

**Arsenal-Wide**

**Spot News**

**Dial 112**

# The Redstone Rocket

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REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

MARCH 31, 1965

## Operations Research Meet Opens

The U. S. Army's 1965 Operations Research Symposium began a three-day run Tuesday at Redstone Arsenal. The Army Missile Command is host for the classified meeting.

Cost effectiveness will be the theme of this year's fourth annual event, sponsored by the Office of the Chief of Research and Development. Keynote speaker will be Dr. A. C. Enthoven, Deputy Assistant Secretary of Defense (Systems Analysis).

The list of visiting dignitaries for the symposium will read like a Who's Who in the Department of the Army and other defense agencies.

At least 10 general officers will be on hand, along with more than 300 other top military and civilian personnel, when Maj. Gen. John G. Zierdt, Commanding General of the Missile Command, welcomes the group Tuesday morning.

Objectives of the symposium are: (1) To acquaint key personnel with the Army's operations research project and in-house capabilities; (2) Emphasize the role of operations research in the improvement of military operations; (3) Bring Army operations analysts up to date on new technological developments in operations research; (4) Increase the applicability of results obtained in operations research studies.

Among those on the program will be Lt. Gen. William W. Dick, Chief of OCR&D; Willis M. Hawkins, Assistant Secretary of the Army (R&D); Dr. S. J. Dietchman, Special Assistant in the Office of Secretary of Defense (Conterinsurgency); Dr. Wilbur B. Payne, Office of the Assistant Secretary of the Army (Financial Management).

A series of technical papers will be presented on a variety of subjects ranging from personnel casualties to medical (See OPERATIONS on Page 3)

# Sprint Zips Up And Away



WILLIAM McCORKLE

## Dr. McCorkle Will Appear On Television

One of the Army Missile Command's top scientists will appear on national television Sunday (April 4th).

Dr. William C. McCorkle, Director of the Advanced Systems Laboratory, Research and Development, will be a special guest on ABC-TV's "Science All Stars" program.

Dr. McCorkle will discuss flight and guidance systems of space missiles. He is the inventor of the guidance system used for the first time two weeks ago in the successful firing of the Lance missile at White Sands Missile Range, N.M.

Appearing with Dr. McCorkle will be 16-year-old Gary Smaby of Minneapolis, Minn. Film of Smaby's visit to Redstone Arsenal and his lengthy interview with Dr. McCorkle will also be featured.

Huntsville's station WAAY-TV, Channel 31, will carry the 30 minute feature at 4 p.m. CST.

## Redeye Contracts Go To General Dynamics, Pomona

Two contracts totaling more than \$23 million and calling for production and support services of the Redeye air defense guided missile have been awarded to General Dynamics of Pomona, Calif., the Department of Defense has announced.

In releasing the announcement Friday, the Defense Department said one award, for \$16,384,822, will be used for production of the shoulder fired weapon. The other award, for \$6,648,776, will be used for the engineering-service program which will include verification tests of production rounds—or simply, tests to make sure the weapon performs like it should.

Redeye is the world's smallest guided missile—a weapon which is designed to give the infantryman an effective defense against low-flying enemy aircraft.

Built to be carried by a soldier and fired from the shoulder, Redeye gets its name from an infrared heat seeking device it employs to "home" on the heat of an aircraft's engines.

Development of the missile has been funded jointly by the U. S. Army and the U. S. Marine Corps. Both services will share in the output of production missiles.

Final assembly of the missile will be done at the General Dynamics plant at Sycamore Canyon, Calif.

Although the missile is electronically complex, it has been designed for simple, reliable operation in the field.

Initial target detection and tracking is done visually by the gunner. When the aircraft is within range of the missile and its infrared seeker has "locked on" the target, a simple squeeze of the trigger fires the missile.

Soldiers firing the Redeye in tests have scored hits after only a few hours of instruction. In continuing engineering tests at the Naval Ordnance Test Station, China Lake, Calif., and service tests at Dona Ana Range, Ft. Bliss, Texas. Redeye missiles have scored (See REDEYE on Page 3)

## Nike-X Interceptor Has Perfect First Flight

The Army late Monday announced a successful developmental test firing—the first—of its hypersonic Sprint anti-missile missile at White Sands Missile Range, N.M.

The Sprint is being developed as an interceptor missile for the Nike-X missile defense system to destroy attacking ICBMs and intermediate range ballistic missiles of the submarine launched type.

The firing was designed to test the missile's propulsion system and structure.

The Sprint was launched from an above ground launcher for the test; however, the missile is being designed for tactical launchings from under ground cells.

Tests of the launch cell ejection system have previously been successful. The Sprint will be the first ground launched missile to be "popped" from its cell rather than flown out. A hot gas generator installed under the missile in its vertical tubular cell will hurl the Sprint into the air where its booster will ignite, and it will pitch over to a flight angle which will take it to a pre-planned intercept point.

Sprint has the highest acceleration of any Army missile designed for tactical use. It will be capable of intercepting an attacking warhead within seconds after launch. Another interceptor missile in the Nike-X system, the long range Zeus missile, has already been successfully tested against ICBM launched target vehicles.

Development of the Nike-X system is under the technical direction of the Nike-X project office, of the U. S. Army Materiel Command. Col. I. O. Drewry is Project Manager, headquartered at Redstone Arsenal.

Western Electric Company is the system prime contractor and Bell Telephone Laboratories is responsible for system design and development.

The Sprint missile is being developed by the Martin Co., at Orlando, Fla. Hercules Powder Co., Wilmington, Del., is the missile propulsion sub-contractor.

## Joint Fund Still Grows

With almost a third of the total Arsenal work force already numbered among the contributors, officials of the 1965 Joint Fund drive have expressed a great deal of enthusiasm over the early returns.

The second weekly progress report, released last Friday by Reports Chairman, Horace Williams, indicated that 4,838 contributions had been made to the National Health Agencies. The contributions to the Federal Service Joint Crusade totalled 4,460.

All contributions to the Joint Fund campaign are made through the use of sealed envelopes. The envelopes will be accumulated here and forwarded to the state headquarters for the two drives, unopened. All accounting is performed by the state headquarters.

The drive is one of two fund raising campaigns authorized yearly at Federal installations. There are no arbitrary goals set and all donations are voluntary.

Enoch P. Sparks, executive chairman for the 1965 drive, said early this week that, "Although we have a long way to go, the progress to date has been very encouraging."

He added that it appears as though the individual organizational chairman and workers have done a good job in indoctrinating their people with the good works that are being accomplished by the agencies supported by the drive.

## Directorate Consolidates Contract Negotiations

The consolidation of all contract negotiations for Army Missile systems and related equipment in the Army Missile Command's Procurement and Production Directorate is coming to a rapid and successful conclusion it was announced this week by Col. B. A. Saholsky. The colonel, a veteran Army procurement officer, heads the Directorate.

The program of centering all contract negotiations for Army missiles is an outgrowth of Army reorganization directed by Defense Secretary Robert S. McNamara.

Increased responsibilities resulting from the consolidation have added more than 420 personnel spaces primarily to permit the negotiation annually of between \$600 and \$700 million worth of missile contracts. About half of the personnel spaces went to out-of-state plants under the Procurement and Production Directorate.

Since other organizations of the Missile Command also received heavier workloads as a result of (See DIRECTORATE on Page 3)



FROM FAR AND WIDE—Col. B. A. Saholsky, Director of the Procurement and Production Directorate, meets with some of the procurement personnel who have transferred to the Army Missile Command from various Army Procurement Districts. Experienced employees of the Districts have been moving to Redstone as the

Missile Command assumes responsibility for buying all missile hardware. Those meeting with the Colonel and their former locations are: (left to right) Homer McDonald, Birmingham; H. L. Ferner, Chicago; Miss Alice Cleary, Boston; S. M. Bennett, Cincinnati; Ralph Zimmerman, St. Louis; and F. F. Sheridan, Los Angeles.

# The Redstone Rocket

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## Rocket Ruminations

What is the use of brevity if it constitute a book?  
 —Martial

## Face Of March

Late March weather can upset the best of plans.

The President of the United States pinned medals on the Astronauts Virgil (Gus) Grissom and John Young in the Green Room at the White House instead of in the Rose Garden as planned.

The same day, the first Retreat Parade and Review scheduled at Redstone Arsenal was called because the heavy rainfall the night before left the parade field too spongy to march.

Some of the winds were heavy enough to inflict real damage. The lights at Linton Field came tumbling down in the wind blasts and the high water was reminiscent of an era before the roads were raised—when some people drove 22 miles to reach a destination three miles away.

Ah! The hazards of March are outweighed by the promise of balmy weather in the immediate future.

## Two Zeus Missiles Hit Target Seconds Apart

Two Zeus missiles, launched seconds apart by the Army, both successfully intercepted an electronically simulated intercontinental ballistic missile warhead in a recent test firing at Kwajalein Island, the Army said today.

The two missiles were launched from underground cells. The target was simulated by feeding taped recorded information on an actual missile warhead previously tracked, into the electronic computers which direct the Zeus missile's flight.

