

The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 24, 1965

Arsenal-Wide

Spot News

Dial 112

Campaign's First Week Is Encouraging

Despite receipt of less than half of the organizational reports, Joint Fund campaign officials have voiced encouragement over the progress that has been made in the first week of the drive.

The encouraging part of the initial report is the fact that the 16 reports received include all of the large organizations with each having already attained over 30 per cent participation.

Included among the larger organizations reporting are the three large directorates and the Army Missile Support Command. Among them they represent well over half of the Arsenal personnel.

The Joint Fund drive is one of the two voluntary solicitation campaigns authorized by the Federal establishment each year. It is conducted in the spring of the year in support of eight National Health agencies and the four organizations that make up the Federal Service Joint Crusade.

It will be conducted over a five-week period ending Apr. 16. The only goal that is set for the sealed envelope drive is a contribution, from every person.

The only organizational component that has already reached 100 per cent in participation is the SAM-D Commodity Office where all six of the assigned personnel made their contributions before the official start of the drive.

Not far behind is the Redeye Project Office where 96 per cent of the 32 assigned personnel have made a donation to each of the drives.

Among the larger organizations, the Supply and Maintenance Directorate reported 48 per cent participation and the Support Command showed 45 per cent participation in the National Health drive and 35 per cent contributing to the Joint Crusade.

Procurement and Production has reached 41 and 37 per cent while Research and Development has 39 and 38 per cent respectively.

The latter organization includes a pair of 100 per cent units in their directorate total. The Structures and Mechanics Laboratory with an assigned strength of 74 and the Operating Services Office with 56 personnel, are the Honor Roll units.

We Are Doing 'Impossible' With Nike-X

"We are doing things in missilery that have never been done before and heretofore considered scientifically impossible."

These words were used Thursday night to describe the Army's Redstone-based Nike-X missile defense project.

Not only is Nike-X out in front technically speaking, but it is also the nation's highest funded missile development program according to Col. Robert H. Bull, a Nike-X Deputy Project Manager.

Secretary of Defense McNamara has requested a budget of \$400 million in the coming year to continue Nike-X development on an urgent basis.

Col. Bull told a meeting of the Armed Forces Communications and Electronics Association that development of the Nike-X system, which would provide a defense

(See NIKE-X on Page 3)

Lance Hits Bullseye

It Is 'Go' All The Way



ARMY'S LANCE—The U. S. Army's new Lance ballistic missile hit the bullseye in its first firing test proving the effectiveness of its new, modified inertial guidance and control system. Announcing the test today, the Army said the missile met all its test objectives in the development launch at White Sands Missile Range, N. M. The dark smoke is a normal function of devices used to spin the missile as it leaves its launcher. A non-tactical launcher was used in this first test. The Lance program is managed by the Army Missile Command. LTV Michigan is prime contractor.

The half-whispered "go, go, go" rose to encouraging shouts from the small group of soldiers and civilians standing under a chill blue New Mexican sky.

With a powerful roar, a bullet-shaped white and black painted missile rose from its launching rail. Leaving a twisting ribbon of smoke, the Army's new ballistic missile, the Lance, rose rapidly, almost as if in answer to the shouts of encouragement.

While those who built it cheered below, the Lance seemed to give a salute with a puff of white smoke indicating booster cutoff, and then cut a narrow white trail into the sky. Human eyes followed the trail until it was no longer visible, and then came the back-slapping and congratulations for the Lance Project people on hand for the first launching of their "bird."

That was the way it was on March 15 at the reviewing stand at White Sands Missile Range, N. M. Back at Redstone Arsenal, a public address system set up in a conference room at Army Missile Command headquarters gave a count-down description to the anxious workers whose missile was getting the supreme test, a little more than two years after work had been ordered on Nov. 1, 1962.

Shortly after the firing, Lt. Col. W. E. Mehlinger, Lance Project Manager, hardly able to suppress his enthusiasm, said that all test objectives were met by the firing. After preliminary data was in, he was able to report that the missile had achieved an amazing accuracy, punching out a bullseye in the target area, an unheard of performance for the first launching of a new missile system.

The successful firing was accomplished by the firing crew of the system's prime contractor, Michigan Division of Ling-Temco-Vought, with support of Project and Army range personnel.

With Col. Mehlinger at White Sands to participate in the first

(See LANCE on Page 3)

Defense Officials Are To Meet Here Next Week

Top officials from the Army and other defense agencies will convene at Redstone Arsenal next week for the 1965 Army Operations Research Symposium.

At least 12 general officers, along with more than 300 other prominent military and civilian personnel, will attend this fourth annual event which is hosted for the first time this year by the U.S. Army Missile Command.

Sponsored by the Office of the Chief of Research and Development, the theme of the symposium will be cost effectiveness. Keynote speaker for the three-day event will be Dr. A. C. Enthoven, Deputy Assistant Secretary of Defense (Systems Analysis).

Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, will welcome the conferees. Among others taking part on the program will be Lt. Gen. William W. Dick, Chief of OCR&D; W. M. Hawkins, Assistant Secretary of the Army (R&D); Dr. S. J. Deitchman, Special Assistant in the Office of Secretary of Defense (Counterinsurgency) and Dr. Wilbur B. Payne, Office of the Assistant Secretary of the Army (Financial Management).

Objectives of the symposium, which is aimed at maintaining within the Army a fully effective program in operations research, include such things as: 1) Acquain-

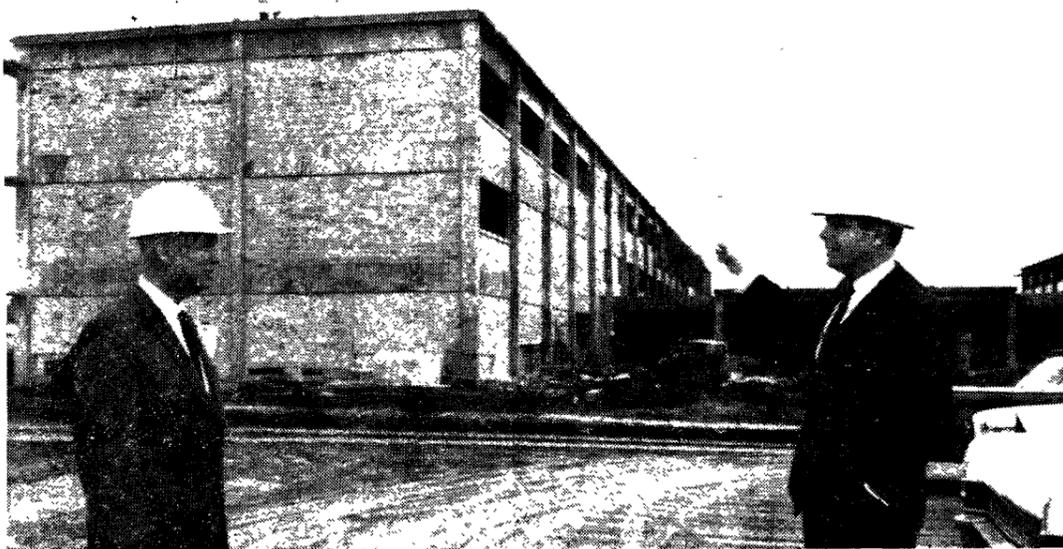
ting key personnel of the Army with the Army's operations research projects and in-house capa-

(See DEFENSE on Page 3)

JUNGLE WARFARE LEADER TO SPEAK TO ARMY BOOSTERS

One of the Army's foremost authorities on counterinsurgency will speak at a dinner meeting of the Tennessee Valley Chapter of the Association of the U. S. Army here tomorrow night.

(See JUNGLE on Page 3)



IT'S STILL A HARD HAT AREA—The hard hats worn by D. E. Rowe, left, current Director of the Army Missile Command's Research and Development Directorate Inertial Guidance and Control Laboratory, and W. E. Gudaitis, Deputy Director, are for protection from possible falling debris during heavy construction of the \$3.2 million wing which will house the laboratory and the Army Guidance Management and Technology Center when completed late this year at Redstone Arsenal. The Center was established to coordinate all Army R&D activity on inertial systems and components used for guidance, navigation, stabilization and control, and is part of the mission of the Missile Command IG&C laboratory.

The Redstone Rocket

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Rocket Ruminations

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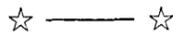
Only a few people could be on hand to watch the first launching of the Lance missile on March 15, but the hopes and encouragement of thousands of Missile Command people were on the pad at White Sands Missile Range.

As with all flight test programs, there were a number of objectives to be met. Some of these were of primary importance, with others relegated to secondary position.

The fact that the Lance marked up a success on every objective was almost unprecedented. To add icing to the cake was the announcement that the Lance had punched a bullseye in its target.

Lance is a product of the Army Missile Command and Redstone Arsenal. It was conceived here and much of the early work was performed in the Army's laboratories and workshops. Working closely with the prime contractor, Michigan Division of Ling-Temco-Vought, and sub-contractors, Lance Project Office personnel guided their "baby" through the development maze to the past week's outstanding success.

This is an accomplishment that results from full contributions of scientists and engineers, draftsmen and machinists, procurement specialists and maintenance experts—in short, all hands. It is only fitting then that all hands share this first success of the Army's Lance.



Proper Respect To Anthem Mark Of Good American

"'Tis the Star-Spangled Banner — O long may it wave."

The "Star-Spangled Banner," officially approved as the national anthem of the United States by Congress in March, 1931, was written by Francis Scott Key while he was a captive aboard a British warship in Chesapeake Bay during the bombardment of Ft. McHenry in the War of 1812.

The words of the patriotic song were written in a burst of inspiration as Key saw the flag still flying over the fort through the morning mist after the bombardment.

"Whose broad stripes and bright stars through the perilous fight, O'er the ramparts we watch'd, were so gallantly streaming."

Just as Key was inspired by the sight of the U. S. flag billowing victoriously over Ft. McHenry, veterans of all of the United States' wars and conflicts have been inspired after their perilous fights. For, after victory, they too could experience that swelling of pride if they could see Old Glory still "gallantly streaming" after the battle.

