

Arsenal-Wide

Spot News

Dial 112

The Redstone **Rocket**

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

JULY 22, 1964

Tests Get Underway On Unique Nike-X Radar

GEN. WICKHAM SUBSTITUTES AT CEREMONY

Maj. Gen. Kenneth G. Wickham, Commanding General of the Combat Service Support Group of the Combat Development Command, did double honors Tuesday during a visit to Redstone Arsenal.

Substituting for his boss, Lt. Gen. Dwight E. Beach, Commanding General of the CDC, Gen. Wickham addressed key Army military and civilian personnel of the Army Missile Command and Ordnance Guided Missile School at a morning briefing in the Rocket Auditorium. He outlined the overall missions, responsibilities and activities of the CDC and their relationship to the Missile Command and OGMS.

Following a luncheon with top military leaders at Redstone and a group of Huntsville civic leaders Gen. Wickham took part in a special ceremony preceding the move of the Missile Support Division of CDC into enlarged facilities near the Post Hospital.

The Missile Support Division is responsible for requirements, doctrine and organization of all Ordnance units which have a mission of supporting deployed missile systems. It works closely with OGMS which has the mission of training all Ordnance maintenance personnel on Army missile systems.

Visiting with Gen. Wickham was Col. Ralph M. McMahon, Commanding Officer of the CDC Ordnance Agency, Aberdeen Proving Ground, Md.

Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, welcomed Gen. Wickham to Redstone.

The CDC Missile Support Division at Redstone is under the Command of Lt. Col. Carl W. Hartman, acting chief, and is part of the CDC Ordnance Agency, Aberdeen Proving Ground, Md.

White Sands Intercept Is Success

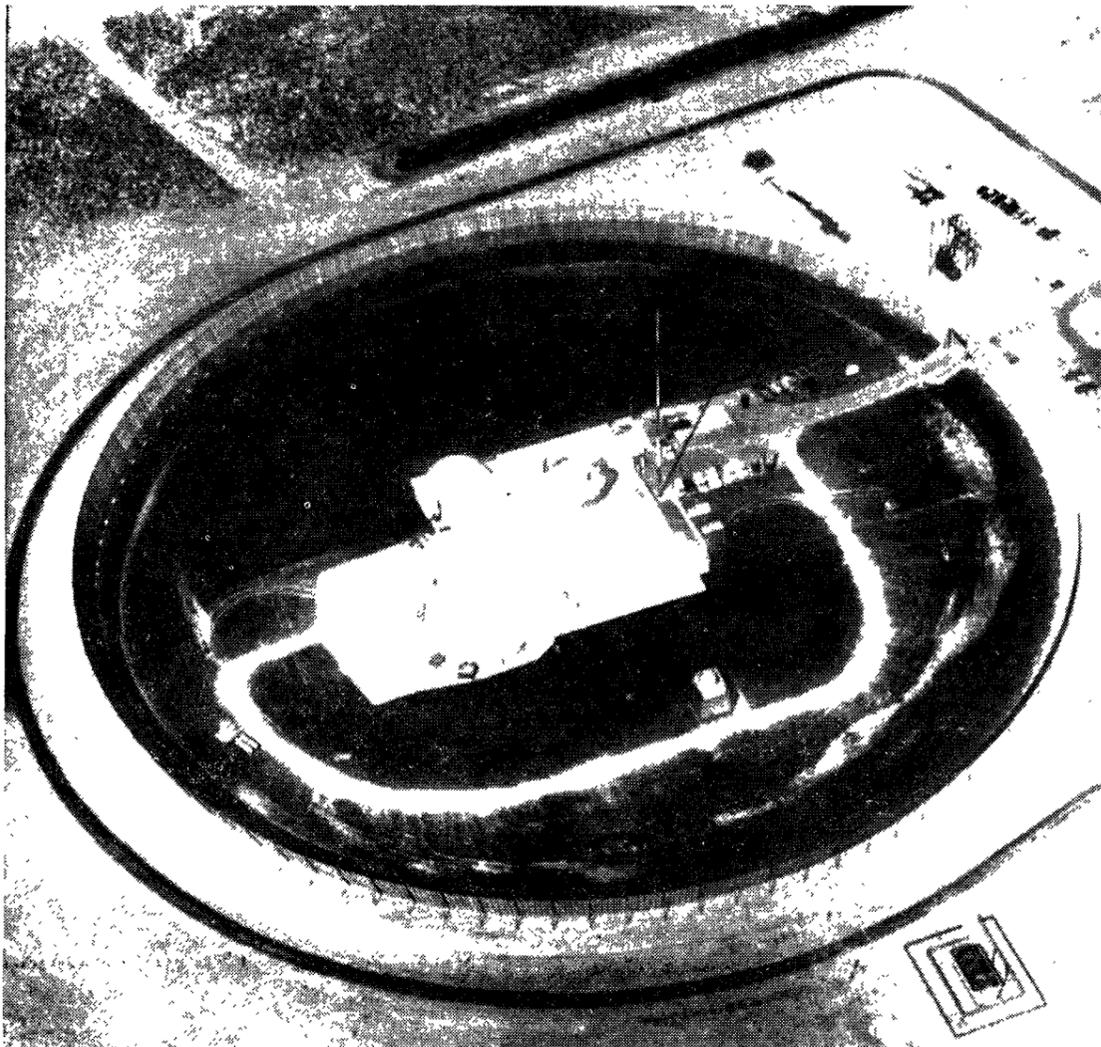
The Army announced a successful firing of an experimental missile at White Sands Missile Range.

The test involved the interception of a target at a relatively high altitude. Substantial test objectives were achieved. No further details were revealed.

The firing was a part of an advanced technology experiment on ballistic missile defense sponsored by the Department of Defense. This program is being conducted under the direction of the Advanced Research Projects Agency's Project ARPAT.

The first four letters of the project name are abbreviation of its sponsor's title (ARPA). The "T" in ARPAT stands for terminal. The Army Missile Command at Redstone Arsenal is managing the program for ARPA.

Prime contractor of the program is Raytheon Co. of Lexington, Mass. Hughes Aircraft Co. of El Segundo, Calif., and Aero Lab Development Co. of Pasadena, Calif., are principal subcontractors. (See INTERCEPT on Page 3)



MAR FROM ABOVE—The camera is looking nearly straight down on the first test version of the Nike-X System Multi-Function Array Radar at White Sands Missile Range, N.M. Temporary bubble-like protective domes cover portions of the radar where equipment has been installed. These inflated protective domes which do not interfere with the radar's operation are marked by air lock tunnels leading into them. A fence atop the MAR receiver dome surrounds a small conventional radar used for checkout purposes. A "clutter" fence encircling the MAR will cut down interference from radar signals reflected from the ground. The domes sit on top of a two story underground building housing electronic and mechanical equipment. (Other pictures on page 6).



CITATION FOR DEPARTING PROJECT MANAGER—Col. C. R. Graham was presented the Army Commendation Medal recently by Brig. Gen. Howard P. Persons, Jr., Army Missile Command's Deputy Commanding General for Air Defense Systems. The award was made prior to the former Hawk Project Manager's departure from Redstone Arsenal to assume his new assignment as Army Dean, Defense Weapons Systems Management Center, Wright-Patterson Air Force Base, Dayton, Ohio.

Three Radar Replaced By Phased Array

Since the first of July the Army has been operating the most unusual radar in the country at White Sands Missile Range, N. M.

As a part of the Nike-X anti-ICBM missile system, the device, a multi-function array radar (MAR), brings Nike-X closer to its goal as an effective defense against long range ballistic missiles.

Development of the MAR is being managed by the Nike-X Project Office at Redstone Arsenal.

The ultimate performance of Nike-X against ICBMs and against submarine launched missiles will depend largely on the operation and tests to be conducted with the MAR at White Sands.

MAR lumps together the function of three radars in one concrete and steel package. It has an acre and a half of floor space below ground and three giant concrete and steel domes thrust up into the air. The domes look as if they were made with a giant ice cream dipper—really two dippers since one dome is considerably larger than its smaller, equal sized brothers.

The sides of two of the domes are pierced with the radar's "eyes." These resemble the face of a round waffle iron studded with rod-shaped projections.

The projections are called radiating elements. From them, high powered electrical energy is beamed into space. Scientists have found that when energy is pumped from two or more of the radiating elements simultaneously strange things begin to happen to the radar beam.

The beam can be made to flick from side to side at nearly the speed of light and to stop and focus on a tiny point in space.

(See TESTS on Page 6)

Pershing Fired Successfully From Black Mesa

Federal Republic of Germany troops have successfully fired a Pershing missile from Black Mesa, near Blanding, Utah, into a predetermined impact area within White Sands Missile Range, N. M.

The more than 300 mile overland flight of the missile was constantly monitored by instrumentation and tracking equipment manned by White Sands personnel to gather performance data and as a safety measure.

The firings represented "graduation" tests of training which the Germans have received at Fort Sill, Okla. and Redstone Arsenal.

In the exercise, elements of the U. S. First Field Artillery Brigade from Fort Sill, Okla., provided administrative and logistic support.

The highly-mobile Pershing, a two-stage, solid-propellant ballistic missile with a range of 100 to 400 nautical miles, was developed for the Army by Martin Company's Orlando, Fla., Division. The 34 foot long missile, the artillery's most devastating weapon, was deployed last April to the U. S. Seventh Army in Europe where it is scheduled to replace the Redstone.

The Pershing program is managed by Col. E. I. Donley, Pershing Project Manager for the U. S. Army Missile Command.