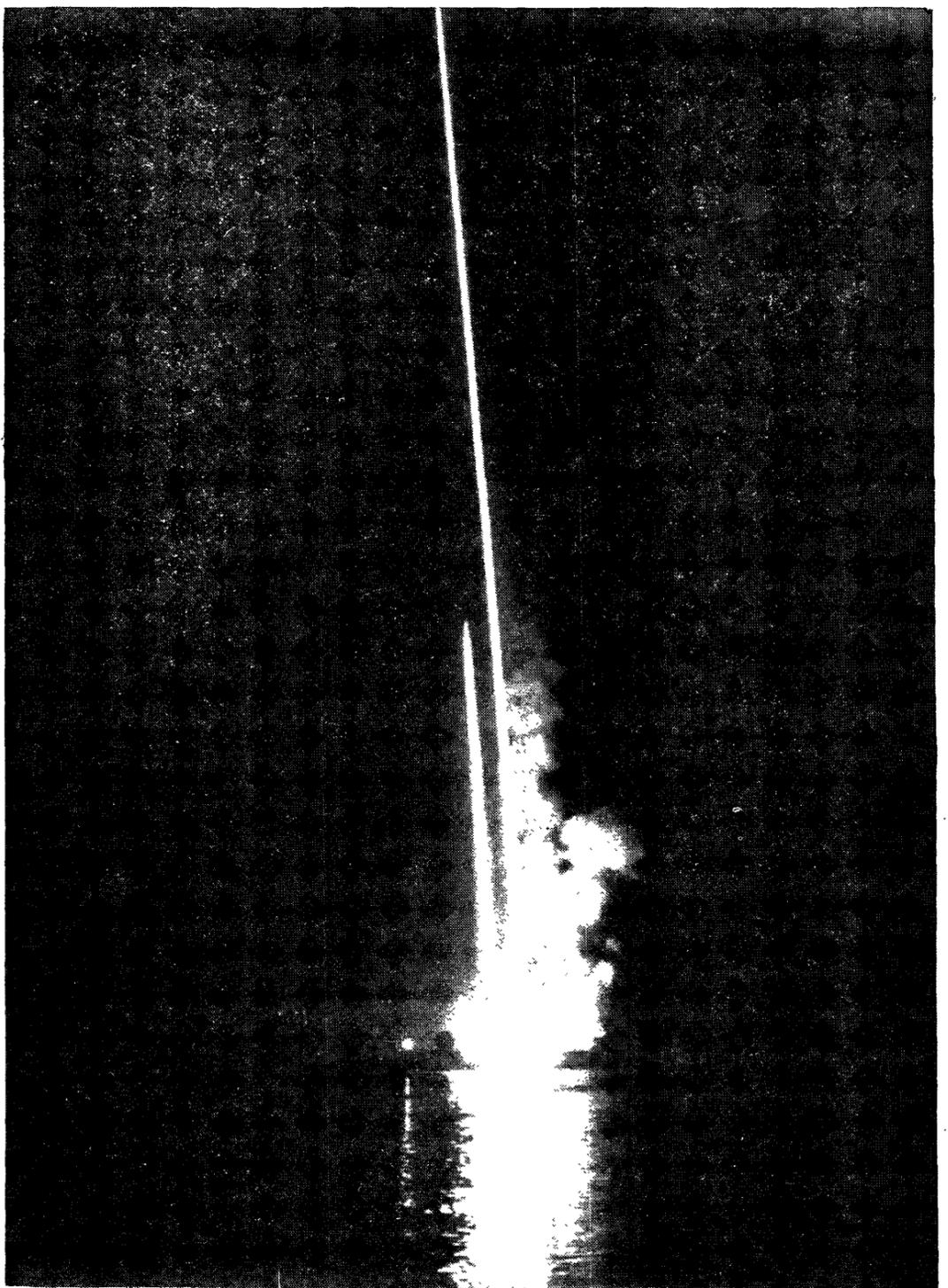
The test was one of a continuing series in the development program for the Army's Nike-X missile defense system.

A number of Zeus missiles have been fired as a part of the research and development of the Nike Zeus system and its more advanced follow-on version the Nike-X system.

Firings have been conducted against actual ICBM boosted target vehicles and also against simulated targets.

The Zeus missile is one of two interceptors planned for use in the Nike-X system. The second, the high acceleration Sprint missile, is being developed for relatively short range engagements. The three stage Zeus missile is designed for long range interception.

Development of the Nike-X system is directed by the Army Nike-X Project Office headquartered here. Western Electric Co. is prime contractor. Bell Telephone Laboratories has responsibility for system design and development. The Douglas Aircraft Co., builds the Zeus missile.



**TWO AT A TIME**—Two Zeus missiles, launched seconds apart, are shown against the night sky at Kwajalein Island. The Army has announced that a test like this has successfully intercepted an electronically simulated intercontinental ballistic missile warhead over the Pacific Test Site. The Zeus missile is the long range interceptor planned for use in the Nike-X missile defense system.

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## SCHOOL DONATES RECORD AMOUNT TO BLOODMOBILE

American and foreign military personnel at the Army Ordnance Guided Missile School exceeded

the March Bloodmobile quota by a record 46 donors.

The OGMS quota was set at 60 donors; 106 showed up to donate blood. The 3rd ETC received a best participation trophy for turning out 36 donors out of 120 men assigned to the unit.

The 251st Ordnance Detachment also received a participation trophy

for 11 donors out of 41 men assigned to the unit.

The award marks the third consecutive participation trophy the 3rd ETC has received. Since the first of the year, OGMS has exceeded its quota by at least 30 donors.

The Bloodmobile will be at the Arsenal April 14.

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**GENERAL VISITS REDSTONE**—Maj Gen. Frank W. Moorman, (center), Commanding General, U. S. Army Electronics Command, takes a few minutes out during a two-day visit at Redstone Arsenal last week to meet officials of the Army Missile Command. With Gen. Moorman are Maj. Gen. John G. Zeirdt, Commanding General, Missile Command, and A. A. Stewart, Deputy Director, Supply and Maintenance Directorate.

**OPERATIONS**

(Continued From Page 1)

and special warfare operations. In addition, there will be a panel discussion and invited addresses from some of the visiting notables.

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

"We are making every effort to insure the Army gets the most for its money," an Army spokesman said. "As a result, all new proposals for missile systems must now undergo cost effectiveness studies."

"We have always had this policy, naturally, but now we are putting greater emphasis on this phase of management."

Among the general officers who will be at Redstone are: Lt. Col. D. E. Beach, Commanding General of the Combat Developments Command; Lt. Gen. W. W. Dick, Chief of OCR&D; Maj. Gen. A. W.

**REDEYE**

(Continued From Page 1)

ed direct hits on a variety of aircraft including unmanned jet fighter planes.

The U. S. Army Missile Command, manages the weapon system under Col. A. W. Reed, Project Manager. General Dynamics, Pomona, Calif., is prime contractor.

The Los Angeles Procurement District awarded the contract for the Army.

Betts, Deputy Chief of OCR&D; Maj. Gen. W. B. Bunker, Deputy Commanding General of Army Materiel Command; Maj. Gen. K. G. Wickham, Commanding General of Combat Service Support Group, CDC; Gen. C. C. Gribble, Jr., Director of R&D, Army Materiel Command; Brig. Gen. W. E. Lotz, Jr., Director of Army Research, OCR&D; Brig. Gen. Tobias R. Philbin, Jr., Deputy Director of R&D, Materiel Command; Brig. Gen. L. H. Walker Data Support Command.

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

**DIRECTORATE**

(Continued From Page 1)

the shift, 96 personnel spaces were added to cover responsibilities in several other offices including General Counsel, Finance and Accounting, and Reproduction.

Under the old system, missile requirements calling for contracts were established at the Missile Command, but were then turned over to one of 11 Army Procurement Districts located throughout the industrial centers of the country.

The districts then negotiated the contracts with industry for the Missile Command, and thereafter supervised contract administration at the various contractor plants.

The newly instituted plan calls for contract administration by regional offices of the Defense Contract Administration Service (DCAS) much as they were administered in the past by Army procurement districts.

As the name implies, these offices administer the contracts once they have been negotiated and awarded at the Missile Command.

Their duties include such matters as expediting production after the contract is awarded, inspection, reviewing work progress, and making pre-award surveys of prospective contractors' plants.

In short, Army missile contracts, once awarded will be administered by DCAS as well as contracts in their vicinity which have been awarded by our sister services, the Navy and Air Force.

As an exception to the DCAS responsibility, the Missile Command has full cognizance of contract administration as well as execution at five plants involved in missile work. These are in Andover, Mass., Orlando, Fla., Salt Lake City, Utah, and two at Redstone Arsenal.

The added responsibilities for contract negotiation for national procurement and for contract administration at the five plants has resulted in an overall increase in personnel assigned to the Procurement and Production Directorate.

Last year at the end of June the Directorate was authorized 1040 personnel spaces. Today with the new work load, the authorization is 1375. By the end of June this year, spaces required will rise to 1469.

Since the Missile Command had not previously accomplished contracting for its major missile systems' requirements, it was necessary to bring together an experienced team. An all out effort was made to transfer the trained personnel from the various procurement districts.

Qualified missile procurement people have moved in from Birmingham, Boston, Cleveland, Cincinnati, St. Louis, Los Angeles and Philadelphia Procurement Districts.

Because many organizational elements of the Missile Command were affected by the new functions a planning group was formed more than a year ago to effect orderly transition. Members serving on this group were L. L. Aycock from the Comptroller and Director of Programs, Frank Buckley of the General Counsel, W. N. Calcoffe from Personnel and Training, and J. A. Muller and N. F.

Schaefer of the Procurement and Production Directorate.

Within the P&P Directorate the element most affected by the new duties is Procurement Operations headed by Muller. Assisting him in performing the major tasks of negotiating and executing contracts are J. K. Fowler, Schaefer, P. L. Moring, Morris Knight and R. Powell.

Other P&P organizational elements added responsibilities are the Cost and Price Analysis group under M. C. Taylor, and the Documentation Center supervised by K. Williams. This Center processes needed detailed drawings and specifications to be provided to prospective contractors for bidding purposes.

With additional personnel expect-

ted to be brought aboard over the next several months, it is anticipated that full operation will be underway shortly after the first of July.

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# Secretary Ailes Fires Honest John Missile

The Redstone Rocket — March 31, 1965 Page 4

With less than a minute of instruction Secretary of the Army Stephen Ailes last Tuesday fired an Honest John rocket.

And, what's more, he nailed the target with the Redstone-developed rocket. Of course, he had some help;—his job consisted of pushing the firing button when the countdown reached zero.

The Secretary jabbed the button with his right thumb and sent the Honest John on a long centerfield homerun trajectory before an audience of some 30 General Officers and 70 civilian VIP's from every state in the union.

The firing took place during a White Sands Missile Range demonstration for the Eleventh Annual Conference of Civilian Aides to the Secretary of the Army.

In all 12 missile and rocket systems with Redstone backgrounds were either fired or were on display. These included the Nike-X system, Sergeant, Pershing, Hawk, Nike Hercules, Honest John, Littlejohn, Redeye, Lance, Shillelagh, SS-11 and Firebee.

It was the biggest missile demonstration since President Kennedy visited White Sands in June, 1963.