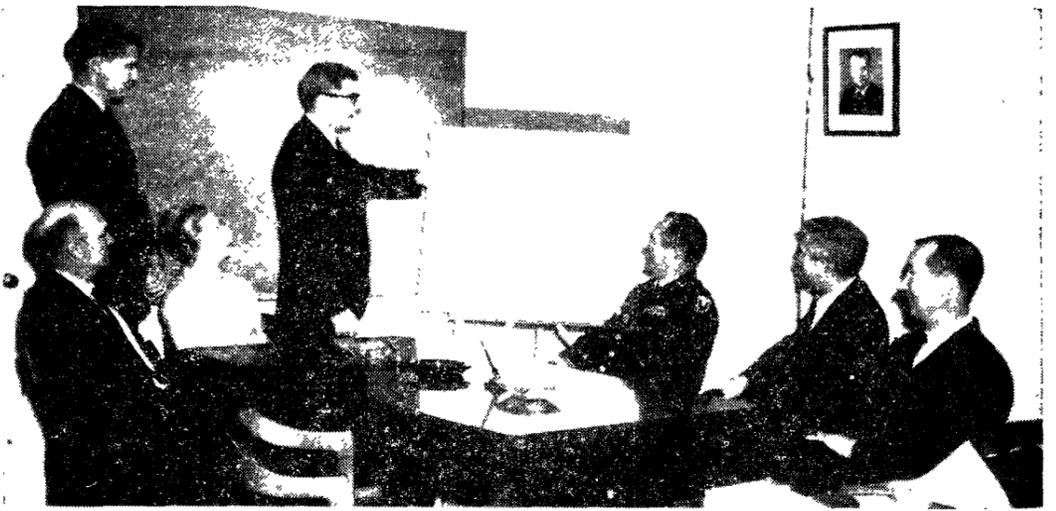
Though our national anthem was inspired by one battle in a war of long ago, its words could be used to describe the many battles that won the freedom we enjoy today. In dedication to this freedom all citizens of the United States should pay proper homage whenever the national anthem is played.

But there are frequent occasions when some citizens, unfortunately including members of the armed forces, do not pay proper respect to the "Star-Spangled Banner."

It is unthinkable that men, or women, solemnly committed and dedicated to the protection of their country, could be so lax as to ignore or—worse—avoid paying respect to the national anthem. It is not "square" or "corny" to get your heels together, face the music and salute when the national anthem is played. And as paradoxical as it may seem, some non-military people who don't know any better or who feel they are not required to pay respect to the anthem, will be the first to censure a man or woman in uniform who does fail to do so. Pots do sometimes call kettles black.

Paying proper respect proudly is a mark of a good citizen. If you feel ashamed or if you fear being called a "flag-waver" or a "square" for showing outwardly your respect for your country, then you are in the wrong company. And you may be quite sure that if there had not been enough men before you who were openly proud of their country and its symbols, you would never have heard or seen "The Star-Spangled Banner." Think it over.

(AFPS)



NEW OPERATION ON LINE—Kelly F. Prady, Assistant Director for the newly-organized Systems Operations of the Procurement and Production Directorate at the Missile Command, points out the functions of industrial managers to some of the key people of his organization. Standing behind Prady is Lt. John Pittman, Chief, Value Engineering Office. Seated, from left to right, are: M. E. Ray, Chief, Quality and Reliability Engineering Division; Mrs. Mary Wilkerson, Chief, Administration and Operations Office; Maj. R. H. Newell, Chief of Industrial Managers, Air Defense Systems; Edwin Kellis, Chief, Industrial Engineering Division; and R. M. Hooker, Chief, Procurement Requirements and Programs Division.

Commodity Operations Is Now Systems Operations

The Commodity Operations of the Directorate of Procurement and Production has been reorganized at the Missile Command, effective this past Monday.

In making the announcement, Col. B. A. Saholsky, Procurement and Production Director, said the new organization is based on more of a functional concept. It now is known as Systems Operations.

The operation consists of three divisions and three offices. Each of 11 industrial managers has the primary responsibility, from the Procurement and Production Directorate point of view, to direct and manage a complete missile system. For the past several years, responsibility for the various weapon systems was divided among three divisions under the Assistant Director for Commodity Operations.

Col. Saholsky said there are at least four advantages to the new organization: (1) Greater inter-

change of technical data; (2) More assurance of program continuity from conception to phase-out; (3) More effective utilization of personnel; and (4) Standardization of system planning and execution.

Work in System Operations involves 23 missile systems. Of these, Redeye, Tow, and Shillelagh are Project Managed. The remainder are Commodity Managed. All effort of Systems Operations on the Project Managed Systems is under the direction and control of the cognizant Project Manager.

Kelly F. Prady is Assistant Director for Systems Operations, and W. C. Wall, Jr., is his deputy. George W. Scott has been appointed Chief of Industrial Managers Land Combat Systems, and Maj. R. H. Newell, Chief of Industrial Managers, Air Defense Systems.

Other supervisors under this new setup are: Procurement Requirements and Program Division, R. M. Hooker; Industrial Engineering

Division, E. Kellis; Quality and Reliability Engineering Division, M. E. Ray; Value Engineering Office, Lt. John Pittman; and Administration and Operations Office, Mrs. Mary Wilkerson.

Industrial managers and the systems each will handle are:

Land Combat Systems — W. S. Allen, Shillelagh; Lt. R. McEl-downey, assistant for Shillelagh; E. Waldrop, TOW; E. W. Ertl, anti-tank; T. A. Shrout, MAW, Honest John and Little John; and C. Andrews, new and old systems; R. M. Lewis, containers.

Air Defense Systems: — C. K. Bell, Redeye; W. I. Wilbanks, SAM-D; C. Mohn, Chaparral and new systems; R. Werden, Jr., multi-system test equipment; and R. Williams, target missiles.

COMING EVENTS CALENDAR

- Mar. 25—AUSA.
- Mar. 25—American Society for Industrial Security.
- Mar. 26—Reserve Officers meeting.



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LANCE

(Continued From Page 1)

Lance flight test was John A. Robins, Deputy Project Manager and John Thomson, Chief of Lance Test Division.

Among those at the reviewing stand were Maj. Gen. Frederick Thorlin, Commanding General of White Sands Missile Range, and Brig. Gen. W. C. Gribble, Director of Research and Development, Army Materiel Command.

Lance is being developed to fulfill the requirements for a highly mobile, versatile, accurate weapon system to replace the Honest John and possibly Little John rockets. It would complement division tube artillery and would extend the division commander's capability for nuclear and non-nuclear supporting fire.

In Lance, the Army sees the potential to combine the accuracy and range of a guided missile with the low cost and reliability of a free rocket.

The missile will use a new modified inertial guidance and control concept which was conceived and developed in the Missile Command's Directorate of Research and Development. It is the first Army missile selected to use pre-packaged, storable liquid propellants.

Major components of the missile include a warhead section, a guidance package, fuel tankage and an engine.

Major ground support equipment for the system includes a Self-Propelled Launcher, a fully mobile Lightweight Launcher and a Transporter Loader.

The entire firing unit is self-contained and self-sustaining on two tracked vehicles.

In airmobile operations, the lightweight launcher and missile can be carried into the battle zone by Army helicopters. They can also be carried on a fixed-wing aircraft and air-dropped by parachute.

The Army selected LTV as Lance prime contractor on Nov. 1, 1962. Work for development of the system is underway at the Michigan Army Missile Plant near Detroit.

NIKE-X

(Continued From Page 1)

against ICBMs and submarine launched missiles, has the nation's highest priority.

According to the Colonel, thousands of firms in nearly every state in the Union play a part in the Nike-X program, furnishing "everything from research to refrigeration."

"The development program is going much better in some respects than we had any reason to believe two years ago," he said.

Col. Bull told AFCEA members one of the big advantages of the Nike-X system was that it could engage numerous targets simultaneously.

April 9, 1963 — President Kennedy issued a proclamation conferring honorary citizenship on Winston Churchill.

DEFENSE

(Continued From Page 1)

bilities. 2) Emphasizing the role of operations research in the improvement of military operations. 3) Bringing Army operations analysts up to date on new technological developments in operations research. 4) Increasing the applicability of results obtained in operations research studies.

In keeping with the theme of the symposium, cost effectiveness will be a much discussed topic.

"What it amounts to," an Army spokesman said, "is how can the Army get the most for its money? As a result, all new proposals for missile systems must have cost effectiveness performed on them."

"Actually, a new system must do either of two things: it must fill a gap that exists or it must replace an old system. To replace a system already in existence, it must do the same job with higher effectiveness or with less cost. We have always had this policy but we are putting greater emphasis on this phase of management."

During the three-day session, a series of technical papers will be presented on subjects ranging from personnel casualties to medical and special warfare operations.

Emery L. Atkins of the Missile Command's Directorate of Research and Development is chairman of the symposium planning committee.

JUNGLE

(Continued From Page 1)

Col. Donald C. Blackburn, who is director of special warfare at Department of the Army headquarters in Washington, will address the meeting at the Redstone Arsenal Officers Club, according to Maj. Gen. John A. Barclay (USA, Ret), president of the local chapter.

The Army defines counterinsurgency as all military, political, economic, psychological and sociological activities required to defeat those trying to overthrow a duly established government.

Gen. Barclay said all members of the Tennessee Valley Chapter, enlisted commissioned and civilian, are invited to attend the dinner at 7:30 p.m. and "dutch treat".

Col. Blackburn at the outset of World War II was serving in the Philippines. He escaped to the jungles at the fall of Bataan and formed a guerrilla force that eventually totaled 20,000 men and resisted the Japanese throughout the war.

His recent assignments include service as a senior adviser in a Vietnam military region. He is co-author of the book "Blackburn's Headhunters" and has personally written numerous professional and popular articles on guerrilla warfare.

Daily bulletins at the various agencies at Redstone Arsenal list names of persons in charge of ticket sales.

April 23, 1945 — Delegates of 46 nations met at San Francisco to organize a permanent United Nations.

April 29, 1957 — Secretary of the Army Brucker dedicated Army's first nuclear power reactor at Fort Belvoir, Va.

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Electronics Detect Multitude Of Danger Areas

Editor's Note: Beginning a new series, The Rocket staff introduces its readers to a sister subcommand under the Army Materiel Command—the U. S. Army Electronics Command (ECOM).

Scientific and technical developments in the U. S. Army Electronics Command and the Army Materiel Command's Project Manager Offices headquarters at Ft. Monmouth, during 1964 ranged all the way from methods of spotting incipient forest fires to making a rugged one cubic foot atomic clock.

These efforts are in direct support of the U. S. Army's mission in Viet Nam or the long range planning for the Army's other needs in this complex and fast-changing world situation.

