

Legion Of Merit Is Awarded

Col. Harry M. Murray received the Legion of Merit medal Friday at a Retreat Parade and Review at Redstone Arsenal.

Retiring after 30 years service, Col. Murray received the award from Brig. Gen. Howard P. Persons Jr., Deputy Commanding General, Air Defense Systems, Army Missile Command.

The citation recognized the key

State Department Secretary Visits Redstone Arsenal

Jeffery C. Kitchen, a Department of State official, and three members of his staff paid a day-long visit to the Army Missile Command Tuesday.

The visitors received a general orientation on the Missile Command's Pershing ballistic missile system by Col. O. M. Hirsch, Pershing Project Manager.

Kitchen, who is Deputy Assistant Secretary for Politico-Military Affairs in the State Department, was accompanied by Seymour Weiss, Duncan MacKay, and Col. Wallace C. Magathan.

During their visit here, the officials met briefly with Maj. Gen. F. J. McMorro, Commanding General. They returned to Washington Tuesday afternoon.

role the officer played in the production and deployment of the Hawk air defense missile system now operational with U. S. Army and NATO Units. Col. Murray had been the Army's Hawk/NATO Hawk Project Manager since December, 1961.

The Legion of Merit is awarded only for exceptionally meritorious conduct in the performance of outstanding services.

The citation said in part:

"Under Col. Murray's decisive leadership and able direction, the U. S. Army's role in the weapons production program of the Hawk missile system met with complete success.

"The outstanding manner in which he represented the United States Government in assisting the European North Atlantic Treaty Organization-Hawk production organization to establish a Hawk production facility in Eur-

ope greatly enhanced the effectiveness of this program . . .

"By his broad technical knowledge, professional competence and dedicated devotion to duty, he contributed materially to the timely production and fielding of the Hawk missile system, to the prestige of the U. S. Army and the security of the nation."

Born in Greensboro, N. C., Col. Murray first came to Redstone Arsenal in January, 1957. As Executive Officer and later Chief of the Control Office of the Army Ballistic Missile Agency, he held a key post at that agency, successfully developed and fielded the Jupiter IRBM and orbited the Free World's first earth and solar satellites.

In May, 1959, he was appointed Army Liaison Officer to the NATO Hawk Production Organization and held that post until he became Hawk project manager.



LEGION OF MERIT—Col. Harry M. Murray (right) receives the Legion of Merit during retirement ceremonies at Redstone Arsenal Parade Field last Wednesday. Brig. Gen. Howard P. Persons, Jr., Deputy Commanding General for Air Defense Systems, pinned the Nation's highest peacetime award on the former Project Manager for Hawk/NATO Hawk. Others who received honors during the Review and Retreat are M/Sgt. Francis L. Botsford, SFC Clarence L. Cherry and SFC David C. Paxton. The three sergeants have been assigned at the Ordnance Guided Missile School.

The Redstone Rocket

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VOL. XII; NO. 4

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

June 5, 1963

President Plans To View Our Missile Shots Today

President John F. Kennedy has twice visited Redstone Arsenal and seen where Army Missiles are born.

Today he plans to watch them in action at the Army's White Sands Missile Range, N. M.

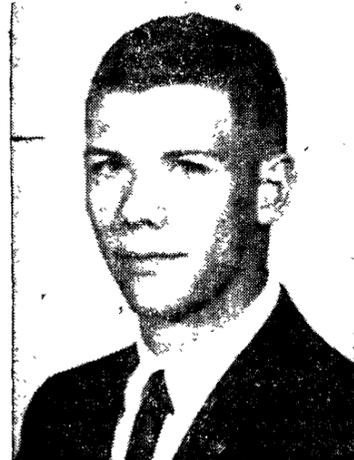
He also is to meet some of the Army's top missilemen, including Brig. Gen. H. P. Persons, Jr., Deputy Commanding General for Air Defense Systems of the Army Missile Command.

During his two hour and 15 minute visit, the President is scheduled to see firings of the Honest John, Littlejohn, Hawk, Sergeant, Nike Hercules and Nike Zeus.

The President also is to meet the soldier teams that fire the missiles.

Col. I. O. Drewry, Project Manager for Nike Zeus Anti-missile Missile and the new Nike X System, will give the President a classified briefing on the two systems.

The Missile Command is also represented by Col. H. J. Katz, Deputy Chief of Staff; and Col. J.



WILLIAM NELSON, JR.

Annapolis Appointment Goes To William Nelson

The son of Lt. Col. William Nelson, the Deputy Chief of the Nike Zeus Project, is going into the military, but he'll never follow in his father's footsteps.

Not as long, at least, as sailors walk with a rolling gait.

Col. Nelson is a Class of 1944 West Point graduate. William Jr. has just won a presidential appointment to the Naval Academy at Annapolis.

The younger Nelson, 18, won a coveted presidential appointment in a series of stiff competitive (See ANNAPOLIS on Page 3)

M. Loomis, Sergeant Project Manager.

The President is to arrive at White Sands Headquarters at 2:45 p.m. After a ten minute talk he will travel to the launching areas for the first firing, an Honest John, at 3:10 p.m.

Then, in short order, he will watch the Littlejohn, Sergeant, and Hawk launched before moving to another range to see a firing of the Nike Hercules and a non-firing demonstration of the Pershing.

The Navy also is to launch a Talos.

The final shot of the day will be a Nike Zeus. The 48-foot long missile will roar away from its cell in the Nike Zeus complex area.

The classified briefing on the Nike Zeus and Nike X Systems will be the last presentation of the day.

President Kennedy is to return to El Paso tonight and go to San Diego, Calif. tomorrow.

Marine Tops Academic List: 99.3

For the second time within a month, a U. S. Marine walked away with the Army's highest academic honors at the Ordnance Guided Missile School.

Sgt. Francis E. Thompson, 27, of Long Lake, Minn., last Wednesday, received the outstanding student award of the Association of the U. S. Army for averaging 99.3 in a difficult 26-week course on the Hawk missile's continuous wave radar system.

The Marine Sergeant, who is attached to the 2nd Light Anti-Aircraft Missile Battalion at 29 Palms, Calif., came within four decimal points of topping the all-time scholastic record set here last August by Japanese Army Sgt. Shosake Takayama. (See MARINE on Page 3)

One For The History Books

The moments of triumph for U. S. Army missiles and the military-civilian team behind them are seldom captured and preserved in the fullest of bloom as the one in the photograph you see below.

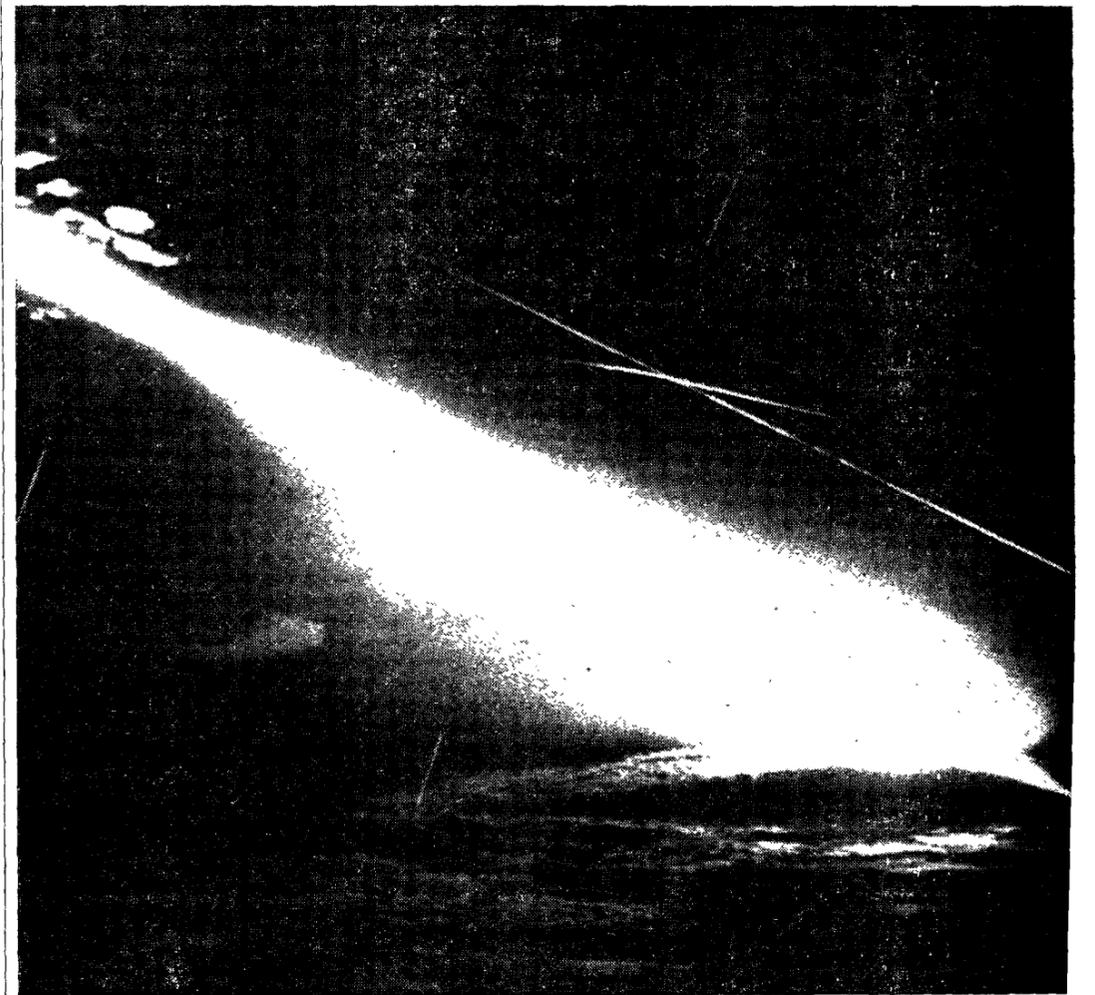
More often than not, the actual instant of achievement went unrecorded. No photographer could be present, for example, when Explorer I—the Free World's first earth satellite—attained orbital speed and actually began its solitary rounds in space.

Until now, a combination of factors had made it impossible to record on film the equally historic instants of intercept as the Army's Nike Zeus anti-missile missiles flashed by target nose cones boosted high over the Pacific by intercontinental ballistic missiles.

Last week, however, the Department of Defense released a photo showing what few eyes have ever seen—an actual engagement between a target nose cone hurtling along at many times the speed of a rifle bullet and a Zeus

missile embodying eight years of the hardest kind of work by an Army-industry team.

Zeus missiles will be fired again and again from the test site on Kwajalein Island in the months ahead. Each test provides valuable input to the high priority Nike "X" development program. But it may be a long time before these tests produce another picture with the dramatic impact of this one—one for the history books—"Intercept" written in flame across the dark background of the night.



INTERCEPT—An "X" in the night sky above the Pacific Ocean marks successful intercept by the Army Nike Zeus anti-missile missile of a special target vehicle boosted by a Titan intercontinental ballistic missile. In this time exposure, the target appears as the uppermost bright streak running from upper left to lower right. Intersecting the path of the target is a shorter streak traced by the burning third stage rocket motor of the Nike Zeus missile. Note the bright spot where the two lines intersect caused by the detonation of the spotting charge carried in the Nike Zeus missile to simulate warhead burst. The lowest, brightest streak is the ICBM booster breaking up as it re-enters the atmosphere. Other dull streaks are traces left by movement of stars during the time exposure. The photo taken during a recent test, is the first ever released showing an actual intercept of an ICBM-boosted target vehicle (story on page 12).

The Redstone Rocket

The Redstone Rocket is published weekly, on Wednesdays. The publisher will receive editorial content for publication in the Rocket only through the Information Office, Army Missile Command, Redstone Arsenal, Ala., Bldg. 5250, Room A-136, Extension 876-4161.

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

Mailing rates for the Rocket are \$5.25 a year, or \$2.89 for six months, tax included. Mailing arrangements may be made with the publisher, P. O. Box 520, Hartselle, Ala.

Rocket Ruminations

Every great crisis of human history is a pass of Thermopylae, and there is always a Leonidas and his three hundred to die in it if they cannot conquer.

—George W. Curtis

Lure: Water Wanderland

Summertime is almost upon us. The late Spring has brought on bright sunny days that lure the public to the water-wonderland that spreads through this portion of the Tennessee Valley.

The Coast Guard is on the lakes to help boatmen and fishermen in case of need. Their rules are simple for the boatmen and may be obtained in bound form for the asking.

A few safety precautions are automatic with every thinking boater like enough gas—life preservers for all aboard—fresh water in case of motor failure because it can be a long, dry day if you are stranded without it.

Swimmers, and skiers too, must observe the safety rules to get the most fun from the sports. Life preservers on the skiers can prevent serious accident in case of a fall in which the skier is stunned momentarily.

And for swimmers—know your limitations in the water and act accordingly. Even the strong type can go under if energy is exhausted through miscalculation.

BOX SCORE ON SAVINGS BOND DRIVE

Missile Command Hdqtrs., Including Missile Intelligence Directorate	Civilian (%)	Military (%)	Total (%)
P&P Directorate	74.6	90.5	75.0
S&M Directorate	69.0	64.3	68.9
R&D Directorate	63.1	41.0	61.1
Total Missile Command	69.5	56.3	68.8
Nike Zeus Project Office	49.7	41.7	49.2
AMSC	81.7	62.9	78.5
OGMS	96.2	66.9	74.0
Total All Army Elements	75.1	64.5	72.8

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TARGET MISSILES—Jere Ducote, Chief of the Target Guided Missiles Branch of the Army Missile Command's Directorate of Research and Development, shows off a tableful of models of target missiles. Nudging Ducote's shoulder is the supersonic Redhead and Roadrunner. Ducote holds a Firebee, a smaller model of the large one shown on the upper right. The propeller driven target at right is a Cardinal. Many of the targets shown here are development models of target missiles that are still in the drawingboard stage.

