired. The Nike Zeus Project Office at Redstone Arsenal, headed by Col. I. O. Drewry, said the system performed as scheduled and all test objectives were met.

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



CERTIFIED CALLIOPIST—Miss Ellen Ingram from the Test and Evaluation Laboratories, Research and Development Directorate of the Army Missile Command, became a certified calliope during the visit last week of the Delta Queen to the Madison County boat docks on the Tennessee River. Passengers from the Queen toured Redstone Arsenal, a scheduled stop on the riverboat's itinerary. Miss Ingram's mentor is "Captain" Doc Hawley, a mate aboard the boat and the regular calliope player. The certificate awarded Miss Ingram is voided if she ever plays "Marching Through Georgia." Until now, she has only claimed accomplishment on the piano.

4th OF JULY



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4 dr., "6" cyl., str. shift. A real nice car. \$995.00. \$150. down, \$48.80 mo.

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4 dr., hardtop, power steering, in stock too long. Will take any deal! Breaking dealer cost. No money down, \$47.50 mo.

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1/2 ton pickup, deluxe, 6 cyl., fire engine red. Extra clean, perfect in every way, white tires, big wheel covers, really sharp. \$995.00 \$125. down, \$38.80 mo.

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New Yorker, 4 dr., hardtop, power and air condition. A real nice car. \$775.00. \$125.00, \$38.80 mo.

1957 PLYMOUTH

4 dr., V8, str. shift, radio, heater. Local car. \$575.00. \$75.00 down, \$34.50 mo.

1957 FORD

Station Wagon. 2 to choose from. Nice wagons. \$595.00. \$95.00 down, \$34.50 mo.

1957 FORD

2 dr., stick shift, big engine (newly overhauled). High speed cam, ready for an owner. \$695.00. \$95.00 down, \$38.80 mo.

1956 PONTIAC

2 dr. station wagon. Auto. trans., power steering. \$595.00. \$95.00 down, \$34.50 mo.

1958 VOLKSWAGEN

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Awards and Decorations

Army Commendation Medals have been awarded the following men at the Army Missile Command.

Lt. Col. Bernard T. Geehan, former Chief of Special Review now in Thailand;

Capt. Horace W. Brown, Signal Corps Officer received the Medal with first oak leaf cluster;

Capt. Howard L. Rutledge, Missile Intelligence; Missile Command;

Capt. Carl H. Konkle, Chief, Requirements and Coordination, Pershing Project;

M/Sgt. James T. Brandon, non-

ARMY MAN MAY BE AN ASTRONAUT

The Army has been asked to participate in the selection of a third group of astronauts who will join the present space men in piloting two and three-man vehicles, the Third Army announced last week.

Requirements for the Army space men were outlined in a special message received by Col. William J. Macpherson, commandant of the Ordnance Guided Missile School, from Lt. Gen. Albert Watson II, Third Army commander.

Applications will be received from Army aviators who are U. S. citizens born after June 30, 1929, and are six feet or less in height. A candidate must also have earned at least a bachelor's degree in engineering or physical sciences.

He must have acquired 1,000 hours of jet pilot time or have attained experimental flight test status in jet or reciprocating engine aircraft through the Armed Forces, National Aeronautics and Space Administration or the aircraft industry. His present organization must recommend the applicant.

Applications will be initially screened by the Army's Office of Personnel Operations.

SUMMER SAFETY EMPHASIZED ON OGMS TV CIRCUIT

More than 2,000 soldiers and hundreds of civilians at the Army Ordnance Guided Missile School this week witnessed a 50-minute video tape closed circuit television program on "Summer Safety."

Col. William J. Macpherson, OGMS commandant, made attendance mandatory for members of the school Troop Command and the Unit Training Command as a safety measure design to reduce accidents over the long July Fourth weekend.

The program was produced by the OGMS Television Branch, using many scenes staged at the Officers Club swimming pool and the Redstone Arsenal boat docks on the Tennessee River. Highlights of recent films on traffic safety were included in the program.

CONSERVE LAND

Secretary of Defense McNamara and Secretary of Agriculture Freeman signed an agreement whereby the two Departments will work together for conservation of forest, soil and water resources on lands administered by Department of Defense. Under the agreement, officials in charge of military installations, reservoir projects, and other DOD facilities, can obtain from the Department of Agriculture technical assistance, advice, and special research needed in determining suitability of soils for special uses and in applying conservation measures to their lands.

ANSWER TO WHERE ARE YOU?

These are the pillars in front of the Goddard House.

commissioned officer in charge of Surgical Services in the U. S. Army Hospital;

SFC R. O. Beeson, Missile Support Command Transportation Division.

Capt. William R. Shaw, commanding officer of the Headquarters and Headquarters Detachment for the Support Command received a certificate of achievement.

JOB OPENINGS

Translators in German and Russian commanding grades ranging from GS-5 to GS-11 are open according to an announcement issued by the U. S. Board of Civil Service Examiners at Redstone Arsenal.

The announcement is numbered AT-35-4(63) and requires a written test of facility in translations from English to Russian and German and from the two latter to English.

STATE DEPT. ISSUES NEW BOOK

Department of State 1963, a 152-page illustrated report to the citizen, has just been released by the Department. Unique in the Department's publications program, the book reports on activities of the Department and the Foreign Service in the past year that range from the formation of long-range policy to the work of uncovering hidden espionage devices in our embassies overseas.

The report covers the recent activities of the Department's geographic and functional bureaus, as well as the work of Policy Planning Council and the Office of Security and Protocol. It concludes with separate sections on the Agency for International Development and the Peace Corps and on the U. S. Army Control and Disarmament Agency. Copies of the publication are for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D.C., at \$1.50 per copy.



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