The U. S. Army Electronics Command is one of the seven major subcommands of the U. S. Army Materiel Command, which has more than 200 installations and activities and is serviced by 172,000 military and civilian personnel. AMC develops and produces the Army's hardware—developing, producing, supplying, and maintaining weapons, equipment and other materiel for the Army. It operates under an annual expenditure of approximately nine billion dollars—three billion more than the entire national budget of Canada.

Aim: Strengthen Security

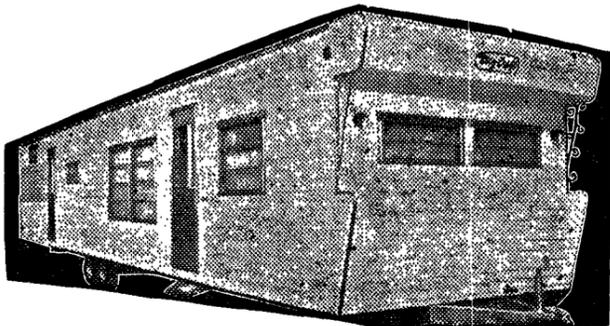
Except in those cases in which assistance was lent to another Government organization, such as the forest fire detection, every bit of developmental effort was aimed at just one objective—strengthening our national security.



MULTITUDE OF CHANNELS—The new AN/PRC-25 man pack radio, developed through USAECOM, is being distributed world-

wide to Army elements. This FM set, with a 920 channel capability, eventually will replace the AN PRC 8, 9 and 10.

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The Electronics Command seeks

constantly to aid the soldier by giving him better communications, by allowing him to "see over the next hill"—the one he is supposed to wrest from the enemy—and by making his electronic equipment always smaller and more reliable.

Over-the-horizon vision for the Army took a tremendous step forward when the MN-58A. OVERSEER Airborne Surveillance System, successfully underwent its first complete tactical exercise conducted by troops rather than engineers and technicians.

Overseer

OVERSEER is an accurate target location system, employing unmanned aircraft and various sensing devices, such as radar, infrared, and cameras to pinpoint battlefield targets and instantaneously relay the information back to field commanders.

In a related area ECOM announced completion of a Tactical Image Interpretation Facility, the AN-TS-243 (TIIF), that uses a computer to extract and interpret useful information obtained from films of aerial cameras, infrared imagery, and airborne side-looking radar.

The TIIF presents collected information on a photo viewer, and the viewer display feeds into the computer for immediate readings

of such vital data as map coordinates, actual road lengths, and target distances. Mounted in an expandable van, TIIF can be moved to any location available to Army vehicles (courtesy of AMC's Mobility Command), from front-line command post (forward edge of battle area—FEBA) to field army headquarters.

Atomic Clock

Other development projects are the new rugged, lightweight tactical atomic clock; a scaled down reactor to generate hydrogen from hydrocarbons to provide fuels for fuel cells, and greatly expanded use of solar cells for the generation of electricity in the field.

The new atomic clock is the first time and frequency standard—an item as essential in the space age as a watch is to a railroad conductor—that is both small and rugged. It can be roughly treated and maintain its accuracy of one ten-billionth of a second, and is portable—about a one-foot cube.

Fuel For Cells

Since hydrogen is still an essential fuel in most fuel cells—devices that create electric power through flameless chemical conversion of fuel generation of hydrogen from normal hydrocarbon fuels is desirable for field use. The Electronics Command device

being developed provides this capability.

In the same area, new arrays of solar-cell panels can convert sunlight into electricity for use primarily in isolated areas and during emergencies brought about by failure of other power sources.

In at least two instances ECOM work carried on the long history of general benefits to America's civilian progress directly from military developments. In one, the Electronics Laboratories, a major ECOM directorate, cooperated with the U. S. Forest Service and Civil Defense to develop a method of detecting incipient—starting—forest fires.

Infrared Detectors

Essentially the fire detection system consists of installing ultra-sensitive Army infrared detectors in aircraft that fly over forest areas. These detectors can spot the heat from as-yet undetected fires smoldering beneath the forest floor and camouflaged by leaf cover.

The command also came to the assistance of the Boy Scout annual Jamboree at Valley Forge, Pa., last year. A mobile Army meteorological radar, developed at Ft. Monmouth, was set up at the campsite to provide weather warning service. (See ELECTRONIC on Page 5)



LIGHT BEAM YARDSTICK—Military enlisted member of USAECOM R&D team field tests an experimental prototype of a portable laser-rangefinder developed by the ECOM Laboratories.

ELECTRONICS
(Continued From Page 4)

vice for the more than 50,000 Scouts attending. It was manned by ECOM civilian personnel, as well as Scouts, who were trained in radar weather detection techniques.

Also in the meteorological area, experiments were carried out by ECOM scientists as to the feasibility of using cloud-seeding techniques, usually rainmakers, to prevent rain in areas where it normally would fall.

Digital Network

The UNICOM-STARCOM Project Manager added to his many developmental and operational military communications responsibilities the direction of installing the Defense Department's automatic digital network, AUTODIN, to provide the military forces with world-wide teletypewriter and high-speed digital communication. The \$31,381,167 AUTODIN contract was the largest ever let by the Electronics Command.

Another field in which ECOM is a pace-setter — Space communications — came into public attention again last year, when duplicates of SCORE and COURIER, the world's first communications satellites with powered relay equipment, were presented to the Smithsonian Institution in Washington, for permanent display.

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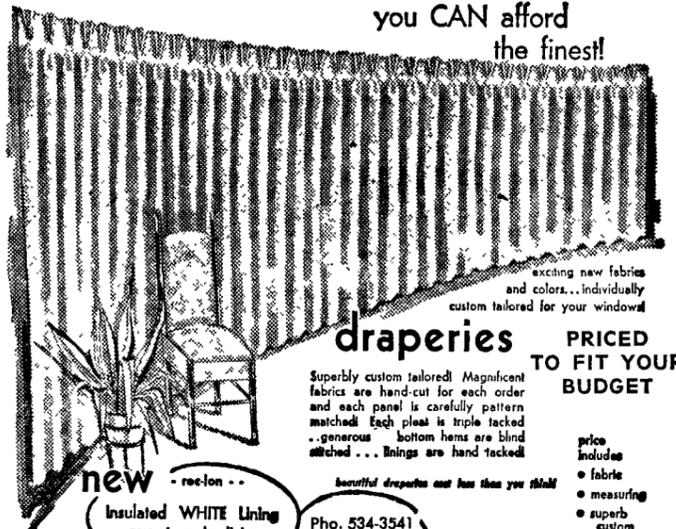
JEEP PHOTO TRANSMITTER—Military inter-service cooperation has produced this new lightweight photo transmitter that allows forward area troops to flash charts, maps and drawings to combat headquarters. The new device, the smallest of its kind ever built, was developed by the U. S. Army Electronics Command for use by U. S. Marines on reconnaissance missions. The set is tested in simulated combat situation by Marine Sgt. E4 John W. Scott, who slips map into transmitter, and Marine Sgt. E5 Joseph T. Fitzgerald, Jr., who has established radio-telephone contact with distant receiving station.



SQUAD RADIO—Subject of extensive evaluation studies is ECOM's "squad radio," designed to keep the squad leader in constant communication with his team mates. Shown during field testing is the AN/PRR-9 receiver and the AN/PRT-4 transmitter.

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It is easier to understand what the Weapons Command is and what it does if you think of it as having the Army franchise for the design, development, and procurement of weapons—other than missiles—for the nation's defenders—U.S. Army, Navy, Marine Corps, Air Force, and Military Security Pact nations.

In brief, AWC (Army Weapons Command) is responsible for 90 percent of those weapons currently issued to user personnel in Army tactical units. It must provide modern weapons second to none—lethal, light, mobile, reliable and rugged. It must do this at the lowest possible price.

AWC is one of the seven major subcommands of the U. S. Materiel Command, headed by Gen. Frank S. Besson, Jr., with headquarters in Washington, D.C. AMC consists of a network of more than 200 military installations and activities engaged in developing, producing, supplying, and maintaining weapons, equip-

ment, and other materiel for the Army. It operates under an annual expenditure of approximately nine billion dollars—three billion more than the entire national budget of Canada. AMC employs 18,000 military and 154,000 civilian personnel.

Included in the mission of the 12,000-member (135 military personnel) AWC are such weaponry items as tanks, rifles, machine guns, mortars, recoilless rifles, grenade launchers, helicopter armament, towed and self-propelled artillery, personnel carriers, and combat vehicles. The Command also provides the fire control (aiming) equipment, tools, kits, and spare parts which make each weapon a complete operational system. The AWC budget is close to one billion dollars.

The Command is a veritable department store for weapons—rifles, machine guns, the 40mm grenade launchers so highly valued by U.S. Army and Viet Nam soldiers—artillery large and small,

towed or self-propelled—combat vehicles from the fast armored personnel carrier to the Main Battle Tank—and the first missile-firing Sheridan/Shillelagh vehicle.

In addition to the military services of the United States, AWC also does work for the U.S. Atomic Energy Commission. It rebuilds weapons for shipment to allied nations participating in the Military Aid Program.

Many task areas are involved in accomplishing the primary AWC mission. Among the most vital of these are the basic applied research activities that AWC—in conjunction with its arsenal laboratories, those facilities of educational and non-profit institutions, and of private industry—conduct in fields relating to their products. AWC fulfills Army-wide research responsibility for metallurgicals, packaging techniques, corrosion preventatives, heat-resistant materials, and lubricants.

The Command is structured along functional lines. Its

three arsenals have a cumulative total of more than 420 years of weapon building know-how.

Rock Island Arsenal (Rock Island, Ill., AWC headquarters) is the command installation with the professionalism in artillery and tank mounts, and recoil mechanisms for towed and self-propelled artillery. Also, tank and howitzer overhaul.

Springfield Armory (Springfield, Mass.) houses the experts in the business of helicopter armament, rifles, pistols, machine guns, and grenade launchers.

Watervliet Arsenal (New York) is the AWC organization you would contact if you wanted to know about gun tubes, and components, mortars, or recoilless rifles.

Each arsenal has laboratories for weapons research and model shops to make experimental pilot models. They also have their production engineers and quality assurance specialists to prepare the technical data packages and to es-

ablish pilot production lines for making production techniques helpful to industry in the mass production of the weapons.