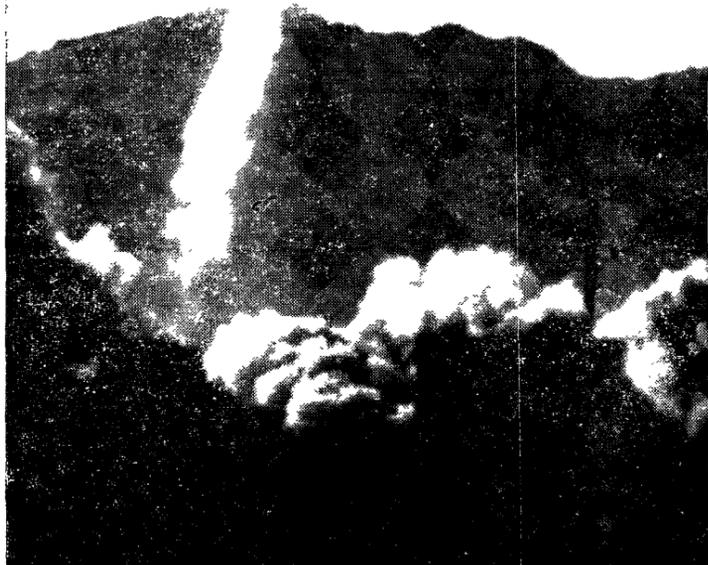
Early in the day the dignitaries watched a Redeye bring down a small target missile at Dona Ana Range near White Sands.

They were visibly impressed, not only by the performance of the weapon, but with the speed and precision of the operation as well.

After a short briefing on the day's activities and the Redeye system, a small "1025" aerial drone was flown to its prescribed starting position and made its target pass at a speed of about 200 knots.

The shoulder-fired Redeye, called the world's smallest guided missile, scored a direct hit at a range of about 6,000 feet and altitude of 3,000 feet. The firing was conducted by the Army's Air Defense Board as a part of the preliminary service test, a test which determines the suitability of the development item for troop use.

(See SECRETARY on Page 5)



**A SERGEANT IN COMMAND**—A Sergeant missile commanded attention of visiting dignitaries when it was fired from White Sands Missile Range the past week. The Sergeant was one of 12 Army missile and rocket systems fired during the demonstration for the Eleventh Annual Conference Of Civilian Aides to the Secretary of the Army.



**VISITOR AT THE MAR**—Gen. Harold K. Johnson, Army Chief of Staff looks attentively ahead as he tours the Nike-X system's Multi-Function Array Radar (MAR) at White Sands Missile Range, N. M. Guiding him on the tour was Col. I. O. Drewry (background) Nike-X Project Manager. Gen. Johnson's visit at the Army's missile test range was in conjunction with the Eleventh Annual Conference of Civilian Aides to the Secretary of the Army.

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1000	92.30	48.76	\$40.05
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Col. A. W. Reed, Redeye Project Manager who gave a briefing on his system, said "everything went like clock-work."

Beside the Aides from each state there were representatives from the District of Columbia and Puerto Rico. Alabama was represented by L. Drew Redden of Birmingham and Tennessee by Granville S. Ridley of Murfreesboro.

General officers accounted for a virtual shower of stars with more than 75 among them ranging from four star Generals to Brigadiers. Included were: Gen. Harold Johnson, Chief of Staff of the Army; who, along with Lt. Gen. W. W. Dick, Chief of Army Research and Development, received a special briefing on the Nike-X missile defense system from Col. I. O. Drewry, Nike-X Project Manager, and a tour of the project's huge multi-function array radar at White Sands.

Col. Drewry, flanked by full scale models of the 48-foot Zeus and 27-foot Sprint missiles and a 16-foot long display board, was one of the Redstone Project Managers presenting briefings to the Aides.

The third was Lt. Col. W. E. Mehlinger, Lance Project Manager, who displayed a Lance on its tracked vehicle. He also had a full-scale cut-away model of the Lance to demonstrate its unique storable liquid propellant motors.

Other firings at White Sands included a Littlejohn, Sergeant and SS 11. All were fired as a part of regular test programs.

The Littlejohn and its red-scarved artillery crew were dropped out of the sky by helicopter, set up and fired in a matter of minutes.

Later the Aides watched another crack missile crew unpack an entire Sergeant missile from its containers, assemble it on its launcher and assume a firing position in less time, seemingly, than it takes to cross Memorial Parkway at rush hour. Another Sergeant not quite so close to the reviewing stand was actually fired, however.

What was perhaps the best piece of shooting of the day probably went unrecognized as such because it looked too easy. Battling surface gusts of wind that hit 30 MPH and loaded with blowing sand a helicopter pilot from the Strike Command brought his SS 11 armed chopper in low over the sage brush tops to blast a tank in front of the viewing stands. It was also a hard test for the M 22 Armaments System developed at Redstone to give the SS 11 an air-to-surface capability for fighting in such places as Viet Nam.

Another point of interest for the Aides was a model of the Shillelagh missile system mounted on the Sheridan tank. Lt. Col. C. C. Anderson of the Shillelagh Project Office was on hand to describe the system.

Other Redstone Project personnel taking part in the demonstrations included Capt. William Fiorentino of the Nike-X Project Office; Maj. Johnnie Spruiell and E. A. Marshall of the Nike-X White Sands Field Office; and Capt. Carl Nelson of the Lance Project.

While the Aides and military representatives were hearing about Army missiles a missile of a different type—the Gemini spacecraft—was whirring overhead. At one time the demonstrations were interrupted by an announcement that Astronauts Grissom and Young were 48 miles overhead and being tracked by White Sands radars. The space flight played a part in the demonstrations. The Sergeant firing crews were worried because if the "Molly Brown" was up when it came time to fire the Sergeant, radars assigned to track the missile would have to be silenced to prevent any interference with tracking of the space craft.

The presence of the Zeus

## Three Command Elements Receive Presidential Award

Three elements of the Army Missile Command received Presidential Citations last week for cost savings totaling approximately \$32.5 million during the 1964 fiscal year.

The Supply and Maintenance Directorate savings, \$17.4 million, reflect actions in the cost reduction areas of initial provisioning, secondary items, technical manuals, equipment and supplies, equipment maintenance, use of contract technicians, packaging, preserving and packing.

A savings of \$13.9 million was chalked up in the Procurement and Production Directorate. The savings were accomplished through Value Engineering techniques, by utilizing available excess contractor equipment in lieu of buying new equipment, and an increase in competitive procurement.

The Army Missile Support Command through intensified management actions recorded savings of \$1.1 million. The savings resulted from reduction of opera-

ting costs in Data Processing Systems, local logistic services, improving management in telecommunications, noncombat vehicles, and military housing, and by improving equipment and maintenance management.

Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command, presented the citations to Col. Thomas W. Cooke, AMSC Commander; Col. B. A. Saholsky, P&P Director; and A. A. Stewart, S&M Deputy Director.

The general also tipped his hat to the Project Managers for their substantial contributions to cost savings reported by S&M and P&P.

The citations, signed by President Lyndon B. Johnson and Secretary of the Army Stephen Ailes, read: "In special recognition of an outstanding contribution to greater economy and improvement in Government operation during the tenth anniversary year of the Federal Incentive Awards Program."

March 3, 1911—Dental Corps commissions were authorized by Act of Congress, which limited commissions to 1st Lieutenant (Captains and Majors were not authorized until 1916, Lt. Colonels and Colonels in 1917). The Dental

missile and the orbiting vehicle reminded others of the announcement late last year that a Zeus had successfully intercepted a satellite in orbit.



**RECEIVES BRONZE STAR**—Capt. Robert Longshore (left), son of Mrs. Annie Maud Longshore of Atlanta, recently received the Bronze Star for meritorious service in Viet Nam during 1962-63. Capt. Longshore, presently chief of the Television Division at the U.S. Army Ordnance Guided Missile School, Redstone Arsenal, Ala., was presented the medal by Col. Hobart V. Smith, assistant school commandant. Longshore is a graduate of the Georgia Institute of Technology in Atlanta and a member of the Sigma Nu social fraternity. Before entering the Army in 1956 he worked in Columbus, Miss., as an industrial engineer.

Corps was established in 1901 by contract dental surgeons staffing the Army Reorganization Act, with the Corps until 1911.



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- '65 Mustang 289, auto. h'top **\$2750**
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- 60' Olds Wagon, loaded, air **\$1350**
- '64 Pontiac Grand Prix, 2-dr., H'top, loaded, air **\$3350**
- '64 Pontiac Bonneville, 4-dr. H'top, loaded, air **\$3350**
- '61 Volvo 1225, like new **\$1050**
- (2) '63 Chevrolet 1/2 ton P.U., like new. **\$1550**
- '64 Chev. 1/2 ton P.U., mint cond. **\$1850**

- '64 Bel Air 4-dr., wagon, loaded, air **\$2950**
- '64 Bel Air 4-dr., red, air **\$2450**
- '64 Impala 2-dr. H'top, loaded, air **\$2850**
- '62 Chevy II '300' 6-cyl., stick **\$1350**

- '60 Corvair 4-dr., sed., auto. **\$750**
- '62 Corvair Monza 2-dr., cpe., 4-speed. **\$1250**
- '62 Corvair Monza 2-dr. cpe., auto. **\$1350**
- 63' Chrysler 300 4-dr., H'top, loaded, air **\$2950**



# Nike T-1 Simulator Gives Technicians 'Big Picture'

While the world is figuratively becoming smaller, the world of the missile technicians is growing to the point that much of the earth can now be seen on a tiny radar screen.

Air defense missile maintenance training has taken on a new dimension at the Army Ordnance Guided Missile School. The use of the Improved Nike Hercules T-1 Simulator makes possible the training of radar technicians and missile firing crewman to operate in any Nike missile defense in the Free World without leaving a mobile van.

The new training device will virtually eliminate the expense of using "drone" targets, or actual aircraft in training missile firing operators, without sacrificing quality.

The Missile School has the key role of training technicians to maintain not only the simulator, but the radar and test equipment used by missile units in the field.

Using electronic signals fed into radar units, the T-1 can simulate realistic enemy "attacks" in such detail that radar operators get the actual feel of a combat situation without leaving a mobile radar van. Included in the "attack" are such details as enemy aircraft evasion tactics, electronic "jamming" techniques and topographical features with which radar operators must cope.

To the radar operators or trainees, the "attack" is as real as any would encounter in the field, either in war games or actual invasion.

The T-1 was developed by Aircraft Armaments Inc. of Baltimore for the improved Nike Hercules air defense weapon. The Army previously used a simulator designed for the old Nike Ajax, predecessor of the Nike Hercules, to train operators. But that simulator was designed specifically for the Ajax, and its limitations were those of its parent missile system.

With the mushrooming complexity of missile system electronics, tied to constant and rapid improvements in the radars themselves, it has become necessary to develop a much more versatile training device. The T-1 has there-

fore been designed to "grow" with the Nike Hercules system and with any future discoveries of the capabilities of enemy aircraft and missiles.