Gay Deceivers In Gaudy Colors Distinguish Army Target Missiles

The Army's most colorful missiles are gay deceivers.

They are the target guided missiles which try hard to act like what they really aren't — full scale missiles and airplanes.

Some of them saunter along at a pokey 200 miles per hour and others flit through the blue at twice the speed of sound.

They even play follow-the-leader in a darting, diving game of aerial aerobatics.

The chances are you will never see one unless you should blunder over a missile firing range. And, even then, the aviator who wanders too close to a firing area will hear from an aerial policeman long before he has a chance to see a target.

The small birds are developed and supplied to Army missilemen by the Army Missile Command at Redstone Arsenal.

Primarily, the target missiles are used for two purposes: to provide a "clay pigeon" for the Army's missile sharpshooters; and to provide a "live" target to test the ability of Army Missile systems to pickup, track — and most important — hit high performance aircraft and missiles.

The target missiles can simulate both airplanes and missiles. One of the smallest is the propeller driven RCAT. Many WWII anti-aircraft gunners trained on this 12-foot long craft that resembles an overgrown model airplane.

The latest missile developed

solely as a target is the dual purpose Redhead and Roadrunner that can whistle along at 900 MPH just 300 feet off the brush. Or, it can spurt to Mach 2 at 60,000 feet in altitude. Mach 2 is roughly 1300 MPH at that altitude.

The parade uniform for most Army missiles is a glossy black and white. But, target missiles generally wear bright red or fluorescent orange as working clothes. The reason is visibility.

Color doesn't mean a great deal to radars that track the target missiles. But, it's like using a black golf ball in a snow storm for the recovery people who hunt them down and bring them in after their flight is over. Missile range country is usually so rugged that some people aver crows won't fly over it.

The missiles are lowered to earth by parachute and are recovered after each flight unless their mission is to provide a target for missilemen using armed missiles. Then, the explosion of a well-aimed warhead or an occasional direct hit is enough to turn one into cast iron confetti.

Recovering the targets saves money. The Firebees, a sweeping target with a turbojet engine, averages 10 flights before the dents become too big to knock out. One staunch Firebee has flown 27 missions and at last re-

port was still ready to go, needing only a snort of JP-4 jet fuel.

Even if they were not recoverable, the target missiles would be cheaper than drone airplanes with "black box" pilots. Cheaper still, they can pull tow targets.

The target missiles are radio controlled. They can maneuver like a jet and even fly in formation. For formation flying the Firebee is equipped with a special radio transmitter that keeps two other slave Firebees trailing along behind it on an electronic leash. This air show stunt was designed to give missilemen the illusion that they are under attack by a flight of aircraft or missiles.

Most of the Army's target missiles are ground launched — literally hurled into the air by a JATO bottle strapped underneath.

But some, such as the 10-foot RP-76, can be carried two at a time under the wing of an F-89 jet airplane.

Once in flight a target can last for varying periods before its fuel runs out—or it runs into a warhead. The Redhead and Roadrunner can stay up from 6 to 10 minutes; the RP-76 can rocket around for 10 minutes; the RCAT's four cylinder engine will keep it aloft for an hour; and the Firebee will sprint along at near the speed of sound for an hour.



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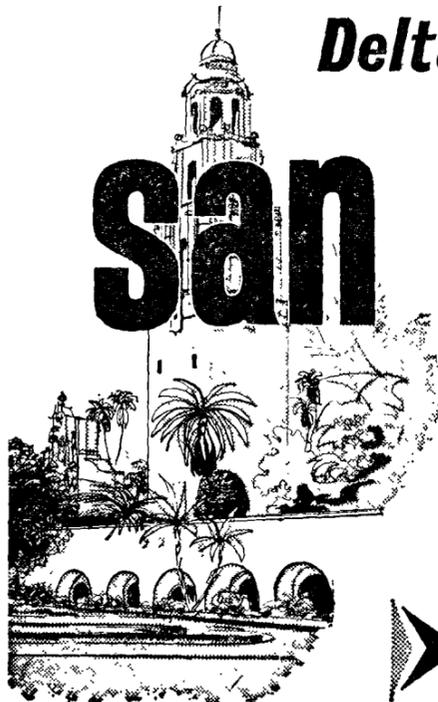
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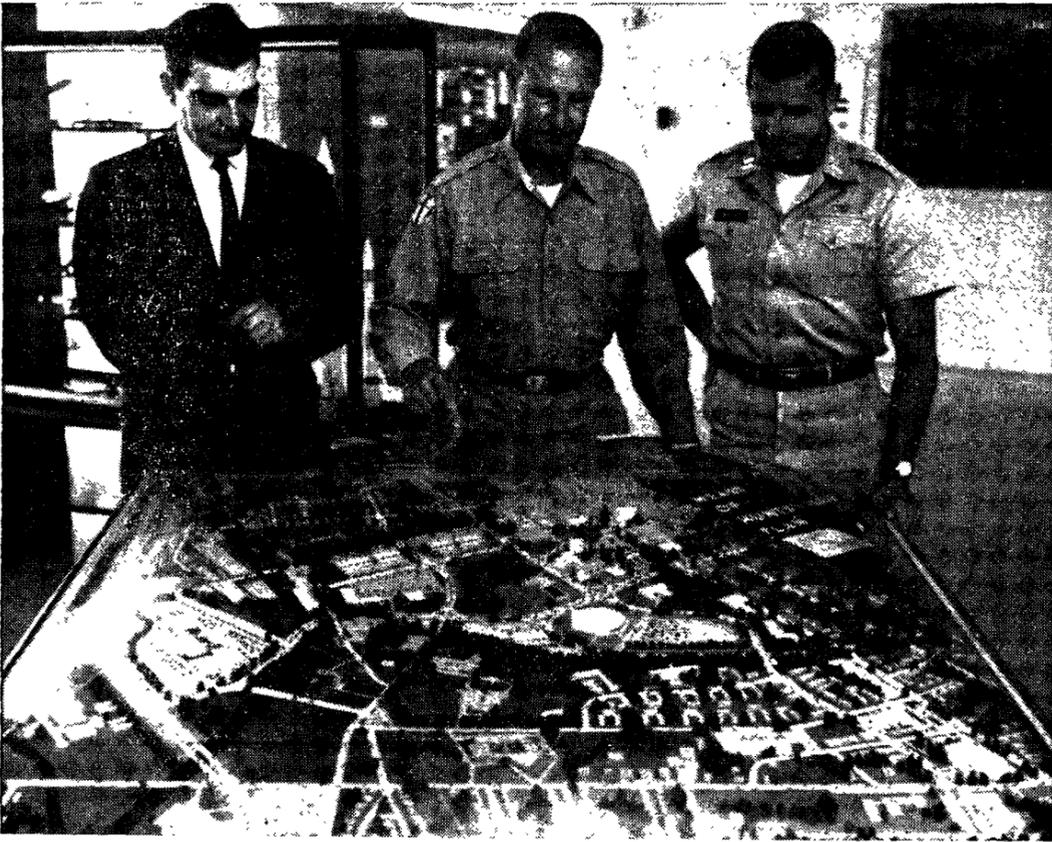
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FUTURE SPACE CAPITAL—This is the way Heart of Huntsville will look in a few years, according to plans. Col. Thomas W. Cooke, Commander of the Army Missile Support Command, discusses this scale model with Lauin Carroll, Executive Asst. for Intelligence and Operations of the Support Command, and Capt. Lloyd Wright, Executive Officer of the Mauler Project. The model, photographed in the lobby of Bldg. 5250, shows a number of new buildings including a new auditorium and the city-county building.



SPECIAL LIBRARY OFFICERS—Ann Logel, (right), head librarian for the Rohm and Haas Company at Redstone Arsenal, was elected president of the Alabama Special Library Association at a recent convention in Anniston. Frances Dickey, (left), a librarian with the Redstone Scientific Information Center, was elected secretary of the association, and Lucile Ridings, (not shown), also a Center librarian, was appointed public relations chairman. Other librarians from Redstone attending the convention were Cleo Cason, Edith Cribbs, and Jane Bentley, all of the Redstone Scientific Information Center; Catherine Green and Mary Beth Campbell, Missile Intelligence Library, Army Missile Command; and Lois Robertson, librarian from the Marshall Space Flight Center.

MARINE
(Continued From Page 1)

A special plaque was presented to Sgt. Thompson by A. A. Demetriou, Northrop Corp. manager here and a director of the A.U.S.A. The Marine was one of 60 students from the German Air Force and the U. S. Army and Marine

Corps who received diplomas at a ceremony in the Redstone Arsenal Theater.

The graduates heard Lt. Col. Jerome B. Feldt of Atlanta, executive officer of the Third Army's Aviation Section report on the new air assault concept which the Army is now testing as a means of increasing its atomic battle-

BICYCLE SAFETY WILL BE TAUGHT

A bicycle safety program is to be conducted for children ranging from six to twelve years old by the Provost Marshal Division and Post Safety Office of the Army Missile Support Command June 12-13-14.

The first day consists of lectures and a safety film that will be presented at the Post Theater and a bicycle safety inspection that will be conducted at Crozier Drive.

Children are requested to be at Crozier Drive and Hof Circle with their bicycles at 8:30 a.m.,

June 12. Buses will pick up cyclists at corner of Crozier Drive and Hof Circle and transport cyclists to the Post Theater for safety lectures and safety films.

Children will park their bicycles on Crozier Drive where a guard will be posted until return from the theater. An inspection of all bicycles will conclude the first day's activities.

The second day's program consists of a bicycle rodeo which be-

gins at 9 a.m., June 13, on Crozier Drive.

On the third day children are requested to be at Crozier Drive at 1 p.m., June 14, for the presentation of certificates. Parents are reminded that children must attend both the first and second day's activities to be eligible for a certificate. Parents are not required to attend, but are welcome. In the event of inclement weather, the bicycle program will be held on June 19, 20, 21.

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field mobility.

Col. William J. Macpherson, Missile School commandant, presided at the ceremonies.

ANNAPOLIS

(Continued From Page 1)

tests. He received word last week he was to report to Annapolis on June 26.

Previously he had qualified for entrance to each of the three service academies but had not been able to obtain an appointment.

He graduated from Butler High School this year where he was a member of the Key Club. He has been active in scouting and swimming in this area for the past three years.

What does Col. Nelson, an Army officer for some 20 years, have to say about his oldest son going to the Naval Academy? Not much, except that "it sure is going to complicate things at the Army-Navy game."

Col. and Mrs. Nelson are both from Waupaca, Wisconsin and currently reside on Redstone Arsenal. They have three other children, James, David and Nancy.



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1500	\$59.80	\$59.80	\$137.80
2000	\$78.96	\$78.96	\$181.96

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Redeye Looks Like Innocent Package--But Pow!

An innocent looking cylinder housing a very compact and deadly guided missile represents one of the most eagerly sought pieces of hardware now being developed by the Army Missile Command.

Several NATO nations in addition to other U. S. military services have expressed interest in the progress of the system, called the Redeye after the type of guidance employed.

Redeye is a man-portable, shoulder-fired missile designed to provide combat troops with the capability to destroy low-flying hostile aircraft. It will fill a gap in our anti-aircraft defenses particularly for our field soldiers.

When it becomes operational, Redeye may be carried by the foot soldier wherever he goes—through steaming jungles, up rugged hills, and down jagged ravines. E. K. Charlton, assistant commodity manager for the system put it plainly when he stated, "If the infantryman can get there, the Redeye can be deployed there."

The missile received its baptism of fire in 1961 at a combat readiness demonstration staged at Ft. Bragg, N. C., for President John F. Kennedy.

Redeye employs an infrared guidance system, a high explosive warhead and a solid propellant motor. The launcher is approximately four feet long, about three inches in diameter, and the entire system weighs only about twenty-five pounds.

It is designed as a relatively inexpensive weapon with which the individual soldier can knock down a plane placed in the air at the cost of millions of dollars.

Being developed under a contract to General Dynamics at Pomona, Calif., Redeye is managed by the Army Missile Command under the Commodity Office concept with Col. Norman Dennis as the Commodity Manager and Lewis "Ron" Gober as his deputy. They also hold similar positions in the Mauler Project Office and as a result much of the Redeye management is delegated to a five-man Commodity Office headed by Charlton.

Bill Walker is the assistant for engineering, Jim Herring answers to the title of assistant for logis-

tics and Wayne Shaull is the program manager. Phyllis Fohner completes the office staff in the role of secretary.

When Col. Dennis moved into the Mauler Project Office last fall, he inherited the reins of the Redeye Commodity Office at the same time. In this role, the Cleveland, Ohio, native is the only locally assigned officer charged with the responsibility of two systems still in the development stage.

As project manager and commodity manager simultaneously, the Col. Dennis-Ron Gober team must control the activities pertaining to each system to insure that both the Mauler and the Redeye are fielded with a minimum of delay and at a minimum cost concurrent with the highest quality.

This dual responsibility makes for a great many problems in the areas of research and development, industrial production, and field maintenance — problems which are not interchangeable and must be solved system by system.

A veteran officer with over 28 years of commissioned service, Col. Dennis has been directly connected with Army ordnance throughout his active military career.