At the Weapons Command are four Materiel Command-designated project managed weapons systems. They are set up under the project manager system because of criticality, urgency, complexity, sensitivity, and high dollar value. These four weapons categories are: (1) the Sheridan—an assault vehicle firing either a guided missile or a conventional round from the same tube; (2) Rifle Programs; (3) M-60, M-60A1 and M-48A3 Tanks; and (4) combat vehicles.

The Command has one goal: to give the soldier in the field the finest possible equipment with which to survive a battle and defeat the enemy.

Brig. Gen. Roland B. Anderson, AWC CG, said:

"We are constantly performing research and development work in the field of weaponry. In much the same (See FIREPOWER on Page 7)



IN KOREA—M-48 tanks with their heavy guns trained against a mock enemy in a training maneuver represent the mating of weapons and carriers—the basic concern of the Army Weapons Command which controls the research, development and production of all weapons except missiles.

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12	209.06	165.04	119.45	70	\$2004.75	\$1778.92	\$1181.00
14	245.39	192.55	139.39	100	2600.00	2156.59	1396.30
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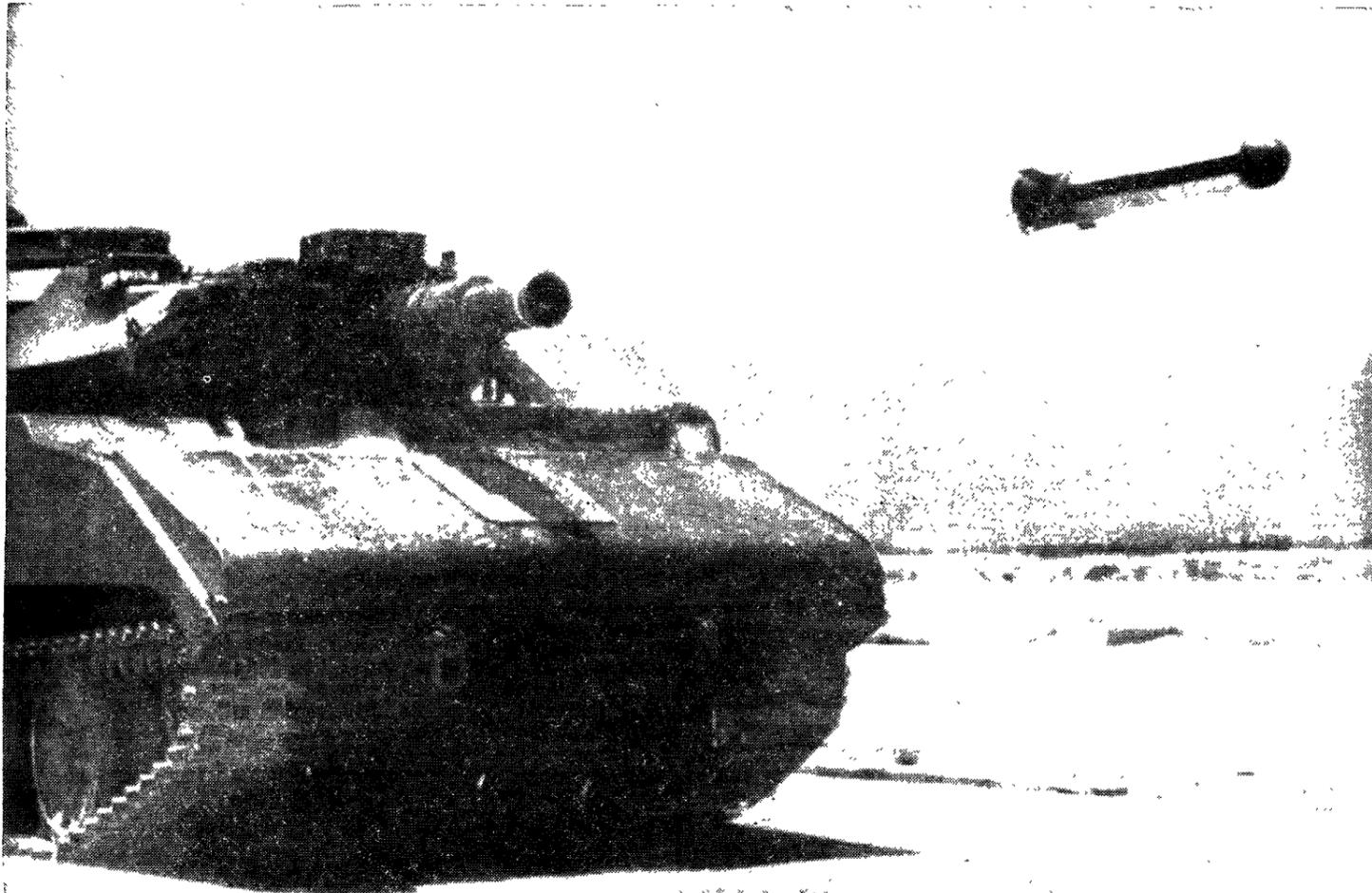
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ON U. S. MISSILE RANGE—The Weapons Command's Sheridan fires the Missile Command's Shillelagh missile during a test of the

new missile's capabilities. The Sheridan system can fire either the Shillelagh Missile or conventional ammunition.

FIREPOWER

(Continued From Page 6)

way, industry must stay abreast of the times. I think Korea proved the requirement for industry's preparedness.

"Today we speak in terms of 'weapons systems.' For instance, we just don't speak of a 'Davy Crockett' gun, but rather a 'Davy Crockett' weapon system, including a recoilless gun, a nuclear round of ammunition, and spotting rounds. The M60A1 Main Battle Tank is another example. We're

not concerned only with its 105 mm gun, but the entire system: The full-tracked, low-silhouette vehicle, and its extended range and firepower—its fire control, engine and transmission."

Rock Island Arsenal the Command's home, continues to be in the forefront of contemporary military events. Its reputation for quality military equipment is known wherever weapons are made. Its know-how in meeting the demands of rapidly advancing military technologies has merited its continued designation as one

of the key installations in the nation's defense establishment. Rock Island also is the home of the Defense Surplus Sales Office,

Industrial Security Is Meeting Tomorrow Night

The March meeting of the North Alabama Chapter of the American Society for Industrial Security will be held Thursday at 6:30 p.m. at the Holiday Inn East.

Timothy J. Walsh, the President of the Society, and Security Manager with the Sperry Gyroscope Company, Great Neck, Long Island, will be the guest speaker. Walsh's topic will be "Industrial Security in the Space Age."

Walsh has a B.A. degree in Political Science from Fordham University. He is a law graduate of St. John's University, Brooklyn, and he has a degree in Labor Law from New York University. He has also studied at the Industrial College of the Armed Forces, Washington, D.C.

Walsh currently lectures on Industrial Security at New York University's Management Institute and has lectured at Purdue and Michigan State. He has also acted as an instructor in Soviet Political Propaganda at Fordham University. He has presided at industrial security workshops for the American Management Association and written widely for professional publications.

Lt. Col. Francis Wilkie, U.S.A.F., Security Director, Air Force Eastern Test Range, Patrick Air Force Base, who is vice president in charge of the Southeast region will accompany Walsh.

The North Alabama Chapter Officers are James C. Lynch, chairman, Intelligence and Security Division. A.M.S.C., Leo Brookshire, vice chairman, security director, Thiokol Chemical Corp., and Jack Hartlein, secretary-treasurer, Marshall Space Flight Center. Reservations may be made by calling 876-2009 or 876-3097 and after 5 p.m. 881-6562.

U.S. Army Management Engineering Training Agency (AMETA), an AMC activity originally set up by President Truman to improve Federal Government management practices; AMC Installations and Services Agency; and the Production Equipment Agency (PEQUA) of AMC, which is the central point of contact for technical assistance, engineering assistance, and the consultative services for all Army Materiel Command elements.

STRAC Is Out

Fort Monroe, Va.—The term "STRAC," long used to describe the dual-corps force which makes up the United States Army Forces STRIKE Command, has been replaced by the more specific term "ARSTRIKE."

The Strategic Army Corps (STRAC) was created in 1958 to provide the Army with the capability for immediate and effective response in an emergency. Originally a light, three-division force, it now contains two tactical corps, eight combat divisions, and additional combat and support units.

After the United States STRIKE Command came into being in 1961, to broaden the nation's response capability, its Army element, ARSTRIKE, took over direction of all STRAC forces. The term "ARSTRIKE" specifically denotes the present status and mission of these forces and replaces the former term "STRAC."

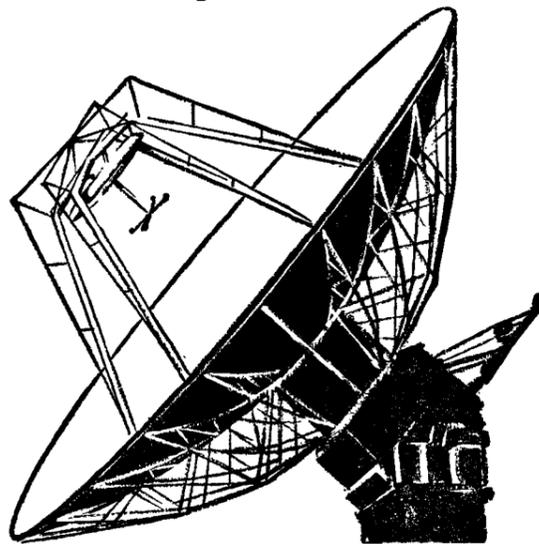
The ARSTRIKE forces, headed by Gen. Paul L. Freeman, Jr., USCONARC/ARSTRIKE Commander, are controlled by either the XVIII Airborne Corps or the III Corps. The XVIII Airborne Corps, at Fort Bragg, N. C., controls the following divisions: the 82d Airborne Division, Fort Bragg, N. C.; the 101st Airborne Division, Fort Campbell, Ky.; the 2d Infantry, Fort Benning, Ga.; and the 1st Infantry, Fort Riley, Kan.

The III Corps, at Fort Hood, Tex., designated as part of STRAC in 1962, exercises control over four additional ARSTRIKE divisions: the 4th Infantry, Fort Lewis, Wash.; the 1st Armored, Fort Hood, Tex.; the 2d Armored, Fort Hood, Tex.; and the 5th Infantry Division, Mechanized, Fort Carson, Colo.