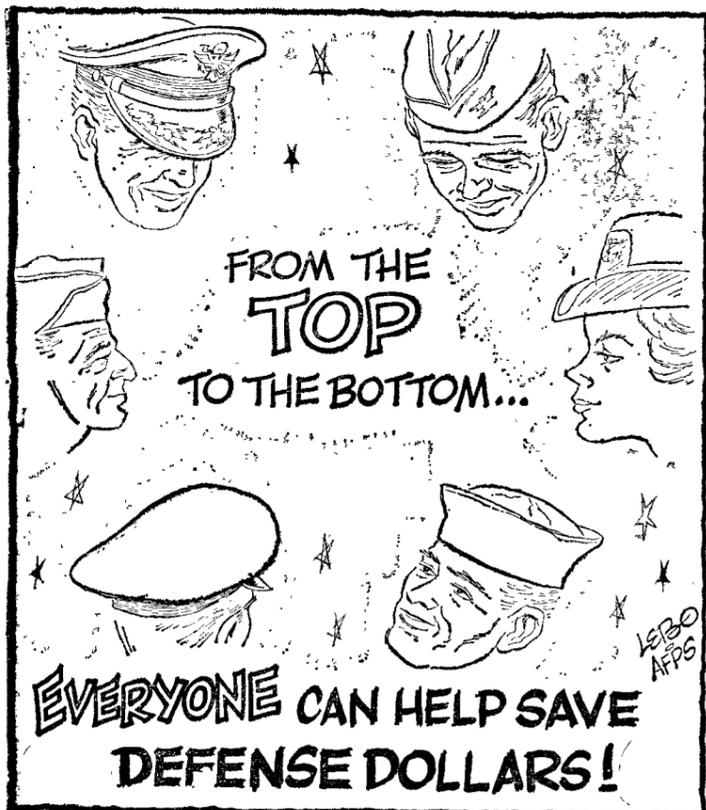
The Redstone Rocket

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Rocket Ruminations

I think that woman will be the last thing civilized by man.
—George Meredith



Making Cost Reduction Work

Recently Secretary of Defense Robert S. McNamara sent President Johnson a report describing how the Defense Department had saved \$2.5 billion during the past fiscal year through its cost reduction program. This figure is a cool billion dollars above the goal set at the beginning of the year.

A lot of this money was saved by top-echelon action—base closings, procurement policy changes, etc. These were the sweeping changes that sent the savings figures spinning upward by millions of dollars at a time.

But another good portion of that \$2.5 billion was saved by individual service men and women, down near the bottom of the heap in the DOD organizational structure.

They did it by becoming more cost-conscious as they went about their everyday jobs. They looked for ways they could eliminate wasted time, motion and material. They also offered suggestions to improve the way things were being done.

None of these actions or suggestions by themselves added up to any great amount of money. But when multiplied by the thousands of service men and women who accomplished them, they became a significant contribution toward the over-all program.

In fact, Secretary McNamara attributed much of the success of the program during FY 1964 to the fact that cost-consciousness "was beginning to permeate down." He said his office was "literally flooded" with suggestions.

The Secretary's report also forecast an annual savings of \$4.6 billion by 1968. This is a realistic goal. All it takes is for more of us to jump on the cost-consciousness bandwagon.

Take a good look around you. You might be able to spot some place in your activity where money can be saved.

While you're looking, it may help to keep this in mind: Every dollar you can save is a dollar "liberated" to go to work somewhere else in the Defense budget. It's going to make the nation's defense that much stronger; and it's going to make your job, as a member of the Defense establishment, that much easier to perform.

(AFPS)



BRITISH LOOK AT MAULER—Col B. R. Luczak (left), Mauler Project Manager, briefs British Nationals on the U. S. Army's new weapon system, now under development, during their recent visit to Redstone Arsenal. With Col. Luczak are, from left, Brig. L. W. Judd, Director of Munitions, Defense Research Staff of the British Embassy, Washington; Brig. Francis Grant, Director Guided Weapons, Ministry of Aviation; and Robert Marshall, Assistant Secretary Electronics and Guided Weapons.

Sergeant Missilemen Will Convene Here Next Week

Top missilemen connected with the Sergeant Weapon System will convene at Redstone Arsenal next week "to take a look at where we have been—and where we are going."

Approximately 90 conferees, representing many Army commands and agencies, will review the status of current Sergeant programs and mutual problem areas July 28 at a Management Review at the U. S. Army Missile Command.

Already deployed in Europe, Germany and Korea, the Sergeant replaced the Corporal and provides U. S. troops with a highly reliable ballistic missile, featuring

the advantages over its predecessor of an inertial guidance system and a solid propellant motor. Field maintenance support equipment has been deployed with the weapon and gives troops the ability to repair electronic equipment in the field, thus eliminating the need for shipment of equipment to the United States for such repair.

Col. J. Mort Loomis, Jr., Sergeant Project Manager, will direct the year-end review of accomplishments, among which have been an increase emphasis on cost reduction and the use of breakout contracting procedures which will result in substantial savings to the

taxpayer. Items opened to competitive bidding included launchers, shop sets, firing set inclosures, missile containers and repair parts.

Col. Loomis said that goals for the coming year will be set up and a major improvement program for Sergeant, which will extend the useful life of the system, is being initiated and will provide for correction of deficiencies encountered in the field as they arise.

Sperry Utah Company is prime contractor for the Sergeant system. The fifth industrial contract, of the firm fixed price variety, was recently negotiated with Sperry for Sergeant missile system.

June 20, 1963—The U. S. and the Soviet Union signed an agreement establishing a "hot line" communications link between Washington and Moscow. The "hot line" was contracted for by AMC.

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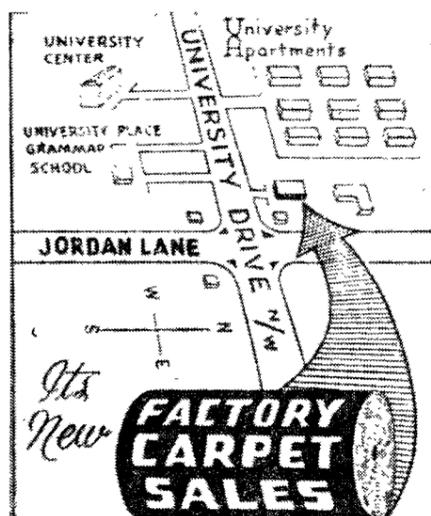
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Lonnie Hightower Named To Head Hawk Project

The Project Manager of the Hawk and NATO Hawk air defense missile system at the U. S. Army Missile Command will become the Army's dean at a new Department of Defense school for weapons



Lonnie Hightower

system managers. He is Col. Charles R. Graham, a veteran of 23 years service and Hawk Project Manager for the past year.

Lonnie Hightower, Deputy Manager for the Hawk Project, was named to succeed Col. Graham as head of the Project with the title of Acting Project Manager.

Hightower is a veteran of more than 10 years in missile work at Redstone Arsenal and has headed up two other missile systems, the Lacrosse and Dart. He has also won the Missile Command's Junior Executive Award.

Col. Graham will represent the Army in the newly organized Defense Systems Management Center at Wright-Patterson Air Force Base, Ohio.

The school was established to prepare selected military and civilian personnel from the services to exercise major project management responsibility.

Col. Graham is a native of Olustee, Okla., and holds a BS degree in mechanical engineering and his masters degree from Columbia University. He has been an instructor in engineering at the U. S. Military Academy and served in the Research and Development Agency, Office of the Army Chief of Ordnance.

He was assigned to the Army Missile Command at Redstone Arsenal in 1961.

As the Army's dean at the new school he will be part of a faculty composed of representatives from all services.

As the Hawk Project Manager, Col. Graham was responsible for the system which is in use by both U. S. and Allied troops throughout the Free World in addition to being produced by five NATO countries.

Bloodmobile's Quota Shattered

Redstone personnel continued their quota-shattering support of the Red Cross blood donor program last week when 622 persons donated a pint of blood during the July visit of the Bloodmobile unit to the Arsenal.

This marked the eighth consecutive month that the military and civilian personnel of the Arsenal have surpassed the monthly goal of 500 pints. The contributors were among 642 persons who volunteered during the visit.

The category I award to military units was presented to the 291st Military Police Company and the 184th Ordnance Detachment earned the Category II award.

The former goes to the military unit with an assigned strength of over 50 that has the highest percentage of contributors while the latter award is presented in the same manner to units with less than 50 assigned personnel.

Mrs. R. B. Braid directed the combined activities of the Red Cross Gray Ladies and the Jangoes who assisted Red Cross personnel with the administration of the monthly visit.



Capt. E. R. Harrison

Capt. Harrison Is Project Officer

Capt. Edward R. Harrison has been assigned as Project Officer at the Atlantic Missile Range Army Field Office, Patrick Air Force Base, Fla.

A native of Columbus, Miss., Capt. Harrison has been at the Army Field Office since 1960, following an assignment at the Army Missile Command.

He has served as Pershing Project Officer and Nike Zeus Project Officer at AMRAFO.

Capt. Harrison is a graduate of The Citadel, Charleston, S. C., and attended the University of Alabama and the U. S. Naval Academy.

His parents are Mr. and Mrs. Ernest R. Harrison of Columbus, Miss.

Marine Warrant Officer Assigned At Missile School

The U. S. Marine Corps Detachment at the Ordnance Guided Missile School recently added to its permanent party staff Warrant Officer Tommy S. O'Shields, who will act as assistant liaison officer while he is attending the School.

He will assist Maj. Martin Pearson, Marine Corps liaison officer to the Army Missile Command and the School.

WO O'Shields is a graduate of

Hughes And RCA Awarded Contracts For AAD-70's

The Army last week awarded two \$2.5 million contracts to competing industrial teams working on the Army Air Defense Systems for the 1970's (AADS-70's).

The contracts, awarded to Hughes Aircraft Company and Radio Corporation of America, require the industrial teams to verify certain components of AADS-70's concepts proposed earlier to the U. S. Army Missile Command which is directing development of the new weapon system.

Both contractor teams previously were awarded letter contracts for \$800,000 each. Today's award

represents the second increment of a planned \$6.8 million program to each.

The AADS-70's, now in early development, is being designed to engage and defeat the air supported threat of the 1970's and those ballistic missiles most likely to be encountered by a field army.

The contracts call for hardware representing high technical risk items which require exploratory development and evaluation before proceeding with the AADS-70's engineering development.

Results of the hardware development efforts are expected to aid the Army in confirming requirements for the AADS-70's system or for modification to provide a more effective air defense system.

Working as team members with Hughes Aircraft at Fullerton, Calif., are Douglas Aircraft Company, Charlotte, N. C., and FMC Corporation, Charleston, West Va. Working with RCA, Moorestown, N. J., is Beech Aircraft Company, Wichita, Kansas.

Current effort at the Army Missile Command is under the direction of the Research and Development Directorate. Contract Administration is under the direction of the Procurement and Production Directorate.

INTERCEPT

(Continued From Page 1)

ARPA is an agency of the Department of Defense and is sponsoring the ARPAT program as part of its Project Defender, a series of investigations on techniques and concepts for ballistic missile defense.

Cisco Junior College, Cisco, Tex. He came to the Missile School from the Marine Basic School at Quantico, Va.