He received his BS in Electrical Engineering from Case Institute of Technology, in Cleveland in 1934, and his Master's degree from Rensselaer Polytechnic Institute, Troy, N. Y., in 1950.

Col. Dennis was assigned to the Missile Command last October upon his return to the States from a two-year tour in Germany where he was assigned to the Ordnance Industrial Center in Europe. His last assignment there was as Commanding Officer.

His civilian co-pilot for the two missile systems, Mr. Gober is a native Mississippian and a graduate engineer from Mississippi State. He was an anti-aircraft artillery officer during World War II and presently holds the rank of lieutenant colonel in the corps of Engineers Reserve.

Gober came to Redstone Arsenal in 1956 and among other positions that he has filled here,

he was Director of the Systems Design and Development Laboratory for ABMA. He came to Redstone from the Air Force having been Chief of the Organization and Equipment Branch of the Air Force Aviation Engineering Division at the Pentagon.

The Commodity Manager's small but able Redeye staff serves as his liaison with the prime contractor and the Command functional units to assure integration of all activity necessary to provide the system to using organizations. Charlton and his staff are the managers while the functional units within the Directorate of Research and Development, Procurement and Production, and Supply and Maintenance, are the doers.

A graduate engineer from Vanderbilt University, Charlton is a veteran Arsenal employee who has assumed a progressively greater role of responsibility in the development of Army weapons since starting his Redstone employment in 1951.

Prior to being named assistant project manager for Redeye, "Sonny," as he is better known to his associates, was deputy chief of the Control Office, Army Rocket and Guided Missile Agency.

In this position he became thoroughly familiar with a number of weapon systems among which was the Redeye. The system at that time was in the concept and design stage. Therefore Charlton has been associated either directly or indirectly, with the system since its inception as an idea.

His role is that of the official representative of the Commodity Manager for the exercise of policy and inter-functional management of the system. He is responsible for the necessary budgeting, planning and programming as well as execution of the approved plans.

A recent addition to the Commodity Office, Bill Walker is nevertheless well versed in the Redeye system having been the chief engineer in the Redeye Section of Research and Development prior to being named to his present position.

A North Carolinian, he is a graduate electrical engineer from North Carolina State College in 1951. All of his post graduate experience has been in the field of research having worked for the Boeing Airplane Co. for a year and the U. S. Naval Propellant Plant at Indian Head, Md., for six years prior to coming to Redstone in 1958.

Jim Herring the assistant for logistics, is a 25-year veteran of both military and civilian service with Army Ordnance. A reserve officer he holds the rank of lieutenant colonel in the Ordnance



PRESIDENTIAL AUDIENCE—The first public firing of the Redeye was performed at Ft. Bragg, N.C., during an Army weapons demonstration staged for President John F. Kennedy. Lt. Francis Dongieux is shown as he fired the weapon at the 1961 demonstration. Since released from active duty, Dongieux continues to be involved in the development of Redeye as a physicist in the Research and Development Directorate.



Charlton



Herring

Corps. He came to Redstone in 1955 as an officer and two years later reverted to civilian status upon being released from active duty.

A native of Lanett, Ala., Herring attended Georgia Military College and the University of Omaha, and was granted his BA in Business Administration from Athens College since coming to Redstone.



Shaull

The Redeye program office manager, Wayne Shaull joined the Army team in 1957 switching his allegiance from the Navy where he had served in both a military and a civilian capacity for 12 years. He came to Redstone from the U. S. Naval Supply Depot at Mechanicsburg, Pa., where he was

an equipment specialist. Since coming here he has worked in the Industrial Division, as an engineering technician, and in the Control Office, as a technical program specialist, for the Army Rocket and Guided Missile Agency, and in the Nike Zeus Project Office, as a system planning and analysis officer, prior to being assigned to the Redeye office.

Mrs. Fohner, whose husband works for the Comptroller and Director of Programs, is a graduate of the North Alabama College of Commerce. She came to the Arsenal in 1960 after having served as secretary to the principal of Arab High School.



Mrs. Fohner

The American rocket research program began nearly eight months before the first V-2 crashed into London. In January, 1944, the United States instituted its high-altitude rocket project using a series of powder-fueled missiles known as the Private series.



DOUBLE DUTY—Col. Norman Dennis and Lewis (Ron) Gober each wear two hats in the Army Missile Command organization. They are manager and deputy respectively for the Mauler project office and the Redeye commodity office.

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Army Awards Contracts Totaling \$12 Million

Data Retrieval Hawk, Pershing Allocation Is \$1.29 Million Contracts Are \$4.25 Million

The Army Missile Command said today it had signed a \$1,299,530 contract for a data retrieval system that will allow the selection and reproduction of any one of 400,000 missile drawings in a matter of minutes.

The contract is with the Magnavox Company, Fort Wayne, Ind. The work will be performed in the company's Torrance, Calif., plant.

Twenty-two months were allowed for delivery of the system. Called the Automated Engineering Drawing Storage and Retrieval System, it will store missile system documentation drawings on film "chips."

An operator can obtain any drawing by placing a coded punch card in the system or typing the drawing reference number directly into the system. The drawing is transferred photographically from the film chip to an aperture card. The processing takes about 60 seconds.

An aperture card is a punch card with an insert of photographic film.

Once the reproduction is completed the film chip is returned to the file and the requester gets the aperture card. From it he can print blowup copies of the drawing or view it on a projector.

The contract will be administered by the Missile Command's Directorate of Procurement and Production. The system will be a part of the Directorate's Documentation Branch.

The Directorate said that at present it has a master file of about 1½ million engineering drawings of missile parts and assemblies that are in frequent demand. These drawings are filed on aperture cards.

The card on a particular draw-

The U. S. Army has announced the award of three contracts totaling \$4,293,243 for work on the Pershing and Nike Hercules missile systems. The Nike Hercules contract went to a small business firm.

The Martin Co., Orlando, Fla., received \$2,082,642 for continuation of engineering services on the Pershing missile. The work will be done in the company's Orlando plant.

Continued manufacture of Pershing missile trainers is covered by a \$1,077,361 award to Hayes International Corp., Birmingham, Ala. The work will be performed at their Birmingham facility.

A small business firm, Farmers Tool and Supply Corp., Denver, Colo., received \$1,133,240 for production of shipping and storage containers for the Nike Hercules air defense missile system. The work will be done in the corporation's Denver plant.

Pershing is a two-stage ballistic missile designed to replace the operational Redstone.

Nike Hercules is an operational weapon system now on site around key cities and defense installations.

The Programs for both the Pershing and Nike Hercules are managed from headquarters at the Army Missile Command.

The Birmingham Procurement District will administer the Pershing contracts, and the St. Louis Procurement District the contract for Nike Hercules work.

ing may be in demand by several persons at one time. Often the drawing is required at a contractor's plant or other installation.

The new system will remedy this by not only providing fast access to any drawing, but also providing an unlimited number of aperture cards containing the drawing.

\$6.25 Million Tabbed For Zeus System

The Army has announced the award of two contracts totaling more than \$6.25 million that will give a boost to continued testing of the Nike Zeus Anti-missile Missile system and the development of the Sprint Missile.

The Sprint will be a part of the Nike X Anti-missile System.

Both contracts are supplements to the existing Nike Zeus contract with Western Electric Co. A total of \$3,908,870 was awarded for supplies and services necessary for Nike Zeus System testing, including modifications to tracking radars and manufacture of missile guidance components.

The second contract for \$2,368,100, was awarded for Sprint Missile research and development.

Continued testing of the Nike Zeus System components is related to development of the Nike X System, the Army said. The new system, an advanced version of the Nike Zeus System, will make extensive use of Zeus technology and components.

The Nike Zeus Project Office at Redstone Arsenal, headed by Col.

Feasibility Study Contracts Go To Thiokol And Aerojet

The Nike Zeus Project Office at Redstone Arsenal, said Thursday it had awarded two contracts totaling \$700,000 for feasibility studies on a new solid propellant for the Sprint missile.

The Sprint will be a part of the Nike X anti-missile missile system. Nike X is the new, advanced version of the Nike Zeus system.

The contracts, each for \$350,000, went to the Aerojet-General Corp. for work to be performed at Sac-

ramento, Calif., and the Thiokol Chemical Corp., which will use its facilities at Huntsville.

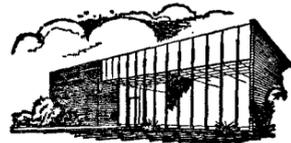
The Nike Zeus Project Office manages the Nike X project. Col. I. O. Drewry is the project manager.

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

Martin-Marietta will build the Sprint missile.

The contract was awarded through the Purchasing and Contracting Division of the Army Missile Support Command.

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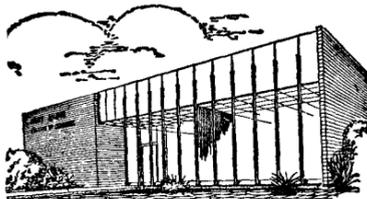
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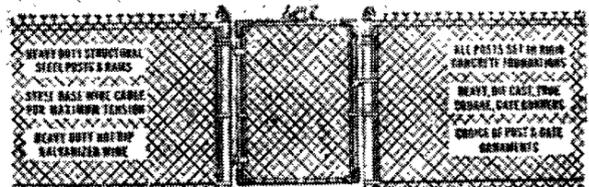
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Mrs. Mullins Takes Chrysler Cup, Invitational Off 'Til Greens Grow

Chrysler cup trophies were presented to the winner and runners-up in the golf tournament among the group sponsored by the Redstone Arsenal Officers Wives Club by Bruce Grant, manager of Personnel Services at the Chrysler Huntsville Division, last Wednesday.

Winner was Mrs. James Mullins; runner-up, Mrs. William Higgins. Mrs. E. W. Powell was awarded the medalist trophy, Mrs. H. E. Ammerman was runner-up in the first flight; Mrs. R. J. Schofield, runnerup in the second flight and Mrs. William Kaiser received the consolation prize.

The trophies were presented at a dutch lunch in the Rathskeller of the Squirrel Hill Officers Club.

The group is also asking that the Redstone Arsenal Women's Golf Invitational be postponed until a new date can be assigned by the Women's Alabama Golf Association to allow time for the greens at the Arsenal Course to be re-worked.

Mrs. Kaiser is chairman of the invitational at the Arsenal.

Mrs. D. L. Shepherd is chairman of the Golf Group.

Total E and H Bond sales for the first quarter of 1963 amounted to 1,347 million, 11 per cent above the same 1962 period.

Men's Golf Championship Tournament Is Underway

Redstone golfers reach the half-way point in their quest for berths on the Arsenal golf team today when they complete the second round of the 72-hole qualifying tournament at the RSA golf club.

The four low Open division scorers and the two low shooters in the Senior division will win berths on the Arsenal team that will compete in the Third Army Championship to be held at Ft. Benning, Ga., in August.

The qualifier opened yesterday and will continue Thursday and Friday with an 18-hole round slated each day.

Trophies will be awarded to the winner and runner-up in each division, and to qualifying team members at the conclusion of the final round on Friday.

Tennis Champ To Be Decided

A new Redstone tennis champion will be crowned Friday when the final round of the 1963 Arsenal championship tournament is played.

The meet started on Monday with seven racket wielders seeking the title won last year by Lt. Bill McCaughan. McCaughan captured the singles crown and paired with PFC Mickey Thomas in taking the doubles event.

The winner and runner-up in singles and the winning doubles combine will represent Redstone at the Army championship to be played at Ft. Bragg in July.

Sports By Lambert

By SFC Lambert

The Sports Program at Redstone has been pretty much at a stand-still this past week. Rainy weather brought the softball and baseball league schedules practically to a halt with four softball and one baseball games played.

Softball

Games May 23:
Med. Det. 12. Officers 11.
Co. A OGMS 17; Hq AMC 2.
Hq AMSC 11; 291st MP Co. 8.

Co. B OGMS 7; Hq STC 0.

League Standings

Team	Won	Lost
Hq AMSC	8	1
Hq AMC	7	3
Co. A OGMS	7	3
Co. B OGMS	6	3
Med. Det.	5	4
Hq STC	4	5
Officers	4	6
Hq UTC	3	6
291st MP Co.	3	7

Co C OGMS (Dropped from league)

Games Scheduled:

Team	Date	Time	Field
Co. A OGMS vs. Officers	June 5, 6 p.m.	1.	
291st MP Co. vs. Hq UTC	June 5, 6 p.m.	2.	
Hq AMSC vs. Med. Det.	June 5, 7:30 p.m.	1.	
Hq AMSC vs. Hq. STC	June 5, 7:30 p.m.	2.	
Hq. STC vs. Hq. AMSC	June 6, 6 p.m.	1.	
Hq. UTC vs. Co. A OGMS	June 6, 7:30 p.m.	1.	
Officers vs. Co. B, OGMS	June 6, 7:30 p.m.	1.	
291st MP Co. vs. Co. B, OGMS	June 10, 6 p.m.	1.	
Hq AMSC vs. Officers	June 10, 6 p.m.	2.	
Hq. AMC vs. Hq. UTC	June 10, 7:30 p.m.	1.	
Hq. STC vs. Med. Det.	June 10, 7:30 p.m.	2.	

Baseball

Result May 29:
Hq. UTC 7; Co. B OGMS 1.

League Standings

Team	Won	Lost
Co. A OGMS	3	0
291st MP Co.	2	1
1st ETC	2	1
Hq UTC	1	3
Co. B OGMS	0	3

Games to be played at Linton Field 6:30 p.m.