IN VIET NAM—A Republic of Viet Nam soldier holds an M-16 rifle while he investigates a river sampan for concealed Viet Cong. Gas operated, the rifle fires a 20 round box magazine either full or semi-automatic. The 55-grain k.222 bullet has a muzzle velocity of 3,250 feet per second. Designed by Armalite Inc. the rifle is manufactured by Colt.

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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

Above payments include principal and interest. Life Insurance is available at group rates on loans above \$100.

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	\$40.05
1500	137.80	72.80	59.80
2000	181.96	96.13	78.96

Payments above include principal and loan charges if repaid according to schedule, but do not include life and disability insurance, available at group rates.



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SOCIAL ^{and} CLUB EVENTS

Mrs. Robinson Honored

Mrs. Robert A. Robinson, Jr., was honored by wives of officers at the Ordnance Guided Missile School at a brunch in the Redstone Officers Open Mess yesterday.

Lt. Col. Robinson, former executive officer at the School, is scheduled to leave for Korea soon.

The brunch carried an Alabama theme in the table decorations—depicting places of interest

throughout the State. A film highlighting various Alabama cities was shown.

Mrs. Verne C. Wolfe and a committee arranged the March meeting of the group.

Competition Keen At Monday Bridge

The Monday night bridge group had nine tables in play at the Redstone Officers Open Mess last week with Robert Provost scoring as first man and Mrs. Robert Newell as first woman.

Runnersup were Lt. Tuncer Boran and Mrs. Donald Morgan.

Reservations to play with the group are handled by Mrs. R. U. Scott, 772-3273.

COFFEE IS APR. 1

Wives of officers assigned to the Army Missile Support Command will hold a Coffee on the patio at the quarters of Col. and Mrs. Thomas W. Cooke at 10 a.m. Apr. 1.

Reservations are being handled by Mrs. R. E. Lees, 877-4757 and Mrs. E. J. Kidd, 877-5061 and will be accepted until noon Friday, Mar. 26. Cancellations will remain open until noon Monday.

Members are being urged to bring favorite recipes.

'Carousel' To Be Presented By Community Chorus

Carousel will be presented by the Huntsville Community Chorus at the Huntsville High School Mar. 26-27 at 8:15 p.m. and Mar. 28 at 2:30 p.m.

The chorus will be backed by a volunteer orchestra, many of them members of the Huntsville Civic Symphony.

Kenneth Turvey is directing the music, Jay Fryman the stage action. One of the principals, Billy Bigelow, will be played by Capt. James E. Oakes, III, a member of the Nike-X Project manager staff. Other leads in the show will be Margaret Bacon, as Julie Jordan, Grace Moore as Carey Pipperidge, John Welsh as Enoch Snow, Florence Goodrich as Mattie, Bill Luce as Jigger.

Choreography is directed by Shirley Hoffman with Margaret Wirkman and Charles Goodrich as two of the principal dancers. Staging calls for many children in addition to the adult chorus.

Mrs. Saholsky Wins At Bridge

Mrs. B. A. Saholsky was winner at bridge Thursday, playing with the group sponsored by the Redstone Arsenal Officers Wives Club at the Open Mess.

Second high was Mrs. W. R. McCollum with Mrs. George Dunlap third. Mrs. A. J. Matthews was low. Eight tables were in play.

Mrs. Matthews handles reservations to play with the group. Her phone number is 536-9958.

Three Supply Men Graduate

Three Missile Command civilian employees will be among those graduating from the Army Supply Management course at the U. S. Army Logistics Management Center, Ft. Lee, Va., on Friday.

The three, William Thomas and Robert Griffin, of the Supply & Maintenance Directorate, and Harry Slye of the Pershing Project Office, were enrolled for the 12-week course under the career development program administered by the Training and Development Division of Civilian Personnel.

The Army Logistics Management Center is the Department of Army's only postgraduate level school for logistics managers. It is a field activity of the Army Materiel Command.

The Army Supply Management course is one of 16 offered at the Center. Other courses on the curriculum are in the areas of procurement, general supply, surplus property disposal, depot operations and inventory management.

SAFETY TIP—Don't mix bleaches with cleansers for ovens, lye and such. Noxious gases can be released by injudicious mixing.

At The Service Club

By BETTY HAYES

Are you afraid to join your friends on the dance floor because you haven't had the chance to brush up on the latest dance steps? If this is true, come out tonight and learn the special techniques to the popular dances at 8 p.m.

On Thursday evening the main lounge will be reserved for hearts and pinochle players at 7:30 p.m. If we have enough to participate

VOLUNTEERS COFFEE

Red Cross Volunteers at Redstone Arsenal will hold a Coffee in the Redstone Room of the Redstone Officers Open Mess at 10 a.m. Monday.

Mrs. Roy Hammond is accepting reservations until noon, Friday. She said that all Volunteers should wear their uniforms and white gloves for the event, and added that all Volunteers are cordially invited to attend. Her phone number is 877-5953.

in these two popular games, prizes will be given to the champions for the evening.

Sign up now in the Service Club office for the post-wide table tennis tournament which will be held on Friday and Saturday evenings at 7 p.m. The units on Post are entitled to enter as many men as they wish in the tournament. A trophy will be awarded to the winner.

Coffee time is scheduled for Saturday afternoon at 3:30 p.m.

Coffee and donuts are also scheduled for Sunday morning at 9 a.m.

Our Disc Jockey promises to spin your favorite records for the March Wind Swing on Sunday at 8 p.m.

Join us in the main lounge for an evening of games on Monday March 29, at 8 p.m.

Would you like to learn the fundamentals of bridge? Molly will give instructions on the game on Tuesday, Mar. 30, at 7:30 p.m.

Pfc David Wiltzie, 2nd ETC, and Pvt. Gale Kimsey, 2nd ETC, were the winners of the March pinochle contest.

See you at the Service Club.

Reserve Officers Will Hold Election

The Huntsville Chapter of the Reserve Officers Association will meet at the Redstone Officers Open Mess Friday at 6:30 p.m. for dinner and election of new officers.

J. V. Klima will report on activities at the mid-winter National Council Meeting in Washington, D.C. Congressman Mendel Rivers of South Carolina was the principal speaker at that meeting. He is sponsoring a military pay raise bill.

John L. Edgar, outgoing president, announced the new officers will also be installed at this meeting to which ladies are invited.

Reservations are handled by Hubert T. Tatum, 876-7114; C. F. Shields, Pete Redding, 876-1410; J. V. Klima, 876-0264 and John Graham, 876-4138.

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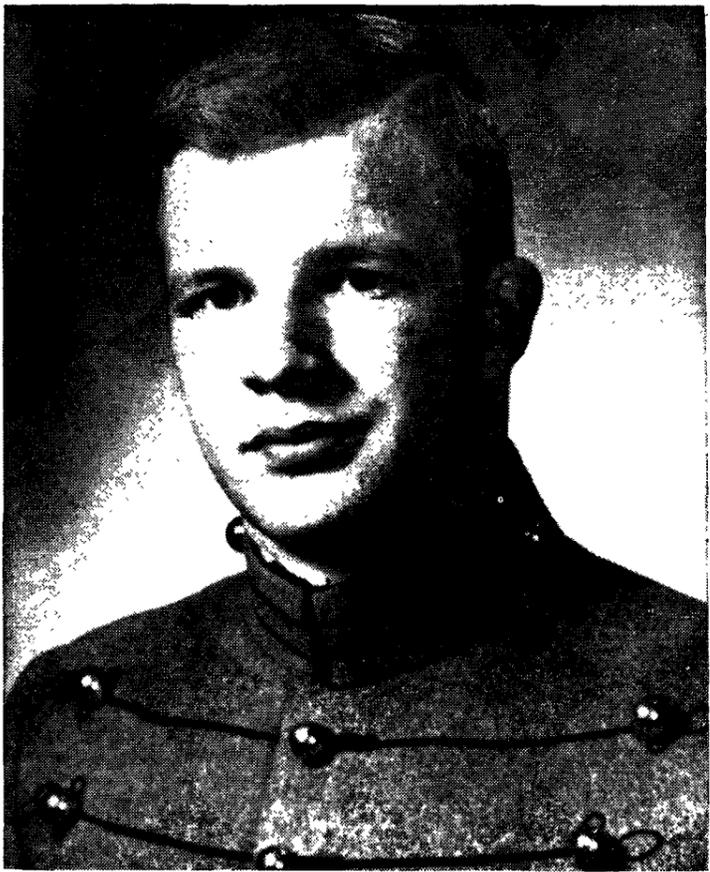
Spring's fashion look of gentle femininity means hair must have a natural body . . . get that look now with one of our new soft waves.



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WEST POINT CADET—Thomas W. Ewart, son of Mr. and Mrs. Wade H. Ewart Jr., Huntsville, visited here early this week and met with parents and students interested in the U.S. Military Academy at West Point, N.Y. In addition to speaking at local high schools, the cadet toured RSA and visited with Maj. Gen. Zierdt and Col. William J. Macpherson, OGMS Commandant.

Job Freeze Is Extended

WASHINGTON (ANF) — The freeze on permanent appointments to wage board positions in the Department of Defense in the U. S. has been extended indefinitely by Secretary of Defense Robert S. McNamara. Limitations on the hiring of "white collar" employees to the minimum required for essential operations are also continued. The action is designed to make substantial additional job opportunities available to employees affected by base closures and reductions.

The freeze, initially imposed on November 20, 1964, the day following the announcement of an

additional 95 actions to consolidate, reduce or discontinue Department of Defense activities, was due to expire February 28 in the absence of further instructions. In his memorandum issued February 17, Secretary McNamara extends the freeze and requires that a maximum effort be made through continuing activities in DoD to fill positions on a permanent basis with employees at bases being closed, and with employees scheduled for separation by reductions in force or failure to accompany transferred functions.

