

# The Redstone Rocket

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VOL. XIII; NO. 20

REDSTONE ARSENAL, HUNTSVILLE, ALABAMA

SEPTEMBER 23, 1964

Arsenal-Wide

Spot News

Dial 112

## Shillelagh Transfers To Redstone

Management of the Army's Shillelagh weapon system has been transferred to the U.S. Army Missile Command from Rock Island, Ill., the Army Materiel Command announced Monday.

The action separates management of the missile system from the Sheridan light weight armored reconnaissance vehicle which had been combined as the Sheridan/Shillelagh Project Office under the Army Weapons Command.

At the same time this change was revealed, it was also announced that Lt. Col. R. M. Pearce has been named Shillelagh Project Manager. He has been serving as Liaison Officer to the Missile Command for the Combat Development Command.

Shillelagh is a highly accurate direct fire guided missile which will provide troops with close support against moving or stationary targets. The system is highly effective against tanks, troops and field fortifications. Its designation as a project managed system comes as a result of potential application to other combat vehicles and helicopters in addition to Sheridan.

Although the Shillelagh has now been placed under separate project management, Col. Pearce will continue working closely with other Army commands which direct development of carriers on which the weapon might be mounted.

The Shillelagh Engineering Division, which has been at Redstone under Mr. E. R. Edmondson, will (See SHILLELAGH on Page 3)

# Zeus Intercepts Satellite

## McNamara Reveals Army's New Space Defense Role

WASHINGTON, D.C. — Secretary of Defense Robert S. McNamara Friday revealed that the U. S. Army had successfully intercepted a satellite in orbit about the earth.

Mr. McNamara said the Army's Zeus missile successfully intercepted a satellite a year after he directed the Army to establish the satellite intercept capability in May 1962. He named the Air Force's Thor missile as the interceptor in a second anti-satellite system.

President Johnson had revealed the existence of the two satellite defense systems the previous day.

The Defense Secretary revealed very few details about either system.

Col. I. O. Drewry Jr., Nike-X Project Manager, and his staff at Redstone Arsenal which direct world-wide development activities of the Nike-X missile defense system which employs the Zeus missile as a long range interceptor made no public comment on the announcement.

The complete text of Secretary McNamara's announcement, released to the press at 9 a.m. Friday follows:

"As you know, the President said yesterday that the United States is able to intercept and destroy armed satellites. I would like to give you, within the limits of security, some additional information.

"The two anti-satellite systems which President Johnson discussed are operated by the Army and the Air Force. They are under operational control of the Continental Air Defense Command. They make use of certain Navy facilities as well.

"The Army system uses the Nike Zeus missile while the Air Force system employs the Thor. Both use data from our global space detection and tracking networks which include various radars, sensors and computers.

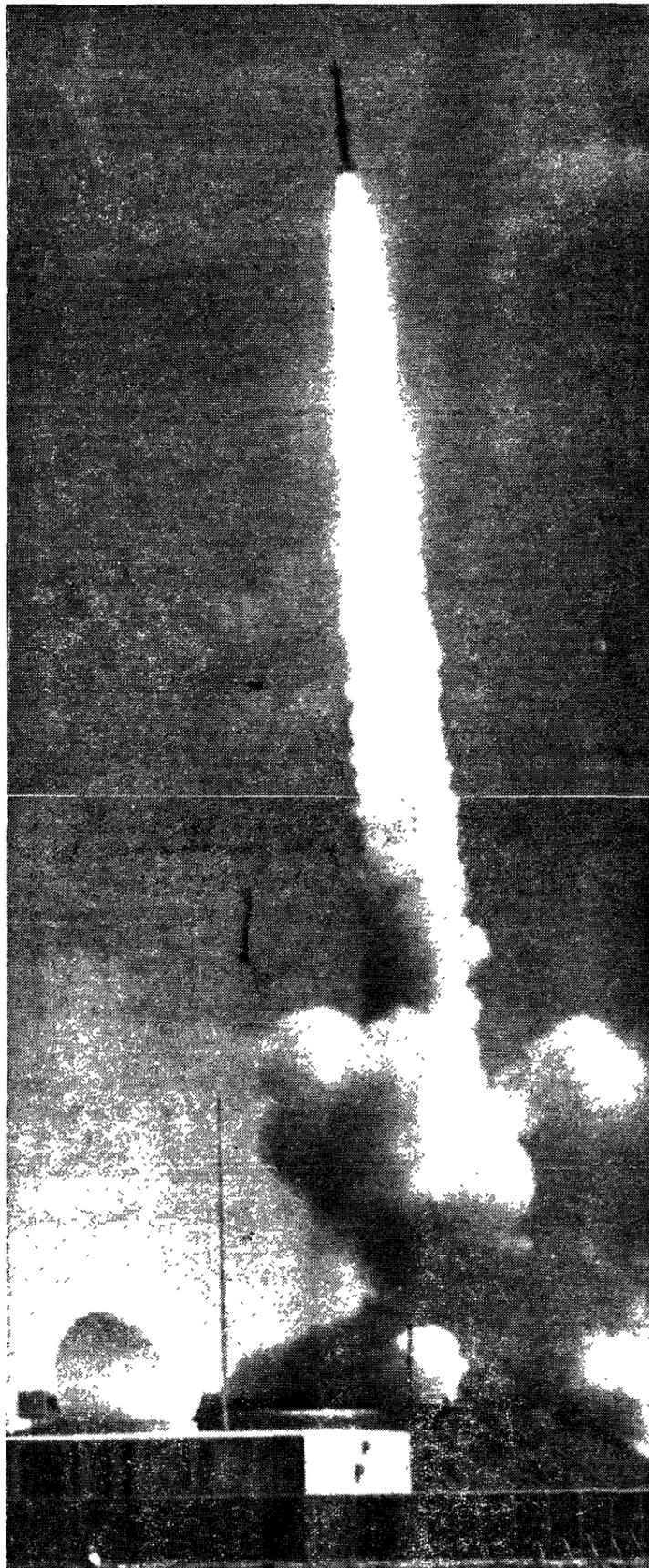
"The Army program to develop an anti-satellite capability was begun in May, 1962, and the Air Force program early in 1963.

"It is especially significant that both the Army and the Air Force successfully intercepted a satellite a year after I directed them to achieve this capability. The Army system was operational 1 Aug., 1963. The Air Force systems on 29 May, 1964.

"The two systems have been effectively tested and have intercepted satellites in space, their missiles passing so close as to be within the destruct radius of the warheads.

"The bases at which these anti-satellite systems are deployed is classified information.

"To date, we have invested \$80 million to achieve this capability. This figure does not include the funds we are spending on (See ZEUS INTERCEPTS, Page 3)



U. S. ARMY ZEUS  
First ICBM Intercept First Satellite Intercept

## Col. Pearce To Manage Shillelagh

Lt. Col. Robert M. Pearce, a veteran of more than 15 years in the missile business, has been named Project Manager of the Shillelagh Missile Project, the U. S. Army Materiel Command announced Monday.

Col. Pearce has been serving as the Army Combat Development Command Liaison Officer at the Army Missile Command since November, 1962. Prior to that he was Battalion Commander of the First Missile Battalion, 42nd Artillery in Korea.

(See COL. PEARCE on Page 3)



Lt. Col. Robert M. Pearce



**LETHAL SHILLELAGH**—The Shillelagh tactical missile packs a far greater wallop than its Irish namesake. Shillelagh is being developed for the use of front-line troops against armor and field fortifications. The guided missile is fired from the same 152mm gun/launcher tube that fires regular ammunition.

## Kickoff Meeting Launches 1965 UGF Fund Drive Here

Calling on all Arsenal personnel to work together in the best interests of their community, Maj. Gen. John G. Zierdt officially opened the 1964 Redstone United Givers Fund campaign yesterday at the Rocket Auditorium.

The Commanding General of the U.S. Army Missile Command delivered the keynote address at the kickoff rally, the traditional opening of the annual drive. Attending the rally were the campaign officials and agency chairmen representing every unit and organization included in the drive.

Also appearing on the kickoff program were, Col. Thomas W. Cooke, Commander of the U. S. Army Missile Support Command, J. F. Peters, Chairman of the Huntsville-Madison County UGF, and Dennis Garrison, president of the Redstone Chapter of the American Federation of Government Employees.

In urging a strong coordinated effort toward a successful conclusion of the drive, Gen. Zierdt said that he considered the UGF campaign to be the "highlight of the

(See KICK-OFF on Page 3)

# The Redstone Rocket

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

All advertising copy and payments therefor are received by Mrs. Zillah T. Hearh, Huntsville, Ala., P. O. Box 346, telephone 534-4701, as representative of the publisher. Advertising deadline—both display and wanted—is noon of Friday before publication.

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## Rocket Ruminations

Out of the strain of the Doing, Into the peace of the Done.  
—Julia L. M. Woodruff

## Cost Reduction

The performance of the Missile Command in the 1964 Cost Reduction Program is gratifying.

But, I do not want you to rest on past laurels. I hope all of us will look to the future. The Missile Command has been assigned a cost reduction goal of more than \$40 million for Fiscal Year 1965. This is a challenging goal but one that is not beyond our reach.

Cost reduction is everyone's business at the Missile Command.

I look to each of you for success in the Command's efforts, and I am confident that with the same fine support you gave the past year, we will not only meet our commitments, but will surpass them.

A year ago today I came back to the Missile Command as Commanding General. I said then: "Let's get to work and see what we can do."

I say it to you again now and I am confident that you will respond as you have in the past.