June 7, Hq. UTC vs. 291st MP Co.

June 11, 1st ETC vs. Hq. UTC

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Junior Golf Clinic Set

Junior golfers will attend a five week clinic conducted by Golf Pro Mac MacClure at the Redstone Arsenal Course beginning June 6.

The Junior golfers will hold a tournament June 25-30. Participants will have to furnish their own clubs to play—but some clubs will be furnished for the clinic.

The Junior Golf Group is sponsored by the Redstone Arsenal Officers Wives Club. Mrs. E. W. Powell is chairman for the group. Others helping her will be Mrs. J. B. Cobb and Mrs. Miller.

Advanced juniors usually play five holes after the instruction period conducted by the pro.

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Post Library

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Non-Fiction

Burkhart, Roy A., "The Person You Can Be."
 Cross, Jeanette Wollace, "The new standard book of dog care and training."
 Davies, Arthur Powell, "The First Christian."
 Ehrenburg, Iliia, "People and Life, 1891-1921."
 Francis, Connie, "For Every Young Heart."
 Harral, Stewart, "When It's Laughter You're After."
 Huxley, Elspeth Josecelin, "On the Edge of the Rift; Memories of Kenya."
 Jackson, Robert A., "How to Like People."
 Owen, Mrs. Jeanne, "... A Wine Lover's Cook Book."
 Picon, Molly, "So Laugh a Little."

Biography

Bigland, Eileen, "Mary Shelley."
 Eden, Sir Anthony, "Facing the Dictators; the Memoirs of Anthony



FRIENDSHIP AND APPRECIATION—Maj. J. M. MacDonnell, commander of the Unit Training Command, OGMS, accepts a banner from Maj. Kai-chi Ceh, detachment commander of the first Ordnance Missile Support Unit from the Republic of China at graduation ceremonies May 16. A similar banner was presented to CWO Clay Hensley, chief of Hawk Branch, UTC, where the Chinese unit attained the highest proficiency score of any detachment completing the training.

Eden."
 Hart, Ivor Blashka, "The World of Leonardo da Vinci."
 Lengyel, Emil, "Krishna Menon."
 Mailer, Norman, "Advertise-

ments for Myself."
 Michal, Mira, "Noboby Told Me How; a Diplomatic Entertainment."
 Moody, Ralph, "The Dry Divide."
 Purcell, Mary, "The Great Cap-

HUGEL RECEIVES SCOUTING AWARD

Fifteen years of devoted service to the Boy Scout movement in Huntsville was cited Sunday with the presentation of the Lamb Award to Phil Hugel, an employee of the Army Missile Support Command's Reproduction Section. The award was made to Hugel by the National Lutheran Commit-

tee on Scouting for distinguished service to boyhood. The presentation was made by Dr. George Hart, minister of St. Mark's Lutheran Church, and a former winner of the coveted award. Hugel has contributed greatly to scouting and youth activities in the Huntsville area since 1946 when he was assigned to Redstone Arsenal as an enlisted man. Except for one year spent in Korea, he has been at the Arsenal in either a military or civilian capacity since arriving here. He retired from the military service as a Master Sergeant in 1958.

tain; Gonzalo Fernandez de Cordoba."



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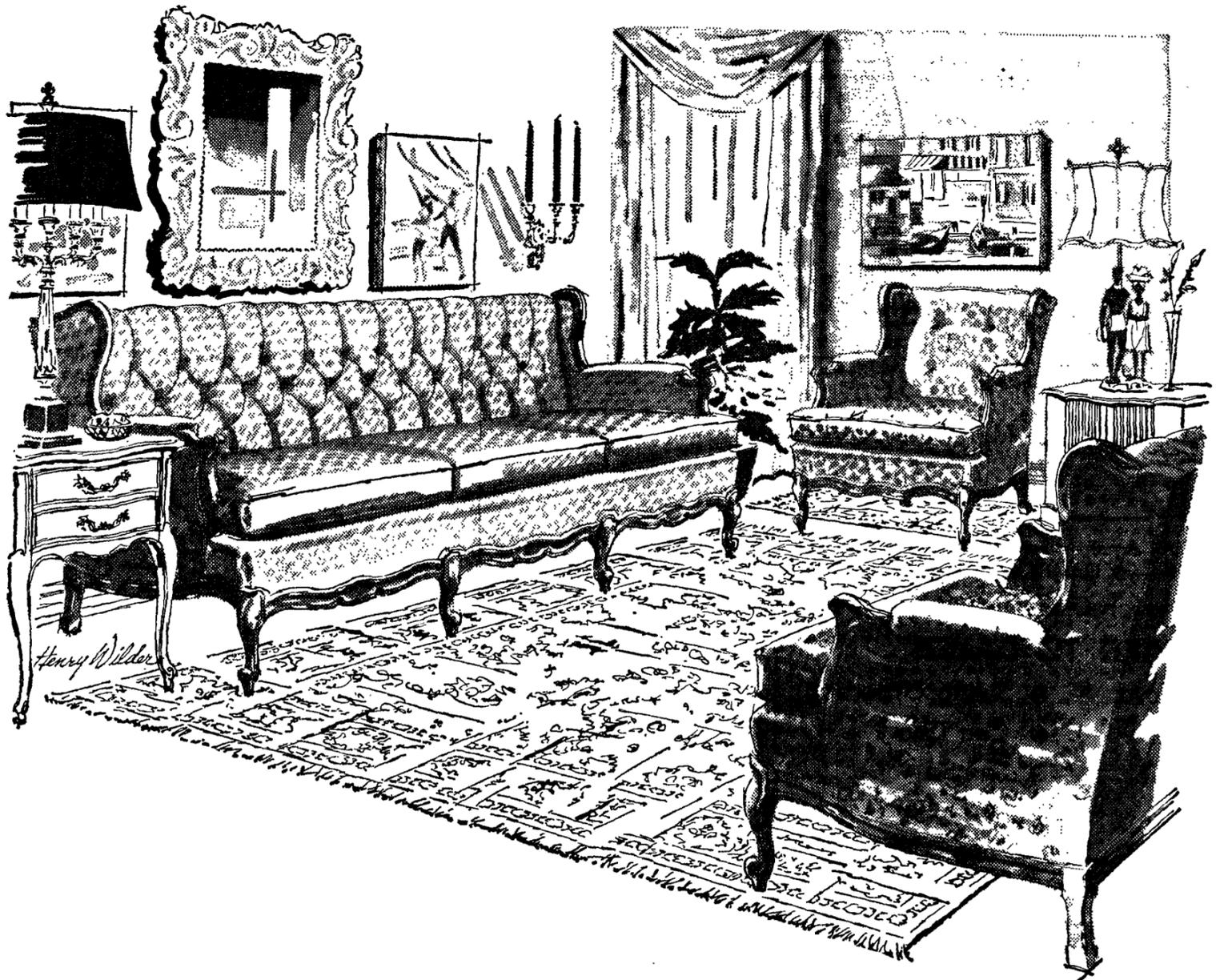
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Tool Engineers To Hear Wiesman

Walter Wiesman will talk to the ladies night dinner meeting of the American Society of Tool and Manufacturing Engineers at the Squirrel Hill Officers Club June 11.

Wiesman's talk is titled: Travel Now. It Is Later Than You Think.

The society meets for a social hour at 6 p.m., followed by dinner and the speaker.

Reservations are being accepted by Art Noellert, T. D. Nichols, Bob Pomeroy, Bill Juckett and Jim Shafer.

Mrs. Scott, Bramblett Win At Party Bridge

Mrs. Wesley Scott and Jim Bramblett took high scores at Monday night bridge at the Squirrel Hill Officers Club last week.

Second high for both the men and women went to Lt. and Mrs. Joseph L. Davis.

Seven tables were in play during the evening. Mrs. Jerry Maloy is taking reservations to play with the group each Monday night.

SEVEN RECEIVE SAFETY AWARDS

Ten-year safety awards were presented by the National Safety Council to seven employees of the Directorate of Research and Development. All had completed at least ten years of Federal service without a disabling injury.

The employees were: Harry F. Vincent, Project Director of R&D; John L. McDaniel, Technical Director of R&D; J. J. Fagan, Scientific and Engineering Assistant for R&D; Helen L. Blanton, Chief of Administrative Branch, Operating Services Office; Marjorie Marks, Records Management Officer; Rabon W. Powers and Nolan Hamlett, both truck drivers.

SOCIAL ^{and} CLUB EVENTS

New Gray Ladies Capped In Post Chapel Ceremony

Redstone Arsenal Chapter of the American Red Cross held a Gray Lady capping and volunteer recognition ceremony on Monday night, May 27, in the Post Chapel.

The invocation by Chaplain W. R. Bottoms opened the ceremony and the new Gray Lady class was welcomed by Mr. Bruce Grant, Vice Chairman of the Madison County Chapter of the ARC. He emphasized the exceptional success of the Bloodmobile each month at the Arsenal, and the efforts of the volunteers which make it so successful.

New Gray Ladies were capped by Major Hazel L. Evans, Chief Nurse at the Post Hospital, Mrs. Betty Lau, Gray Lady Chairman pinned them with the Red Cross service pin and Col. Thomas W. Cooke, Post Commander, presented the certificates.

Mrs. Lau presided in the candle lighting ceremony and led the new volunteers in repeating the Gray Lady pledge. Mr. Carter, Assistant Red Cross Field Director, presented the class to Col. Harry McClain, Post Surgeon. Col. McClain accepted the class and expressed his appreciation to the Gray Ladies and other volunteers. He stated that without these volunteer services it would be impossible to have many of the services offered in the clinics.

New Gray Ladies receiving their caps were Mdmes Lucille Burch, Betty Cosby, Linda Delaney, Ann Hodges, Ann Hutchison, Barbara Jennings, Blanche Kaiser, Margaret Kernan, Lynel Meekison,

Marie Melochick, Alice Robinson and Margie Stewart.

Mrs. Grace Furphy, Chairman of Volunteers, presided at the volunteer recognition ceremony.

Mrs. Helen Moore was presented with a 20 year service pin and a bar for 100 hours service during the past year. Mrs. Harriet Leech and Mrs. Katie Rives received 10 year pins and bars and Mrs. Betty Ammerman, Mrs. Beverly Burnell and Mrs. Elaine Graham received 5 year pins. Mrs. Martinus and Mrs. Annie Murphy were awarded chevrons and bars.

One year service bars were received by the following Gray Ladies: Mdmes. Doris Billings, Ruth Bryant, Beverly Burnell, Adelina Caporale, Thelma Cook, Myra Cox, Marge Drewry, Grace Furphy, Carole Hond, Diana Jamieson, Elizabeth Katz, Betty Lau, Joyce Lewis, Lil Lewis, Geraldine Loshbough, Persis Mytinger, Peg Nagle, Jan Register, Edith Shave, Rosemary Smith, Millie Whalen, and Mary Lou Wright. Pat Lawrence, Staff Aide, received a chevron.

Volunteer nurses were given special recognition for their work at the Bloodmobiles. Mrs. Marie Bottoms received a 20 year pin, 1 year service bar and a certificate. Mrs. Helen Batterson a 10 year pin, chevron and certificate and Mrs. Joanne O'Brien a chevron.

Nurses Aides honored were Mdmes. Margaret Gannon, Virginia Persons and Jane Pickett. 20 year pins, Mrs. Ruth Nelson and Mrs. Martha Weaver 10 year pins, bars and certificates. Mrs. Joan Bass received a service bar.

Those given recognition, but unable to attend the ceremony were Nurses Jean Loomis, Doris Leech, Shirley McMann, Helen Pfeiffer, Candy Quantz, Aida Reindoldt and Lee Welsh. Nurses Aides Margaret Bond and Kay McMorrow. Staff Aides Alma Hanson and Tmelda Kingston. Gray Ladies Mary Anderson, Millie Gay, Edna Hersch, Margarete Macy, Edie O'Keefe, Beverly Payne and Esther Robinson.

Teenagers Sharon Whelan, Susan Palmer, Bunny Nagle, Mary Ellen Bond, Joan Nagle, Sue Leech, Carol Grace, Nancy Gleason and Kathy Cook were given certificates in recognition of their help at the bloodmobiles last summer.

Following the ceremony, Mr. Clarence Wells of the Madison County Chapter of the ARC surprised Mrs. Grace Furphy with a memento for her dedicated service as Chairman of Red Cross Volunteers at the Arsenal. Mrs. Furphy presented her epaulets to Mrs. Joan Bass who will succeed her as Chairman.

Refreshments were served by

Gen. Sverdrup To Talk

Maj. Gen. L. J. Sverdrup, retired, President of Sverdrup and Parcel and Associates, Inc., will be guest speaker of the Northeast Alabama Chapter of the Alabama Society of Professional Engineers for the June meeting.

Gen. Sverdrup's subject will be "Civil Engineering From the Stone Age to the Moon."

At the beginning of World War II, he was in the Pacific supervising the construction of a chain of air bases engineered by his firm for ferrying aircraft to the Philippines and Australia. Commissioned a colonel in the Corps of Engineers in 1942, he served continuously in the Southwest Pacific Area until the end of 1945, returning to the United States with the rank of major general. During the Leyte and Luzon invasions of the Philippines he was Acting Chief Engineer to Gen. Douglas MacArthur's command, and later become Commanding General of the Engineer Construction Command in the Southwest Pacific.

This will be a dinner meeting starting at 7:00 p.m. June 13 in the Southern Cafeteria in the HIC Building. Reservations will be accepted by Walter Kennedy 876-

Mrs. Myra Cox and Mrs. Ruth Martinus in the social room of the Post Chapel after the ceremony.