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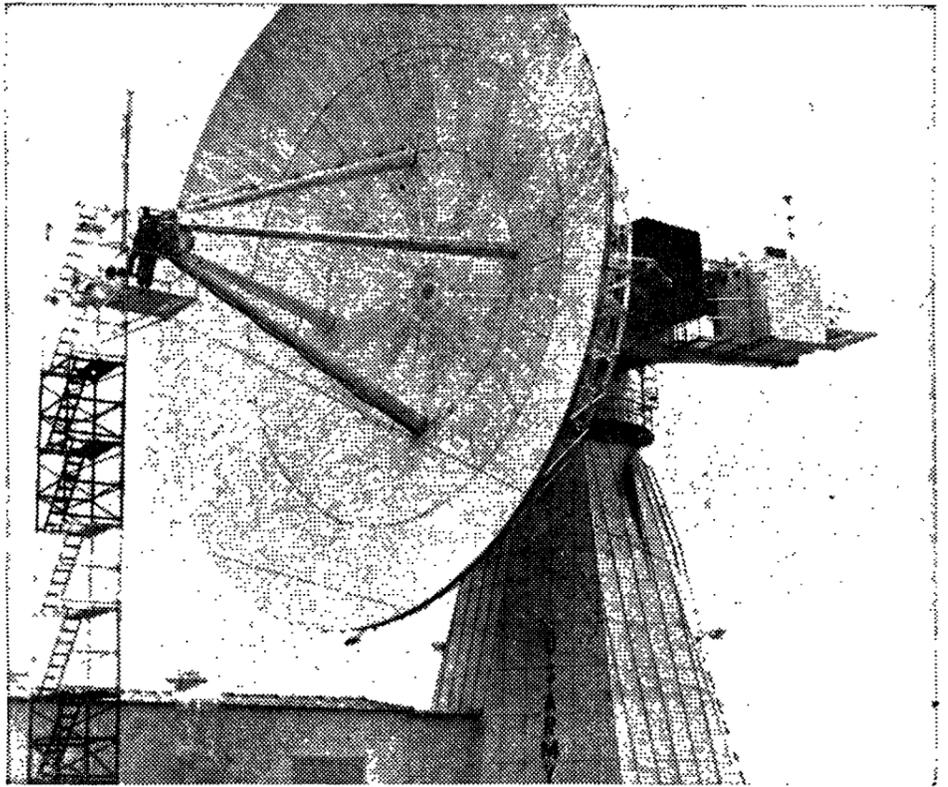
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BIG DISH—ANTENNA, is part of a transportable ground satellite communications station located at Camp Roberts, Calif. A similar station is in operation at Ft. Dix, N. J. Both stations are terminals for SYNCOM, the synchronous communications satellite. The satellite, synchronized with the motion of the earth, appears to hang suspended in the sky at a point some 23,000 miles above the equator. The U. S. Army Strategic Communications Command, a major Army field command, has the responsibility of installing and operating these stations.



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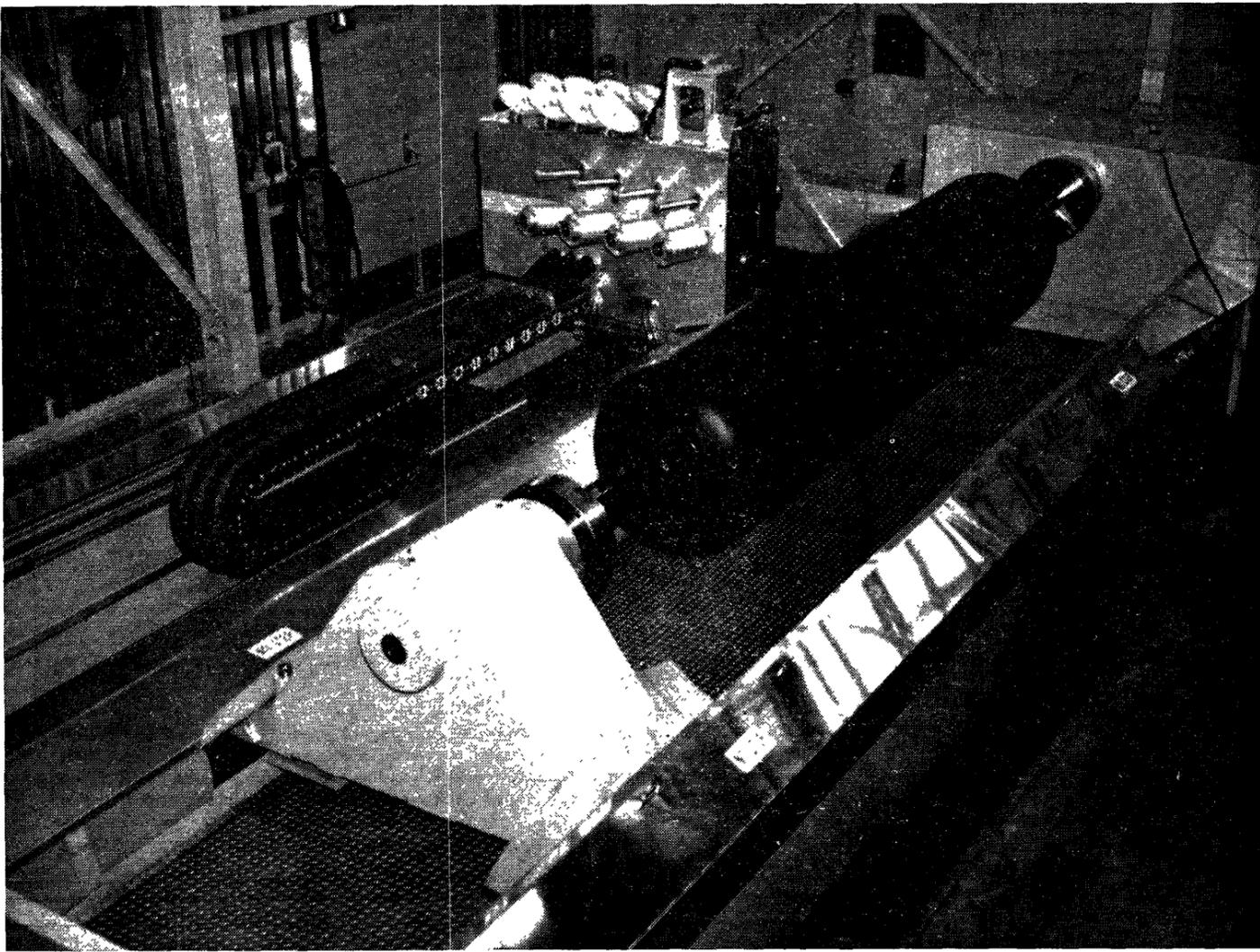


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Thiokol Filament Winder Could Wrap Fancy Gifts

Thiokol Chemical Corporation-Huntsville Division this week demonstrated its newly installed filament winding equipment to approximately seventy visitors from industry, the Army Missile Command, and NASA's Marshall Space Flight Center.

The only machine of its type in the southeast, and one of only thirteen similar machines in the country, the equipment is unique in many of its innovations. It is explosion proof and is capable of wrapping any surface of revolution (cones, spheres, cylinders, etc.)

from 8 to 60 inches in diameter and up to 216 inches in length.

Fully automated to insure responsibility and high reliability of finished components, the equipment is punch-tape controlled, and hydraulically actuated.

It will wrap either wet or pre-impregnated fibers. The numerically controlled, hydraulically actuated equipment eliminates the disadvantages inherent in mechanically actuated equipment using cam, gear, or sprocket drive systems. It can fabricate rocket motor cases by winding on mandrels of a compliant material such as composite propellant grains, and also on conventional rigid mandrels.

Maximum winding speed is 200 feet per minute, and the typical winding time for a motor similar in size to the first stage Pershing motor would be 12 hours.

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Page 10 The Redstone Rocket — March 24, 1965

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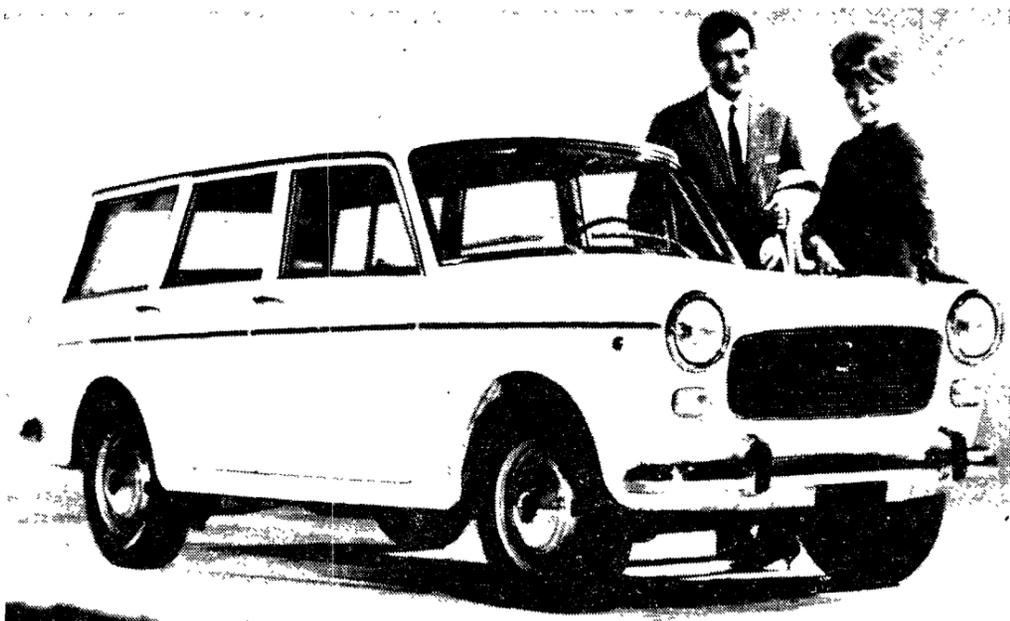
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2217 LINDE ST., NW—Select your colors now in this new all brick home in well established section. Price of \$17,350 includes 3 bedrooms & den, 1 and 3/4 baths. Tappan range and oven. May be purchased FHA or VA.

3901 VOGEL DR.—NW. Equity sale with lovely pecan trees on corner lot. Has large 3 bedrooms with ranch styling. Purchase equity of \$2,000 and assume payments of \$119.40.

354 JACK COLEMAN DR., SW—Only 2 blocks to Jordan Lane and Holmes Ave. is this new 3 bedroom home almost completed. Price \$15,900 on VA or FHA loan.

2007 CHAMBERS, NE—Only minutes to HIC Bldg. from this old brick home, four years old. Has 3 bedrooms and paneled den, chain link fenced back yard. Gov. appraisal price \$18,225. May be purchased for \$350 closing on VA or \$1175 down payment and closing on FHA.

1912 ROSALIE DR., NE—If you would like a 2 car carport and garage, paneled family room and separate den, living and dining room, 3 large bedrooms, 1 and 3/4 baths, range, oven, dishwasher, laundry room, forced air heating and air conditioning. Only 2 blocks to elementary and Jr. high schools . . . then you should see this home under construction. Price \$25,000. May be purchased on conventional terms.