Introduction of the simulator into the Missile School curriculum has necessitated changes in training of Nike radar students. There now is a need for technicians trained on transistor and digital computer circuits. Since the Nike Hercules system is comprised primarily of vacuum tube circuits and uses a DC analog computer, extra coursework has been added to compensate for the change.

Students now receive two weeks training on transistor circuits in the basic electronics course required of all missile students at OGMS and are familiarized with digital computers along with their study on the T-1.

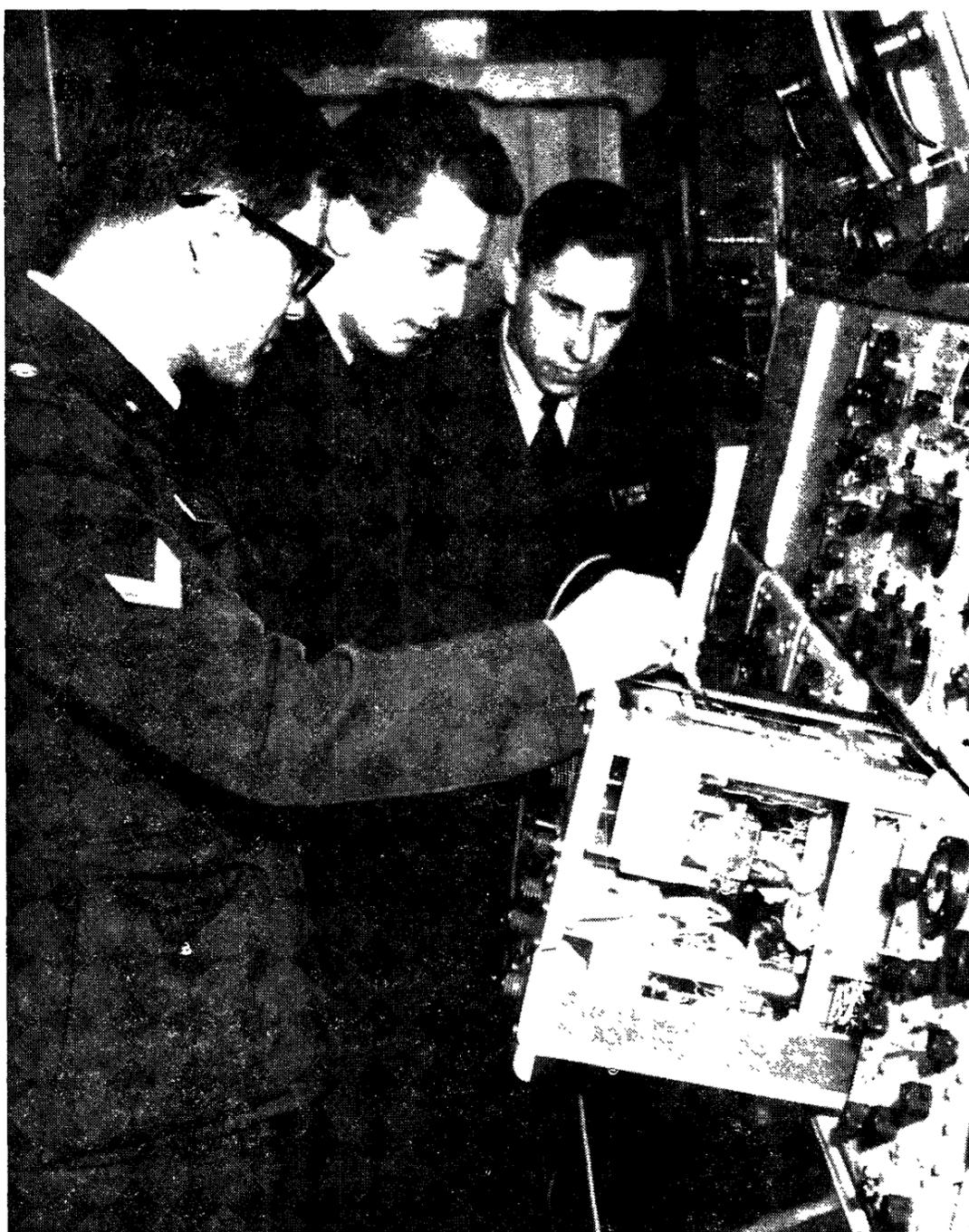
In all, Nike radar technicians spend 14½ weeks on the new device. The first students were graduated in February.

The Missile School has three simulator complexes used for training maintenance technicians. Two are set up in classrooms to allow more students to study the device and one is van-mounted so that they can learn to repair and maintain the T-1 under field conditions. The van is limited in its teaching value, however, because its compactness allows only a few students at a time to work on the trainer.

In the field, one van will support several missile batteries, moving from location to location to give field exercises to personnel assigned to missile sites.

For these operations, the T-1 is the equivalent of moving an "attack" wherever it is best suited for training purposes. The "electronic battlefield" will be equally valuable in war game exercises with the same advantages realized in original training.

The unit is connected to an actual radar complex, and data is fed directly into the system. With the use of superimposed slides, realistic topographical features for any locality can be duplicated in order to train operators locally for any place in the free world. Electronic signals simulate the



**IN SIMULATOR VAN**—Students from Italy and Belgium move to a van-mounted simulator unit used in training on the Improved Nike Hercules air defense missile at the Army Ordnance Guided Missile School, for experience in repairing the radar training device under field conditions. Sgt. Dominico Bernardini of Italy solders a circuit in one of the T-1 console drawers as SFC Adrien Casse and SFC Wilfrid Verhulst of Belgium check his work.

path of an incoming target, and as many as six targets can be made to appear on the radar screen simultaneously. These "attacks" can be controlled to the extent that the radar operator must cope with any type of attack pattern. Likewise, an actual or simulated missile can be controlled to produce a normal or off-target shot.

The radar units track the simulated target exactly as though it were real. Therefore, radar operators must go through every phase of acquiring, tracking and firing that would be done in an actual attack.

Other electronic signals fed into the system train operators to handle enemy electronic evasion tactics such as jamming radar signals. With the use of slides,

operators learn to track targets around "masks" — topographical features that shield the incoming aircraft from radar beams. This might occur in a real situation, for example, if an attacking aircraft passed behind a mountain. Therefore, the T-1 familiarizes the radar operators with "losing" and "finding" targets—an aspect of training that could be of considerable value in the event of attack.

Another extremely valuable characteristic of the device is that it is designed to disconnect from a radar system in less than one second by simply pushing a button. This permits the simulator to be used for training on an operational missile site without interfering with its normal mission.

Officials at the Missile School believe the T-1 Simulator is the

forerunner of more advanced training devices that can be applied to several new missile systems now being developed. Training programs are being geared to include this new requirement for missile maintenance specialists of the future.

### ROHM AND HAAS HAS CONTRACT

The Army Missile Command has awarded a \$788,000 contract to the Rohm and Haas Co., for continued research on high energy propellants at their plant on Redstone Arsenal.

The contract, to cover a 12 month period, was negotiated and executed by the Missile Command's Procurement and Production Directorate.



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## Volunteers Course Offered

A class for Red Cross Volunteers will be held at the Post Chapel social room Monday and Tuesday, April 5-6 from 9 a.m. to 2 p.m. Instructors will include staff members from the Madison County-Huntsville Chapter of the Red Cross who will outline the purpose of the Gray Lady Service, and specialists from the Arsenal Medical Personnel.

Any wife or daughter of an active or retired military man is eligible to take the course. Interested individuals may contact Mrs. R. W. Mundy, 877-5446, the Chairman of Volunteers on Post.

April, 1887 — Ordnance Department chose Watervliet, an installation under U. S. Army Weapons Command, one of AMC's seven sub-commands, as the ideal place for construction of the new Army Gun Factory. The next year the Arsenal started turning out the first of its howitzers, field and siege guns, in a converted building. The newly-built Sea Coast Cannon shop was opened in 1890 and construction of the first of these huge weapons was carried on slowly for the next few years.



**MESS O' AWARDS**—M/Sgt Joseph O. Blume hit the jackpot this month at the Ordnance Guided Missile School. He got the best mess award for not only February but January in an unusual presentation at the School by Col. Hobart V. Smith, assistant commandant. Usually the presentations are made monthly, but because Sgt Blume was unable to appear at the January awards ceremony his first award was held up and presented simultaneously with the second.



**THE RE-ENLISTMENT OFFICE AT OGMS** reports an increase in re-enlistments. Above, 1/Lt. Donald Strong, Company B CO, administers the oath to SFC Robert Gustafson and PFC Richard Owens. The two re-enlisted for a three-year tour. Gustafson has served in the Army for the past 17 years. Owens begins his fourth year of service.

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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.

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.

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.

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. Financing available.

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2701 HASTING ROAD S.W.—2 bedroom home with garage \$75.00.

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14	245.29	192.55	139.36
16	282.45	220.36	159.26

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Monthly Payments	36 mos.	30 mos.	24 mos.
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60		\$1260.51	798.46
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# SOCIAL and CLUB EVENTS

## Mr. Gatwood, Mrs. Saholsky Win At Bridge

M. F. Gatwood and Mrs. B. A. Saholsky won the Monday night bridge competition at the Redstone Officers' Open Mess last week as high for the men and women respectively.

Second high were Lt. E Ue Mura and Mrs. A. M. Cobban. Eleven tables of players attended.

Reservations to play with the Bridge Group are handled by Mrs. R. U. Scott, 772-3238.

## At The Service Club

By BETTY HAYES

Tonight we have a special treat for you. The Florence State College Chorus will present a program at 8:15 p.m. Since the group has been well received during performances in the North Alabama area, this should be an indication to you to attend the program.

Attention card sharps! On Thursday evening you have a chance to participate in your favorite card game whether it be hearts, pin-ochle, or bridge. Meet your partner in the main lounge for card-board kapers at 7:30 p.m.

You shuffleboard players have a chance to prove that you are a skillful player on Friday at 8 p.m. when a contest will be held.

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

Cigars will be given to those who play smoker poker on Saturday evening in the small lounge at 8 p.m.

Do you often oversleep on Sunday morning and miss the breakfast served in the mess hall? Next time this happens to you remember that we serve hot coffee and donuts every Sunday morning at 9 a.m.

The Junior Hostesses monthly meeting will be held on Sunday evening at 7 p.m. Girls, we need your ideas for Service Club programs; come with suggestions for future events. Any single girl who would be interested in becoming



OUR NEW ROOMS—Kathy O'Keefe, a member of the Redstone JANGO Guild, tells Maj. Gen. John G. Zierdt, Army Missile Command Commanding General, that the Redstone Guild has been assigned rooms in this building where they can hold meetings. A new training class for JANGOs will start Apr. 24. Applications for the class are available at the Post Hospital reception desk and must be mailed in by Apr. 10.