John G. Zierdt  
Major General, USA  
Commanding

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## Logistics Center Gives Col. Watson Scholastic Award

FORT LEE, Va.—Lt. Col. Henry L. Watson of the U. S. Army Missile Command was named the top student in the Defense Advanced Inventory Management Course at the U. S. Army Logistics Management Center here.

In recognition of his achievement, Col. Watson received the Defense Supply Association plaque. This marked the first time that the DSA plaque was awarded at the Center.

Making the presentation was Col. Seaton F. McDaniel, Chief of the Supply Management Division at the U. S. Army Supply and Maintenance Command, Washington, D. C. Col. McDaniel was the speaker at the Sept. 11 graduation exercises.

The DSA plaque will be presented to outstanding students in certain courses at the Center throughout the year. In addition to the Defense Advanced Inventory Management Course award just made, the plaque will go to: runner-up to outstanding student in the Center's senior Army Supply Management Course, twelve weeks in length; top student in the Defense Advanced Disposal Management Course, Defense Inventory Management Course, Defense Depot Operations Management Course, and Defense Procurement Management Course, all offered on a joint basis and five or more weeks in length.

Col. Watson is supply project officer in Supply Operations, Directorate of Supply and Maintenance at the Army Missile Command.

The Army Logistics Management Center is observing its tenth year as the only Department of the Army agency offering postgraduate level courses in logistics management.

May 20-21, 1927—Charles A. Lindbergh makes solo nonstop flight from Mineola, New York, to Paris; time, 33½ hours.

Sept. 29, 1956—Development militarized (FIELDATA) computer contract was awarded for the first (MOBIDIC).

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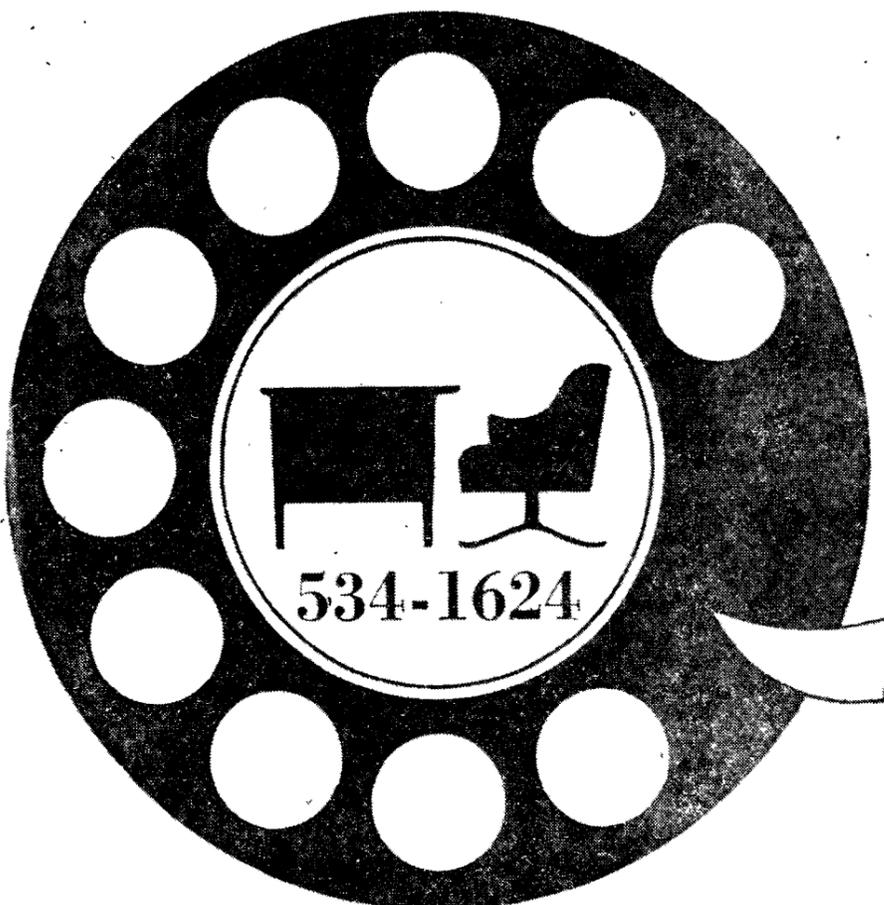
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**KICK-OFF**

(Continued from Page 1)

year in our community relations." He asked the agency chairmen in attendance to conduct their drive by personally contacting every worker in their respective area. He urged them to discuss the aims and objectives of the various agencies and encouraged them to share in this very worthwhile community effort.

He said, "The voluntary contribution of our time and money to help others is a cherished American tradition. Nowhere else on earth," he added, "Do the citizens of a country contribute so generously of their assets toward the overall well being of their community."

The General went on to review the performance of Arsenal personnel in the 1963 drive and commented that over 99 per cent of the total Arsenal work force had contributed to the over \$200,000 which was turned over to United Givers Fund agencies in 33 Alabama and Tennessee counties.

He said, "This is indeed a remarkable record and one which each of us can claim a share of the credit."

Gen. Zierdt said that the area in which we should strive to improve this year is in Fair Share contributions. Last year the percentage of donors making a Fair Share contribution was slightly less than 70 per cent. In his keynote remarks, the Commanding General urged solicitors to stress the Fair Share contribution.

He said that, "I hope you will explain the convenience of making one contribution for all of the worthwhile services that are being performed."

"In this way," he added, "those persons who make a fair share contribution will do so out of a sincere desire to be counted as Fair Share Givers."

Peters spoke on behalf of the Huntsville-Madison County UGF and explained the method of establishing the budget for the various agencies. He commented that a dedicated group of local citizens, including three Arsenal people,

**ZEUS INTERCEPTS**

(Continued From Page 1)

items like the space detection and tracking system and the anti-ICBM systems."

President Johnson Thursday had also revealed a new "over-the-horizon" radar which Mr. McNamara discussed briefly.

"The family of over-the-horizon radars also announced by the President is one of the most dramatic examples of new developments. These new systems will bounce radar signals off the ionosphere and send them to the earth far beyond the horizon.

"These signals are then processed by electronic techniques to provide target detection and identification.

"Capability also exists against aircraft.

"More than \$50 million has been invested in these programs to develop and produce installations for these missiles and aircraft detection systems. This radar will provide detection of missiles within seconds of launch at a distance of several thousand miles."

had put in a great many hours in review of the requests from the activities prior to preparing the campaign objective.

"I can assure you," he said, "the quantities that are listed for each organization represent the bare minimum that it will take for them to operate during the coming year."

Col. Cooke urged all of the organizations represented to follow the lead of the U. S. Army Missile Support Command by "standing up and being counted among those who annually pay their rent for living in a community such as ours."

He said that, "It is because we have paid our rent in the past that we have a growing and prosperous community in which to live."

The Colonel went on to cite a number of organizations with the Support Command that had already pledged 100 per cent Fair Share to the campaign.

**COL. PEARCE**

(Continued From Page 1)

The Shillelagh Project Office was recently assigned to the Missile Command by a directive from the Materiel Command in Washington, after a decision was made to separate the Sheridan/Shillelagh Project. Such a change permits the potential application of the Shillelagh missile for other uses.

Col. Pearce is on his second tour of duty at Redstone Arsenal. In 1956-57, he was assigned to the Army Ballistic Missile Agency when he left to attend the Command and General Staff College at Fort Leavenworth, Kansas. He was then assigned to the Office of the Chief of Army Research and Development in Washington until he joined the 42nd Artillery in 1961.

A native of Louisville, Ky., Col. Pearce attended the University of Louisville and graduated from the United States Military Academy in 1944. He earned a Master's Degree in aeronautical engineering at New York University in 1948.

His experience with missiles began in 1948 when he was assigned to the Armed Forces Special Weapons Project Field Command in New Mexico.

Shillelagh is a highly accurate missile which provides troops with close support against moving or stationary targets, including tanks, troops and field fortifications. It is a direct fire weapon which can use either missiles or conventional ammunition.

Shillelagh is capable of being mounted on a wide variety of combat vehicles, including helicopters.

Col. Pearce is married to the former Miss Elizabeth Yow of High Point, N. C., and they have three children, Robert M. Jr., Perry Elizabeth and David.

The family lives at 16 Ripley

**SHILLELAH**

(Continued From Page 1)

form a nucleus of the new Project.

This brings to nine the number of missile systems now under Project Management at the Missile Command.

The Aeronutronic Division of Philco Corporation, a subsidiary of Ford Motor Company, located at Newport Beach, California, is the prime contractor for Shillelagh.

Drive, Redstone Arsenal, Ala.

**IG WILL LISTEN**

The inspector general of the Department inspection team will be available from 1-2 p.m. Oct. 6 to hear complaints from personnel at the Army Ordnance Guided Missile School.

One or more officers with the team will be available in room 4 in the Library building (Bldg. 3323).

Sept. 20, 1951 — First troop movement in a combat zone by helicopter accomplished when a company of Marines is airlifted ten miles to a Korean frontline position.

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**GERMAN ROCKET SCIENTIST**—Pvt. Ocke Fruchtnicht is one of the Army's new breed of German rocket experts. Born in the United States of German parents, he is now a chemist with the Army Missile Command. He is holding samples of metal which he has coated with various compounds, seeking a self-healing finish which will prevent corrosion even if scratched.

## Germanborn Soldier Is Army Scientist

The title "German rocket scientist" seems to come as naturally as Spanish bull fighter and Irish cop. The nationality and the occupation seem to associate themselves like ham and eggs.

The Army recruited its first rocket scientists from among the Germans at Peenemuende. Today they are still being recruited—

but under different circumstances. Pvt. Ocke (pronounced "Okie") Fruchtnicht is an example. The son of German-born parents, he is assigned to the Army Missile Command at Redstone Arsenal.