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Webster Family Likes Living On Pacific Isle

Lee Webster is an engineer who left Huntsville with his wife and family for a tour of duty at the Nike-X test site on Kwajalein Island in the mid-Pacific.

Here are some of the things they found and the way they live on the three mile long island.

Lee is an infrared and optical engineer. His wife, Sara, is a nurse. She taught nursing at the University of Alabama at Tuscaloosa before she and Lee moved to Huntsville and Redstone Arsenal in 1955.

At Redstone Lee worked in the Nike-X Project Office.

Lee is characterized by his neighbors as a person who "can be counted on to do the unexpected." For example, he owns the only cannon on Kwajalein—a possession which would be unusual even back in Huntsville.

Kwajalein people, being used to novel experiences, take the ownership of a cannon as a mark of originality. On festive occasions—and when things get dull, which is seldom—Lee hauls out his brass cannon and rocks the island.

The island also sports a thriving rod and gun club. When others gather at the ocean-front firing range with assorted rifles and sidearms, Lee shows up with a muzzle loader—another rarity on the island.

Needless to say, the Websters found living on Kwajalein far different from living in Huntsville.

With a house in the middle of the island, they are but a short walk from the ocean on one side and a calm lagoon on the other. Good or bad, depending on how you look at it, there are no elaborate shopping centers, no television and no traffic problems.

There are five movies, a bowling alley, hobby shops for everything from ceramics to photography, a University of Hawaii extension center, assorted clubs, miles of ocean to play in, and plenty of friends to socialize with.

The Webster's two bedroom house with built in appliances including a freezer costs little since Lee gets a housing allowance on top of his salary like other Civil Service employees on the island. In addition, he has no automobile upkeep. The family owns four bicycles—the predominant mode of transportation on the island. As Infrared and Optics officer for Kwajalein, Lee rates a vehicle, one of the island's symbols

of achievement and rank.

The Websters have two sons: Eric, 4, and Mark, 3. Both attend the island nursery school while Sara works as a secretary.

They have found food prices "a little higher than in Huntsville" primarily because all food has to be brought in by boat. Meat is the highest with New York cut steak running about \$1.75 a pound, compared to \$1.69 in Huntsville. Their food is purchased at the commissary which would pass for a super-market back home.

A full-time Marshallese maid to keep house and do the washing and ironing costs the Websters \$15 weekly—a wage established by the Trust Territories government.

Clothing at Macys, the island department store, is cheaper than in Huntsville, according to the Websters. Because the number of items available at Macys is limited all home bookshelves on the island feature a collection of mail order catalogs. Delivery from the states via mail takes two to three weeks at a postal rate based on the rate to San Francisco.

An island bakery supplies the Webster family with fresh bread, cakes and pastries.

Lee is from Hartselle, Ala., his wife from Tuscaloosa. Their tour of duty on Kwajalein has enabled them to see more of the world.

They have been back to Honolulu twice on vacation. And, before returning to Redstone next June they plan two more trips to use up Lee's Civil Service annual leave. One will take them on a tour of the south sea islands to Tahiti, Samoa, New Zealand, Australia, New Guinea and Ponape.

On a second trip they plan to visit Japan and the Orient.

Do they regret going off to live on the tiny island. "Heck no," says Lee as he recounts the good and bad points of living on Kwajalein. His wife feels the same way. When not working she plays bridge like any number of other housewives. And, she also swims in the lagoon, "snorkles" for brilliant shells on the reef and sings. A trim brunette, she sings with the church choir and professionally with one of the island's "combos."

Eric and Mark go deep sea fishing with their father on one of the Nike-X recreation boats. They also have plenty of playmates since Kwajalein is largely peopled with young couples who have at



KWAJALEIN FAMILY—The Websters moved from Huntsville to Kwajalein 14 months ago and have found living on the island an adventure. Here Lee with a model dugout poses with sons Eric, 3, and Mark, 4, and Mrs. Webster in front of pieces of coral they picked up on the Kwajalein reef. The white is fan coral which offsets a piece of rare black coral on the left. Black coral is prized for making jewelry.

least one or two children in the age range between diapers and "The Dog."

The Websters have found Kwajalein a great adventure, well worth living on the small island where they can step out on their patio and see the ends of their present world.

VISITOR EVOKES WIDE INTEREST

Headquarters of the Army Missile Command is host to many distinctive visitors, but seldom does rank or fame draw a gallery of spectators like those on B and C Wings of the Headquarters building last Wednesday.

Garbed in gray with a white vest, the visitor stalked up and down the walk on extraordinarily long, spindly legs while spectators peered from windows. The Military Police sent an escort to assure that he wasn't hurt—Personnel Sergeant Major Paul E. Hoverson offered him an Army enlistment.

The Transportation Division was ready to lend him a ticket to safety, but he declined and flew off when a photographer appeared to take his picture.

His name is Herr Kraan, alias Crane.



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ISLAND HOME—The Websters stand in the front yard of their home on Kwajalein where son Eric has just picked up a coconut. The boys enjoy going deep sea fishing with their father.

June 20, 1963—CCIS-70, AMC's battlefield computer project management established.

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 Han-shan, Fl, "Cold Mountain; 100 Poems."
 Johnson, Gerald W., "Communism; An American's View."
 Kennedy, John F., "American the Beautiful."
 Mikes, George, "How to be an Alien; in Britain, France, Italy, Germany, Switzerland, Israel."
 Parson, Nels A., "Missiles and the Revolution in Warfare."
 Taylor, A. J. P., "Illustrated History of the First World War."

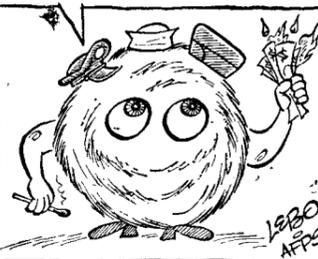
FICTION

Ballinger, William Sanborn, "The Fourth of Forever."
 Barnsley, Alan Gabriel, "The Birthday King."
 Davis, Mildred, "The Voice on the Telephone."
 Gallico, Paul, "The Hand of Mary Constable."
 Green, Peter, "Habeas Corpus, and other Stories."
 Harris, MacDonald, "Mortal Leap."
 Lockridge, Frances, "Quest of the Bogeyman."
 Stark, Joshua, "Break the Young Lad."
 Turner, Thomas, "Buttermilk Road."
 Warren, Robert Penn, "Flood; a Romance of our Time."

June 14, 1777—Congress adopted American flag with thirteen stars and thirteen stripes.

FOOF'S SPOOFS

WHEN A MAN HAS MONEY TO BURN YOU CAN BE SURE SOMEBODY WILL BE AROUND TO HAND HIM A MATCH.



DOMINICK IS NEW—Dominick, the colt, was six-weeks old when he paused to take a birthday carrot from Colleen Napper while her sister, Sarah, pats Buckskin, Dominick's mother on the nose. Born light with possible markings of a palomino, the colt is turning color much to the chagrin of his mistresses. They are members of the Redstone Arsenal Riding Club. The horses are usually in the Jupiter pasture but Buckskin is such a jealous mother she is in segregation until she stops fighting any horse who comes close to Dominick.

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A-341-B	1954	CHEVROLET	2-Door	\$ 475	A-86-A	1961	FORD	4-Door Galaxie	\$1375
A-424-A	1959	CHEVROLET	2-Door	\$1275	A-292-B	1957	MERCURY	2-Door	\$ 575
R-60	1958	CHEVROLET	Station Wagon	\$ 875	A-492-A	1957	OLDSMOBILE	4-Door	\$ 475
A-357-B	1951	CHEVROLET	1/2 Ton Truck	\$ 375	A-180-B	1959	OLDSMOBILE	4-Door	\$1175
A-236-B	1962	CHEVY II	2-Door	\$1475	R-63-A	1960	OLDSMOBILE	4-Dr. Hardtop	\$1375
U-74-A	1953	CHEVROLET	1/2 Ton Truck	\$ 300	A-385-B	1951	PLYMOUTH	2-Door	\$ 275
U-80	1961	FORD	1/2 Ton Truck	\$1275	A-247-A	1961	RAMBLER	Station Wagon	\$1075
G-79	1962	FORD	Pickup Truck	\$1375	R-64	1963	RAMBLER	Convertible	\$1975
U-78	1962	FORD	Pickup Truck	\$1375	A-149-A	1963	RAMBLER	2-Door	\$1675
G-76	1961	FORD	Pickup Truck	\$1275	R-65	1963	RAMBLER	4-Door	\$1575
U-77	1961	FORD	Pickup Truck	\$1575	A-436-A	1961	RAMBLER	4-Door	\$ 975
A-334-C	1959	FORD	Fordor	\$ 575	A-412-B	1960	RAMBLER	Station Wagon	\$ 575
A-443-A	1960	FORD	Convertible	\$ 975	R-67	1964	RAMBLER	2-Door	\$2375
G-70-A	1958	T-BIRD	2-Door Hardtop	\$1275	A-212-B	1958	RAMBLER	4-Door	\$ 475
A-468-A	1956	FORD	Station Wagon	\$ 475	U-73	1963	RAMBLER	2-Door	\$1675
A-244-A	1960	T-BIRD	Loaded	\$1875	A-143-A	1958	RAMBLER	Ambassador	\$ 475
R-69	1958	FORD	Station Wagon	\$ 375	A-173-A	1959	RAMBLER	Station Wagon	\$ 675
A-206-A	1963	FORD	Tudor	\$2475	A-408-B	1960	STUDEBAKER	Station Wagon	\$ 875
					A-495-A	1960	FIAT	"600"	\$ 475

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TESTS

(Continued From Page 1)

The White Sands MAR, since it is a test version, will have only one receiver eye and one transmitter eye. Later versions, including one scheduled for Kwajalein Island in the Pacific—major test site for the Nike-X development program—may look a great deal different, but the principle should remain the same.

MAR works on the theory that radar beams can be bent electronically by playing one beam against another. This calls for a delicacy in timing far exceeding man's limited capabilities. It takes a computer to play the beams—and an extremely fast computer at that.

Another thing that will impress many people about the MAR is that only the operator's chairs will have to be oiled. Nothing moves. Because MAR has no moving antenna there's no friction to overcome or inertia to keep it from changing direction and speed instantly. In fact, MAR will be capable of operating so fast that it will appear to look in every direction at once.