## Movie Schedule

WEDNESDAY, Mar. 31  
"The Thin Red Line" (M)  
THURSDAY-FRIDAY, Apr. 1-2  
"Irma LaDouce" (M)  
SATURDAY, Apr. 3  
"War Party" (F)  
SUNDAY-MONDAY, Apr. 4-5  
"The Outrage" (M)  
TUESDAY, Apr. 6  
"Young Dillinger" (M)  
Two shows nightly at 6:00 and 8:30 p.m.  
Saturday matinee at 1:00 p.m.  
Sunday matinee at 2:00 p.m.

### SODALITY TO MEET

The Sodality meeting is set for next Friday following 9 o'clock mass in the Chapel Social Room. Breakfast will be served. Services for the Rocket Nursery will be available free to those attending.

## Nurse's Aide Class Set By Redstone JANGO Guild

The Redstone JANGO Guild, now one year old, will start their second nurses aide training class on April 24. JANGO, which stands for Junior Army Navy Guild Organization, is an inter-service, non-profit organization for the wives and daughters of Armed Forces officers and of Cabinet officers.

Information sheets and applications for the second JANGO class are available at the reception desk in the Post Hospital. The completed applications must be mailed by Apr. 10. Maj. Georgia Hasler, Chief Nurse, will conduct the class.

The Redstone JANGOs do nurses aide work in the Post Hospital, Dental Clinic and at the Bloodmobile. The first class completed training last summer and was capped in September.

a member of the organization is invited to attend the meeting.

Dance with your favorite Junior Hostess to the latest records at the April Showers Dance on Sunday evening at 8 p.m.

Monday evening is a good time to relax and play an evening of games with us at 8 p.m.

Why wait any longer to learn to play the popular game of bridge? Instructions will be given on Tuesday at 7:30 p.m.

Check this column next week for the details of two of our big events for April; a ladies' and men's fashion show and the University of Alabama play, Loose-baugh The First.

See you at the Service Club.

The Guild has recently been assigned space in an arsenal building for their meetings.

Mrs. John G. Zierdt is the advisor for the Arsenal Guild, and Mrs. William H. Roedy is the chairman.

JANGO has two groups of members: Juniors, 14 to 21; and Seniors, over 21.

The Redstone Guild is the first outlying Army Guild to be founded on an Army post in the United States. JANGO headquarters are in Washington, D.C., and all

Guilds outside that area are referred to as outlying.

JANGO was founded in 1942. A Board of Directors composed of the wives of senior officers of the Army, Navy, Air Force, Marines and Coast Guard govern and guide the organization. Mrs. Lyndon B. Johnson is the Honorary President, and Mrs. Bruce Palmer is the active president.

JANGO first became a national organization with its Junior activities when the then Surgeon General of the Navy, Rear Admiral B. W. Hogan, requested the JANGO program for all Navy hospitals.

All funds raised by JANGOs annually through dues, donations and other means are allocated for the administration of JANGO, selected local charities, and the JANGO scholarship fund.

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# Beautify Huntsville Slogan Sought By City Park Board

Maj. Gen. John G. Zierdt, Commanding General of the U.S. Army Missile Command, has joined with other Huntsville leaders in supporting a city-wide beautification program.

"Since the day it moved to Huntsville, the Army has been interested in any project which benefits Huntsville and Madison County," he said.

"We know that the interests of Redstone Arsenal and Huntsville

are really one and the same and we welcome the opportunity to participate in planning for our mutual beautification.

"I appreciate the Mayor naming me to ex officio membership on the Huntsville Beautification Board. Col. George E. Meaders, another Army representative on the board, and I will stand shoulder to shoulder with the City in any way that we can to help create more beauty for all of us to en-

joy." The Beautification Board was created to plan and promote a community beautification program. The Board is currently sponsoring a slogan contest to set the theme of the program.

Prizes valued at more than \$1,000 will be awarded to 10 children whose entries are judged as winners in the contest.

The top winner will receive a \$500 savings bond. The two runnersup will be presented with \$100 savings bonds. The next top-rated seven entries will share in bonds and gift certificates valued at slightly less than \$500.

Money and gifts for the prizes were donated by various Huntsville civic leaders, garden clubs and business firms.

The contest is open to all children enrolled in grades one through nine in schools located within the corporate limits of the City of Huntsville. This includes children attending private and religious institutions as well as public schools.

Entries of five words or less will be accepted by mail until April 7. Only one entry per school child will be accepted and entries should be postmarked no later than midnight April 7.

Slogans should be written or typed on a post card. Entrants should include their name, the name of their parents, their home address and telephone number.

Entries should be mailed to:  
Slogan Contest  
City Parks and  
Playgrounds Department  
Canal Street  
Huntsville, Ala.  
Another Army Commander at



**A HAPPY OCCASION**—Two OGMS units garnered first place honors during the March Bloodmobile Drive. Lt. Col. Charles E. Chapman (left) presents trophies to (from left) 2/Lt. Robert J. Phillips who accepts for the 251st Ordnance Detachment which was undergoing field maneuvers; Capt. Luther O. Wickline, 3rd ETC Co, and First/Sgt. Charles J. Miller of the 3rd ETC. Phillips accepts the trophy for 2/Lt. D. M. McClellan.

Redstone is giving public support to the beautification program.

Col. William J. Macpherson, Commandant of the Army Ordnance Guided Missile School, said:

"It is traditional that military men and their dependents take an active part in the community in

which they have been assigned.

"An active program of beautification in Huntsville will further enhance the Space City. OGMS military and civilian personnel have many fine children. I would like to see each youngster submit a slogan suggestion to the Beautification Board."

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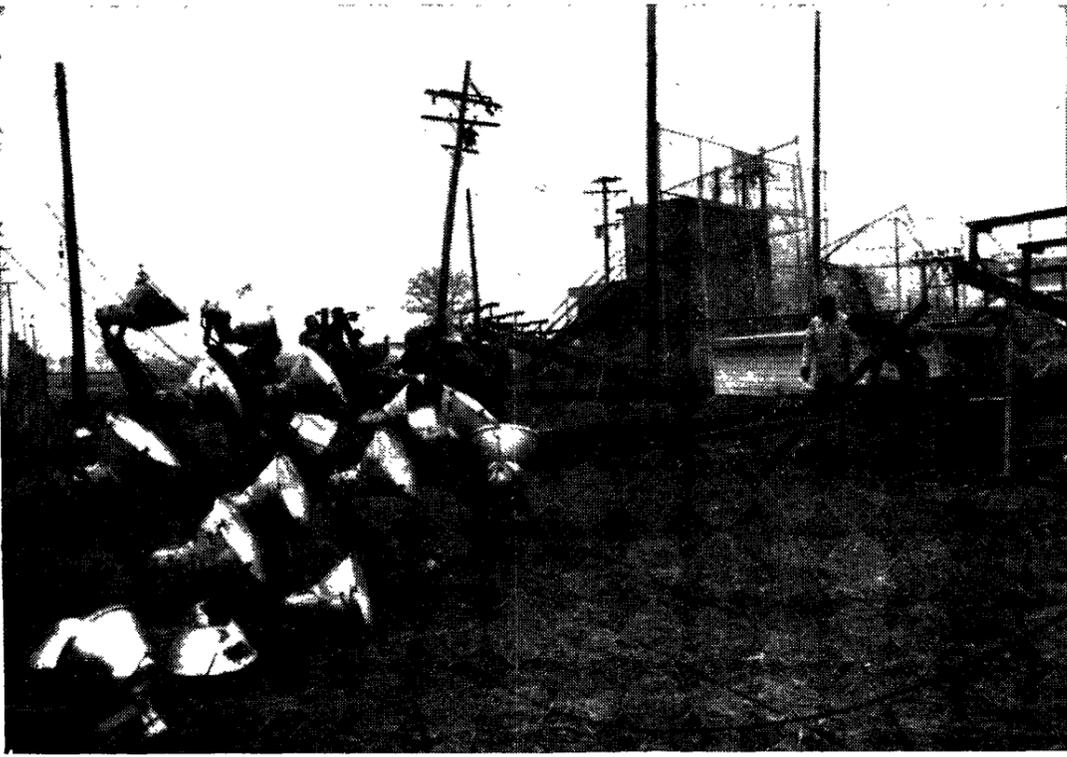
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**WINDS HIT**—A small twister Thursday night blew some of the lights at Linton Field into tangled wreckage. A witness described the flying sparks from the broken electric lines as a twenty-foot high Fourth-of-July sparkler. A Post Engineer spokesman estimated damage to the electrical system at approximately \$2500.

## Lightning Causes Fire In Thiokol Warehouse

A fire set by a bolt of lightning early Monday morning destroyed a U.S. Army warehouse on Redstone Arsenal rented by Thiokol Chemical Corporation. Redstone firemen answered the alarm at 2:42 a.m. and were able to keep the blaze from spreading to other warehouses in the high wind of a storm that was passing through the area. An electric clock

found in one end of the gutted building stopped 2:17 o'clock. The warehouse housed all of Thiokol's large motor inspection equipment, as well as components for development motors and other material. An inspection is being made to determine the extent of damage to the contents and an estimate of the loss. The building was valued at \$34,000.

Fire Marshal W. H. Klieber said it appears that the fire was started by lightning which struck the building near two electrical switch panels and a 400-volt transformer. A Military Policeman who was cruising in the area spotted the blaze and alerted the Fire Department.

Thiokol officials said that any effect of the fire on existing schedules will be minor. The warehouse, S-7401, was one of 14 on the Arsenal leased by Thiokol, which is engaged in research and manufacture of rocket propellants. The burned-out warehouse was completed in May 1942. It was 51 feet wide and 240 feet long and consisted of asphalt-coated corrugated metal with wood framing.

## Gen. Harrison Will Speak At Post Chapel On Sunday

Sunday Lt. Gen. William K. Harrison (ret.) will speak at two Worship Services at the Redstone Arsenal Post Chapel.

Gen. Harrison, a 1917 graduate of the U. S. Military Academy, is president of the Officers Christian Union, an organization whose mission is to forward Christian works, church extension work, and Bible conference work. It is a non-denominational organization.

Services at which Gen. Harrison are scheduled as the speaker will be at 10 a.m. and 11:15 a.m.