Pvt. Fruchtnicht, a chemist, is a member of a special category of enlisted men known as Scientific and Engineering Personnel. He

works in the Missile Command's Directorate of Research and Development, which does missile research ranging from study of propellants to experimentation with lasers.

The 24-year-old slender built and soft-spoken Pennsylvania Native is a member of the Directorate's Structures and Mechanics

Laboratory.

He is searching for a self-healing coating for magnesium, a light but strong metal used extensively in missile systems. The coating Pvt. Fruchtnicht is searching for would prevent magnesium from corroding and even if scratched would heal itself to prevent corrosion from getting a toehold in the metal.

He would like to find a coating which could be applied to any metal to give it the same protection. Far from being limited to missile use, such a protective coating would prove to be a boon to owners of automobiles, refrigerators and washing machines.

Pvt. Fruchtnicht graduated from Penn State last September and was inducted into the service in January of this year. After taking basic training at Fort Gordon, Ga., he was assigned directly to Redstone Arsenal.

He works with seven other chemists—all civilian employees of the Army—and three college students who are working on the co-op plan.

The lab he rates as "very well equipped." His job he describes as "a good chance for experience."

A number of the Army's S&Es remain as civil service employees after their military enlistment ends. However, Pvt. Fruchtnicht is still thinking of the field of forensic chemistry — chemical sleuthing.

He became interested in this unusual type of police work while

in college. The FBI has one of the world's outstanding forensic chemistry operations. Its laboratories have been able to solve crimes by analyzing such minute clues as chips of paint, specks of dust and strands of hair.

But, right now Pvt. Fruchtnicht symbolizes the Army's S&E program when he comes to work each morning and pulls a plain white laboratory coat over his khaki uniform. He becomes a young chemist doing a job, and according to Edgar Verchot, his boss, a good one at that.

### \*\*\*\*\* Movie Schedule \*\*\*\*\*

WEDNESDAY, 23 Sept.

"Ready for the People" (M-YP)

THURSDAY-FRIDAY, 24-25 Sept.

"A Hard Day's Night" (F)

SATURDAY, 26 Sept.

"Robinson Crusoe on Mars" (F)

SUNDAY-MONDAY, 27-28 Sept.

"Kisses for My President" (M-YP)

TUESDAY, 29 Sept.

"The Thrill of It All" (M-YP)

Two shows nightly at 6:00 and 8:30 p.m.

Saturday matinee at 1:00 p.m., and

Sunday matinee at 2:00 p.m.

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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.	18 mos.
\$36			\$ 573.46
50		\$1260.51	796.46
70	\$2084.75	1773.92	1115.05
100	\$3000.00	2556.53	1596.33

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# Research And Development Will Fly Minuteman Flag

A fifth "Minuteman Flag" will soon be flying at Redstone Arsenal.

The "Minuteman Flag", awarded by the U. S. Treasury Department, signifies more than 90% personnel participation in the U.S. Savings Bond Program.

The latest Army element here to earn the honor of flying the flag is the Research and Development Directorate of the Army Missile Command.

Col. David Marcelle, Redstone Finance and Accounting Officer, made the announcement this week,

saying that the R&D Directorate had reached 91.1% participation in the program.

The flag is expected to be awarded formally in mid-November during a U. S. Treasury Department Regional Conference to be held at Redstone.

Redstone organizations already flying the "Minuteman Flag" are:

The U. S. Army Missile Support Command, the Army Ordnance Guided Missile School, and the Missile Command's directorates of Supply and Maintenance and Procurement and Production.



LIKE TRIMMING A TREE—An Army Missile Command information booth to be used at several area and state fairs in the Southeast gets finishing touches by Anita Gracy and Eill Higgins, both illustrators in the Directorate of Research and Development. The illustrators are part of the Visual Information Branch, which assists in preparing state fair displays each fall in addition to their normal duties.

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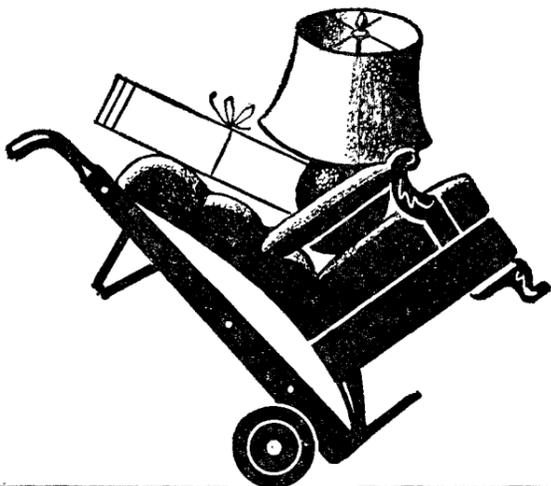
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75	13.81	7.53	7.27	\$ 5.90
100	18.46	10.05	14.51	11.81
200	36.92	20.09	21.51	17.42
300	55.09	29.87		

Cash You Get	MONTHLY PAYMENT PLANS		
	12 paymts	24 paymts	30 paymts
\$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

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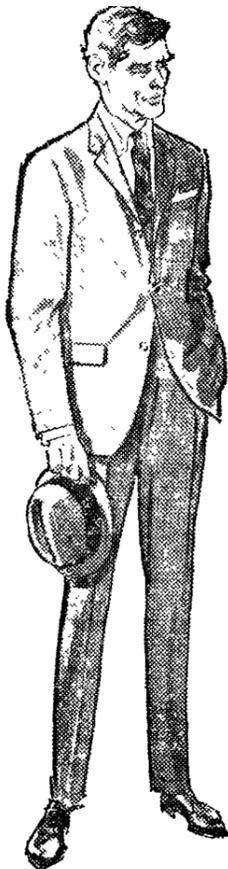


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# SOCIAL <sup>and</sup> CLUB EVENTS

## Distaff Foundation Ball Plans Virtually Complete

"Confirm your reservations with whomever sells you a ticket," is the advice offered by Capt. Saffron Canja, ticket coordinator for the Army Distaff Foundation Fund dance being sponsored by the Redstone Arsenal Officers Wives Club Saturday night.

Sale of a ticket alone is not enough. The number of participants in the annual Harvest Ball is limited to 600 and in order to be assured of a seat during the buffet supper and dancing, the club must have the reservations list in hand before Saturday.

In addition to dancing Capt. Jack Farrington, chairman of the entertainment committee has promised a folk singing group led by Jeff Tucker, vocal soloist Marjorie Canja singing popular songs accompanied by Capt. Farrington on the piano and the chorus line from the Huntsville Little Theater production of "Guys and Dolls."

There will be no ticket sales at the door Saturday night.

The Distaff Foundation dance is sponsored by the Wives Club as



**PROGRAM LOOKS GOOD**—The officers of the Retired Officers Auxiliary, Redstone Chapter, discuss their program for the year during lunch last Tuesday at the Officers Club. Seated, left to right, are: Mrs. Robert Van Roo, recording secretary; Mrs. H. A. Miller, corresponding secretary; Mrs. Harvey Sorenson, vice-president; and Mrs. G. E. Mullins, president. Standing are Mrs. William J. Callahan, treasurer, and Mrs. G. B. Keith, parliamentarian. The group meets at 9:30 a.m. on the third Tuesday each month at the Officers Club for bridge and canasta followed by lunch and a program.

their contribution to the widows and other female dependents of deceased Army officers who have no community roots and whose income is not sufficient to completely cover their needs.

## Chamber Music Guild Offers Season Tickets

For the first time since its organization, the Huntsville Chamber Music Guild is offering season membership to the public, according to the President, Mrs. Gale Pershing.

There are four concerts scheduled for the 1964-1965 season.

"During the two years of its existence, the Chamber Music Guild has presented seven concerts," Mrs. Pershing said. "We now feel that more people will be interested in chamber music concerts by local musicians and by the guest artists."

On Oct. 20, the Guild will open its season with a recital of sonatas by Handel, Prokofiev and Cesa Franck. Marvel Smythe will be violin soloist and Barbara Schmieler will be piano soloist. An evening of baroque music is

scheduled Dec. 15. Works will include a cantata by Bach for solo baritone with obbligato oboe and strings. Albert Lane will sing.

An evening of music by Mozart will be the Feb. 25 concert. Robert Edmonds will be the solo clarinetist. Works to be heard will be a string quartet, a piano quartet and the great clarinet quartet.

At the April 13 concert, Charles G. Tedford, baritone, and Drora Pershing, pianist, will be heard in a complete song cycle by Schubert.

If the response to the membership drive should be as good as hoped, Mrs. Pershing said, the Guild will sponsor a fifth concert during the season which will be a performance by a professional group.

All concerts will be in the Temporary Civic Arts Center auditorium. Dates have been scheduled to avoid conflicts with other performances.

Persons interested in memberships may contact The Arts Councils, Inc., 311 Clinton Avenue, West, Huntsville, Alabama.

## Mass To Be In English

The Mass in the new English translation will be offered by Father Bryce Joyce at noon as a part of the Catholic Women's Solidarity Day of Recollection on Wednesday, Sept. 23.

Father Joyce, a Benedictine Father from Sheffield, will lecture during the morning and the early afternoon on the New Liturgy of the Church and methods for assisting at the Mass.

All interested persons are invited to attend. The Day of Recollection will begin in the Post Chapel at 9:00 a.m. and will continue until 3:00 p.m. The Rocket

### Win At Bridge

The Monday night bridge group had six tables of players in competition at the Squirrel Hill Officers Club last week.