3613 PURDY DR., NW—Lovely 3 bedroom rock faced brick home. Entrance foyer, living & dining combination, built-in kitchen and family room combination, 1 and 3/4 ceramic tile baths, attached garage. Can be purchased on VA for only \$200 closing cost. FHA \$900 down plus closing. \$19,100.

2303 DOGWOOD LANE, NW—\$1000 less than appraised price. 3 bedroom home (1 paneled in ponderosa pine for den), large living room, dining room, kitchen with eating area. Attached garage with separate storage compartment. Large lot with established lawn. Large trees on rear of lot. Purchase equity for only \$1400 and assume 4 1/2% GI loan. Walking distance of Highland School. Total price only \$16,500.

POPLAR DR., Meridianville, Ala. Large 3 bedroom brick home. Central air conditioning, sunken living room, fireplace, lovely equipped kitchen, large paneled den with bar, double car garage. One acre lot with trees. Financed conventional or VA. Only \$26,000.

3514 DELTA AVE., NW—If you are looking for a nice home in a growing neighborhood, don't miss seeing this one. 3 bedrooms, den, large carpeted living room, built-in kitchen, garbage disposal, refrigerator and drapes. Purchase equity for \$2200 and assume monthly payments \$119 including taxes & insurance. \$19,000.

ARDMORE HIGHWAY—Drive a little and gain a lot on these two nice homes on 1 acre lots. 3 bedrooms, 1 1/2 baths, family room-kitchen combination. 1 has garage and the other has carport. Conventional financing. \$14,500 and \$15,500.

POPLAR DR., Meridianville, Ala. Room for mother-in-law. Yes, this and more in this large 4 bedroom and den home. Large living room, fireplace, separate dining room, basement with fireplace. Double car garage. Air conditioned. Conventional or VA financing. Only \$24,950.

BILL PENNEY CATTLE FARM—190 acre cattle farm Modern 3 bedroom home. 6 room caretaker's home, 2 barns, tool shed. Watered by river and springs. Permanent pasture under good fence. Cattle and equipment can be sold with farm. Call for further information. A walk-in deal for someone.

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Nuclear Tests Handled Safely At White Sands

WHITE SANDS MISSILE RANGE, N.M. — Routine generation of a whole spectrum of radiations mark White Sands Missile Range's entry into the third decade of the atomic age in one of the safest environments for atomic testing in the world.

The Nuclear Effects Branch of the White Sands Missile Range operates pulsed neutron and steady state neutron generators, a gamma linear accelerator, and a fast burst reactor to test the operation of missiles and missile systems in a nuclear environment.

Nuclear Effects Branch technicians daily generate high energy radiations that duplicate an exploding atomic bomb—without the heat, blast and noise. A passer-by is in less danger from nuclear effects than he is from his fellow motorists.

When the safety criteria were established for radiation levels outside the reactor fence, they were calculated at 10 times the amount of natural radiation. Natural radiation is that which comes from cosmic rays and from the active compounds in the earth. If a person remained in the unrestricted area continuously for one week with the reactor operating, he would receive less radiation than that in two normal chest X-rays.

All this safety is achieved by conducting fast burst reactor operations completely underground, and by covering the site with a six-foot thick concrete roof weighing 1,150 tons including 37 tons of reinforcing steel. The operators are further protected by continuous checking of special personnel badges, recording film badges, and fountain pen size radiation detectors carried by every one entering or working in the reactor area.

Personnel visiting the White Sands nuclear effects facility must be logged in by the special guard. They must wear two film badges

and clip on a fountain pen size detector. Further safety is provided by the Health Physics Section whose personnel continuously measure the radiation levels in and around the various reactors and "read out" the exposure amounts from the workers' and visitors' film badges and pocket radiation detectors.

Interlocking concrete doors, warning lights, and klaxon signals are provided to assure that all personnel are clear of hazardous areas before the reactors are operated. A minimum of five feet of concrete and steel surrounds all reactor target areas. Closed circuit television is used to monitor the reactor areas which are not directly visible from the reactor control rooms to give one more safeguard against accidental radiation exposure to personnel or material.

The rotating red beacons on the

White Sands nuclear effects facility are visible evidence of highly trained Army scientists exploring and experimenting in the invisible world of the atom and its fascinating family.

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OGMS Makes Key Changes In Assignment

Key changes involving three high-ranking officers are announced by Col. William J. Macpherson, commandant at the Ordnance Guided Missile School.

Effective April 5, Lt. Col. R. C. Long, chief of the artillery Department in the Directorate of Individual Training at the School, will become the School Troop Commander.

He will replace Lt. Col. Charles E. Chapman who will become chief of the Office of Operations for the School on Apr. 15.

The changes were necessitated by the receipt of orders by Lt. Col. J. M. MacDonnell transferring him to Japan.

Col. Long, a native of Clymer, Pa., has been at the Missile School since early 1964. He served with Army in France before coming to the School.

Col. Chapman came to OGMS from Fort Carson, Colo., in July 1964 to assume the duties of School Troop commander. He has previously served in Germany and Korea.

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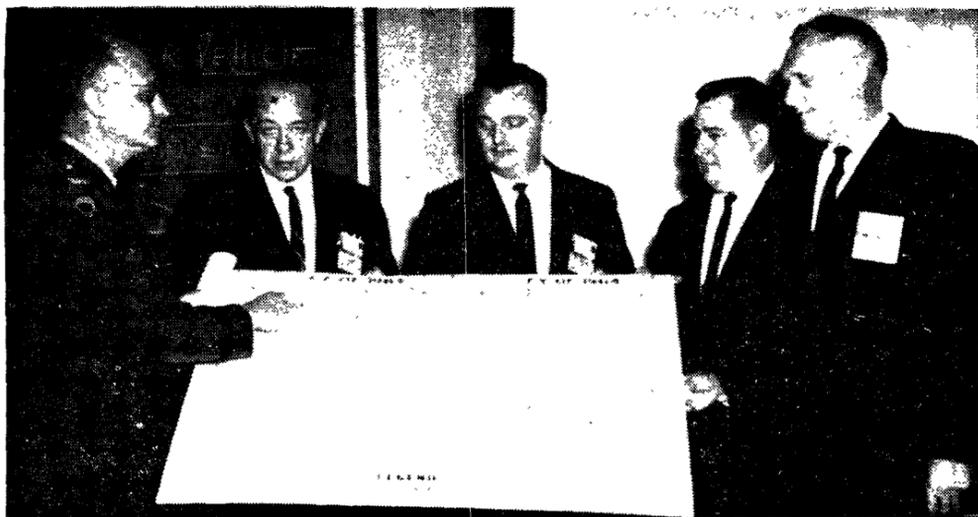
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MOTOR VEHICLE SAFETY—Col. William Luk, Provost Marshall, left, and four instructors look over a chart of Redstone Arsenal traffic accidents during a Motor Vehicle Safety Course. Approximately 76 people from the Missile Support Command, Missile Command and Ordnance Guided Missile School attended the March 15-19 course. The instructors, from the Army Materiel Command's Field Safety Agency, Charleston, Ind., are (from left to right): W. H. English, D. E. Osborn, C. K. Rachel and Gomer C. Sturgill.

When 'Oat Barrier' Fell Man Gained Real Momentum

A little over 25 years ago, man first crossed the "oat barrier"—today he's strolling in space and circling the earth in 80 minutes. This was the reminder of Col. Cecil P. Rice, chief of the Maintenance Division of the Third U. S. Army who spoke to 52 U. S. and German missile men at the U. S. Army Ordnance Guided Missile School here Friday.

Pointing out that rapid changes in missilery make it vital for missile maintenance men to keep up with new developments, Col. Rice traced the history of speed and weaponry stating, "For thousands of years man could travel no faster than horses could run—approximately 35 miles per hour. Paul Revere and Napoleon could travel no faster than Nero or Julius Caesar could travel in their times."

Rice said 35 m.p.h. was tops in speed until 1830 when the steam engine was developed and man had finally broken the "oat bar-

rier." "In 1910, the U. S. Armed Forces bought their first military airplane. The contract for this plane provided that it must do at least 40 miles per hour. During WWI the speed man could travel increased considerably as planes were improved".

At the onset of WWII, 200 miles per hour was considered to be as fast as man could travel, Rice said.

But by the end of the War, the U. S. began plans for a craft that would travel at mach I.

"For 49,000 years, man did not even approach the "oat barrier," he told the graduates. "Then all of a sudden we went through the sound barrier so fast it was just a mere incident on the way into space."

William T. Weissinger, U. S. Army Col. (retired) and vice-president of the Association of the U. S. Army presented AUSA plaques of excellence to Capt. Claude R. Ceccon of Elfreda, Ariz. and Pvt. Ebbie V. Shores of Silvercreek, N. Y.

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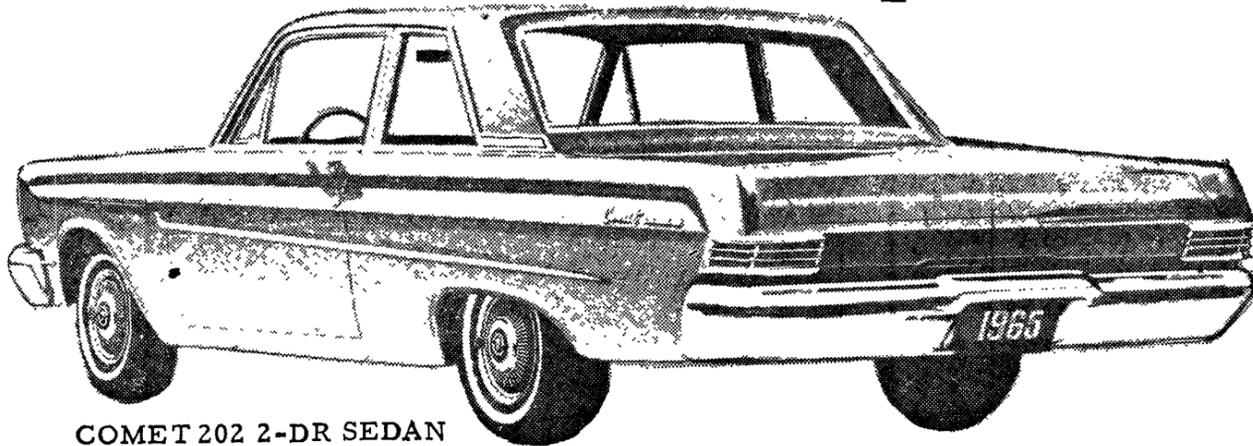
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Hawk May Go Under Cover

A modern version of the old fashioned balloon ascension took place Thursday at the Army Ordnance Guided Missile School. The balloon is a plastic shelter that was originally developed to provide all-weather protection for Nike-Hercules air defense bases anywhere in the world—jungles, deserts, polar regions or just wide open country. The Army Air Defense Command asked the Missile School to see if the shelter could also be used for the new Hawk Missile. Hawk is used by the Army and Marine Corps and by 17 other foreign countries. If the Hercules shelters could be used for the Hawk as

well, there would be important savings in money and time. Lt. Gary Hitt of the Office of Operations arranged for a big plastic balloon to be inflated with motor-driven air. In minutes, the big balloon was standing 20 feet high. Inside, a launcher with three Hawk missiles was elevated and slewed to simulate what would happen under combat conditions. The shelter seemed to do all that was required. Its adoption would be good news for thousands of the Army's missile men and all our Allies who stand guard 24 hours a day around the frontiers of the free world. Now they can come in from the cold—or the heat or the wind—and still be ready to launch their weapons at the first blip of a radar scope.