Gen. Harrison was on the General Staff of the War Department from 1939 to 1942 and served in five campaigns in the European Theater during World War II. He has also been a member of General Douglas MacArthur's staff in Japan and the Deputy Command-



**LT. GEN. WILLIAM J. HARRISON**  
Speaker at Chapel

ing General of the 8th Army in Korea. He was a signer of the Korean peace treaty.

He now makes his home at Largo, Fla.



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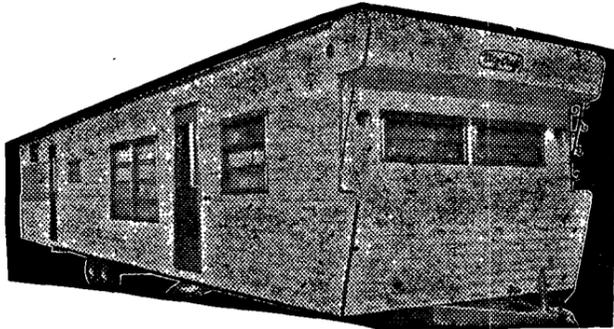
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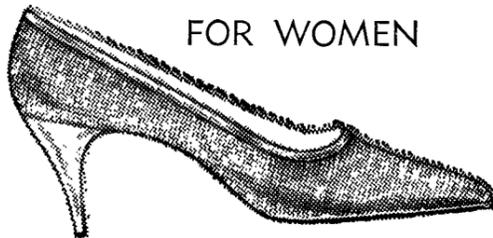
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# Sports Emphasis To Be Local Army Decrees

Intramural competition below the installation level will be emphasized in the new Army Sports Program designed to improve military training and increase combat readiness.

The Army is already committed to inter-service sports competition in basketball, boxing, wrestling, volleyball, golf and tennis during this year. Therefore, the new program will be effective at the beginning of 1966.

In outlining the new concept, Command Information Fact Sheet,

No. 26, issued by the U. S. Army Materiel Command, said that all sports activities that do not assist in improving military training by contributing directly to moral and welfare of participating units will be eliminated.

The fact sheet said that the change was authorized after consideration of sports activities in the light of their contribution to the Army's combat readiness posture.

While the importance of sports competition in building physical

fitness, morale and teamwork, were recognized, it was decided that the Army's interests would be best served through an extensive intramural sports program within installations and divisions.

The Army will continue to support competition above the installation level when this participation is in direct support of authorized sports events to the extent made possible by appropriated funds and within the provisions of the laws involved.

These competitions include the Olympic Games, the Pan American Games, world championships, State Department tours and the Conseil International de Sport Militaire (CISM).

#### GAME CALLED

A scheduled soccer game between the OGMS German Air Force and the International Soccer Team was called due to wet field conditions at Vanderbilt University.

A rescheduled game has been

## Capt. Bowlus Wins Handball Championship

Capt. Dave Bowlus left little doubt as to the identity of the Arsenal's top handball expert recently when he walked off with both the singles and doubles titles in the annual tournament.

The OGMS officer took the individual crown with a 21-13, 21-7 win over Sgt. Irv Lyles in the final

match. In the doubles play Bowlus teamed with Capt. Tony Johnson to earn a hard-fought decision from Capt. Hal Stubbs and Lt. Wilson Miles. The final match in the doubles was decided by a 21-17, 21-17 score.

## Smallbore Shooters Sought

Back from a successful tour of Florida, where they competed in three championship matches, the Redstone small-bore rifle team has opened a drive to find additional shooters prior to the start of the spring season.

Only three riflemen were available for the 20-day swing through the Sunshine State, but between them they came home with 22 medals won in competition with some of the area's top military and civilian shooters.

The trio of locals, SSGT. Adolpho Salazar, PFC Jeff Albert and PFC Ron Zajicek, entered matches in Miami, St. Petersburg and Winter Haven during their tour.

Included in the awards that they won was first place in the team matches at Winter Haven and third place in the two-man event at St. Petersburg. Firing in the latter were Albert and Zajicek.

With several championship matches tentatively scheduled during the next three months, the Arsenal team is looking for additional

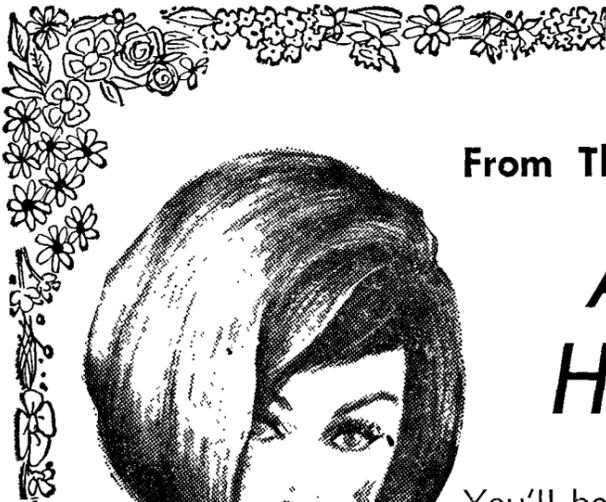
team members.

The team practices every Saturday morning at the Post Range starting at 9. All experienced shooters, and those military personnel who might be interested in seeking berths on the team, are encouraged to report to the Range during a practice session.

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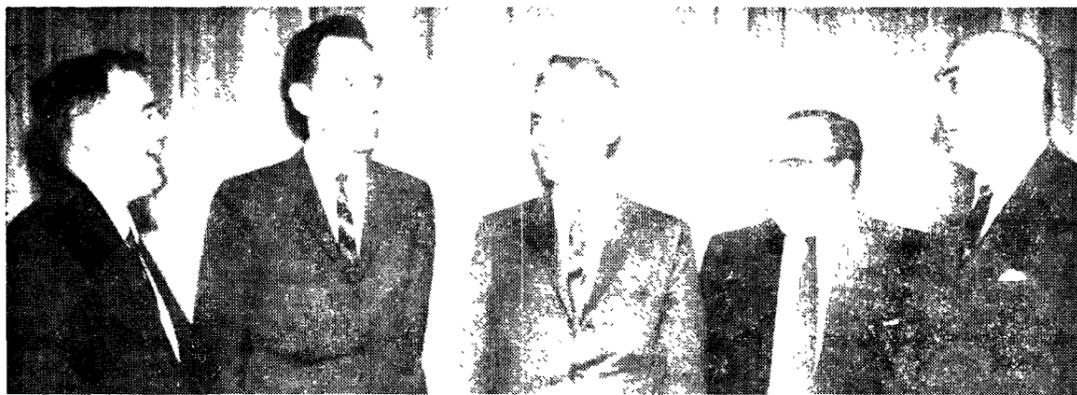


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**LAUGHS BEFORE LEGAL LUNCHEON**—The General Counsel of the Army Materiel Command, Kendall M. Barnes, center, gets acquainted with members of the Explorer Chapter, Federal Bar Association, before a luncheon meeting last week. Barnes spoke to the group on, "Organizational Conflicts of Interest." From left to right are: Harold Speake, Thiokol Chemical Corporation, president of Explorer Chapter; Hardy B. Jackson, attorney, General Counsel's office, Army Missile Command; Barnes; Francis J. Buckley, Jr., General Counsel, Missile Command; and Judge Dave Archer, Madison County Circuit Court.

## General Counsel For AMC Is Speaker At Luncheon

The General Counsel of the Army Materiel Command last Thursday told a group of attorneys that the Department of Defense's four rules governing organizational conflicts of interest are admittedly not clearly defined, but nevertheless do some good.

"These rules are vague and imperfect, but they are a regulation we have to live with," said Kendall M. Barnes, who has been AMC General Counsel since 1962. He was addressing 50 members and guests attending a luncheon meeting of the Explorer Chapter, Federal Bar Association, at Redstone Arsenal Officers' Open Mess.

The rules Barnes spoke of are in a DOD directive issued June 1, 1963. They were designed to prevent placing contractors in positions where their judgment might be biased and to eliminate as far as possible the question of unfair competitive advantage that might arise out of contractual situations, particularly the contract study type.

Barnes warned that care should be exercised to avoid the fallacy of assuming that since a case cannot be fitted completely with any one of the rules, the provisions of the directive do not apply. "While these specific rules are important, they should always be read and applied in the light of the directive's preamble, which sets the overall policy," he said.

The DOD directive followed a Report to the President on Government Contracting for Research and Development (generally known as the Bell Report). This report pointed out that universities, private non-profit organizations and industrial corporations should not "be given areas of monopoly on different kinds of work" or be permitted to develop a private relationship to the Department of Defense.

The rules governing conflicts of interest are:

- A contractor who agrees to provide Systems Engineering and Technical Direction services will not later be allowed to supply the systems or any of its major components or be a contractor or consultant to a supplier of the system or its major components.

- If a contractor agrees to prepare and furnish complete specifications to be used in competitive provisions of non-developmental items, he will not be allowed to furnish the items themselves for a reasonable period of time.

- If, during the contractor's work for the Department of Defense, he is provided access of

April 18, 1942 — Sixteen planes from carrier "Hornet," led by Lt. Col. James H. Doolittle, bombed Tokyo.

subject himself to certain limitations as regards the later use of this idea.

- A contractor who agrees to assist the Department of Defense or one of its contractors in the preparation of a statement of work or documents leading directly there-

proprietary data of other parties, he must take certain actions and

to will not be allowed to supply the system or services called for in that statement of work.

A survey of outstanding AMC contracts containing organizational conflict of interest clauses was made last October, according to Barnes, and all but 14 of the 232 contracts had the standard "boiler plated" clause. He said it is DOD's intent that the clause drafted for a particular contract always be "tailored" with emphasis on substance rather than format. Barnes is a graduate of Prince-

ton University, and has a law degree from the University of Pennsylvania. From 1944 to 1962, he was with the Department of Justice and tried the Dixon-Yates case in the U.S. Supreme Court of Claims. He is a member of the Board of Governors of the Federal Bar Association.

Harold L. Speake of Thiokol Chemical Corporation in Huntsville is president of Explorer Chapter. Barnes was introduced by Francis J. Buckley, Jr., General Counsel, Army Missile Command.