Winners were Mrs. Robert Newell for the women and G. R. Dunlap for the men

Second high were Mrs. A. V. Garrabrant and Lt. A. Tamaka.

Reservations to play with the group are made with Mrs. J. N. Crawford, 877-5763.

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**A NEWCOMER WINS**—Mrs. D. R. Davis proudly installs the Redstone Garden Club Yard of the Month plaque in her front lawn at 437 Simpson Drive. She and Col. Davis arrived here this summer and promptly started improving and beautifying their lawn and garden. Col. and Mrs. Cyril D. Sterner, 46 Ripley Drive, received Honorable Mention this month.

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## AGENCY CHIEFS REPORT SUCCESS BEFORE KICKOFF

For one Arsenal agency chairman, the UGF kickoff rally at the Rocket Auditorium yesterday, was more of a victory celebration than concluding a highly successful drive.

Bob Malone, who handled the campaign in the Office of the Deputy Commanding General, Land Combat Systems has not only completed his solicitation, he has already banked all of the pledged contributions.

Early last week he completed

his work as agency chairman when he deposited \$759 at the Arsenal branch of the First National Bank. This contribution totaled \$23 more than the accumulated Fair Shares for the 25 persons involved.

In addition to Gen. Eifler's office staff, the personnel of the Honest John/Littlejohn and the Anti-Tank/Aircraft Weapons Commodity Offices are included in the agency.

Another agency chairman who has completed the spade work toward a highly successful drive is Chester Hull, who represents the Redstone Area Office of the Mobile District, Corps of Engineers.

Hull and his alternate, James Mitchell, have not only solicited the 35 employees of that unit, but have already received pledges

## White Sands Graduates GIMARETS

Twenty-five people at White Sands Missile Range have new diplomas on their walls this week saying they are GIMARETs.

GIMARET stands for Graduates In Multi-function Array Radar En-

gineering Techniques. The Multi-function Array Radar, shortened to MAR, is the new Nike-X missile defense system radar which is undergoing testing at White Sands.

It was built at the direction of the Nike-X Project Office at Redstone Arsenal. The 25 graduates (23 military and two civilians) are the first group to complete a course in testing procedures required for personnel who will work with the radar. The five-week course was conducted by the Western Electric Co., prime contractor on the Nike-X System.

The graduates are now participating with the contractors in engineering development tests of MAR.

The training course covered phases in functional analysis of the MAR theory of operation. MAR works on the theory that radar beams can be bent electronically by playing one beam against another. This procedure calls for delicacy in timing far exceeding man's limited capabilities, therefore MAR utilizes an extremely fast computer to control the beams.

MAR combines the functions of three separate radars for formerly used in the Nike-Zeus anti-missile system; and acquisition radar used in detecting missile warheads at long range, a target tracking radar for pinpointing the location of the warheads, and a discrimination radar for sorting out live warheads from decoys.

May 6, 1942—General Jonathan Wainwright forced to surrender unconditionally all U. S. forces in the Philippines.

from seven contractors who are doing business on the Arsenal. These are, AAA Electrical Contractors & Engineers, C & B Construction Co., Inscho's Mechanical Contractors, E. C. Ernst, Inc., Jones & Hardy Construction Co., Pearce and Gresham Co., and Pool & Kent.

The largest single agency on the Arsenal, the Army Missile Support Command, is also well on the way to a highly successful campaign, according to early reports.

Leonard Brockman, agency chairman for the Support Command, indicated that at least 12 units of the Command had received Fair Share pledges from all of their workers.

They are: Office of the Commander; Veterinary Service; Safety Division, Post Exchange; Publications Branch; Records Management Branch; Property Disposal Division; Explosives Division; Office of Chief, Post Engineers; and the Office of Chief, Technical Staff and Administrative Staff, Assistant for Communications.

June 16, 1775—Quartermaster Corps, one of the "Technical Services which was a predecessor of Army Materiel Command, was established when the second Continental Congress passed a resolution providing for "one quartermaster general for the grand army, and a deputy, under him, for the separate army."

Sept. 3, 1919 — Pershing designated General of the Armies.

## Graduation Is International

An International graduation ceremony honoring some 83 top missilemen of the U.S., Germany, Italy and the Netherlands was staged Friday at the Army Ordnance Guided Missile School.

Highlight of the formal ceremony was a keynote address by Maj. Verne C. Wolfe, director of Unit Training at the missile academy. Following the address, Maj. Wolfe presented honor student awards to three Americans, three Germans and an Italian missile student.

The 83 students are part of an 18-nation set up of missilemen now training at the Missile School. Honor students included S/Sgt. Lawrence Vultaggio, Pvt. Morton T. Nielsen and Sp/5 Fay H. Gilbert Jr. of the U. S. Army; Pfc Barrow, Sgt. Horst Eibert and 2/Lt. Rolf Baessler of Germany; and Sgt. Gianni Donato of Italy.

The honor students were high men in their Hawk, Nike, Sergeant and Pershing missile course.

June 16, 1775—Quartermaster Corps, one of the "Technical Services which was a predecessor of Army Materiel Command, was established when the second Continental Congress passed a resolution providing for "one quartermaster general for the grand army, and a deputy, under him, for the separate army."

Sept. 3, 1919 — Pershing designated General of the Armies.

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# This Is National Cost Reduction Week Ar

BY JOHN U. FOHNER, SR.  
Chief, Cost Reduction Office

Page 8 The Redstone Rocket — Sept. 23, 1964

In FY 1964 MICOM saved \$62.5 million through the cost reduction program. Cost reductions have been made through improvements in operating efficiency, by reducing or avoiding inventory investments in supplies, equipment and facilities, by buying services and hardware at the lowest sound prices, and by reducing operating costs across-the-board in-house and out-of-house. Reported savings are those which have been validated by Army Audit Agency, approved by AMC or measured in terms published in AR 11-20.

## Buy What We Need Saves \$24.2 Million Through:

- (1) Refining the requirements calculations
- (2) Increased use of excess and long supply inventories
- (3) Elimination of goldplating through value engineering.

### Refine Requirements

In this objective, MICOM reported improvements in the amount of \$10.2 million dollars. In initial spares D/S&M took 116 actions with resulting savings of 3,202,000 or 360 percent of the 1964 goal of \$890,000. Savings are: Pershing, \$2,396,000; Nike-Hercules, \$446,000; Sergeant, \$343,000; others, \$17,000.

In the secondary items area, D/S&M took 159 actions with resulting savings of \$3,580,000 or 158 percent of the 1964 goal of \$2,260,000. Savings are: Hawk, \$1,222,000; Pershing, \$1,140,000; Sergeant, \$940,000; Nike-Hercules, \$225,000; Honest John, \$53,000.

In refining quantitative and qualitative requirements in the acquisition of equipment publications, 34 cost reduction actions with resulting savings of \$3,482,000 or 407 percent of the 1964 goal of \$800,000 were taken by the D/S&M. Savings are: Hawk, \$90,000; Hercules, \$492,000; Sergeant, \$2,048,100; Pershing, \$399,800; Lacrosse, \$224,000; others \$227,700—Total \$3,482,000.

Major emphasis in technical data and reports during the past year has been through intensive studies and research devoted toward reducing and controlling contractor data and reports on ongoing contracts (MICOM reported \$42,000 savings) and avoiding costs on new contracts.

### Increase Use of Excess Inventories

In the equipment and supplies area validated savings generated by the receipt of material (as excess in lieu of procurement) at the level of the D/S&S Inventory Control Point (ICP) were \$4,692,000. Savings for transfers of material to Non-ICP activities within the Army totaled \$29,553,000. These savings are being reviewed at Army level for approval. Savings through receipts in lieu of procurement are: Honest John, \$4,513,000; Nike-Hercules, \$122,000; Nike-Ajax, \$38,000; Hawk, \$9,000; All Systems, \$10,000.

Through the screening lists of excess contractor inventory the Directorate of Procurement and Production in coordination with Project Managers used \$3,388,000 in excess contractor inventory in lieu of new procurement.

### Eliminate Goldplating

The third objective in buying only what we need is the elimination of goldplating through value engineering.

One of MICOM's major efforts in cost reduction is to eliminate from our procurement specifications costly materials and fabrication processes not essential to the proper functioning of the items bought.

FY 1964 validated savings of \$5,861,000 million are: Hawk, \$137,500; Hercules, \$1,110,700; Targets, \$3,200; Pershing, \$2,694,500; Sergeant, \$977,000; Lance, \$694,800; HJohn/LJohn, \$8,000; D/S&M \$17,900; Watertown, \$198,400; others \$19,000.

### Buy At The Low Sound Price

Secretary McNamara has said that "by improving our procurement practices we can save almost as much as we can by improving our methods of determining requirements." To further his point, the Cost Reduction Program emphasizes these areas:

- (1) Shifting from non-competitive procurements
- (2) Shifting from Cost-Plus-Fixed-Fee to Fixed Price or Incentive Contracts
- (3) Direct Purchase Breakouts

### Shifting From Non-Competitive To Competitive Procurement

Increased competitive procurement at MICOM saved (validated) \$4,692,000 in FY 1964. Savings for FY 1964 were: Hawk, \$1,157,655; Pershing, \$2,528,953; Targets, \$11,053; Little John, \$142,226; Hercules, \$35,235; the balance was in high dollar replenishment parts.

### Shifting From CPFF To Fixed Price Or Incentive Contracting

Beginning in FY 1962, AMC set specific goals for MICOM in the reduction of CPFF contracts in each of the three following fiscal years. On the basis of an adjusted responsibility in the management of various systems since FY 1962 we have reduced CPFF contracts from 69.4% of a net procurement of \$834.2 million in FY 1962 to 23.8% of \$653.9 million net procurement in FY 1964. The value of annual awards under CPFF has declined from \$583.0 million in FY 1962 to \$156.0 million in FY 1964.