The MAR replaces three radars used in the Nike Zeus anti-mis-

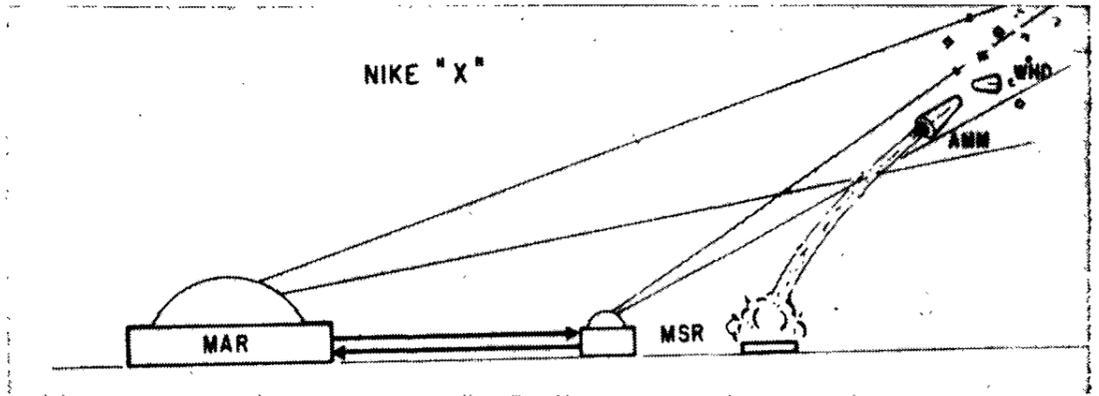
sile missile system, predecessor to the more advanced Nike-X system. They are: the acquisition radar for detecting missile warheads at long ranges; two, the target tracking radar for pinpointing the location of the warheads, and, the discrimination radar for sorting live warheads from decoys.

MAR stops just short of performing maintenance on itself, but it will spell out trouble spots. Flashing lights will point out the ailing part to the repairman and if he fails to heed these signals, the system will diagnose its troubles and print out the remedy on an electronic typewriter at his elbow.

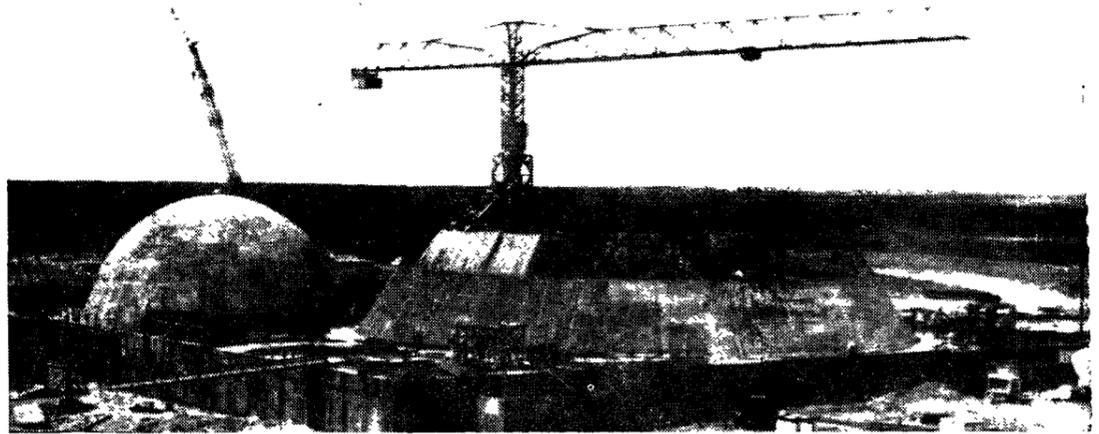
MAR is a great step forward in the art of electronic ranging and tracking of flying targets. It is the latest of the Army's air defense radar developments begun only a few years ago with the Nike Ajax system of defense against manned aircraft.

Western Electric Company is prime contractor for the Nike-X System and Bell Telephone Laboratories has responsibility for the system's design and development.

Sylvania Electronic Products, Inc., was a subcontractor to Bell Labs for the White Sands MAR.



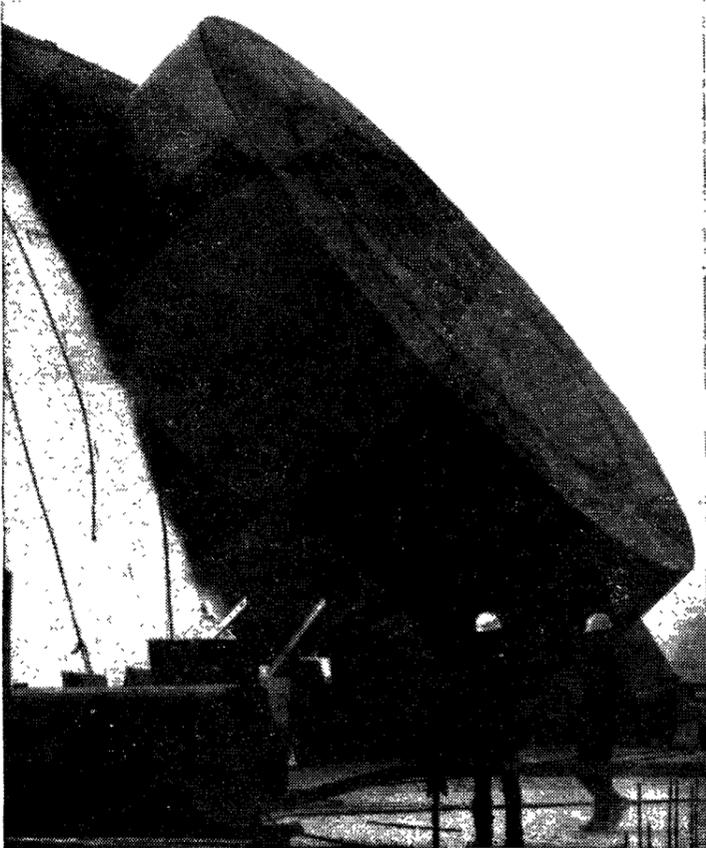
WHERE MAR FITS—The Nike-X system's Multi-function Array Radar will do the work of three radars. The MAR will perform missile warhead (WHD) detection, discrimination and tracking. Another phased array radar, the Missile Site Radar (MSR) will relay guidance commands to the anti-missile missiles (AMM).



OUT OF THE DESERT—The Nike-X system's Multi-function Array Radar (MAR) shown during early construction is now undergoing tests. This first full scale version of the phased array radar is located at White Sands Missile Range, N.M. Here one transmitter dome has been poured and the "T" crane is setting in place the framework for the huge MAR receiver dome.



MAR UNDER CONSTRUCTION—From a distance the MAR looks like three white igloos in the desert. Here the three steel and concrete domes of the radar are nearing completion of construction. The two transmitter domes (one distinguished by its open "eye" at right) are smaller than the receiver dome. Workmen atop the domes and the truck in the foreground indicate the immense size of the radar.



RECEIVER "EYE"—Two workmen are dwarfed by the massive "eye" in the side of the MAR receiver dome. Electronic components of the radar are located in the eye.

Army Develops Duplex Cartridge

WASHINGTON (AFPS)—A "duplex" rifle cartridge that significantly increases a soldier's ability to hit his target at close range, has been developed and adopted for use by the U. S. Army and U. S. Marine Corps. It fires two bullets instead of one.

Developed after several years of research by scientists at the U. S. Army Material Command's Frankford Arsenal, Philadelphia, Pa., the cartridge is similar in appearance to the conventional rifle cartridge. However, a second bullet nestles tandem-like behind the visible one for successive projection, and is designed not to follow the first, but to proportionately displace itself in order to increase the radius of the strike area.

Officially referred to as a Duplex Ball Cartridge, its calibre is 7.62mm—the standard rifle calibre used by NATO-member countries.

When assembled, the tip of the rear bullet fits into a cavity machined in the base of the front bullet. When fired the front bullet travels the line of fire, while the second bullet follows a path slightly off course from the first one. Together, they are more effective than conventional 7.62mm ball ammunition at ranges less than 150 meters.

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Anniversary Of An Intercept Marked

Two years ago an ICBM bored over the Pacific Ocean in a flight that made history—not for what the ICBM did, but what was done to it.

The ICBM's special target nose-cone was intercepted by another missile in flight.

The intercept was made by the Army's Nike Zeus anti-missile missile system installation on Kwajalein Island 5,000 miles down range

from where the ICBM was launched.

For the first time in history a Free World missile proved it was capable of killing an ICBM before it could reach its target.

The event amounted to a victory for the Army's anti-missile missile project office at Redstone Arsenal, and its prime development contractors, Western Electric, Bell Telephone Laboratories and Douglas Aircraft.

Some five years had been spent in developing the Nike Zeus System.

Neither missile carried a live warhead. However, keen electronic measuring equipment indicated that the Zeus missile came within kill distance of the ICBM.

Like the first olive out of the bottle, successive intercepts came easier—or at least faster. To date the Department of Defense has announced nearly a dozen similar intercepts.

Hardly had the congratulations died down when the Army announced it had in mind Nike-X, an even more advanced anti-missile missile system than Nike Zeus. It would be based on techniques and principles learned in developing Nike Zeus. Col. I. O. Drewry, the Nike-X Project Manager, who also headed the Nike Zeus development when the first intercept

was made, says Nike-X is now well along in development.

Tests have begun on the first full scale version of the Nike-X Multi-function Array Radar. The MAR, as it is known, will replace three conventional radars used in the Nike Zeus System.

Nike-X will also make use of the Sprint interceptor missile, which will be the fastest guided missile ever developed.

The goal of the Nike-X Project is to provide an effective defense against all long range missiles including ICBMs and missiles such as those launched from submarines.

Like the Nike Zeus System, Nike-X will be tested against our own missiles in engagements similar to the one which took place two years ago.

The Nike-X Project Office isn't

Movie Schedule

WEDNESDAY, 22 July
"Sergeants 3" (F)
THURSDAY-FRIDAY, 23-24 July
"The Night of the Iguana" (M)
SATURDAY, 25 July
"One Man's Way" (F)
SUNDAY-MONDAY, 26-27 July
"America, America" (M)
One evening performance Sunday at 6:30 p.m.
One performance Monday at 6:30 p.m.
TUESDAY, 28 July
"The Terror" (M)

saying when the engagements will take place, however, because of the interest on the other side of the Iron Curtain.