April 10, 1963 — The U.S. Atomic submarine "Thresher" sank in the Atlantic with 129 men aboard.

Welcome Mat

The ROCKET extends a welcome to the following civilian employees who have recently started employment with Army organizations at the Arsenal.

ARMY MISSILE COMMAND

Supply & Maintenance: Wanda A. Adams, Dara A. Carter, Gary D. Davenport, Verna M. Hasty, Armand Munoz, Nancy K. Smith, and Ben R. Thomas, Jr.

Procurement & Production: Marylynne T. Arwood, Aubrey A. Brazelton, LaTavne H. Haynes, Glenda Q. Jackson, Harry L. Kennedy, Jr., Rose H. Lamina, Aubrey G. Loftis, Milton A. Looney, Jimmie R. McAllister, Laura A. Matz, Richard P. Sharman, William B. Stepp, M. Ruth Strait and C. Arbutus Jones.

Research & Development: Heidi H. Garner, Rex M. Heck, and Edward E. Herbert.

Others: Judy M. Duvall and Robert M. Greene, both with General Counsel; Alice L. Bonds, Hawk

Project Office; Doris G. Click and LaVerne Y. Remo, Lance Project Office; Judy B. Edge, Redeye Project Office; Gladys M. Kubitza, Mauler Project Office; and Mary J. Rutledge, Special Assistants.

NIKE X PROJECT OFFICE

Johnie V. Jordan and John W. Long, Jr.

ARMY MISSILE SUPPORT COMMAND

Joseph H. Beumer, Patent Center; Patricia S. Carpenter, Civilian Personnel; Nettie T. Coleman, Sara J. Franklin and Olga S. Gren-

yo, all with Finance & Accounting; Donny R. Dreaden, Control Office; and Arthur F. Preib, Reproduction Division.

ORDNANCE GUIDED MISSILE SCHOOL

Frank S. Bowman, Jr. and Jeanette V. Kinney.

April 1, 1945 — American Armed Forces supported by a naval armada of more than 1400 vessels began the invasion of Okinawa, the largest of the Ryukyu Islands in the Pacific.

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Page 14 The Redstone Rocket — March 24, 1965

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

FOR RENT—TV's portables, UHF-VHF, by day, week or month. 1964-65 models. Ph. 536-9761 Central TV and Stereo Co., corner Governor's Drive and Parkway. Open 8 a.m. to 9 p.m. daily. Phone 534-8689. tfc

FURNISHED—1 or 2 bedroom apartments on dead-end street away from noise, yet very convenient to Gates 1, 8 and 9. Call 536-0775. tfc

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FOR SALE—1964 International Scout Station Wagon has approximately 17,000 miles, two gas tanks, two radios, two gun racks, cushion rear seats, boat hitch, four wheel lock drive, in real good shape will sell for approximately \$1,000.00 below list price when new. Call Cornelius Real Estate Company, Guntersville, 582-3027 or 582-5313. 3-24-C

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3. Miscellaneous

COIN LAUNDRIES AND DRY CLEANING—for sale or trade for land—located to service, many Arsenal employees. Excellent opportunity to invest savings profitably. Phone 837-4639 after 6 or 772-9190 except Sunday. 1-t-c

FOR SALE—BOAT-MOTOR-TRAILER, 16½ ft. Chris-Craft Plywood Boat (Fiberglassed) 70 h.p. Mercury 78E. Excellent Condition. Many extras: skis, preservers, top, etc. Phone 539-5073 or 532-1508. Or see at 2506 Bonita Drive. 3-24p

TOP NOTCH DANCE INSTRUCTOR WANTED Part time. 2 years teaching experience required. If qualified call for interview. Arthur Murray Studio, 536-9624. 3-31c

3½ HP OUTBOARD MOTOR—Old model but very good condition. Low time. \$29.00. Johnson Ranger Transmitter, very good condition, \$90.00. NC183D, \$125.00. Assorted radio goodies and junk. Jr. Huggins, 7609 Ensley Dr., S.W., 876-7346 or 881-5365. 1-t-c

TRAVEL TRAILER AND CAMPER—Rental reservations now being accepted for Spring and Summer. Madison Travel Trailer's, Corner Jordan Lane and Governors Drive. Phone 837-3882. 1-t-c

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William W. Malcolm, of the Research & Development Directorate; Max H. Danford, John A. Robinson, Lula C. Call, Evelyn D. Osborne and Catherine Q. Thompson, all of whom work in the Supply & Maintenance Directorate; Ernest K. Carlton, Jr., Redeye Project Office; Barbara E. Bryce, Air Defense Commodity Office; James H. Peacock, Procurement & Production Directorate; Dorothy L. Julich, Deputy CG, Land Combat Systems.

ARMY MISSILE SUPPORT COMMAND

Richard J. Tipton and Frances P. Baker, both with the Post Engineer; William J. Anderson, Frank M. Green and James S. Denk, Inspection Division; Berna Arendale Sanders, Post Hospital; Thomas J. Brewer, Calibration Center; James

B. Ellis, Assistant for Logistics; and Ruth B. Bachman, Troop Command.

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CLEMSON COLLEGE VISITORS—A group of staff and faculty members from Clemson College in South Carolina listens as Lt. Thomas M. Ellison briefs them on research and development facilities during a tour of the Army Missile Command last week. The 20 men also spent some time at the Ordnance Guided Missile School during the two-day visit.

Technical Seminar Opens In Huntsville On Apr. 2

"Practical Publications" is the theme of the fifth annual Technical Communications Seminar set for Apr. 2-3 in Huntsville.

The event is sponsored by the Huntsville Chapter of the Society of Technical Writers and Publishers.

Ten nationally known speakers in the fields of scientific and technical information processing, publications quality, technical writing and illustrating, and publications management are on the seminar program.

Mayor Glenn Hearn of Huntsville will give the welcoming address. The keynote address will be given by William J. Marks, Executive Secretary, AMC Equipment Manuals Council, Letterkenny Army Depot, Pa.

Other speakers include: Hyman Kana, Raytheon Co., Tom E. Spencer, Tec Productions, Inc., Melvin S. Day, NASA Headquarters, Washington, D. C.; Clark Thurston, Space Technology Laboratories, San Diego; Warren H. Deck, National Director, STWP, General Electric Company, Schenectady; Francis W. Hewes, Hayes International Corporation, Birmingham; Dr. James Brown, General Dynamics/Fort Worth; and Dr. Harold Wooster, Air Force Office of Scientific Research, D. C.

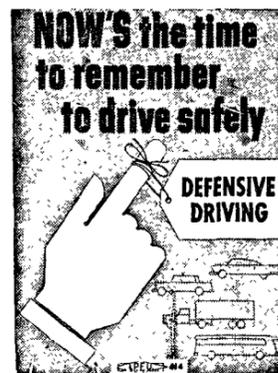
One highlight of the seminar will be on Friday night, April 2, when an awards banquet will be held at the Russel Erskine Hotel. At that time, the winners of the various categories of the Technical Art Show held in mid-March will be announced, with Erik Fris, Executive Director of the Arts Council in Huntsville making the presentations.

Guest speaker for the banquet will be Harry Lowe, Curator of Exhibits for the National Collection of Fine Arts of the Smithsonian Institution. He will discuss "What Makes the Difference in Art?"

Additional information can be

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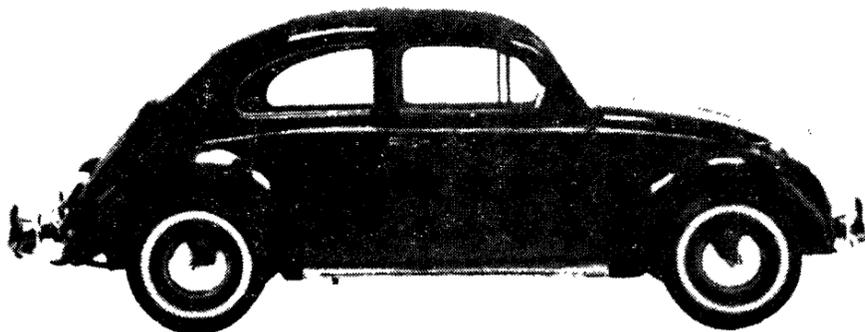
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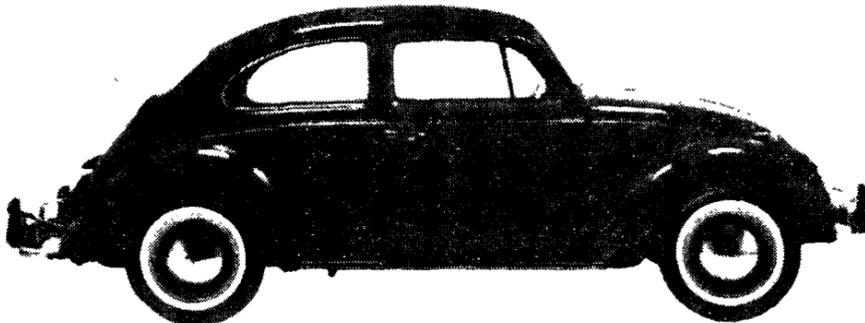
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