MICOM FY 1964 estimates of savings in reducing CPFF is \$29,820,000 based on 23.8% of total net procurement and a conversion amount of \$298,000,000 in the switch from CPFF to fixed-price of incentive contracts.

### Reduction Of Operating Costs Saves \$3.7 Million

The third broad objective of the costs reduction program is to increase the efficiency of supply, maintenance, communications, transportation, real property management, general administrative activities and mission support functions. The major areas of emphasis are the consolidation and standardization of operations, and increasing efficiency of operations. MICOM 1964 validated savings in consolidation and standardization of operations totaled \$248,000 and were: Data processing systems, \$144,000; Local logistic services, \$25,000; Improvement of management functions, \$142,000.

MICOM FY 1964 validated savings in the objective increasing efficiency of operations were \$3,515,000 in: Telecommunications, \$385,000; Transportation, \$126,000; Equipment maintenance, \$335,000; Non-combat vehicles, \$141,000; Use of contract technicians, \$1,926,000; Military housing, \$127,000; Real property, \$294,000; Packaging, preserving, packing, \$181,000.

### Improving Equipment Maintenance Management

Savings reported by the Directorate of Supply and Maintenance by missile systems are as follows. Honest John, \$200,000; Redstone, \$40,000; Lacrosse, \$26,000; Entac,

## MICOM VALID SAVINGS

FY 1964  
(Millions)

Buying Only What We Need	----\$24.2
Buying at the Lowest Sound Price	-----\$34.5
Reducing Operating Costs	-----\$ 3.8
<b>TOTAL</b>	<b>-----\$62.5</b>

## REDUCING COST IS THE BUSINESS OF EVERYBODY

BY: JOHN U. FOHNER, SR.  
Chief, MICOM Cost Reduction Office

As a preface to any discussion of the cost reduction (CR) program the importance of the individual in a program such as this cannot be stressed too emphatically. The Secretary of the Army has said: "In a program as widespread as this; the little man, the guy at the working level, has got to be with you." The credit for the MICOM accomplishments is due to the hundreds of people involved in all areas of MICOM operations. If accolades are due, and they are for the FY 1964 accomplishments, they are due to all levels of MICOM management — the top management, the mid-management, the branch and section chiefs — and the hundreds of individuals who are the "little guys at the working level."

### People Make Success

The most encouraging thing about our FY 1964 performance was not the \$62.5 million savings, was not the fact that we exceeded our goals, but the fact that so many of the MICOM people demonstrated by their actions that they accepted the challenge laid down by General Zierdt when he assumed command and said to all Command personnel: "I intend to make the success of this program a matter of continuing personal attention and I expect you to do the

\$25,000; Administrative Equipment, \$42,900.

### Use Of Contractor Technicians

Savings reported by the Directorate of Supply and Maintenance by missile systems is as follows: Nike Hercules, \$1,267,000; Sergeant, \$285,000; Pershing, \$206,000; Hawk, \$197,000; Lacrosse, \$37,000.

## COMMANDING GENERAL U. S. ARMY MISSILE COMMAND

## MICOM PROGRAM COORDINATOR

## STAFF COST REDUCTION OFFICERS

## COMMAND COST REDUCTION OFFICERS

## The "Guys" At The Working Level

same. There are many ways to get our job done. I expect it to be done on time—at less cost. I know I can count on each of you to help."

The application of cost reduction is not new to either the Army or the Missile Command. Responsive and economical management has always been a primary concern of this Command. Currently and over the years, many Army and MICOM programs, formal and informal, have stressed the urgency of doing a better job at less cost. These programs are continuous and active, with individual program managers, in all fields of MICOM operations. Hundreds of management actions which generate cost reduction are taken within their framework. The CR program does not dilute their identity. On the contrary cost reduction leans heavily upon the management techniques used in these programs and projects for cost savings input. CR offers to all management efforts a common framework for integrating their efforts toward cost reduction. It establishes a continuing mechanism for recognizing and reporting the results of these efforts in specific quantitative terms.

### Everybody's Business

Cost reduction is everybody's business. It takes advantage of the "know-how" at every level or organization within existing organizations. It is not simply a reporting mechanism. It highlights and intensifies managerial actions in all programs, projects, tasks, and operations. It forces the creation of new techniques and consolidates the monetary savings of our managerial actions to reflect a picture of the Command's prudent utilization of dollar resources. It provides successive levels of top management within MICOM, Army and DOD with evidence of the effort devoted to the program and the results obtained.

The program has three key objectives to obtain savings:

- "1—Buying only what we need to achieve balanced readiness.
- "2—Buying what we need at the lowest sound price.
- "3—Reducing operating costs.

### Organized Effort

CR in MICOM is not an organization element in itself. Rather it is an organized effort. Program execution is integrated within the mission and functional responsibilities of existing organization levels and efficient management and know-how throughout the Command. This is a logical approach as the cost reduction program is comprised of 30 functional cost reduction areas which fit into the entire functional pattern of the Command organization. These areas on an individual basis, or as a group of functions, are assigned to all organizations within the MICOM Staff Offices, the Directorates, AMSC, and Project and Commodity Manager Offices.

The commanders, directors, managers, and chiefs of these organization elements act as Participating (Command) Cost Reduction Officers. It is they who implement and execute the program, who motivate their organizations toward cost reduction accomplishments—who actually generate the savings.

(See REDUCING on Page 10)

## Is Cost Reduction Arbitrary Cutting?

BY: COL. WILLIAM J. NEWMAN  
U.S. Army Missile Command

Cost reduction is not arbitrary budget cutting. In fact arbitrary budget cuts and excess program authority is not reportable as savings in the cost reduction program.

The type of reportable savings in the cost reduction program demands that a management action be first taken which forces the issue of cost reduction. Such an action must improve management's position, reduce costs, and not impair the efficiency of operations or military effectiveness. The managerial action should provide a continuing measurement of progress in terms of continued operational efficiency as well as cost savings.

### Qualify For Savings

Imposed reductions which result in a reduced level of current or planned expenditures may qualify as savings, (1) if the activity affected by the reduction can satisfactorily demonstrate the institution of new, improved, or intensified

## MOVIES, EXHIBITS SET FOR COST REDUCTION WEEK

MICOM and Project Manager Personnel will be requested to attend the presentation of a 30-minute movie, "A Dollar's Value for a Dollar Spent." The movie will be shown at MICOM headquarters, Directorates of Supply and Maintenance, Procurement and Production, Research and Development, and the Army Missile Supply Command. Colorful exhibits reflecting cost reduction accomplishments of the individual Directorates and AMSC will also be on display at these command elements.

The movie covers FY 1964 savings and FY 1965 goals and it shows types of management actions taken to generate cost reduction within AMC. Two of these actions, one in the use of microcards in technical manuals and the other in the reuse of computer tape in data processing systems, are MICOM improvements.

fied management actions which will maintain efficient operations, and (2) that they can accomplish assigned missions within such reduced levels.

It is axiomatic that where savings are generated that budget requirements will be reduced. But cost reduction trims the budget only at the line item level or area where a management improvement has been made and where the dollar requirement has been reduced. No reduction is made at other line items levels where requirements remain valid and justifiable. The point to remember is that if the cost reduction has not occurred the budget would have been that much higher.

### Savings In Budget

Each year when DOD presents the budget to Congress they estimate the cost savings for the next budget year. These savings are taken out of the budget estimates and Congress is so notified.

When the cost reduction program came into being several years ago, the President gave Secretary McNamara two primary instructions: (1) to establish a force structure required as a proper foundation for our foreign policy, without regard to arbitrary budgets or costs, and (2) to procure these requirements at the lowest sound cost.

### Power At Low Cost

What does this mean? As Secretary McNamara points out it means you decide whether you need 16 divisions or 14 divisions or 18 divisions. It means you decide whether you need 1000 minutemen, 600, or 1500. This is done without regard to the cost. As Mr. McNamara further points out America is an affluent society. We

(See ARBITRARY on Page 10)

# The Missile Command Celebrates Savings

## Credit Given:

The following individuals and organizations have been selected by their Commanders, Directors, Project Managers or Chiefs to be recognized for their contributions to the success of the FY 1964 Cost Reduction Program:

**LANCE**  
Carlo C. Coipan, Vernon S. Robeson, Helen Thummel.

**SERGEANT**  
L. J. Barnes, D. W. Dockery, J. O. Moorehead, John Jarvis, James Cuff, K. W. Champagne.

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**INSTALLATIONS AND SERVICES OFFICE**  
Clauda M. Sentell, John K. Dykes, Frank Hall.

**MANAGEMENT SCIENCES AND DATA SYSTEMS OFFICE**  
Mildred Kubilis, William B. Yeager.

### SUPPLY & MAINTENANCE DIRECTORATE

George P. Lachar, Leo F. Kruse, Ernest B. Gurley, Gene Clapper, John Hay, Jack Simmons, Edward Murphy, Louella T. Gibson, Nellie B. Barnard, Joe C. Cleere, Harold Baum, Stites Waller, Mildred May, Wanda Palmer, Leon F. Trowbridge, Jack Hogue, Malcolm E. Tully, Shirley W. Woods, Evelyn B. Foster, Clinton J. Roberson, Thomas J. Holly, Alberta L. Short, Harold C. Strang, George B. Rudd, Leland K. Womack, Aubie L. Latham, Edgar L. Gallop, Faye M. Whitt, Lt. Col. L. W. Carlson, Gilbert Workman, Lewis Arcangeli, Robert Loudon, Robert V. Reiff.