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75	13.84	7.53	\$ 5.45	
100	18.46	10.05	7.27	\$ 5.90
200	36.92	20.09	14.54	11.81
300	55.09	29.87	21.54	17.42

Cash You Get	MONTHLY PAYMENT PLANS		
	12 Payments	24 Payments	30 Payments
\$500	\$46.81	\$24.73	
700	64.92	34.30	
1000	92.30	48.76	\$80.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

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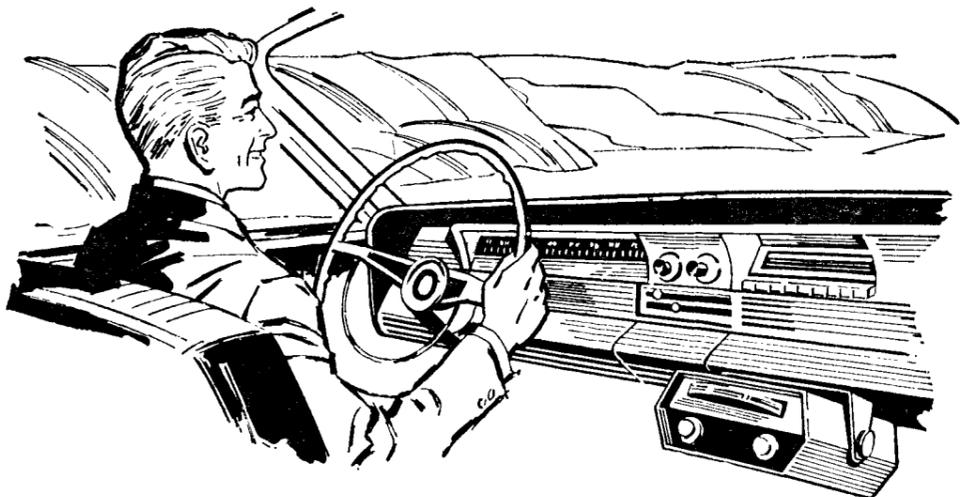
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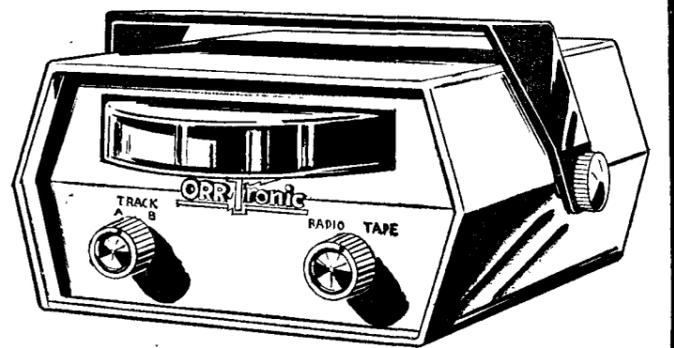
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SOCIAL ^{and} CLUB EVENTS

SADDLE CLUB RIDES, PICNICS

Redstone Saddle Club held its second trail ride and picnic of the summer season Saturday afternoon, July 18th.

The members and their families held a chicken barbecue which was climaxed by riding events for the riders and sack races for the families and members.

In the riding events Mary Ellen Bond was first followed by Gail Mullins, a close second.

The Senior Division of the sack races was won by Vicki Bell and Gail Mullins while in the Junior Division Cindy Napper and Nancy Fellows placed first.

A trail ride is planned for August which will culminate in riding events and another picnic for the members and their families. Sara Napper is chairman of the arrangements committee.

Candidates To Talk To Engineer Society

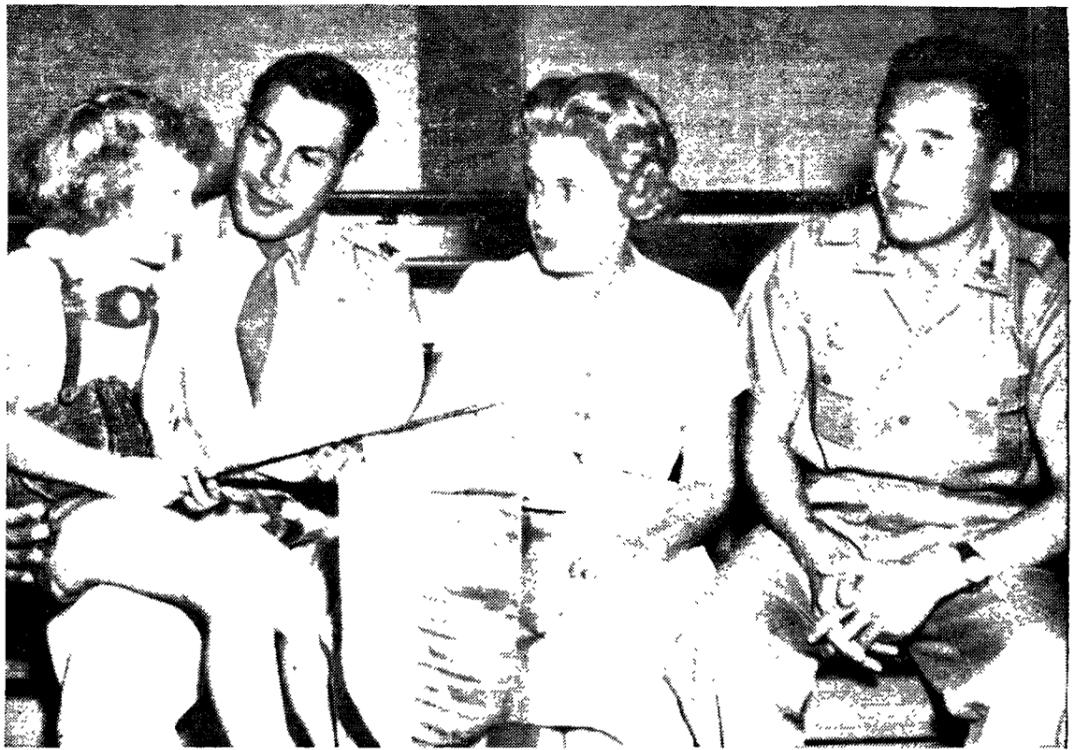
The Northeast Alabama Chapter of the Alabama Society of Professional Engineers will meet Tuesday, July 28 in the Auditorium of the Huntsville Utilities Building.

The special meeting is called to give all 45 candidates for Mayor and City Council a chance to present their programs and plans for the coming administration if elected. The meeting will be open to the public and will begin at 7 p.m.

Each of the qualified candidates for office has been invited to speak for three minutes to the chapter members, guests and general public. Following the presentations a period will be available to ask candidates specific questions.

The meeting will be under the direction of the Program Chairman, John D. Beal Jr., P. E. and has been authorized at the last regular meeting by the Chapter President Roy T. Gilbert, P. E. No candidates will be endorsed by the Chapter as it maintains a strict impartial position in this area.

This program is in line with the policy of the National Society of Professional Engineers in encouraging increased interest in public affairs by engineers.



HUNTSVILLE PILOT CLUB ENTERTAINS FOREIGN STUDENTS — The Community Center, Big Spring Park, was the scene of a covered dish supper for foreign students attending the U. S. Army Ordnance Guided Missile School. After supper members of the Pilot Club and foreign students enjoyed songs and dances from around the world. Shown in the picture (left to right) Anita Ostermann from Austria; M/Sgt. Henry Wulf from Germany; Mrs. C. A. White, president of the Huntsville Pilot Club and Specialist Motol Nagahasha from Japan.

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Capt. Dror, Mrs. Tayne Win At Monday Bridge

Winners at Monday night bridge last week were Capt. Uri Dror for the men and Mrs. B. Tayne for the women.

The Monday bridge group plays at the Squirrel Hill Officers Club and is open to members of the club.

Among the eight tables in play runnersup were Col. Jesse Fishback and Mrs. Lella Mullins.

Reservations to play with the group may be made by calling Mrs. A. M. Cobban, 877-5972.

31 Graduate From OGMS

Thirty-one enlisted men in four courses were graduated Friday at the Army Ordnance Guided Missile School, including four from the Republic of China, nine U. S. Marine Corps and 18 U.S. Army enlisted men.

Pvt. Nelson T. Miller was awarded the Association of the U. S. Army Award for outstanding scholastic achievement and Cpl. Lawton E. Wright Jr. of the Marine Corps and PFC Thomas W. Harris of the U. S. Army were named high men in their classes.

Second Lt. Robert Phillips, Jr., instructor in the missile digital computer section at the Missile Components Division was the guest speaker. Dr. Charles M. Hersh, executive assistant for education at the Missile School, presented the AUSA award.

July 25, 1963 — The United States, Britain and the Soviet Union initiated a test ban agreement in Moscow prohibiting nuclear testing on land, in space, and under water.

BOOK OF THE WEEK

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At The Service Club

By: Brenda Hanson

What's the best thing in life that's really free? Time, of course. Free time—to do whatever you please—to find new friends, different interests, and exciting experiences. During July, the staff of the Rocket Service Club urges you to make the most of this precious time. Along with your old favorites, add some fresh and unfamiliar kinds of recreation. The staff invites you to sample a few of the good programs offered.

Gee, it's nice to see the third female in blue breezing in, around, and through the Service Club again. For the past two weeks, Molly has been vacationing through the Great West. Welcome back, Molly.

Since we three are once again in unison programming events for you, we hope we have come up with a program to suit the taste of all of you.

The first event of the week is

the Birthday Party. The 22nd of July, is Special Services birthday. Today, through its Service Clubs, libraries, athletic programs, and other related facilities, the Special Services sponsors one of the largest recreation programs in the world which contributes to the physical and mental well-being of the Army personnel and their families. The Service Club invites you to come out and enjoy the birthday party with us. Cake and coffee will be served.

Thursday evening is dedicated to bridge. Every Thursday at 7 p.m. the bridge club occupies the small lounge for a full evening of bridge. Care to join? Let me be the first to invite you.

Friday night is the date toward which we have very much been looking forward. The Hootenanny is scheduled at 8 p.m. This show will consist of both military and local talent. During the evening, we will feature the versatile "Hoot and Nanny," a very talented duo who has proven to be very successful in the world of folk music. Make plans to attend and see and hear Hoot and Nanny.

Saturday, the regular coffee hour will be at 2:30 p.m. Then as the day progresses, attention turns to the patio where an ice cream party will begin at 7 p.m. Come down, you just might be fortunate enough to get to crank a freezer.

Sunday the spotlight shows Coffee Call at 9 a.m. The attraction of the evening is a Hawaiian Luau. The costume for the dance will be Hawaiian. Buddy Bair and his orchestra will furnish the music. Make plans to attend this event. Even if you don't dance, the orchestra plays excellent listening music. See you the 26th.