SODALITY MEETING SCHEDULED

The Redstone Catholic Women's Sodality will attend the 9 a.m. Mass June 7 and hold a meeting in the social room at the Post Chapel immediately afterwards.

This will be the first meeting at which the new officers will preside.

The Rocket Nursery is available to all who make reservations a day in advance at the expense of the Sodality.

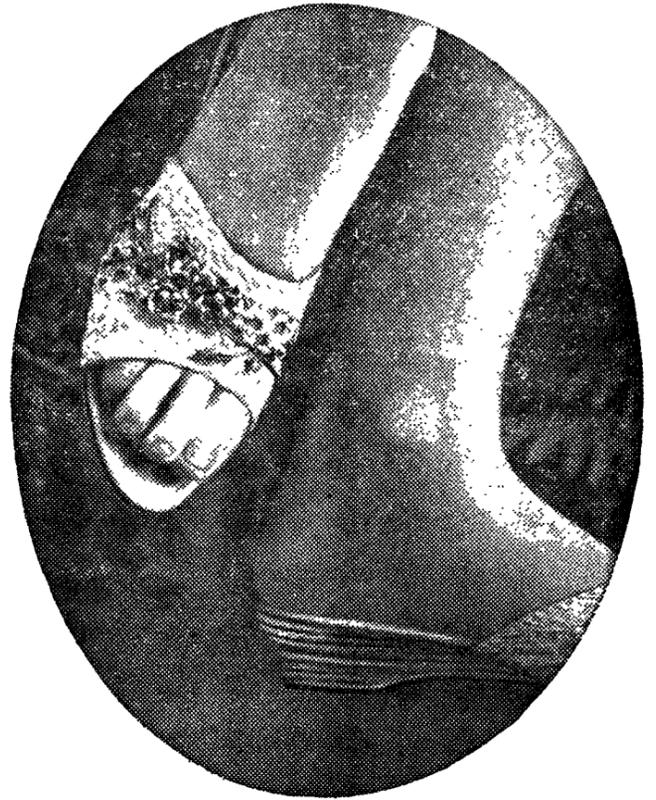
MEETING SCHEDULED

The Huntsville Chapter of the American Institute of Industrial Engineers will meet June 10, at the Sahara Motel for its June meeting, which will be "Ladies Night."

Dr. Ernest Dichter, who is the Director of the Institute for Motivational Research, will address the meeting. His subject will be "Motivational Research." Dr. Dichter's Institute has completed more than 1800 studies for clients in almost every area of manufacturing, advertising and selling, and Dr. Dichter is recognized in this country and abroad as the leading exponent and practitioner of motivational research.

Social hour begins at 6 o'clock with dinner at 7 o'clock and the program at 7:45.

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Redstone Entertainers Bring Home First Prize

Redstone Arsenal's contenders in the Third Army Entertainment Contest—the first step toward the All-Army competition at Ft. Lee, Va.—came home with more points than the winner of the large installation section — Ft. Benning, Ga.

Redstone's score: 90; Ft. Benning's: 85.

PFC Art Kalin, whose Army duty is running the Entertainment Section for the Special Services Service Club, took first place with a medley from The Student Prince in the classical vocalist solo section among installations with less than 10,000 soldiers.

SFC Robert M. Henderson, from the New Missile and Literature Branch at the Ordnance Guided Missile School, took first place among the pop singers. He usual-

ly does his own piano accompaniment. His song "Foggy Day In London Town."

PFC Harry O. Wells from the School's Personnel Division was outpointed by a WAC from Ft. McClellan to score second place with his violin in the instrumental soloist category with Handel's "Sonata in D Minor."

The vocal trio known as the King's Men sang "Talk to the Trees" and "Mariah" to bring home to Redstone first place in vocal group category. Members of the trio are PFC Kalin, SP5 George Maillet and PFC Jeffrey Tucker. Millet is assigned at the Redstone Arsenal Army Air Strip and PFC Tucker to the Post Engineer.

Col. Thomas W. Cooke, Commander of the Army Support Command and the Post Commander, was presented the Third Army Entertainment trophy at a Service Club ceremony for which Capt. Paul Boyer, Special Service Officer, and Lt. Col. Carl H. Hansen, Assistant for Personnel and Administration at the Support Command, were present.

Miss Molly Patterson, Service Club Director, went to Ft. McPherson as coordinator for the Redstone Arsenal representatives. She was also a timekeeper for the contestants, and was asked to represent Third Army at the All-Army contest.

At the Service Club

By: Brenda Hanson

For the first time in Third Army history Redstone Arsenal won the Command Trophy for the Third-Army Entertainment Contest.

These men are representing Third-Army in the All-Army contest at Fort Lee, Va., June 1 through June 29. After the contest, they will be on tour until August.

The winners were given wrist watches, movie cameras, and electric razors as prizes.

The next thing scheduled is dance classes. In case you are not an accomplished dancer, however, Wednesday evening at 7 p.m. is the time to start changing that state of affairs by attending the dance instructions class. An experienced instructor will take you through the rudiments of the modern dances and before you know it all feelings of lethargy will have been dissipated and you will be putting Arthur Murray to shame.

Entertainment with a capitol E is sure to be an end product Thursday evening. Favorite games are programmed in the game room at 7:30 p.m.

How are you at shuffleboard? Care to prove your adroitness at this game? Or maybe you would like to watch a fast game Friday evening at 8 p.m. A Shuffleboard Contest will be held and prize will be awarded.

Saturday evening the spotlight turns to Outside Games including Badminton, Croquet, and Deck Shuffleboard at 5:30 p.m.

Sunday morning Coffee Call is presented here at the Club at 9 a.m. There will be coffee and donuts for the late risers and a background of fanciful melodies to brighten the day. Its here for you, enjoy it.

Then, at 8 p.m., the opening note of the latest records will start the Sunday night record hop. The Huntsville lassies and the Birmingham Bells will be present to enjoy the dance with you.

Monday, June 10, at 8 p.m. many new prizes that have been obtained for the sole purpose of giving them away, will start to find their way to their new owners when Monday Night Games fill the Main Lounge. The prizes that are to be given away should meet with the approval of all the male participants.

The evening of the 11th of June should prove to be a gay one here at the Club. On the agenda for 8 p.m., is an Ice Cream Party. Don't miss it. We may need some help in cranking the



OUTSTANDING PATROL BOY—Michael Krembs, 12, a student at Madison Pike Elementary School, is congratulated on his achievement of Outstanding Patrol Boy in the City of Huntsville for the school year 1962-63. Official congratulations are extended by Huntsville police Sgt. John E. Helton, left. Michael's father, Army CWO E. M. Krembs, of the Sergeant Project Office of the Army Missile Command looks on second from left. Right is school principal L. J. Morris. Michael was selected as the Outstanding Patrol Boy from about 400 schoolboys in Huntsville. The safety program is sponsored by the Huntsville Kiwanis Club. The Krembs reside at 269-B, Wesson Circle, Redstone, Arsenal.

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freezers. **Miscellaneous**
All-right, all you Liberace, Comos, Durantees, here's your chance to show your talent. Every Sunday evening at 4 p.m., a Jam Session takes over in the Main Lounge. If you sing, play any kind of musical instrument, come down, make yourself known and enjoy the session with us.
Winner of the recent held Pool Contest here at the Service Club was won again by PFC Al Osborn of Co. A. As I looked back through my records, I find that Al has won every pool contest for the past three months. PFC Willie Green of Hq & Hq UTC was runner up. Congratulations to you both.
Until then, see ye at the Service Club.
—Brenda

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Project Shakedown Group To Hold Conference Here

The Army Missile Command will welcome a delegation from the Defense Supply Agency Project Shakedown Steering Committee who will arrive at the Arsenal for a two-day orientation tomorrow, relative to local application of the Department of Army-wide project.

The three-man delegation, headed by Robert Booth, Chairman of the Steering Committee, will meet with Maj. Gen. F. J. McMorrow, Commanding General of the Army Missile Command, and Mr. A. A. Stewart, Deputy Director of Supply and Maintenance Directorate, prior to opening their review.

Project Shakedown is a joint military service, (Army, Navy, Air Force) performing a technical review and analysis of each item of supply in specific federal supply classes.

The Army Missile Command is the host activity for Federal Supply classes 1420, (Guided missile components), and 1430, (Guided missile remote control systems).

The project was initiated for the specific purpose of reducing the number of items in the federal supply system through disclosure of duplication and identification of items interchangeable.

The project was initiated in 1961 at the request of the Aeronautical Development Group and was service tested by the San Antonio Air Material Area at Kelly Air Force Base, Texas.

The Command Project Shakedown Control Office is a component of the Directorate of Supply and Maintenance. Headed by C. E. (Gus) Apostolakis, the office is composed of representatives of the Army, Navy, Air Force and Marine Corps, assigned to the Missile

Births at Post Hospital

- Nathaniel Singleton, 7 lbs., 14 1/2 ozs., May 16, son of Mr. and Mrs. Joseph Singleton.
- Susan Alison Kreisher, 7 lbs., 11 1/2 ozs., May 19, daughter of Mr. and Mrs. Robert B. Kreisher.
- Wendy Sue Townley, 7 lbs., 1 3/4 ozs., May 20, daughter of Mr. and Mrs. Robert R. Townley.
- Jeffrey Alan Spivey, 6 lbs., 2 ozs., May 20, son of Mr. and Mrs. John H. Spivey.
- Raymond Sumrall, 6 lbs., 9 3/4 ozs., May 22, son of Mr. and Mrs. Lawrence R. Sumrall.
- Robert Clenton Bell, 7 lbs., 8 ozs., May 25, son of Mr. and Mrs. Robert K. Bell.
- William Lewis Ewing, 8 lbs., 11 ozs., May 25, son of Mr. and Mrs. David L. Ewing.
- Christi Ann Holaway, 6 lbs., May 26, daughter of Mr. and Mrs. Harvey D. Holaway.
- James Anthony Donahue, 6 lbs., 9 1/2 ozs., May 27, son of Mr. and Mrs. Denis P. Donahue.

Cub Scouts Hold Picnic

Cub Scout Pack 308 climaxed its spring season with a conventional Pack meeting and picnic in the Redstone Arsenal recreational area on Wednesday, May 29. The following boys received awards: David Geehan, Robert Krembs, Martin Pearson, Donald Burnett, John Green, Merrick Burleson, Phillip Burleson, Ivan Cancel, Kevin Sullivan, Chip Drewry, Robert Van Wert, Wil-

liam Ferrell.

Picnic arrangements were handled by Maj. Martin Pearson, USMC, assisted by Paek Fathers.

New officers for Pack 308 are: Col. William J. Newman, Committee Chairman and Lt. Carl D. Carey, Cub Master.

The following ladies served as Den Mothers for Pack 308: Mrs. Michael Dooley, Mrs. Philip Burleson, Mrs. Robert Gruen, Mrs. Ivey Drewry.

The retiring Committee Chairman, Lt. Col. Bernard T. Geehan, who is leaving for Thailand, was presented a plaque by Col. Richard P. Davidson, representing the Post Command.



SUMMER QUARTER

JUNE 10-AUGUST 29, 1963
CLASSES BEGIN: JUNE 12

Placement Tests:
June 10 & 14: Math-6:00;
English-7:00 p.m.

8:00 - 10:05 a.m.	10:10 a.m. - 12:15 p.m.	1:00 - 3:05 p.m.
ACC 1 Principles of Accounting - None 3	CL 22 Greek and Roman Mythology - None 2	EH 1 English Composition - See footnote 3
HY 1 History of Western Civilization - None 3	FR 1 Elementary French - None 3	BIO 1 General Biology (Plant) (Lab. Thurs. 1-5) - None 4
MA 9 College Algebra - See footnote 3	Art Work Shop (Wed. only 9-12) - None NC	

EVENING CLASSES ON MONDAY AND WEDNESDAY

First Period (5:50-7:55 p.m.)

COURSE TITLE - PREREQUISITE	SEM. HRS. CR.
ACC 2 Principles of Accounting - ACC 1	3
CH 1 General Chemistry (Lab. Fri. 6-10) - MA 9	4
EC 1 American Economic History - None	3
EE 133 Electric Circuits II - EE 54, 56, & MA 51	3
EH 1 English Composition - See footnote	3
EH 2 English Composition - EH 1	3
EH 5 English Literature - EH 2	3
GR 10 Scientific German - GR 9	3
HY 2 History of Western Civilization - None	3
IE 54 Engineering Organization - EC 11	3
MA 01 High School Algebra - None	NC
MA 9 College Algebra - See footnote	3
MA 11 Introductory College Mathematics - See footnote	3
MA 98 Introduction to the Theory of Differential Equations - MA 91	3
MA 233 Differential Geometry - 17 Hrs. of Math. and Graduate Standing	3
MA 292 Seminar-Topics In Applied Mathematics (Tensor Analysis) - MA 127, Consent of Instr. and Graduate Standing	3
MH 56 Dynamics - MH 55, MA 51	3
MH 393 Seminar-Selected Topics In Advanced Mechanics (Applications of Analytic Functions and Singular Integrals In Plane Elasticity) - Equivalent of MH 265 and GES 221, or Consent of Instructor, and Graduate Standing	3

PH 5c Technical Physics (Mechanics) (Lab Thurs. 5-8) - MA 25 or parallel; recommended parallel MA 49a	3
PH 6c Technical Physics (Heat, Light, Sound) (Lab Tues. 5-8) - PH 5c	3

Second Period (8:00-10:05 p.m.)