ARMY MISSILE SUPPORT COMMAND

### ARMY MISSILE SUPPORT COMMAND

H. T. Salyer, G. V. Piercy, Annie N. Adcock, D. W. Popkins, O. D. Belew, Mrs. Mildred Pinion, R. L. Reynolds, Evelyn Hartlein, Maggie B. Siddon.

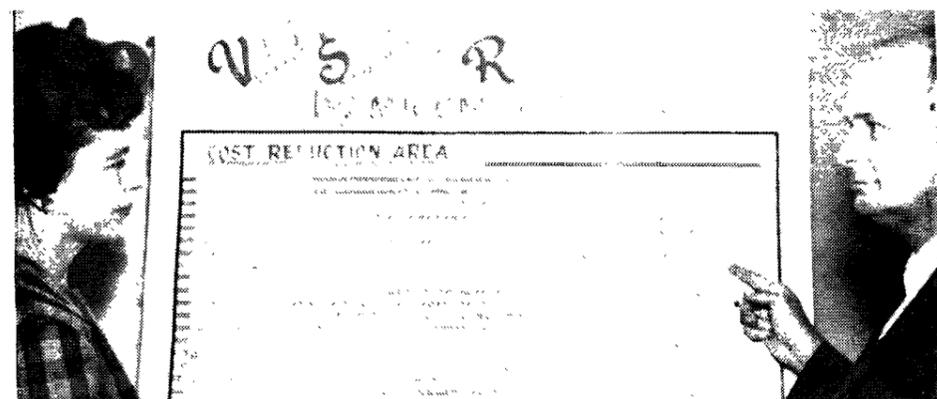


SUPPLY & MAINTENANCE DIRECTORATE

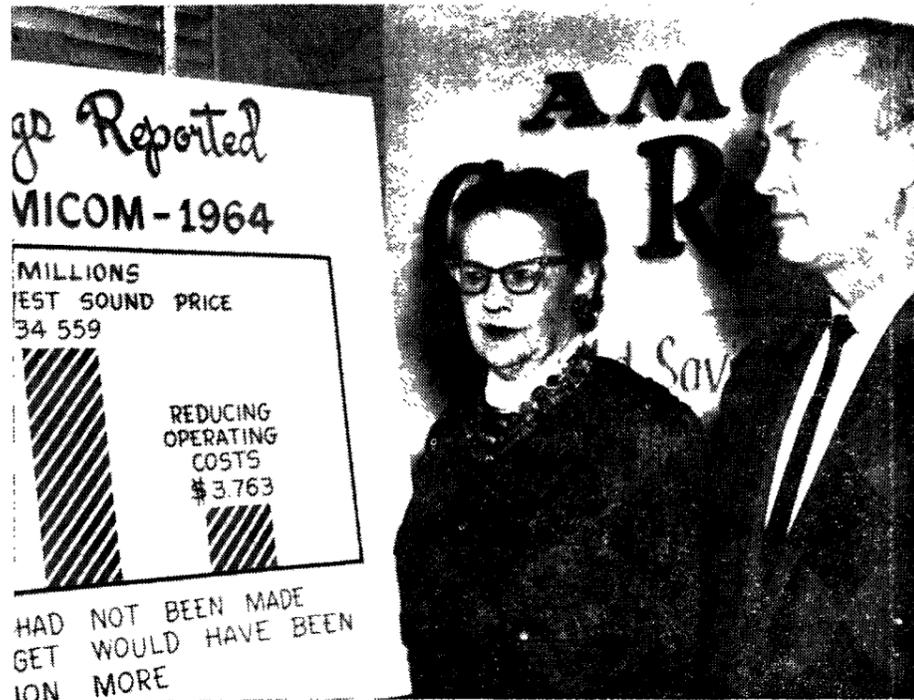
### RESEARCH AND DEVELOPMENT DIRECTORATE

**PROCUREMENT AND PRODUCTION DIRECTORATE**  
Edwin M. Hart, Arthur Harvey, Raymond Weber, D. S. Turney, W. E. Gibbons, Helene Fohner, John T. Smith, Edward Goss, Clarence Landrum.

### PROJECT MANAGERS



LANCE



PROCUREMENT & PRODUCTION DIRECTORATE



RESEARCH & DEVELOPMENT DIRECTORATE  
MANAGEMENT SCIENCES  
INSTALLATION & SERVICES



VALUE ENGINEERING



SERGEANT

**REDUCING**

(Continued From Page 8)

Rather than have these 29 or more Command Cost Reduction Officers doing business with and reporting through one central coordinator at general staff level, it was decided to take advantage of the existing command know-how within several of the Staff Offices and Directorates, and appoint Primary (staff) Cost Reduction Officers who wear two hats including that of a Command Cost Reduction Officer in his execution of the program within his own mission.

**Staff Supervises**

These staff officers supervise the implementation of the program in a selected group of cost reduction areas. The areas are grouped to fall logically within their existing staff functional and mission responsibility.

Another influencing factor in the selection of Staff Cost Reduction officers to summarize MICOM accomplishments was that they were counterparts of the various heads of the AMC organization elements handling the same group of cost reduction areas for the Material Command. This plan gives the MICOM officers a direct line of communication with their counterparts at AMC.

**Comptroller Coordinates**

To handle the coordination of the overall program, for the Commanding General within the Command, and with AMC, the Comptroller & Director of Programs was designated MICOM Cost Reduction Program Coordinator.

As an example of how the organized effort works; they follow through on program implementation in those areas assigned to the Directorate of Procurement and Production in the objective of Buying Only What We Need works

**ARBITRARY**

(Continued From Page 8)

should not allow budgetary limits, pre-established, arbitrary, financial limits, to determine our force structure. Having determined the force structure, the next thing is to procure and operate it at the lowest possible cost. This is where cost reduction comes in.

DOD says that we have saved \$2½ billion dollars in FY 1964 through cost reduction. Had not these savings occurred the DOD budget would have been \$2½ billion higher without a change in the force structure. The expenditures would have been \$2½ billion higher without the cost reduction program.

**Budget Up-Cost Down**

When the force structure requirements increase the budget increases. Secretary McNamara lists some of these increases such as 44% in tactical fighter squadrons, nuclear warheads in our strategic alert forces by about 150%, increased ship construction, exclusive of Polaris, 100% a year. Our counter insurgency force was increased about 800%. These are high force increases. Of course, the DOD budget went up when we increased force structure this way. The big thing is that the budget went up \$2½ billion less than it otherwise would have gone up with those same force changes.

The answer is that cost reduction gives a better insight into the value of our dollar expended. We are able to progress and expand and take advantage of rapid advances in the state of the art of missilery—at the same dollar level

like this. In this objective the areas of technical data and reports, industrial production base, idle production equipment, excess contractor inventory and the elimination of goldplating through value engineering are assigned to D/P&P for staff program implementation.

These areas are the staff and mission responsibilities of D/P&P under the organizational pattern of the Command. It is here that the MICOM staff know-how in these areas is located. Through D/P&P are processed hundreds of reports of accomplishment from Command Cost Reduction officers throughout the Command and Project Manager offices in all the areas assigned to D/P&P. The reports are summarized and forwarded to the AMC Cost Reduction Officer. Copies are submitted to the MICOM Cost Reduction Program Coordinator who summarizes a report to the Commanding General, MICOM.

**Hoosier Matches Won By Redstone Rifle Shooters**

The Redstone Arsenal High Power Rifle Team participated in the Indiana State Championship High Power Rifle Matches this past week at Camp Attenbury, Indiana and impressed the Hoosier hot shots with the fact the "Heart of Dixie" has a few dead eyes also.

The team returned home loaded down with eleven awards for their brilliant shooting exhibition. The pace was set by P.F.C. James K. Chilcoat, Hq & Hq Co., OGMS, firing his first match with a sharpshooter classification. Chilcoat shot his way to four first places the big one being an aggregate of 200 yard off hand, 300 yard rapid fire and 500 yard slow fire. This aggregate made up the Governor's Trophy Match. He also captured the 200 yard rapid fire match, and both 500 yard matches.

S/Sgt. Gentry M. Hawk, Co. C, OGMS, shot his way into three places as a sharpshooter. Hawk's performance made him the Indiana State Champion, sharpshooter class. He picked up second place in the 200 yard offhand match, and first place, open class, in the 200 yard rapid fire match.

SFC James R. Dillon, Hq & Hq Co., OGMS, won himself the 500 yard first place award in the master class and second master in the 200 yard offhand match.

SFC Carl R. Franquet, Co. A, OGMS, picked up the first master class, 300 yard rapid fire award and second master slot in the 500 yard slow fire match.

Sgt. Franquet, team captain of the "big guns," attributed the win

—unless we add to the force structure requirements. This certainly is not arbitrary budget cutting.

**Ewart To Defend Shooting Record**

A pistol expert from the Army Missile Command will represent the IV U. S. Army Reserve Corps this weekend at the Florida Fall Pistol Matches in Jacksonville.

Wade H. Ewart, chief of the Engineering Services of the Command's Directorate of Research and Development faces a much more difficult task than last year, when he brought home four individual trophies for the same match. He also fired with a four-man team which came in second in team competition.

Ewart was classed as a marks-

man last year, but will be firing this year as an expert. The match is sanctioned by the National Rifle Association, who also classifies shooters according to ability.

Ewart is attached to the 3392nd U. S. Army Reserve School in Huntsville, and was recently promoted to the rank of Colonel.

One of the trophies Ewart won at Jacksonville last year was top military marksman, and another was the IV U. S. Army Corps Reserve marksman championship. The IV Corps includes Alabama, Florida, and Mississippi.