The 27th brings about an evening of games. We have a select group of prizes awaiting. Come join us, it's free.

That concludes this week's program of events. See ye at the club.
Brenda



SOLDIER OF THE MONTH—In addition to honors at Redstone Arsenal, SP-4 Robert Garrett and family became guests of the Huntsville-Madison County Chamber of Commerce members for a weekend. Wife, Cecile, and daughter, Gay Lynne, watch as SP-4 Garrett signs in with Bob Thompson, Manager of the Albert Pick Motel. SP-4 Garrett and family were also entertained by the Huntsville Rotary Club, the American Legion Post 37, and Martin Theater. SP-4 Garrett is an instructor in Nike Hercules at OGMS.

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2-dr. sedan. White, low mileage. Real sharp car. \$1199.

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Headquarters Remains Unbeaten Team

By JAY SILVERMAN

Headquarters, A M S C, ripped Procurement and Production's hopes of polling a second straight upset with their second record breaking performance in the last two weeks, as Headquarters came off the field with a 28-6 victory in a Civilian Girls' Softball League fracas last week.

Unleashing a pounding attack that provided a record 31 hits, breaking their week-old record of 28 hits, the larrupin' lassies brushed aside all rumors that P&P had become the best in the league.

Headquarters took advantage of some wildness by the P&P pitching staff to score five runs in the visitors' half of the opening frame. Walks to Carol Gaylor and Gene Ventress, sandwiched around Marie Sexton's single, loaded the bases. Barbara Simmons garnered a free pass, forcing in the first run, then Margaret Stagner unloaded a shot to deep center field for a grand slam homer, rocketing Headquarters into a 5-0 first inning lead.

P&P came in to score a run in the bottom of the first. With one down, consecutive singles by Martha Whitt, Julia Quick, and Wilma Daly knocked in a tally, so at the end of one, Headquarters led, 5-1.

Headquarters, facing the slants of the second P&P hurler of the game, could not dent the plate in their half of the second, but P&P continued to peck away, scoring once as Augenstein singled, advanced to third on Chavier's single, and scored as Frances Bogue dropped in a base hit. After two innings, the scoreboard read, Headquarters 5, P&P 2.

Headquarters erupted in the third inning to score twelve big runs on an equal number of hits. All of the scoring was done after two were out, as Headquarters refused to be denied. Claudelle Griggs, Margaret Stagner, and Fran Foster all had two hits in this inning, with Griggs, Stagner, and Cathie Leeth all stroking triples. As the dust cleared from around home plate, Headquarters held a 17-2 lead.

P&P refused to give in, however. Wilma Daly rifled a shot to deep left field, winding up on third with a triple, and scored a moment later as June Byrd slashed a single through the infield. This was all that P&P could muster, though, and at the end of three, they remained at the short end of a 17-3 score.

Headquarters continued their heavy hitting through the fourth and fifth innings. A leadoff triple by Marie Sexton, abetted by singles by Carol Gaylor and Barb Simmons, led to three more Headquarters runs in the fourth. In the fifth, with Shirley Tucker rocking a triple and Sexton stroking her second triple of the game, Headquarters added four other hits to bring 7 markers across and at the middle of the fifth, Headquarters led 27-3.

P&P was held scoreless in the fourth, but ventured into scoring territory again in the fifth. Frances

Bogue led off with a base knock, and was brought in on hits by Whitt and Quick. Again, P&P could not get more than a single run, and Headquarters remained the leader, 27-4.

Both teams failed to score in the sixth, and Headquarters came to the plate for the last time, in the seventh, enjoying a 23 run bulge. This apparently was not enough to satisfy them as Shirley Tucker lashed her second triple of the night, scoring Claudelle Griggs,

who had opened with a single. That, however was the extent of the Headquarters' scoring in the final inning.

P&P tried valiantly to get back in the ball game, but Headquarters had far too great a lead. P&P did score two runs in the last frame, as Bogue and Whitt continued to pelt the pill, but to no avail, as Headquarters came off the field with victory number 9, final score, 28-6.

Welcome To Military Personnel

The ROCKET extends a hearty welcome to the following named military personnel who have been assigned to Army organizations at the Arsenal.

Maj. Melvin E. King, DCG, Air Defense Systems; Capt. Robert C. Tilton, Hawk Project Office; Capt. Richard L. Rogers, Pershing Project Office; Capt. Otto J. Thamasett and 2nd Lt. James M. Degen, both assigned to Missile Intelli-

gence; 2nd Lt. Jimmy D. McCauley and 2nd Lt. Manuel R. Flores, Procurement & Production; 2nd Lt. Oscar L. Soler, and Lt. Thomas E. Sparks, Jr., Air Defense Fire Coord & Dist Sys; Chaplain (Maj.) John P. Kirkland, Jr., Post Chapel; Maj. Mark W. Pfenninger, Post Hospital; WO Waymon J. Davis, Troop Command; and WO James E. Moore, Criminal Investigation Div.

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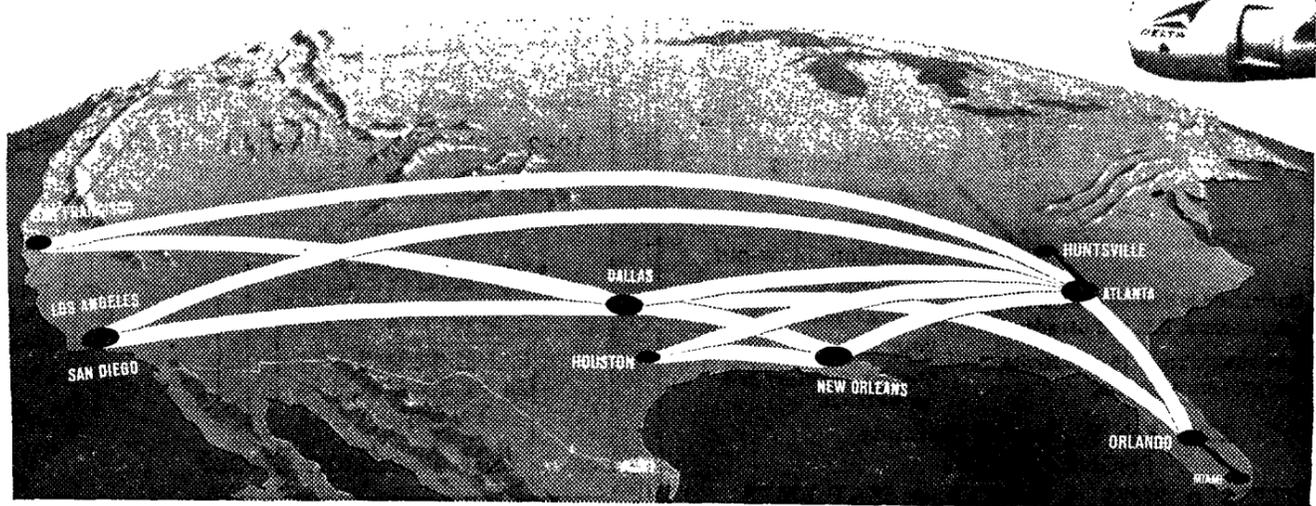
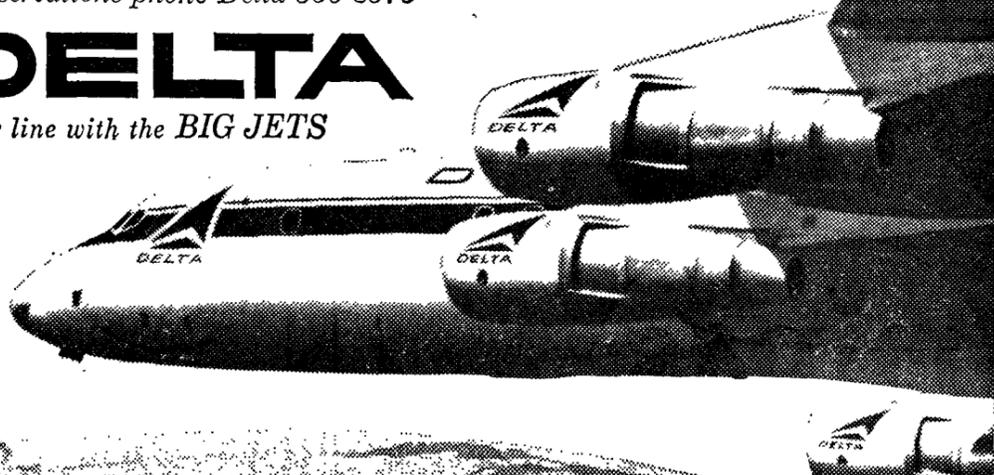
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Scribblings

Robbie very happy that she changed—says she'll stay that way, too—got four hits—I proposed an All Star team to the coaches—met with their approval and additions—and some disapproval—has to be brought up before the league board now—hope to play sometime in the middle of August—Is not Headquarters, without a doubt, the best girl's softball team on the Arsenal—Haven't they proven it enough?—vote for Abner McNaron—I'm off on leave for three weeks.

W. K. will try to keep you posted while I am gone.

Don't forget to attend these ball games on Tuesdays at 5:15—And how about a meeting of the league board to pull everyone out of the dark on whether there will be a second half played, especially the players—Y'all be good and I'll see ya soon.

Finance And Accounting Trounces Supply Team

By Jay Silverman

Finance and Accounting's entry in the Civilian Girls' Softball League unleashed a strong 18 hit attack to mow down the Consolidated Supply Division representative by a score of 21-7 in a game played last week.

F&A was like a rubber ball, bouncing back from last week's upset defeat at the hands of P&P, to overwhelm CSD.

Making a show of it from the start, F&A lost no time in opening the scoring. They dented the plate five times in the first, taking advantage of a rash of errors by CSD, plus base knocks by Robbie Barnett, Betty Whisenant, and Deannie Boles.

CSD, determined to make a good showing against the second place F&A team, came back in their half of the first to score two runs. Harriet Askew reached first on an error, then three consecutive hits, by Sheffield, Gunn and Jan Mullins, rang up two tallies, leaving CSD behind, 5-2.

F&A, stunned by last week's loss, was even more determined, however. Hits by Barnett, Glenda Kidd and Nelta Bowman, plus an error and a fielder's choice, helped F&A to cross the plate five more times in the second inning, widening their lead to 10-2.