ACC 3 Accounting Analysis - ACC 2	3
DR 5 Fundamentals of Mechanical Drawing (Lab: Fri. 6-10) - None	2
DR 11 Engineering Drawing (Lab: Fri. 6-10) - MA 9 or previous instruction in Mechanical Drawing	2
EC 11 Principles of Economics - None	3
EH 03 Fundamentals of English - None	NC
EH 1 English Composition - See footnote	3
EH 3 Advanced English Composition - See footnote	3
EH 41 English Composition for Engineers - See footnote	3
GR 2 Elementary German - GR 1	3
HY 49 Current World History - None	3
MA 15 Trigonometry - MA 9 or MA 11	3
MA 25 Analytic Geometry and Calculus - MA 15; MA 11 recommended	3
MA 49a Calculus and Analytic Geometry - MA 25	3
PH 73 Introduction to Nuclear Physics - 8 hrs. of PH	3
POL SC 1 Principles of American Government - None	3
PSY 7 Psychology of Adjustment - PSY 1 or 3	3

FOOTNOTE: Students are placed in appropriate sections of beginning English and Mathematics depending on score made on placement tests.

Graduate Courses Are Listed In Bold Face Type

HUNTSVILLE CENTER

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Registration: June 10-11 — 12:00-8:00 p.m.

— Schedule of Classes —

DAY CLASSES ON MONDAY AND WEDNESDAY

EVENING CLASSES ON TUESDAY AND THURSDAY

First Period (5:50-7:55 p.m.)

COURSE TITLE - PREREQUISITE	SEM. HRS. CR.
ACC 1 Principles of Accounting - None	3
ART 11a. b: 12a. b Drawing I (Tues. only 6-10) - None	1 1/2
DCF 2 Digital Computer Fundamentals 1 or Perm. of Instr. (Tues. only 6-10)	NC
EH 2 English Composition - EH 1	3
EH 6 English Literature - EH 5	3
FR 3 Intermediate French - FR 2	3
GR 1 Elementary German - None	3
HY 74 Foreign Relations of the U. S. Since 1898 - 9 Hrs. of HY or Senior Standing	3
MA 02 Plane Geometry - None	NC
MA 9 College Algebra - see footnote	3
MA 15 Trigonometry - MA 9 or MA 11	3
MA 51 Calculus - MA 49b	4
MA 123 Series & Special Functions - MA 53 or MA 98	3
ME 95 Thermodynamics I - PH 5c, MA 51	3
MH 375 Theory of Elastic Stability - MA 53 and Graduate Standing	3
PH 7c Technical Physics (Electricity & Magnetism) (Lab Mon. 5-8) - PH 5c or 6c	4
PH 104 Modern Physics I - PH 103	3
PSY 1 Introduction to Psychology - None	3

Second Period (8:00-10:05 p.m.)

ACC 53 Intermediate Accounting - ACC 3	3
BIO 2 General Biology (Animal) (Lab: Fri. 6-10) - None	4
EC 12 Principles of Economics - EC 11	3
EE 54 Electric Circuits 1 - EE 51 and MA 51	3
EH 1 English Composition - See footnote	3
EH 66 Shakespeare - 9 hrs. of EH	3
FR 4 Intermediate French - FR 3	3
GES 77 Nature and Properties of Materials -- CH 2, PH 7c, and MA 49	3
GR 4 Intermediate German - GR 3	3
HY 22 The United States since 1865 - None	3
MA 49b Calculus and Analytic Geometry - MA 49a	2
MA 73 Theory of Equations - MA 51	3
MH 55 Statics - MA 49, PH 5c, Pre or parallel MA 51	3
PH 85 Intermediate Electricity and Magnetism - 8 hrs. of PH, and MA 51	3
PSY 52 Developmental Psychology - 9 hrs. of PSY	3
SOC 1 Introduction to Sociology - None	3

FOOTNOTE: Students are placed in appropriate sections of beginning English and Mathematics depending on score made on placement tests.

TO 1963 HIGH SCHOOL GRADUATES:

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tee. \$2695.00

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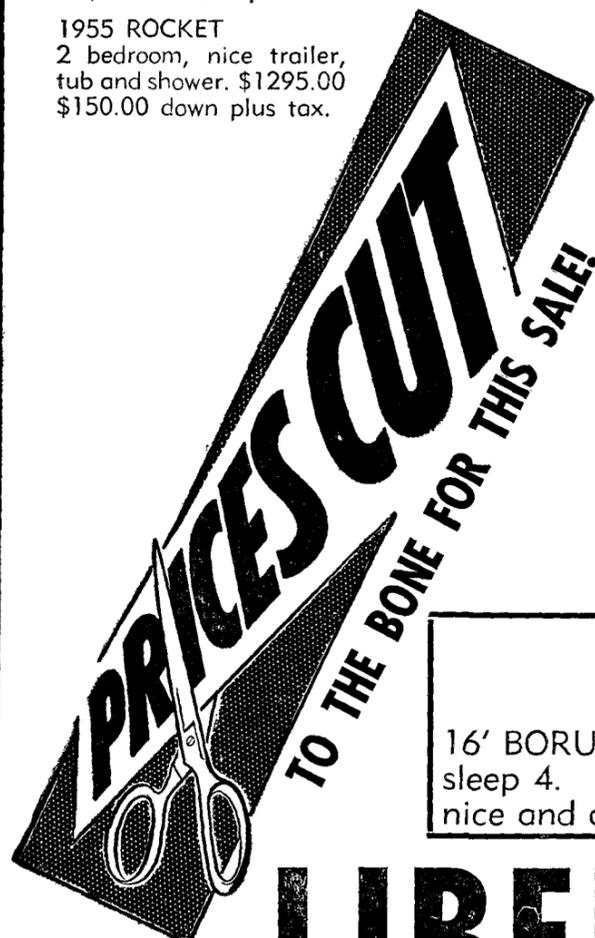
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Continuing Zeus Tests Intercept 'On The Nose'

The Army's Nike Zeus anti-missile system successfully intercepted another re-entry target vehicle launched by a Titan I intercontinental ballistic missile recently in another of a series of continuing development tests, the Department of Defense announced last week.

The Nike Zeus missile was fired and controlled from the Army test installation, at the Pacific Missile Range facility, Kwajalein Island in the Southwest Pacific.

The Army said ground tracking equipment indicated the target vehicle was within the lethal radius of the Zeus missile's operational warhead.

Neither the intercepting missile nor the target vehicle carried a nuclear warhead.

The target vehicle was boosted to ICBM velocity on a 5,000 mile trajectory from Vandenburg Air Force Base, Calif., using a Titan I ICBM booster fired as a training exercise by a crew of the Strategic Air Command.

A number of Nike Zeus missiles have been fired to date as a part of the Nike Zeus development program. In addition to test firings against test targets and simulated targets (fed into the Zeus system's target intercept computer from tapes), other firings have been conducted to verify missile structure and to test operations of the system's ground complex.

These tests have been conducted over the past four years from firing sites at White Sands Missile Range, N.M.; at Pt. Mugu, Calif., and at Kwajalein Island in the Pacific. Of tests conducted thus far, one half have been completely successful and an additional 25 per cent were partially successful in

meeting test objectives.

The capability of intercepting single ICBMs under research and development conditions is a valuable contribution to our understanding of the basic factors involved in problems in this field. The tests do not represent an of-

fense-defense contest, but from the performance of components of the Nike Zeus system and the behavior of re-entry bodies, a better estimate will be possible following the test series of the capabilities of the Nike Zeus system.

The broad general purpose of this test program is to gather data by the testing of various components. Information from test results can be used directly to predict overall system performance under various attack conditions.

Knowledge gained in the continuing series of Nike Zeus intercept tests at Kwajalein will be of benefit to the Army in the development of the Nike X anti-missile

missile system, an advanced version of Nike Zeus.

Testing of the Nike Zeus system using ICBM-launched target vehicles will continue on the Pacific Missile Range.

Col. I. O. Drewry, Nike Zeus project manager, and his staff direct both the Nike Zeus and Nike X programs for the Army Materiel Command.

The Western Electric Company is prime contractor. Bell Telephone Laboratories has responsibility for system design and development. Douglas Aircraft Company builds the Nike Zeus missile.

April 24, 1814 — British force under General Ross and Admiral Cockburn defeated an unorganized force of militia at Bladensburg, Maryland, and then advanced without resistance upon Washington where they ordered their men to burn the public buildings. Fires were lighted in Capitol, White House and other structures.

During disasters, such as hurricanes and floods, millions of dollars in cash have been lost forever. Family assets in the form of Savings Bonds, however, are always protected since the Treasury replaces lost bonds without charge.

Gudzent To Represent Missile Command At Army Mathematics Meet

Redstone Arsenal, Ala.—A physics expert will represent the Army Missile Command's Directorate of Research and Development at the Ninth Conference of Army Mathematicians, June 5-6 at Watervliet Arsenal, New York.

Dietrich E. Gudzent, a supervisory aero-space engineer from the Structures and Mechanics Laboratory, will present a paper entitled "The Propagation of Shock Waves Through Soil-Analytical Methods and Problems."

Gudzent described the paper as a survey of studies made in connection with underground explosions. The studies should prove valuable in overcoming problems caused by underground explosions in several different fields, Gudzent said.

The scientist received his MA degree in physics from the University of Berlin in 1952.

He now lives at 1809 Woodward Drive, Huntsville, with his wife, Jutta.

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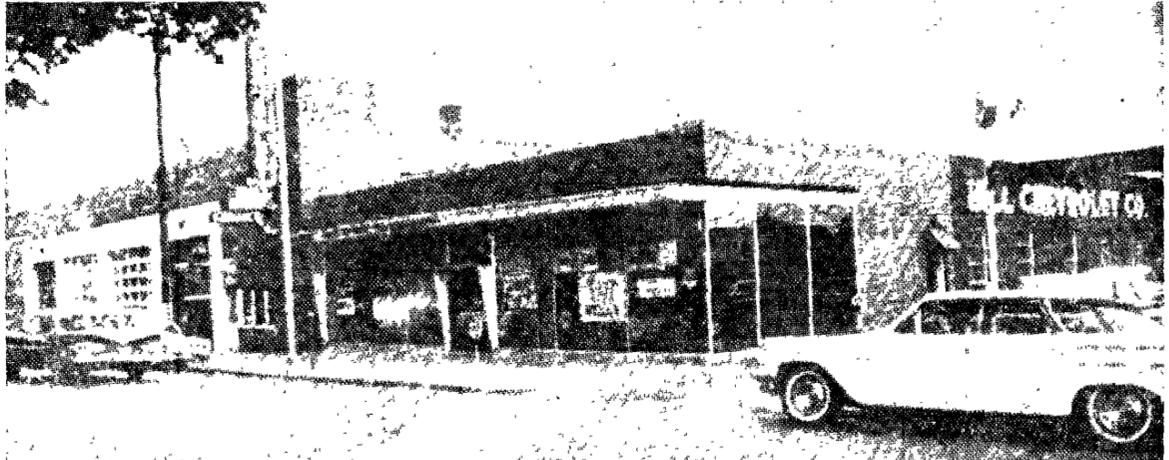
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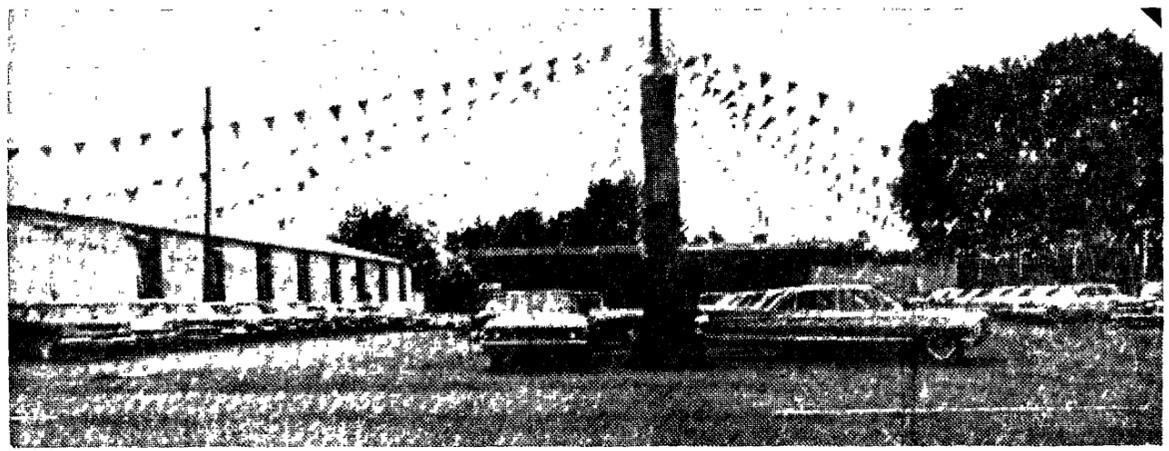
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Lonnie Binford Willard Carter
Ronnie Bright Gary Clark
Marlon Douglas James Maddox
R. Drummond Milton Mason
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H. W. Lones Thomas White
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Today, the firm lists 125 persons, with combined experience of over 1000 years, on its payroll and many have been in their employ twenty years. Their yearly payroll is over \$500,000.00.

In the meantime Chevrolet Motor Division has built 50 million cars, and HILL has sold some 50,000 units.

HILL'S holdings include two new car showrooms, two service departments, separate body department, three used car lots, separate building for reconditioning and delivery, a large parts department, and eleven offices.