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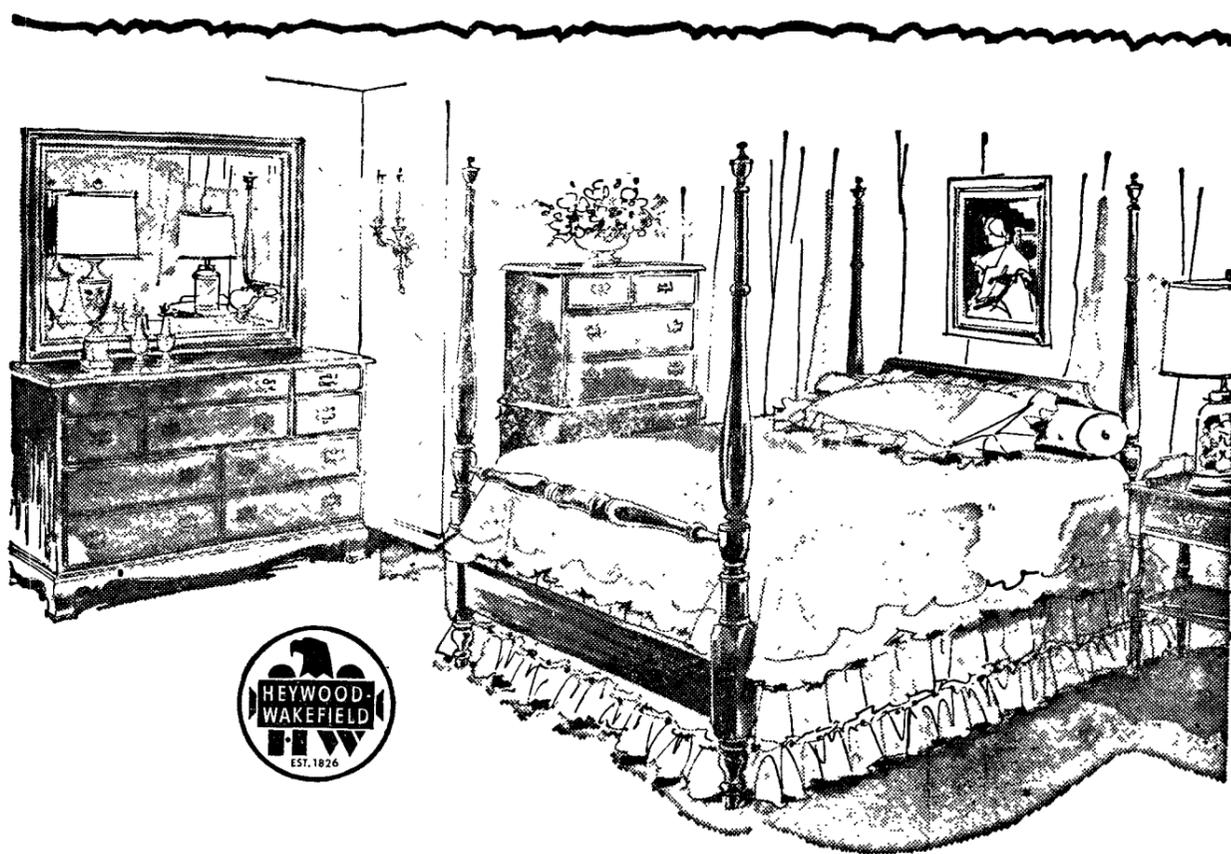
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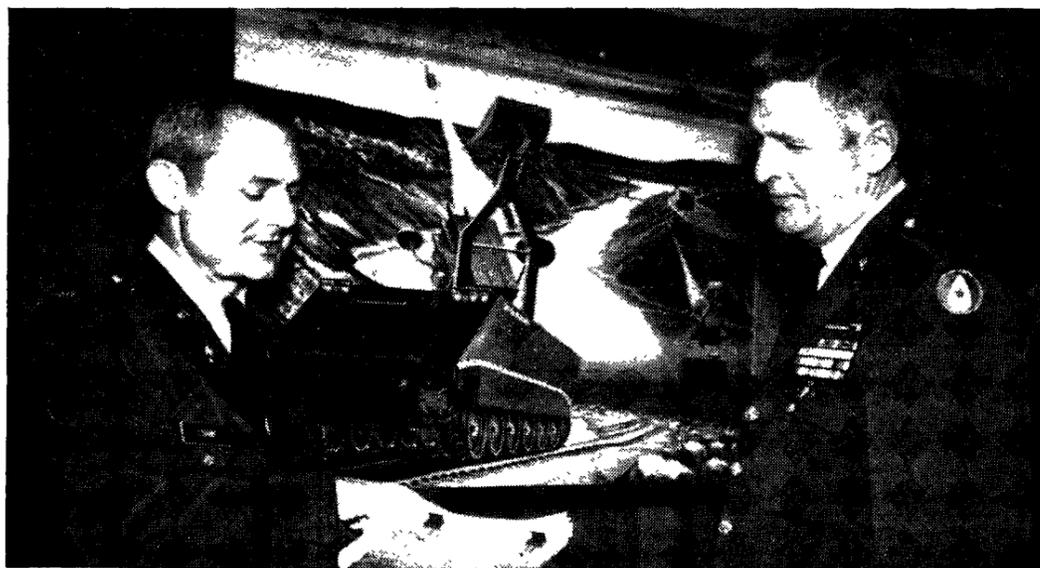
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**LOOK TO THE FUTURE**—Maj. Gen. Charles Billingslea (right), Deputy Commanding General of the U. S. Army Combat Developments Command, receives a briefing from Col. Glenn Crane, Special Assistant to the Deputy Commanding General for Air Defense Systems, at the U. S. Army Missile Command. He was at Redstone Arsenal for a two day briefing about current capabilities and future expectations in missile development. Gen. Billingslea is one of the men who help decide on equipment and how it is used by the Army. He is a former Commanding General of the 2nd Infantry Division. Project officer for his tour was Col. Frank J. Wasson, Jr.

## Scholarships Will Go To Eligible ROTC Cadets

The Department of the Army has announced a program for September 1965 which will make available 1,000 scholarships for students in the Reserve Officers Training Corps program at colleges and universities.

Details of the plan were made public today by Col. William J. Macpherson, commandant of the Ordnance Guided Missile School. He said 400 four-year scholarships will become available to qualified students entering the program and 600 two-year scholarships will be available to students presently completing their second year of the ROTC course at a school offering the four-year curriculum.

Students who receive scholarships under this plan will be paid \$50 a month during their regular school year and summer sessions and will get \$120.60 a month for a required six-weeks military training period one summer.

Those accepting scholarships must enlist in the Army Reserve for six years at the time they accept and must agree to accept a regular army or reserve commis-

sion on completion of their studies. They must pursue a course of instruction leading to a baccalaureate degree.

In addition, students will be required to serve four years active duty with the Army after being commissioned as a second lieutenant.

Applications for the two-year scholarship program should be made to the professor of military science at the student's present school. For the four-year grant, request for application forms should be made to the Commanding General, Third U. S. Army, Fort McPherson, Ga., ATTN: AJAAC-R.

To qualify for the four-year grants, students must be between 17 and 21 years old on June 30, 1965, and a male citizen of the United States. Scholarships are applicable to any school offering the four-year program for which the student is qualified.

Students applying for two-year grants must be less than 23 years old on June 30, 1965, and cadets in good standing in the second year of a four year ROTC course.

## Calibration Facility Will Be Constructed At Arsenal

Bids for construction of a missile system calibration facility for the Army Missile Command will be received on Apr. 8 at the Army Corps of Engineers district office in Mobile.

The new Calibration Center will provide specialized laboratories for calibrating instruments for use in the development, production and field support of missile and rocket weapon systems of the Army, including the Pershing, Sergeant, Nike-Zeus, Hawk, Lance, Honest John, Littlejohn, Redeye, Mauler and Shillelagh.

To calibrate the instruments to the required degree of accuracy the laboratory environment must be controlled with respect to such factors as vibration, temperature, humidity and dust level. More than 3,500 pieces of precision cal-

ibration standards and measuring equipment will be housed in the new building. The staff will include more than 100 physicists, engineers, engineering technicians and administrative personnel.

The building will be a single-story concrete masonry structure with a floor area of approximately 38,000 square feet. Special features will include clean rooms, anechoic chambers, a sheet metal radio frequency screen, and a mass concrete slab for vibration control.

## Physicist Delivers Paper At Meeting

Research conducted at the Missile Command in the field of solid state physics provided the basis for a paper presented before a conference of the American Physical Society in Kansas City last week.

Author of the paper was Dr. Richard Hartman, a research physicist in the Missile Command's Physical Sciences Laboratory. It dealt with the magnetic resonance of chlorine.

A member of the APS, Dr. Hartman is engaged in the development and application of measurement techniques for the determination of the electronic properties of solids.

The construction contract, which is expected to amount to approximately \$1 million, has been set aside for award to a small business concern in the interest of assuring such firms a fair share of Government contract work.

## Gen. Moorman Is Two-Day Visitor

The Commanding General of the Army Electronics Command, Maj. Gen. Frank W. Moorman was at Redstone Arsenal for a two-day orientation visit, Wednesday and Thursday.

Accompanying Gen. Moorman when he flew in to the Redstone Army Airfield Tuesday evening from his headquarters at Ft. Monmouth, N.J., were six members of his staff. They were met at the Airfield by Maj. Gen. John G. Zierdt, Commanding General of the Army Missile Command.

During their tour visitors will be oriented on supply and maintenance operations at the Missile Command.

Before taking over his present assignment in 1963, Gen. Moorman was Chief Signal Officer at SHAPE headquarters in Paris for three years. He was Commanding General of the Electronics Proving Ground, Ft. Huachuca, Ariz., from 1958 to 1960. He is a 1934 graduate of the U.S. Military Academy.



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Page 14 The Redstone Rocket — March 31, 1965

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## Carl Culverhouse AND ASSOCIATES



**AUSA SPEAKER**—Col. Donald D. Blackburn (second from right), guest speaker of the Association of the U. S. Army last week at the Redstone Officer's Open Mess, talks with Maj. John G. Zierdt (left) Commanding General of the Army Missile Command, Maj. Gen. Charles Billingslea, Deputy Commanding General, Army Combat Developments Command, another Arsenal visitor, and Maj. Gen. John A. Barclay (ret.), AUSA Tennessee Valley chapter president. (Photo by Huntsville Times Photographer William McCormick)

## In Vietnam, Security Is Key Colonel Tells AUSA

Security of the South Vietnamese people at the "rice roots level" is the key to victory over the Communist Viet Cong, a U.S. Army guerrilla warfare specialist told a Huntsville audience the past week.

Speaking to more than 300 members and guests of the Tennessee Valley Chapter of the Association of the U. S. Army, Col. Donald D. Blackburn said that the war in

South Vietnam could go on for many years, but eventually the communists will be defeated.