CSD was held scoreless in the second, but in the third Glenda Kidd, from F&A, cracked a home run, raising the score to F&A 11, CSD 2.

CSD, unawed by F&A scoring punches, scored twice in their half of the third, as Burch rocked her first CSD home run, and Harriet Askew singled and scored on Jan Mullins second hit of the game, thus cutting F&A's lead to 7 runs.

F&A scored 9 more runs in the 4th and 5th innings. Just two scored in the fourth, but with Whisenant, Kidd, Barnett, Bowman, Jean Dove, and Mildred Hammons rapping safeties, F&A scored seven big runs in the fifth. The score then stood F&A 20, CSD 4.

CSD scored twice in their part

Small Bore Riflers Still Copping First Place Trophies

The Redstone small-bore rifle team may soon have competition for the honor of being the Arsenal's top rifle marksmen.

So far the small-bore team, headed by WO Irv Tarbox, has had a monopoly on the honor and has amassed an imposing array of trophies and ribbons in meets throughout the southeastern states.

Last week a Redstone Hi-Power Rifle team entered the competition and already gives promise of equalling the feats of the other Arsenal team.

The hi-power team, composed of SFC Carl Franquet, SFC James Dillon, SSGT Gentry Hawk and PVT James Chilcoat, made their initial appearance in competition at the Central Arkansas Gun Club at Little Rock.

Team captain Franquet was well pleased with the performance of the team in its first match and said that all the team needs is a little more competitive firing.

The small bore team went to Virginia last week to compete in the Mid-Atlantic Smallbore Position Regionals and came away with four first place awards, a runner-up trophy and a team award for second place.

Tarbox captured all of the first place honors while SP4 Jim Rooney was the winner of the second place award. Tarbox and Rooney were joined by SP7 Ray Waldron and SSGT Keith Robson in winning the team award.

June 17, 1954—Secretary of Defense approved Army reorganization plan, which among other things placed Deputy Chief of Staff for Logistics in command of technical services; created U. S. Continental Army Command, and provided for additional Assistant Secretaries of the Army.

down the F&A lead.

In the last inning, F&A had one more thing to say. Robbie Barnett, the Brunette Bomber, clobbered a pitch to the 240 foot mark in center for a home run, finishing F&A's scoring for the night.

CSD scored once more, with Anne Bunch getting the big hit, but they had been left for behind, as F&A scored another victory,

21-7.

Robbie Barnett was the big hitter in the F&A attack with her home run and four singles. Glenda Kidd and Nelta Bowman each had three hits, with Glenda rocking a home run.

with a homer and a double; Alice Sheffield, with a single and a triple, and Jan Mullins, with two base hits. Sheffield played an outstanding game in the field.

F&A now has a 6 and 3 record, while CSD was hung with their ninth straight loss.

Big guns for CSD were Burch

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POST TRANSPORTATION DIVISION



TRAVELING? THESE GIRLS GET THE REQUESTS—Standing by the Post Transportation sign above, are, left to right, Mrs. Jo McKnight and Miss Betty Travis, two of the seven girls who arrange travel for Army people at Redstone. Mrs. Dorcas Throneberry, upper right, is the chief of the Passenger Section. Looking at the map the girls frequently consult are Mrs. Daisy Burke, left, and Miss Gail Touchstone. It takes a globe for Mrs. Veleria Driggers, left, and Mrs. Imogene Baugher to find all the overseas locations for which they receive travel requests.



Girls Map Travels For Army Misislemen

The seven girls in the Passenger Section of the Transportation Division of the Missile Support Command arrange travel for everyone but themselves.

They handle the details for those hundreds of Redstone employees who find themselves attending to missile business from Paris to Australia.

Strangely enough, most of them do not envy their "customers" all the glamorous sounding trips that come about in the line of business. They say they prefer to send the travelers assigned to them merrily on their way, staying at home themselves.

These girls have a total of more than 50 years travel experience among them.

Dorcas Throneberry, the section chief, has been in transportation the longest, about 17 years. She hasn't been in the passenger business all of those years. Her transportation career began in freight and she says:

"I had a hard time deciding to change to passengers because I

didn't know whether or not I'd like them, but after five years I wouldn't want to go back to freight."

Dorcas is diminutive, but with her background of knowledge and experience, her efficiency belies her size and soft voice.

Like others in the section, Dorcas is impressed and thankful for the "no accident" record their passengers have. To date, no one for whom they arranged travel has had a fatal accident. Considering that they process some 350 actions a week for travel all over the world, the statistics are surprising.

Dorcas was originally from Cullman, and came to work at Huntsville Arsenal in 1943. When she married in 1945, she resigned, then came back in 1947. The Throneberrys live in Huntsville where her husband is associated with a newspaper in the advertising department. They have three children, two daughters ages 17 and 13, and a seven-year-old son. Dorcas says when she retires, she might like to travel.

The assistant chief of the Passenger Section is Imogene Baugher who has spent eight years in the section. In fact, she has been there since she first came to work at Redstone. She and Veleria Driggers, who sits at the next desk, handle the overseas travel to such places as Italy, Turkey, Australia, Kwajalein Island, France and Germany, or any other spot overseas that rocket and missile business may take people.

Imogene and Veleria also process travel requests for the Ordnance Guided Missile School, the Army Missile Support Command, Lance, Nike-X and they handle the paper work for group travel and cost charge.

Imogene, an attractive brunette, is from Huntsville, but grew up in Farley and graduated from New Hope High School. Her husband is employed with an engineering firm, and they have three children, a four-year-old, a three-year-old and a two-month old baby.

Veleria lives in Hazel Green where she graduated from high school. She attended Florence State, and it was while traveling to Florence one day by bus that she met her husband, a native of North Carolina.

Veleria says the bus was full and he took the only vacant seat when he got on—the one next to her. He asked her to write to him; they corresponded for a couple of years, then he came to see her. Their marriage resulted.

She is one girl in the Passenger Section who might be doing some traveling as she hopes her Army husband will get an overseas assignment soon where she and their two daughters, ages 12 and two, can accompany him. He is now at Fort Knox, Ky.

Veleria worked for the Navy in Washington, D. C. one year.

She finds it amazing that travelers so successfully complete their trips because some of the schedules seem inextricably complicated and involve a lot of miles and modes

of transportation. Nevertheless, this slender blonde looks happy and pleased with the whole situation.

The cheerful voice heard by travelers from Missile Command headquarters, the Pershing, Sergeant and Shillelagh project offices when they dial 876-2950 belongs to Jo McKnight. There's something about Jo's manner of speaking that makes her "customers" feel confident that they'll get the schedule they need, and promptly. They do.

Travelers bring Jo souvenirs in appreciation for her effective planning. She counts such items as a leather purse from Mexico, perfume from Paris, a paperweight from Hawaii, and fans from Kwajalein, among her mementos.

Jo says some travelers are obviously nervous about flying, but very few people request rail or bus transportation.

Even though these girls aren't running a glamorous travel bureau, for customers with unlimited funds wanting to plan exotic vacations, there is still a lot of variety in the kinds of trips scheduled. Army travel has to be by the most economical and direct route.

Once a man going to Alaska told Jo he would have to go by dog sled from Anchorage to Ft. Richardson, and he was so convincing that the girls in the Passenger Section believed him! When they couldn't find any public transportation between those points, they had asked him how he would travel.

Jo is from Pulaski, Tenn. Her husband works for a contractor, and they've been living in Huntsville since 1960. She came to work at Redstone in 1958.

Daisy Burke takes care of planning trips for the folks in R&D. She says she has been in the Passenger Section the same length of time as Jo has, and came from Petersburg, Tenn. Daisy first work-

ed on travel in R&D for two years then came over to the Transportation Division about four years ago.

Most of Daisy's scheduling is for points in the West, but development of rockets and missiles is likely to take people in all directions, including overseas. Daisy whose husband is in the Army looks fresh and pretty at her desk where she radiates the same assurance of competence that permeates the whole Passenger Section.

When people in the Hawk project office, Missile Intelligence Directorate and R&P need to travel, they call Betty Travis, an attractive little miss who goes about her work quietly and seriously. Betty has been at Redstone since 1956, but came to Transportation only last year. She was formerly in the Purchasing and Contracting Division where she had a variety of duties. She's from Hazel Green.

Most of the girls in her office would prefer to fly if they were going to travel, but Betty likes trains. She doesn't have any hesitation about the safety of planes but thinks train travel is more entertaining.

Lovely Little Gail Touchstone is the travel clerk for Mauler and Nike Hercules project offices at the S&M Directorate. This is her first job after finishing school in Fayetteville, Tenn., and she started to work in September, 1962.

Most of the Mauler people who travel are headed for California when they call her, the Nike Hercules folks go mostly to Washington, but travelers from S&M go many places.

The Passenger Section of the Transportation Division reflect the vast areas of the world the Missile Command must cover to accomplish its mission, and the people who get the work done by bus, train or plane. Maybe someday they will go by dog sled too!

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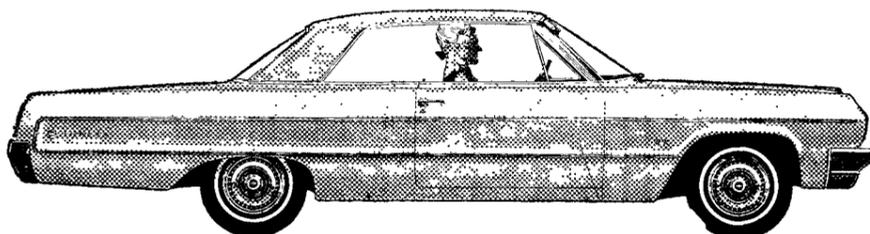
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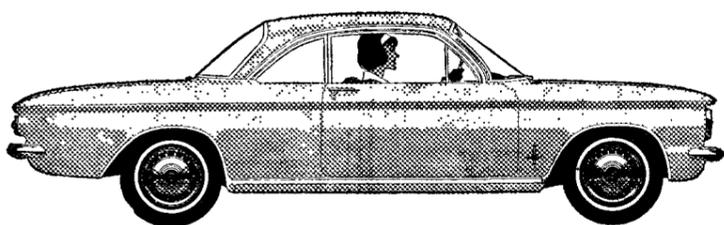
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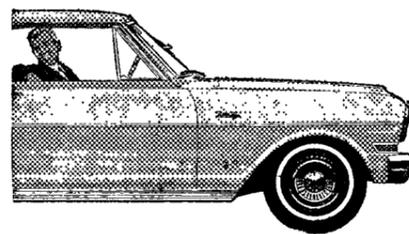
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Page 14 The Redstone Rocket — July 22, 1964

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Army-University Sign Graduate Study Contract

Introduction of a new curriculum in public administration and expansion of the industrial engineering curriculum will result from the \$462,438 contract awarded the University of Alabama by the U. S. Army Missile Support Command.