A. W. Hill Sr. and A. W. Hill Jr., owners, do not confine their activities to the business of selling cars, but play a major role in the community's civic affairs. Our department heads are civic-minded, and belong to either Rotary, Kiwanis, Acme, Civitan, Salesman's Club or Pilot Club and many of our organization are active in church and civic enterprises.

A. W. Hill Sr. is a past president of the Kiwanis Club, past president of the Local Dealers' Association, of which he was one of the organizers, director of State Dealers' Association, of which he was one of the organizers, and was an original member of the first Expansion Committee, director several years in the Chamber of Commerce, director of the YMCA and many other local civic promotions, also served on Dealers' Council in Detroit. At present, he is a Trustee of District No. 1 T. B. Sanatorium, and Director in First National Bank.

A. W. Hill Jr., a partner in the firm, entered the Air Force, after graduating from Washington and Lee University in 1941. He served as a fighter pilot in European theatre, making 70 combat missions, and after the war was over, he became active in the business. He has served as Chairman of Red Cross Drive, a director in the United Givers Fund, president of the Acme Club, president of Kiwanis Club. He helped organize a Boys' Club, and is a director. He is a past director in the Country Club. At present, he is a colonel in the Air Force Reserve, and Commander of Air Force Recovery Group of Alabama, part of Florida and Mississippi, with headquarters in Birmingham. He is a director of Huntsville Expansion Committee and Chamber of Commerce, director of Huntsville Dealers' Association, and past director of Alabama Dealers' Association. Also, served on Chevrolet Dealers Council, and U. S. Chamber of Commerce Committee on Public Relations. His present assignment is General Chairman for raising \$750,000.00 for an expansion of the YMCA to keep it abreast of Huntsville's fantastic growth, and to build facilities to accommodate the many thousands of girls and boys for character building in a planned recreation program under Christian leadership.

HILL CHEVROLET'S past has been very eventful but now they are looking to the future with optimism in the growth of Huntsville and all business in this area.

They hope to merit your continued confidence and patronage and your satisfaction with every purchase shall be their goal.

— BODY SHOP —

Ollie Wallace, Body Dept. Mgr.
Homer Lewter, Asst. Dept. Mgr.
James E. Jenkins David L. Perkins
James D. Miller James E. Honey
Estil Lemay Larry Lewter
E. L. McSpadden

Robert Frazier,
New Car Air Conditioning Specialist

William C. Bitting,
Owner Relations Manager

— PARTS DEPARTMENT —

J. Richard Lee, Jr., Gen. Parts Mgr.
Ervine L. Clayton, Asst. Parts Mgr.
David L. Phillips, Asst. Parts Mgr.
Mark Aders Leabert Carter
John Ira Marks Dwight Peoples
Edwin Page Wm. L. Woods
Theo Carter Frank Atchley
T. R. Robinson M. H. Elledge

HILL CHEVROLET COMPANY ANNOUNCES . . . NOW, AN EXTRA SERVICE FOR YOUR CONVENIENCE, NIGHT SERVICE HAS BEEN INAUGURATED IN ITS MAIN SHOP FOR TRUCK OWNERS, AND OTHERS WHO CANNOT SPARE THEIR CARS IN THE DAY TIME. CALL IF YOU DESIRE FOR A RESERVATION ANY NIGHT DURING THE WEEK, MONDAY THRU FRIDAY.

HILL CHEVROLET COMPANY HAS THREE WRECKERS ON DUTY AT ALL TIMES TO SERVE YOU DURING ANY EMERGENCY.

Visit Hill Chevrolet Company Today For Bigger And Better Deals

READ THE WANT ADS! USE THE WANT ADS!

WANT AD RATES—\$1.50 minimum, per weekly insertion, covering first 25 words. 4 cents per word for all over 25 words. Cash with copy, except where open account basis is previously established. 25c service charge added for credit. Mail copy with payment to Mrs. Zillah T. Heath, P. O. Box 346, Room 217 Times Bldg., Huntsville. Deadline is Friday noon, before Wednesday publication.

Page 14 The Redstone Rocket — June 5, 1963

1. For Rent

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

LARGE PRIVATE TRAILER LOT FOR RENT, convenient to Gates 2 & 3 on U.S. 231 South. Couple with good manners only. Not a trailer court, no flood waters, \$25.00 per month. Phone 539-3745. tfc

FOR RENT—3 and 1/2 bedroom house best southeast section, newly redecorated, cool, clean, quiet, no small children. Phone 831-0702. tfc

2. Cars For Sale

1963 VOLKSWAGEN — Still in warranty, gray sunroof with w.w. tires, priced at \$375.00 down and \$51.00 per month. Insurance included. Phone 881-1196 after 6 p.m. tfc

1957 PONTIAC STAR CHEF, 2 door hardtop, new tires, all power, excellent condition, \$795.00. Phone 831-4275. tfc

1954 CHEVROLET—Radio, heater, 6 cyl., std. transmission. A good buy. \$330.00. Phone 536-5620. tfc

"CITRON"—We have a D. S. 19. The best one 1960. Extra nice low mileage only one in town for sale. Hurry! Call 536-6121. tfc

1954 CHEVROLET, 4 door, good work car, first \$295.00 takes it. Phone 539-5433. tfc

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

FOR SALE — 1 Chevrolet, 407 engine, completely rebuilt to hottest factory specifications, never run, \$600.00. Call Jack Harden, 534-8601 or 539-6624. tfc

WANTED TO BUY clean used cars. "We can use yours." Call us. ROBINSON AUTO SALES, 733 Madison St., Phone 539-8551. tfc

CAMPING & FISHING EQUIPMENT

- Hip Boots
- Sleeping Bags
- Rods & Reels

ARMY-NAVY SURPLUS CO.
112 S. SIDE SQUARE
Phone 534-6991
Open All Day Wednesday and 'Til Late Thursday Night

Governor's Drive Barber Shop
2901 Governors Drive
Between Butler High and Parkway
Flat Top Specialists
OPEN 8 TO 8 . . . 6 DAYS A WEEK
Your Patronage Appreciated

BUTLER'S NEW and USED FURNITURE
American — Antiques — Import
1006 W. Market St. — Athens, Alabama
One of North Alabama's Largest Furniture Stores
ACROSS FROM FAIRGROUND GATES
Dial Athens 232-3940

COMMERCIAL BUILDINGS AND . . . LOTS FOR SALE! FOR DWELLINGS

We build houses on your lot . . . 100% financed by us or VA and FHA financing. Built by Bonded Builders.

For Colored People . . . F.H.A. and VA Financed
Edmonton Heights — Love Sub-division

C. F. STINNETT REAL ESTATE BROKER
918 MERIDIAN ST., NORTH PHONE 536-9901

1961 HARDTOP METROPOLITAN, 9500 actual miles, excellent condition, \$1125.00. Also almost new 18" hand lawnmower, \$15.00. Leaving for overseas. Must sell immediately. Phone 536-9783. tfc

VOLKSWAGEN OWNERS — Genuine parts available. All work done is aircraft quality by aircraft technicians. Satisfaction guaranteed. Dick Trulson Auto and Aircraft Repair, 612 W. College St., Fayetteville, Tennessee, phones 433-1294 or 433-1337. Call anytime. tfc

3. Miscellaneous

ALTERATIONS—If you have unworn clothes because they need altered or restyled call me for reliable and experienced work. MRS. ELKINS, 536-8026, S.W. Section. tfc

SOMETHING NEW on Guntersville Lake—The Ski Lodge at Honeycomb Boat Dock, free launching, concession and grill open, fishing boats, bait, gas and oil, picnic tables, picnic lunches. Sun, swim, boating and skiing for the whole family. 6-12c

LEARN TO SING BY MME. HEDY FIORY, former European opera singer. Instructor in voice and piano. Call 536-9020. tfc

BUSINESS OPPORTUNITY — Pleasant weekend investment to augment income. Small shop, gas & oil concession for lease during boating season. State experience, ability and present business and when available. Write to P. O. Box 473, Huntsville, Ala. tfc

BILL'S ALTERATION SHOP — 313 Franklin St., formerly 202 Eustis St. Alterations of all kinds. Mens, ladies, children, reweaving. Open 8 a.m. to 5:30 p.m. Open 'til 7 p.m. on Thursdays. 6-20c

USED TVs, \$20 and up. UHF converter, \$11.97. 21 inch 90 degrees picture tubes \$21 exchange (1 year guarantee on picture tubes). TV Rentals. RODEN'S TV SERVICE, Cor. Governors Drive & Parkway, Phone 536-9761. tfc

APARTMENT AFLOAT — 33' Chris-Craft Sedan Cruiser, sleeps 6. Twin 125 hp Chrysler engines, excellent condition, large stateroom, all extras, located Guntersville Lake. Owner transferred. Sacrifice price. Further information call Gadsden Liberty 6-1685 (or) Liberty 7-1105. tfc

VACUUM CLEANER REPAIR—Kirby belts, airway bags, hose for all makes. New and used cleaners. Free pick-up and delivery. Phone 539-2564. tfc

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

FOR HIRE—Back hoe with loader on rubber wheels with operator ditching tank holes, etc. Call C. R. MADISON, 772-6649. tfc

FAST—Expert mower repair, lowest repair charge in Huntsville. We also repair major or small appliances, home minimum service charge \$4.50. WALTER'S APPLIANCE & REPAIR SHOP. Phone 539-1141. tfc

LEARN Western Style Square Dancing Classes for beginners to start immediately. Adults only. Call Bob Roney, 534-6072 after 5 on weekdays or on weekends. tfc

FOR BARGAINS see us before you buy! Anderson Boat and Motor Sales, across from Shopping Center, Cullman, Ala., Phone 734-1354. World's No. 1 outboard motor—(Mercury). 14 different lines of boats. North Alabama's No. 1 volume dealer. Open 1 a.m. to 10 p.m. Sunday afternoon by appointment. tfc

FIT, FASHION AND FINE SAVINGS at BUS-ANN'S, downtown Huntsville. Truly your family shoe store. tfc

BOAT STORAGE FOR RENT—On Guntersville Lake, Snug Harbor Motel, Hwy 431, Honeycomb Boat Dock. Phone 536-3113 after 9 p.m. tfc

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

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

ATTENTION SERVICEMEN — Liability insurance 5-10-5, reasonable rates. Cash or terms, all military inc. "NATO", arranged for your convenience. Phone 539-8551. tfc

4. Mobile Homes

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

POST LIABILITY \$10 PER YEAR
Military - Any Age or Rank - Terms
Branner Insurance Agency
527 Madison Street
Open 'til 8 p.m.
Pho. 534-0146

WHEEL ALIGNMENT \$4.88
(With This Ad)
Reg. \$6.50 Value)
Fast Service - Expert Wheel Mechanic
All Work Fully Guaranteed
U. S. TIRE SERVICE
Across From Butler High
DIAL 539-3482
Open 7 a.m. to 6 p.m.

AUTO POST LIABILITY INSURANCE
\$5/10 Bodily Injury
\$5000 Property Damage
\$10.00 year
C. J. WAITE
INSURANCE AGENCY
518 Madison St.
PHONE 536-9641

GLEN PARK APARTMENTS
Completely furnished including air conditioning and TV outlet, lovely 2 bedroom, living room, kitchen and ceramic tile bath. Convenient to schools, churches and shopping.
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FRANCHISED OPPORTUNITY
A new concept in Violet Spray Auto Car Wash. Profitable franchise available in choice locations.
ART DEASON ASSOCIATES
PHONE 536-0775

SEE OUR FULL LINE OF Mobile Homes or we'll both lose money! We trade for anything! Easy terms. tfc

CALL US AND ASK ABOUT OUR LEASE purchase plan. Texas Auto & Mobile Home Sales, 536-6121. tfc

5. Houses, Lots - Sale

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

FOR SALE — Sarasota, Florida — 2 city lots, 2 bedroom house, garage, paneled dining room, fruit trees, near Bee Ridge Road and U.S. 41 and shopping center. Phone 881-2187, DON I. HERVIG. tfc

FOR SALE AT A BARGAIN—2 bedroom house, bath, large living room and kitchen. Closed in back porch, front porch. Hot water heater, automatic washer, air conditioner. One-half acre lot, garage and outbuilding. Located on Highway 67 west of Highway 36, two blocks of Post Office and Barber Shop. See Mrs. Neal Taylor, Rt. 2, Box 312, Somerville, Ala. or phone 773-7688. tfc

ALBERTVILLE-NELSON STREET. Brand new 3 bedroom brick with 2 full ceramic tile baths, paneled den, built-in oven and stove with birch cabinets in kitchen. Finished utility room. Price \$12,500. Pay \$500 and move in. Payments \$81.03 per month. Phone 878-3051. tfc

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

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. tfc

FOR SALE—3 bedroom house. Large living room, elec. kitchen with plenty of cabinets, dining room, ceramic tile bath, carpet and utility room. Separate out house. Redwood and white cut stone siding located on large lot. City sewerage paid. Call be seen in Falkville or by phoning John Murphy (Louis) at 784-2905 for more information and price, after 5:30 or on weekends. tfc

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

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

3 LOTS ON CLIFF ST. — 1 Block N. E. Huntsville Country Club, High View only \$3600.00. Terms to suit you. Call 534-6131. tfc

FOR SALE — New 5 bedroom house, 3 baths, wall to wall carpeting in living room and dining room, located in Tanner Heights, Hartselle, Ala., call Puckett, 539-0991 Huntsville or 773-8573 Hartselle. tfc

DIAL 539-4272
BEDS — FOR RENT or SALE
HOSPITAL - ROLL-A-WAY - BABY
Also Other Household Items
Ray's FURNITURE EXCHANGE
4850 Governor's Dr.