Ewart will represent the Alabama Sector of the IV Corps again this year, and will be on active duty during the two-day match. He will fire in the .22, .38, and .45, caliber categories.

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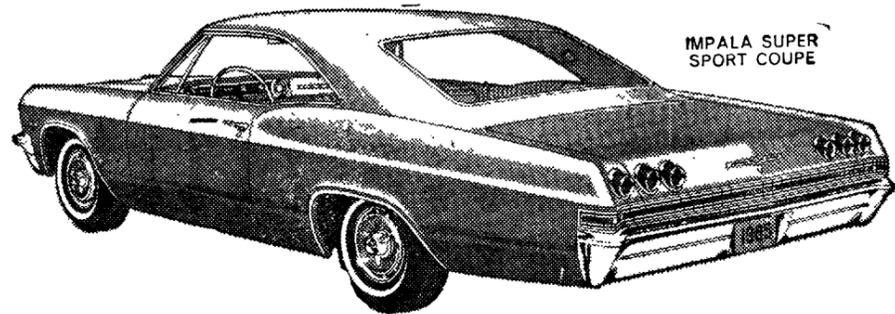
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## Local Librarians Host Special Libraries Group

Members of the Alabama Chapter, Special Libraries Association will gather at Redstone Arsenal this week for their quarterly meeting. Host organization is the Redstone Scientific Information Center (RSIC).

The group will be welcomed by F. E. Croxton, RSIC director.

Three RSIC employees will present papers at the meeting. William J. Wilson will talk Automated Literature Processing, Handling, and Analysis;

Documents Librarian Sara Dearman will demonstrate a system which will furnish a computer printout of all information available on any requested subject;

Lois Robertson will tell about selective dissemination of information, which is another automated process planned for future use by RSIC.

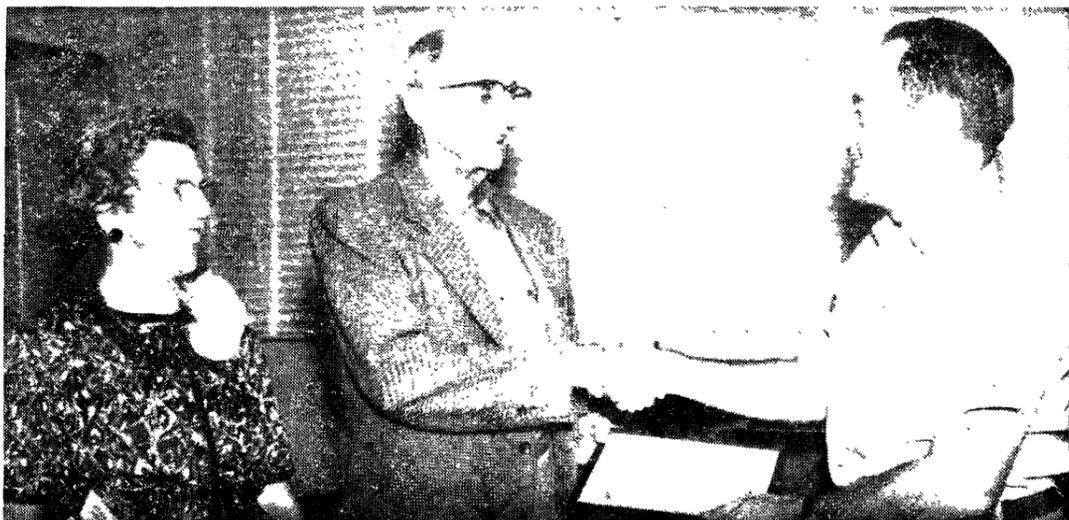
The RSIC is funded jointly by the Army Missile Command and the Marshall Space Flight Center, which are the two major customers. In addition, they serve all industrial organizations working under government contract with the Army or MSFC.

Membership of the Special Libraries Association comes mostly from RSIC and Air University Library in Montgomery, with 22

members each out of a total of about 60.

Early arrivals in Huntsville will have a ride Thursday night on the Huntsville Queen, one of the old-fashioned stern-wheelers still traveling the Tennessee River.

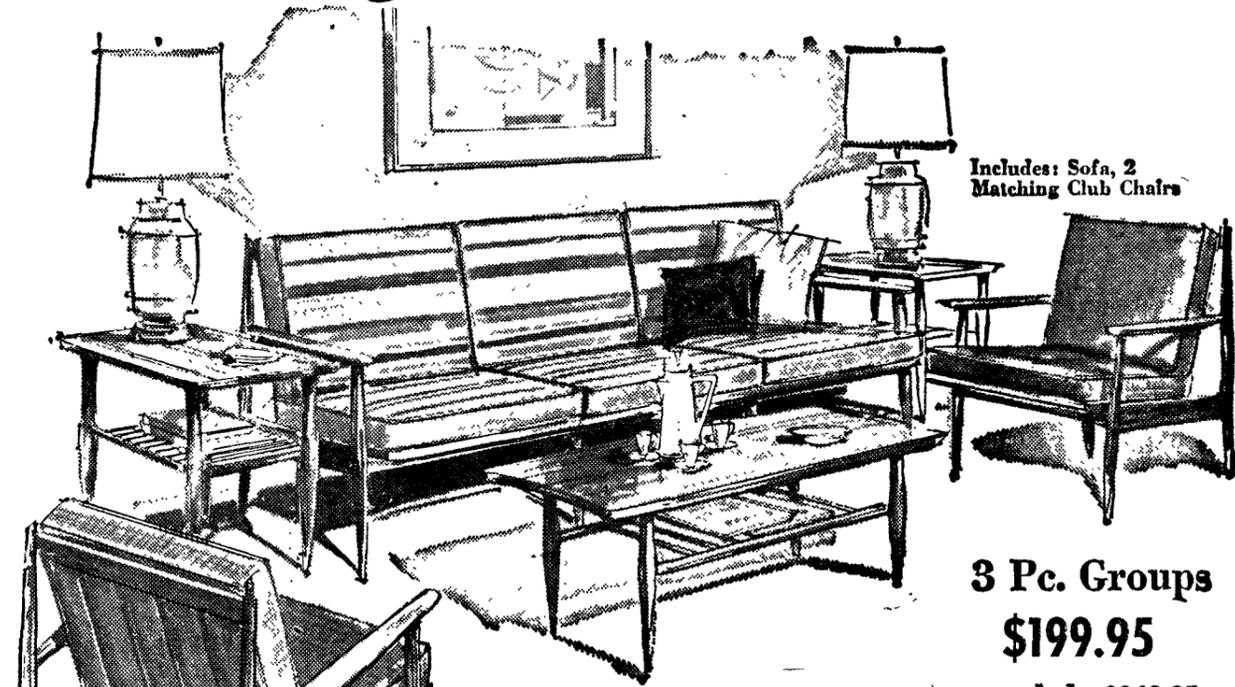
After lunch at the Redstone Arsenal Officers Club on Friday, the Association will hold its quarterly business meeting. Cleo Cason, chief of the RSIC Technical Library, is chairman of the Association's nominating committee, and Lucile Ridings of RSIC is the public relations chairman.



**MACHINIST RETIRES**—Frank E. Harnish, a machinist with the Engineering Services Division, receives a retirement certificate from Lt. Col. Stanton W. Josephson, Director of R&D, after almost 15 years of federal service. Mrs. Harnish looks on at left.

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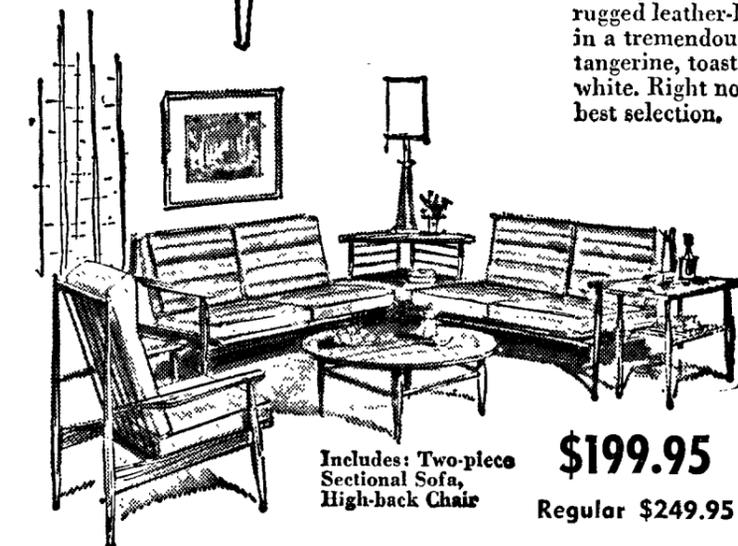


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# Language School Team Is Visiting Missile School

A team from the Defense Language Institute at the Presidio of Monterey, Calif., is visiting for three days at the Army Ordnance Guided Missile School this week as part of a survey to determine the

proficiency of foreign military students in U.S. technical schools.

The study is being conducted to improve the teaching of English as a foreign language in the United States and overseas.

Faculty members said that the survey could be of great value to the Missile School because of many problems arising from the language differences in class. Students from 17 foreign nations train here on the Hawk, Nike, Pershing and Sergeant missiles, and there is wide variance in their knowledge of English, technical words and phrases.

Maj. Miles Jameson, deputy commandant of the Institute, will head the team. He will be accompanied by two civilian assistants who will conduct the tests.

The Institute team will discuss training problems with Maj. Monroe Webb, chief of the Foreign Liaison Division at the School, and will sit in on classes including students from allied nations. They will test approximately 10 per cent of the foreign students at the school in English.