The contract is in support of the Graduate Study Program conducted by the University on its Huntsville campus. The Support Command is the contract agency for the Army Missile Command and the Marshall Space Flight Center who jointly sponsor the Graduate Study Program with the University.

As in the past, the graduate study program will continue in such fields as physics, mathematics, engineering mechanics, electrical engineering and mechanical engineering.

Under impetus of providing advanced educational needs of the missile and space programs at Redstone Arsenal, the graduate program in Huntsville has grown larger than the same program on the University's main campus in Tuscaloosa. This year, for the first time, graduate degrees are being awarded in some technical areas for work taken under the Graduate Study Program. The University's graduate program in Huntsville has created one of the largest graduate schools in the Southeast.

Heart of the Graduate Study Program is the recognized need of the Army and MSFC for a continuing educational program to keep personnel up-to-date with advances in the technical fields.

Under terms of the Graduate Study Program contracts, the Uni-

versity provides courses based on the requirements of the Missile Command and MSFC. The two agencies sponsor students in order to develop competence needed in their work.

Enrollment in the University's graduate program Study Program is not restricted to students sponsored by the Army or MSFC. As a matter of fact, more than half the graduate enrollment during fiscal year 1964 came from students enrolling on their own. Total enrollment during that year was 1686 of which only 791 were sponsored by the two Federal agencies. The 895 other students came from the ranks of engineers in private industry in the Huntsville area.

OPENINGS ANNOUNCED

The Board of U. S. Civil Service Examiners has issued four announcements of openings and an amendment closing an earlier announcement.

Announcement AT-35-14(64) is for structural ironworker at W-11 (\$3.07 an hour);

Announcement AT-35-15(64) is for sewage disposal plant operator at W-9 (\$2.74 an hour);

Announcement AT-35-16(64) is for W-9 plumber;

Announcement AT-35-17(64) is for W-9 painter.

An amendment to AT-35-12(63) for cook at grades ranging from W-5 (\$2.05 an hour) to W-8 (\$2.56 an hour) closed at the close of business yesterday.

June 28, 1863—Major General George G. Meade replaced General Hooker as commander of the Army of the Potomac.

Davis Is Missile Command Member Of Laser Advisors

William A. Davis of the Army Missile Command has been named to the newly established LASER Advisory Group of the U. S. Army Materiel Command in Washington, D. C.

Davis is Chief of the Special Programs Office of the Future Missile Systems Division of the Directorate of Research and Development.

Alternate representative from the Missile Command is Thomas Hunnicutt, also of the Special Programs Office.

Their appointment was made by Lt. Col. Stanton W. Josephson, Director of R&D for the Missile Command.

Coordination of all phases of U. S. Army research and development in LASER technology, for more effective management of the growing efforts in this field, will be handled by the LASER Advisory Group (LAG).

Consisting of representatives from AMC's major subordinate commands and laboratories, the LAG will advise, provide technical guidance, and assist AMC's Research and Development Directorate.

Other responsibilities include maintaining a current and continuing review of LASER scientific and technological developments, reviewing and evaluating all AMC



POSTHUMOUS AWARD—Mrs James H. Draughon, wife of the late Deputy Sergeant Project Manager, and Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, hold the Exceptional Civilian Service certificate and medal awarded posthumously to her husband. Draughon was Deputy Sergeant Project Manager at Redstone Arsenal at time of his death early this year. The Exceptional Civilian Service award was made by the Department of the Army.

LASER-related research and development efforts, and providing a coordinated Army input to the DOD Special Group on Optical Masers (SGOM).

The LAG will be headed by a chairman from the Physics and Electronics Branch, Research Division, Research and Development Directorate, AMC.

Corporal Offered Museums, Others

The U. S. Army Missile Command has Corporal Missiles available for donation to other military installations, educational institutions, non-profit museums, municipal corporations, or any recognized veterans' groups for display purposes.

The Corporal was the first combat missile to be deployed with Troops. It is a surface to surface type missile with a range of 25 to 75 miles. It is 45 1/4 feet in length and weighs approximately 10,000 pounds.

Transportation charges will have to be borne by the requestor as Army Regulations require. Missiles will be shipped from storage point nearest the requestor.

Requests for additional information should be addressed to Commanding General, U. S. Army Missile Command, ATTN: AMSMI-SSK, Redstone Arsenal, Alabama 35809.

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REAL ESTATE

Contract For Mess Hall Clean Up Goes To Gelber

Cartoon panels depicting troubled G.I.'s peeling mountains of potatoes and worn-out jokes concerning dreaded kitchen police (K.P.) duty are things of the past at Redstone Arsenal. More than 80% of the contract covers messes at the Ordnance Guided Missile School.

For the third consecutive year, the Army has awarded kitchen service contracts to commercial firms in an effort to free students and technically trained soldiers from K.P. which has caused absenteeism from classes and jobs, according to Col. William J. Macpherson, Commandant of the Missile School.

Col. Macpherson announced the awarding of the kitchen service contract to the Ira Gelber Co. of Atlanta, Ga., Gelber employees will work along with military cook food specialists at the mess halls.

The civilian help program was launched three years ago as a pilot study. Among the prime reasons for the move is the fact that hundreds of foreign students from some 17 nations train at the Missile School and eat along with the American soldiers in the same dining facilities.

Although their respective countries pay for the food eaten by their soldiers, the Army did not expect its "guests" to work in the kitchens. Yet it did not want its own men to assume the kitchen police duties.

The civilian help plan has reached a happy medium, according to the Army's pilot study. The Gelber Co. began duties at Redstone July 1.

Thiokol Demonstrates New Paper Rocket Motor Cases

BRISTOL, PA. — After several years of Corporate funded R&D effort, Thiokol Chemical Corporation has successfully demonstrated the feasibility of using low cost, nonstrategic materials in the manufacture of rocket motors. These materials are basically "re-constituted wood" and are comprised of a combination of special high strength paper and plastic bonding materials.

In the past year, several designs have been successfully static tested at the Elkton Division and at the Huntsville Plant. Chamber pressures ranged from 400 psi to 1500 psi, and the duration of firings ranged from 0.100 seconds to 5.7 seconds. Exclusive of propellant, all components, including nozzles, were constructed of this new material and all closure joints were adhesively bonded. The material has demonstrated

a hoop strength of more than 30,000 psi and a strength to density ratio in excess of 700,000 inches. On this basis, it is equivalent in performance to high strength aluminum alloys and most heat-treated alloy steels.

These materials were developed by Panelyte Industrial Division of Thiokol Chemical Corporation. They are fabricated in a manner that requires a minimum of machining for final assembly. Machinability, where required, is excellent and can be accomplished by conventional equipment as used for either metals or wood.

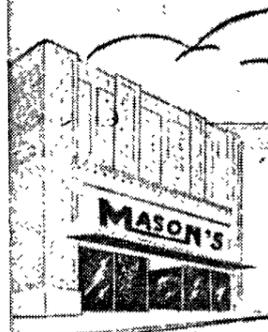
Because of an inherent low cost and noncritical nature, these materials offer an unlimited potential in propulsion devices and missile systems. Areas of application are close support troop fired weapons, tube-launched artillery rockets, gun-launched rockets, and meteorological applications in

which low cost, nonmagnetic properties, destruction or disposal of motor components are desired.

The latest static test demonstration was in a 3-inch diameter, 17½ inch long rocket motor in which the case, closures and nozzle were fabricated from this special phenolic material and utilized adhesively bonded joints. Propellant was a conventional composite type. The motor weighed 6.4 pounds and contained 4.2 pounds of propellant. Duration of firing was 5.7 seconds and chamber pressure was 450 psi. All test objectives were successfully accomplished. Additional tests are underway involving much larger rocket motors.

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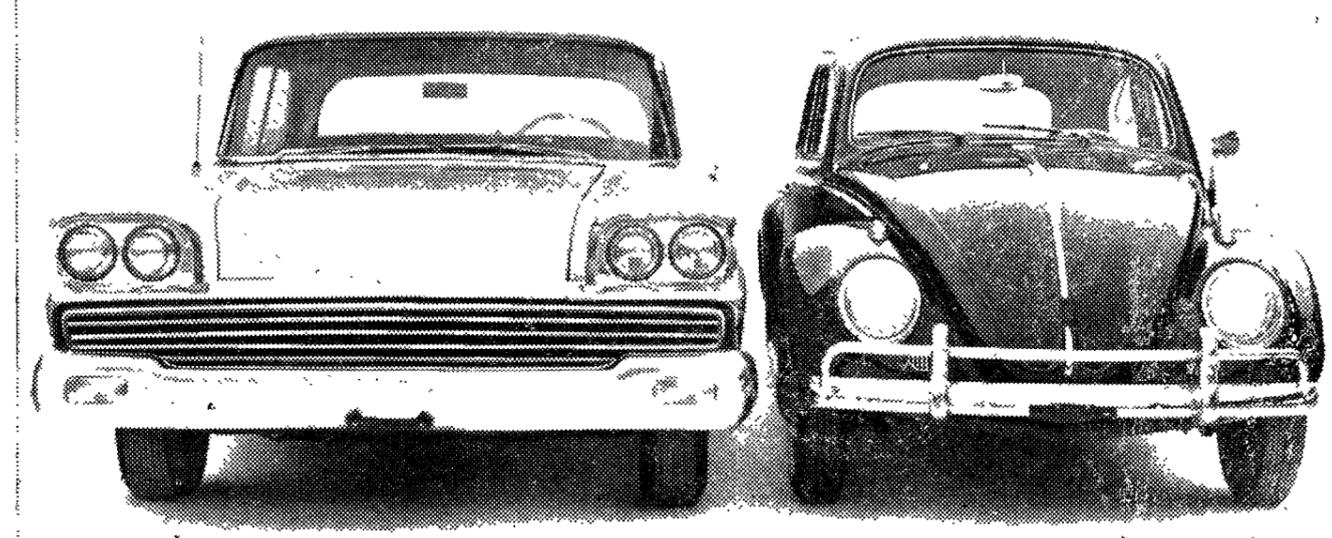
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