Lots For Sale — On Anderson Creek
BETTER THAN 4 ACRES — BRAND NEW WELL AND ELECTRIC PUMP ON SAME. READY FOR USE.
For Quick Sale \$1995.00
Call C. J. WAITE, 536-9641
or Come By Office at 518 Madison St., Huntsville

GUARANTEED CARS . . . AT LOWEST PRICES EVER . . .

1957 CHRYSLER New Yorker, power and factory air condition. \$795.00. \$150.00 down—\$42.50 mo.	1958 OLDS "88" 4-dr. hardtop, power steering & brakes. \$795.00. \$145.00 down—\$38.50 mo.
1959 MERCURY Beautiful solid white 2 door. A really good car. \$895.00. \$200.00 down—\$45.42 mo.	1957 CHEVROLET 2-dr. Bel Air, stick shift. \$695. \$135.00 down—\$38.80 mo.
1961 DODGE Clean, low mileage car. \$1295.00 \$200.00 down—\$61.50 mo.	1959 CHEVROLET 4-dr., 6 cyl., str. stick. \$995.00. \$175.00 down—\$47.50 mo.
1957 FORD Custom, clean. \$595.00. \$95.00 down—\$37.50 mo.	1958 VOLKSWAGEN Station Wagon, new tires, new rebuilt engine, good condition. \$195.00 down—\$48.40 mo.

— OPEN 8 A.M. TO 8 P.M. —

ROBINSON AUTO SALES
733 MADISON ST. DIAL 539-8551

MONEY

Just tell us how much you need to pay old bills, for home improvements, car repairs, for all your seasonal expenses! Phone before noon to arrange for your money the same day.

TAKE 24 MONTHS TO REPAY!

Cash You Receive	24 Monthly Payments	Cash You Receive	24 Monthly Payments
\$408.57	\$20	\$945.71	\$46
570.00	28	1117.13	54
650.71	32	1717.13	82

MUTUAL INDUSTRIAL FINANCE in Huntsville

106 South Side Square Phone: 536-8591
109 Holmes Ave., N.E. Phone: 534-0611
in Decatur
121 East Moulton St. EL 3-4413

Data Retrieval Engineering Increases Capabilities Here

The Army Data Retrieval Engineering System, pioneered by the Army Missile Command to aid missile engineers, now has new in-

creased capability. Approximately 6,000 documents, or a total of 60,000 pages of missile information, are being includ-



WHERE ARE YOU—Schools out, and guess where the barefoot boy with cheek, etc. is? He's out fishing that's where. But, our WHERE ARE YOU FANS have to guess where the fishing hole is. The Lad? He's Gary Harrison, son of Sgt. Buford Harrison, the Post Game warden. So, it's a cinch that Gary won't exceed the creel limit—if there is a creel limit on bullheads and perch. (See answer on Page 16)

ed in the system and should be fully absorbed within 90 days.

Col. E. V. Lau, Director of Procurement and Production, said, "The material now being micro-filmed for inclusion is equivalent to 10 standard size file drawers of written descriptive data. This information will be condensed within 28 film cartridges."

The ADRES is a streamlined method of identifying cataloged information concerning vendor sources, parts and design specifications and government approved decisions concerning this information.

The new additions will bring the total figure to more than 165,000 pieces of information in the ADRES at the fingertips of engineers at 45 Army Missile Command and contractor locations.

Each ADRES location has an index of subjects referring to color-coded cartridges inserted into a reader-printer, which has the appearance of a TV set. The operator locates his subject by rear-screen projection. If he needs a paper copy, a press of a button will deliver a reproduction in less than a minute.

Rapid access to parts drawings, specifications, purchase sources and government approved standards to the Army's missilemen who need them, is expected to save millions of tax dollars each year.

Charles Sneed, the ADRES project officer, with others in the Engineering and Documentation Branch developed the system's capability and selected the input of information. The Value Engineering Office conducted early feasibility studies and promoted the ADRES leading to its acceptance.

O. D. Lambers, Chief of Department of Defense and International Standards Office, said, "We use the ADRES for study of the military specifications and standards, affecting the Army Missile Command. In short, it will serve as a police force to enforce the use of available missile data proven to give the most performance for the least cost."

INDUSTRY SUPPORTS ARMY

Increasingly favorable response from American industry has been indicated in the time it has seen the U. S. Army Materiel Command in action since it was activated. Lt. Gen. Frank S. Besson, Jr., Commanding General, AMC, said recently.

"From the industry standpoint, all of the reactions I have received to date have supported the action we have taken.

"It gives them a focal point that they can go to so they can get authoritative decisions without waiting for the normal staff and command procedures which delay the immediacy of the decisions which they request."

REPRESENTING NEW YORK LIFE



G. W. (George) EILERS
M/Sgt., Ret.



W. H. (Bill) CLISSON
Lt. Col., Ret.

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250 Governors Drive, SE — Huntsville, Ala.

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4300 UNIVERSITY DRIVE

Huntsville's Best Address

- Large 2 and 3 Bedroom Units, Furnished and Unfurnished.
- Wall to Wall Carpeting Throughout
- Free TV Cable Service
- Beautiful Tile Baths with Matching Fixtures
- Conveniently Located Near Arsenal, Research Park and University Center
- Queen Sized Kitchens with Stove and Refrigerator
- Swimming Pool and Pavilion Area
- Abundant Closet and Storage Space

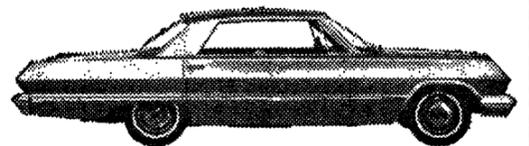
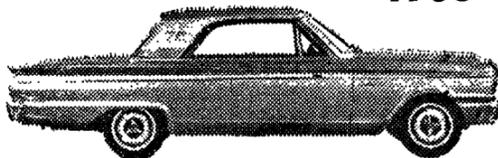
FIRST UNITS AVAILABLE IN JUNE!

CALL IDEAL APARTMENT RENTALS
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THRILLS — SPILLS — CHILLS

New Car Race

1963 MODELS



Huntsville Speedway

Friday June 7th

100 LAP FEATURE — 6 EVENTS

Admission \$3.00

Children Under 12 Free

INCENTIVE AWARDS

The following awards have been announced by the Incentive Awards Office.

Certificate of Achievement

Paul J. Moore, Supv Program Analyst, Asst for Communications.

Special Act or Service Award

Alfred W. Conder, Msl Quality Control Spec., Directorate of Proc & Prod; **William T. Moore, Jr.**, Meeh Engineer, HAWK Project Office; **Robert L. Smartt**, Auto Equip Operator, Transportation Division; **James E. Drake**, Supv Fire Fighter; **John M. Cotter**, Fire Fighter (General) and **Alvin W. Swaner**, Fire Fighter (General) all Post Engineer.

Outstanding Performance

Sustained Superior Performance
Reginald W. McLaney, Supv Msl Dev Control Engr, ZEUS Project Office; **John W. Kerr**, Supv Proc Analyst and **Charles C. Bevan**, Supv Proc Analyst, Directorate Proc & Prod; **Willie Lanier, Jr.**, Laborer, **Curtis Russell**, Truck Driver Foreman, and **George K. Thrasher**, Railroad Trackman Foreman, and **John L. York**, Insect & Rodent Controller, Post Engineer; **Signa C. Barksdale**, Clerk (Typing), Control Office; **Clarence M. Clayton**, Misc Material Inspector, Consolidated Supply Div; **Claudine C. Hetrick**, Clerk-Typist, Finance & Accounting.

Outstanding Performance

Clyde L. McElroy, Supv General Engineer, Directorate R&D; **Willdon C. Neely**, Supv Program Mgt Analyst, Assistant for Logistics; **William T. Wells**, Logistics Specialist, OGMS; **Thelmarine B. Dawson**, Administrative Assistant, Troop Command; **Loyd T. Worley**, Maintenance Foreman, and **William P. Smart**, Maint Lead Foreman, Post Engineer; **Elizabeth L. Esslinger**, Budget Analyst, Asst for Communications; **Robert E. Burns**, Program Specialist, Comptroller & Dir of Prog; **George Melochick**, Supv Education Specialist, and **Marjorie W. Deaton**, Secretary (Steno), OGMS.

Sustained Superior Performance

Norma M. Osborne, Clerk-Typist, HERCULES Project Office; **James V. Johnston**, Supv Aero Research Engr, and **Thomas G. Crow**, Physicist (Solid State), Directorate of R&D; **Arthur L. Green**, Guard, Provost Marshal Div; **Thomas M. Perdue**, Electronic Engineer, ZEUS Project Office; **Albert Albright, Jr.**, Blocker & Bracer Gen Fm, Consolidated Supply Div; **Mary H. Branum**, Film Assembler Stripper, and **Melvin L. Atchley**, Press Operator, Offset, Reproduction Division; **James T. Smith**, Supv Mgmt-Contract Spec., Directorate of R&D; **Paul Brown**, Procurement Clerk, Directorate Proc & Prod; **Leta M. Haskins**, Administrative Officer, General Counsel; **Franklin B. Dykes**, Office Services Manager, Adjutant Division; **Marjorie W. Deaton**, Secretary (Steno), OGMS.

Suggestions

James C. Smith, Army Missile Command, \$30 award—this suggestion resulted in one specific card color being used to make diazo film cards. This idea has intangible benefits in the minor-broad category.

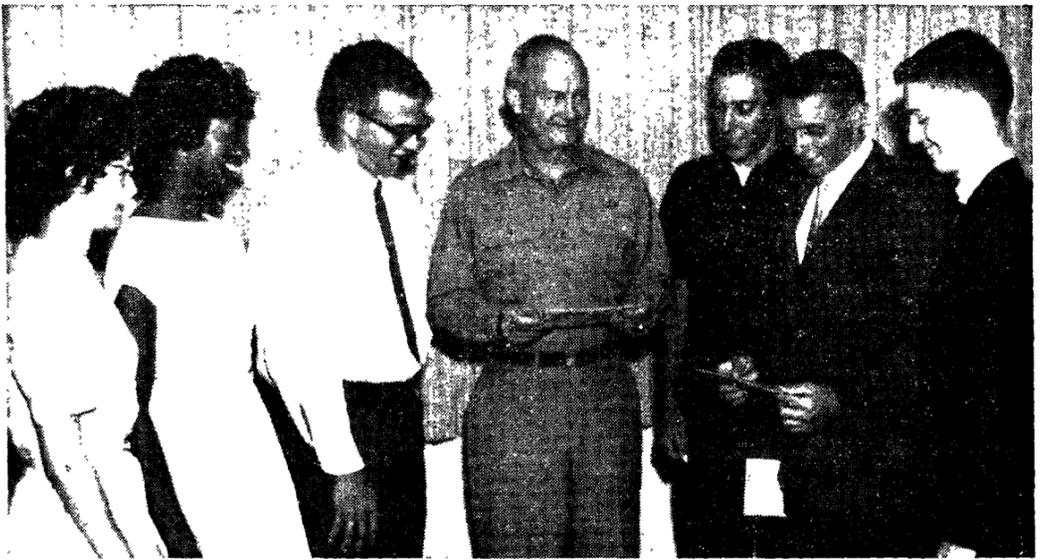
Charles Sidney Sapp, Army Missile Command, \$15 award—this suggestion resulted in a coarse hair floor mat being installed at the main entrance of building 5378 to improve safety and make cleaning of the building easier and quicker. This idea has intangible benefits in the minor-limited category.

Elizabeth L. Garrett, Army Missile Command, \$15 award—this suggestion resulted in a notation made in red on the Form 89 under the stock number indicating special attention is needed. The

idea has intangible benefits in the minor-limited category.

Charlotte M. Luker, Army Missile Command, \$15 award — this suggestion resulted in placing the maiden name of married employees on the Employee Clearance Sheet, AOMC Form 861, in order to help each office accurately check their files for clearance. The idea has intangible benefits in the minor-limited category.

Robert A. Haddox, Army Missile Command, \$15 award — this suggestion resulted in a "yield right-of-way" sign being placed on the left side of the west bound lane of Martin Road at the intersection of Rideout Road and a "stop" sign replacing a "yield" sign in the north bound lane of Rideout Road at the intersection of Martin Road. This idea has intangible benefits in the minor-limited category.



FELLOWSHIP AWARD WINNERS WELCOMED—Brig. Gen Howard P. Persons, Jr., Deputy Commanding General, Air Defense Systems, welcomes six high school graduates who are winners of fellowship awards to work this summer for the Army in scientific fields. Left to right are Cheryl A. Holmes, Huntsville High; Lillie M. Harden, Council Training High, Huntsville; John C. Hurgeton, Jr., Decatur High; Gen. Persons; Kenneth Roberts, Cotaco High; Gary W. Gross, Athens High; and Willard A. Collins, Marshall County High, at Guntersville. The pre-college students are being employed at the Army Missile Command under a program sponsored by the Armed Forces Communications and Electronics Association.

OUR LEADER...

DAD

Dad will be especially pleased with a gift from Dunnivant's—Huntsville's home of QUALITY since 1914! Choose from a fine selection of Men's Wear and personal accessories!

Washington at Clinton
downtown

ANSWER TO WHERE ARE YOU?

Gary is wetting a line on Hansen Road. By the way, for you sharp eyed folks who figured this couldn't possibly be a school's out photo, you're right. Why don't you have some fun with your friend and see how many of them caught the error.