They are scheduled to leave tomorrow.

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# Electronic Battlefield Course Added At School

An electronic battlefield has been added to the curriculum at the Army Ordnance Guided Missile School.

The machine, called the Hawk System Engagement Simulator, is used to teach air defense radar operators how to fight a missile battle. The Missile School will train experts to keep the machine in working order.

Its radar screens simulate battlefield conditions that give missile radar experts a "real" taste of battle in the laboratory.

So realistic are the "attacks" that the operator can learn how to take effective countermeasures against several independent maneuverable targets using enemy tactics.

Training in the Hawk Division at the Missile School has had to be broadened in scope to adapt to the new system. Hawk maintenance technicians, formerly trained primarily in vacuum tube electronics, now must also study transistor electronic concepts to maintain the electronic teaching device.

Before development of the device, all training was with actual aircraft or target drone missiles. The simulator is designed to eliminate this aspect, thereby cutting costs.

Training with the unit has only recently begun, so the Army feels that it is too early to evaluate accurately its training effectiveness, but the feeling is that the new system can train better mis-

silemen faster.

The first class trained to support the system, a Marine Hawk unit, only recently was graduated from OGMS, and it will be several weeks or months before the Army feedback system can determine the degree that simulator-trained crews are combat effective. In the meantime, plans are proceeding to include the training in the coursework for students from the U. S. Army, Marine Corps, the North Atlantic Treaty Organization Countries, Japan, Nationalist China, Korea and Israel.

The new system is composed of an electronic countermeasures console and power distribution panel, a control console, a cable and relay panel, and a Craig-type shelter. Instructors feed desired information through the control console into the Hawk radar system through interconnecting cables, and the students see on their radar units a realistic "attack" developing.

The missilemen then take on



**TOPS IN BIGGEST MISSILE PROJECT**—Department of the Army certificates went to two top executives in the Army's Nike-X Project at Redstone Arsenal this week. Both were recognized for their part in the management of the Nike-X program which is the Army's biggest missile project and has facilities stretching nearly half-way around the world. Presenting the certificates of achievement is Col. I. O. Drewry the Nike-X Project Manager. Receiving them are Mrs. Sara Bruce, runnerup for the Senior Executive Award; and Hugh Watson, winner of the Senior Executive Award. Mrs. Bruce, one of the top-ranking women employees on Redstone, is Chief of the System Resources Section. Watson, a retired Army officer, is Chief of the Administrative Office. Both live in Huntsville.

the problem, check out their equipment and simulate a launch.

The simulator is another step in the Army's technological advances in the missile field and is geared to supply missile technicians as

quickly as the mushrooming demand for them is over.

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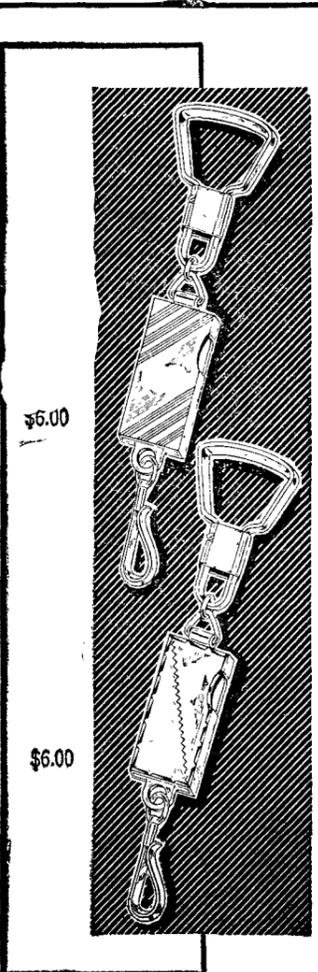
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Page 14 The Redstone Rocket — Sept. 23, 1964

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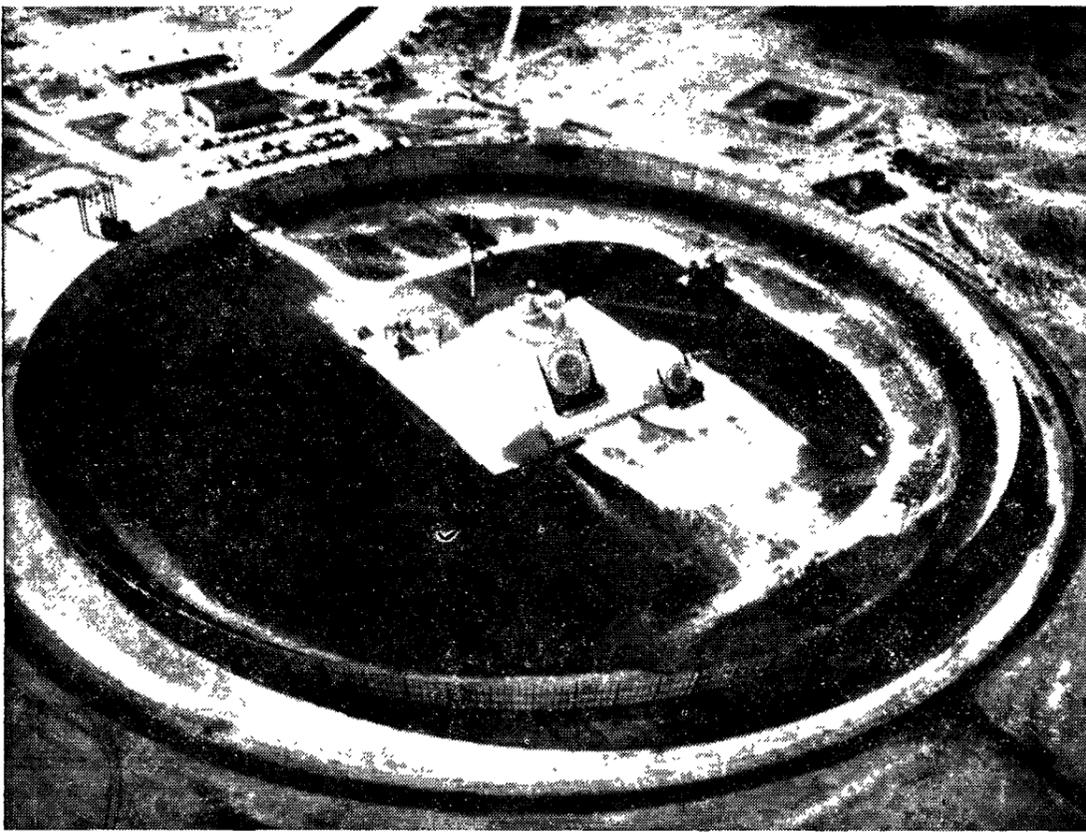
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**NEW NIKE-X RADAR**—This is an aerial view of the first full scale version of the Nike-X missile system Multi-function Array Radar (MAR) now undergoing testing at White Sands Missile Range, N.M. The MAR replaces three conventional radars and has few moving parts. The radar's receiver is housed in the major dome and its transmitter in the smaller dome on the right. Radar signals are transmitted and received by electronic elements located in apertures in the domes. Most of the radar's electronic equipment is housed in a two-story building beneath the concrete and steel domes. A small radar atop the receiver dome is used for radar checkout purposes. The fence surrounding the MAR decreases interference from radar beams reflected by the ground. Dark framework around the apertures is moveable scaffolding. A second aperture invisible in the receiver dome is blanked off and not used, likewise, the transmitter dome on the left is not in use.

ed to Lt. Edberg by Reavis O'Neal Jr., board member of the Tennessee Valley Chapter of the Association of the U. S. Army and Information Officer of the Missile School.

Sept. 9, 1963—U. S. AMC General Order No. 51 authorized establishment of a Command Communications Information Systems 1970 (CCIS-70) Project Manager's staff office in Europe.

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## HONOR STUDENTS RECEIVE AUSA'S SCHOLAR PLAQUE

Alabama, Massachusetts and Wisconsin were represented Friday on the honor student roll of the Ordnance Guided Missile School.

Topping the honor scroll was 2/Lt. Alan R. Edberg of East Brookfield, Mass., who received the Association of the U. S. Army Plaque for maintaining a grade point average of 96.1 in his Guided Missile Officer course.

Honor student diplomas were also presented to Sp/5 Mackie Thomley of Bay Minette, Ala., who was high man in his Acquisition Radar Hawk course; and Pvt. Richard J. Allram of Prairie Farm, Wis., who out scored his classmates in a Nike Internal Guidance course.

The ANSA Plaque was present-

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of Proc & Prod; **Annie S. McCaghen**, Clerk-Typist, Dir of S & M; **Robert Q. Nelson**, Program Specialist, Dir of Proc & Prod; **Eleanor O'Rear**, Clerk-Typist, and **Rob-**

Sept. 22, 1963 — The Senate ratified the limit test ban treaty 80 to 19.

**Robert W. Miles**, Procurement Analyst, Sergeant Project Office.

Sept. 20, 1963 — President Kennedy proposed, in a speech before the U. N. General Assembly, a joint U. S.-Soviet manned expedition to the moon.



**CARD CATALOG ON MICROFILM**—James P. Clark, deputy chief of the Army Missile Command's Technical Library, presents a card catalog printed on microfilm to Betty Bailes of the Chrysler Corporation. Others, left to right, are Dorothy Jones, IBM, and Ruth Logan of Brown Engineering. The microfilm catalogs will be used by library branch offices on Redstone Arsenal, as well as contractor organizations, to save travel to and from the main library. The library is part of the Redstone Scientific Information Center which serves the Army, Marshall Space Flight Center and government contractors at Redstone Arsenal and Huntsville.

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