Col. Blackburn is director of Special Warfare in the Office of the Deputy Chief of Staff for Military Operations, Department of Army. Thursday's dinner meeting was held at the Redstone Officers Open Mess.

Describing the long, drawn out conflict as a "dog-eat-dog" proposi-

tion, Col. Blackburn said the United States is learning a lot about how to fight this type of war.

Because of a background of years of bondage, the people of South Vietnam have to be convinced of the good intentions of the United States in assisting them in their fight. He said that the Army's Special Forces are slowly but surely winning the necessary trust, cooperation and support of the people, both in the plateau regions and in the hill country.

Among the important actions being undertaken by U. S. Forces is the setting up and operation of medical centers to provide care for the Vietnamese. Such centers give us "open-door treatment", with thousands of villagers making use of the medical facilities.

Through advice of U. S. forces and efforts of the Vietnamese Army in "military civic actions", schools are being built, agricultural enterprises are established, industry started and roads are being built, Col. Blackburn said.

In addition to these efforts to win over the people, the U. S. Army has deployed Special Forces groups to assist in training the Vietnamese in military actions against the Viet Cong. These efforts were also outlined by the Colonel.

Col. Blackburn's experience in guerrilla warfare dates back to the early days of World War II when he escaped into the mountains of the Philippines after the fall of Bataan. He took a leading part in organizing a 20,000 man Philippine guerrilla force that fought the Japanese throughout the war in the Pacific.

His experiences in World War II were the basis of a book he authored, entitled "Blackburn's Headhunters."

Introducing Col. Blackburn at

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## Foreign Students Adopted By Clubs

Approximately 95 per cent of foreign students training at the Army Ordnance Guided Missile School have been formally "adopted" by civic groups in Huntsville, according to Maj. A. Q. Woodward Jr., newly assigned chief of the Foreign Liaison Division.

The Huntsville Rotary Club serves as city host for Germany; Huntsville Kiwanis Club has "adopted" Japan; Grace Club Auxiliary, Denmark; Business and Professional Womens Club, Greece; Altrusa Club, Italy; Lions Club, Belgium; and The Metropolitan Kiwanis, Spain.

Woodward said numerous church groups have aided the students and their dependents during their stay here, and he attributes much of the liaison division's hospitality program success to the establishment of COSERV (Council for Community Service to International Visitors) in Huntsville.

Woodward also commended the Arts Council for including the visitors in many of its programs. Last

the meeting was Maj. Gen. John A. Barclay (Ret.), president of the Tennessee Valley Chapter.

week-end, foreign students and their wives were the guests of the Huntsville Community Chorus at the group's production of "Carousel."

Some 480 students and dependents are involved in the hospitality and COSERV program.

## Procurement Specialist To Address Graduates

One of the Army Missile Command's top procurement specialists will be in Virginia Friday to address a graduating class of military and civilian employees at the Army Logistics Management Center.

He is Al Muller, Assistant Director for Procurement Operations of the Procurement and Production Directorate.

Muller will discuss the mission and organization of the Missile Command, along with procurement activities, and will show a film, "This is Redstone Arsenal."

His talk will be made to a class in advanced procurement management at Fort Lee, Va., which is headquarters of the Army Logistics Management Center.

April 4, 1951 — Supreme Headquarters, Allied Powers in Europe (SHAPE) established in Paris.

ABSOLUTE

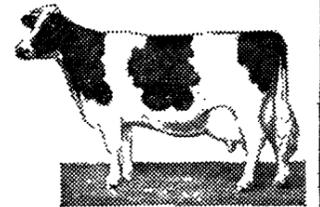
## AUCTION

Rain or Shine  
Under the Big Tent!

Lunch Will Be Served

SATURDAY APRIL 3, 9:35½ a.m.

- 98 Head of Dairy Cattle—Holstein and Guernsey
- 15 Buildings and Personal Property to Be Removed
- Approximately 1.7 Milk Base—Pet



- Belonging To The Alabama Flour Mills (Red Hat Research Farm) Located 1 Mile North of Highway 20, Five Miles West of Decatur, Ala., On the Premises of the ALABAMA FLOUR MILLS (Red Hat Research Farm)

Barns and houses to be moved on or before 45 days following sale. These buildings will be sold as a separate unit to be moved from the premises. Buildings to be sold are in excellent shape with A-1 lumber, roofing and flooring throughout.

Due to the fact that the Alabama Flour Mills (Red Hat Research Farm) have sold their farm land the entire dairy herd, milking equipment, and personal property plus farm buildings to be removed will be sold at auction April 3rd to the high and best bidder.

The herds of Holstein and Guernsey cows are among the finest and largest production dairy herds in Tennessee and Alabama. It is an extremely clean herd and no cow is over 6 years old. The cows' production records on twice a day milkings range from 10,000.00 pounds to 18,000.00 pounds. Most all of the cattle are bred to the great bulls of the A.B.S. They are all bred for production. All cows in the entire herd have milked better this lactation. Each individual animal will have a health paper that can go anywhere and will be T.B. and Bangs tested.

These 53 head that are milking now will give tons and tons of milk. In my 25 years of selling, I have never sold a cleaner or a higher producing herd than this research farm herd.

### DAIRY CATTLE

66 HOLSTEIN AND GUERNSEY COWS now milking. Production of ten thousand to eighteen thousand pounds. A few heavy springers.  
1 ANGUS BULL  
4 HEAVY SPRINGER HOLSTEIN COWS  
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- 1 wooden desk
- 1 metal filing cabinet
- 2 gas heaters
- 1 3 hp. motor pump and 80 gallon tank
- 1 2 hp. motor pump and 80 gallon tank
- 1 Shower stall
- 1 Dairy Milking Barn
- A 4 Room Dwelling House
- 1 Pump House With Pump
- 1 Light Breed Layer House
- 1 Heavy Breed Layer House
- 1 Brooder House
- 1 Bull Pen House
- 1 Calf House
- 1 Turkey House
- 1 Farrowing House
- 1 Cage House
- 1 Old Pig Palace
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- 1 Olr Broiler
- 4 8 Hole Hog Feeders

### MILKING AND FEEDING EQUIPMENT

1 complete 500 gal. Bulk Tank M.B. with compressor.  
1 complete Chore Boy Milking Unit, including pipe, 6 unit vacuum pump, electric pulsators, 3 milk meters, weigh jars.  
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2 washvats, buckets, strainers, calf buckets, and other items too numerous to mention.

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For Further Information: Contact: G. W. James, Farm Mgr., at 353-5078 Decatur, Ala.

# Nuclear Courses Offered

The University of Alabama in Huntsville is offering a short course in Nuclear Power Reactors to be held in three sessions.

Session I — Fundamentals — Nuclear Physics, March 15-19, five days—40 hours, Huntsville Campus; Session II — Health Physics and Reactor Theory, March 29-Apr. 2, five days — 40 hours, Main Campus; Session III — Nuclear Power Reactor Theory and Applications, Apr. 12-16, five days —40 hours, Huntsville campus.

This is a presentation of basic theory and technology essential to the engineering application of Mobile Nuclear Power Reactors. The object is to provide: the engineer or scientist, who has no special background in nuclear energy, a broad concept of the nature of reactor problems; to enable him to perform a limited amount of engineering solutions to practical problems in nuclear reactor applications; to give him a basis for preparation for further study in nuclear power reactor engineering; and to arouse in the qualified engineer, an awareness, familiarity and sense of proportion in nuclear power reactor engineering problems.

Due to the interest displayed in the first session and at the request of many local people, it has been decided to increase the enrollment for the third session, Apr. 12-16, in Huntsville, covering Nuclear Power Reactor Theory and Applications.

This third session will cover discussions of Nuclear Reactor Applications by Dr. William B. Harrison, who is the Director of the School of Nuclear Engineering at the Georgia Institute of Technology, and Dr. Raymond L. Murray's synoptic review of the Nuclear Reactor Theory.

On Monday, Apr. 12, Dr. Dan L. Hollis, Associate Professor of Aerospace Engineering, University of Alabama will discuss group theory and formulation of Differential Equations, and temperature effects and time variation effects on reactor systems. Dr. Harrison will cover nuclear reactor facilities development and comparison of reactor systems on Tuesday, Apr. 13. On Wednesday, Apr. 14, and Friday, Apr. 16, Dr. Murray will discuss synoptic re-

view of Nuclear Reactor Theory, criteria and procedure for preliminary reactor design, Instrumentation control and safeguard analysis, and measurements on nuclear reactor properties and behavior. On Thursday, Apr. 15, Dr. Levedahl, Manager, Research Nuclear Division, The Martin Company, will cover short-cut design approximation procedures.

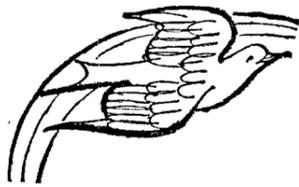
Enrollment for the last quarter may be made by individuals whose background is in Nuclear Engineering or possess a background equivalent to those persons who attended the first two weeks of the current short course.

There will be ample time for class discussion and a symposium covering the aforementioned topics.

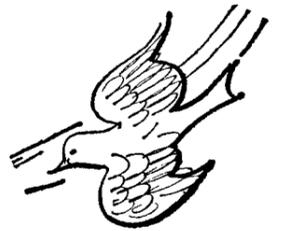
Any person interested in applying for admission to the third session, please contact D. J. Kieselbach, Director of Short Courses, University of Alabama, Huntsville, at 837-4700, Extension 259.



**PRESENT EXAMINED**—Col. William J. Macpherson, (second from left), Ordnance Guided Missile School commandant, and Mrs. Mabel Hoffmeyer, director of the school Technical Library, examine a work from a collection of unusual books presented to the library by Japanese officers at the school. Col. Mikio Kimata (center) presented the collection at a reception in the library. Lt. Col. Yoshisuke Hirai (far left), Japanese air liaison officer, and two Japanese students, Capt. Yutaka Hayashi (second from right), and Capt. Shigemitsu Kitamura were among the donors to the collection.



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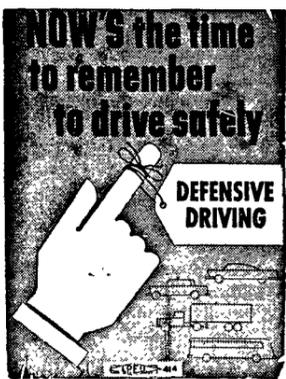


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